Brunswick 2

1Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	1.0	1.0	1.0	0	0
Critical hours	2115.0	1337.0	2055.0	2209.0	2184.0
Indicator value	**0.8**	**1.8**	**2.7**	**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	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	0
Indicator value				**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	2.0	1.0
Critical hours	2115.0	1337.0	2055.0	2209.0	2184.0
Indicator value	**2.5**	**1.8**	**0.9**	**1.8**	**2.7**

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	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	2.50	0	0	64.30	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	0	61.53	0	2.60	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**1.7%**	**1.6%**

Licensee Comments:

3Q/97: Train 1 unplanned unavailable hours for Q3/1997 was changed from 303.23 to 0 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band. Train 1 fault exposure hours for Q3/1997 was changed from 0 to 309.23 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band. Train 2 planned unavailable hours for Q3/1997 was changed from 134.67 to 0 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

2Q/97: Train 2 planned unavailable hours for Q2/1997 was changed from 0 to 134.67 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	28.60	0	14.70	8.90	9.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2115.00	1337.00	2055.00	2209.00	2184.00
Indicator value				**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	42.30	0.50	15.40
Unplanned unavailable hours	26.10	0	0	96.80	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2115.00	1337.00	2055.00	2209.00	2184.00
Indicator value				**0.9%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	17.60	0	0	13.00	0
Unplanned unavailable hours	0	25.10	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	30.70	0	119.20	0	20.30
Unplanned unavailable hours	18.40	0.60	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**0.8%**	**0.9%**

Licensee Comments:

1Q/99: Train 2 planned unavailable hours for Q1/1999 was changed from 20.2 to 30.7 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.002390	0.000265	0.000278	0.000320	0.000302	0.000293	0.000276	0.000331	0.000303	0.000277	0.000345	0.000348
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.2**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	3.381	2.842	2.950	2.930	2.820	2.840	2.830	2.790	2.730	2.700	2.660	2.690
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.5**	**11.4**	**11.8**	**11.7**	**11.3**	**11.4**	**11.3**	**11.2**	**10.9**	**10.8**	**10.6**	**10.8**

Licensee Comments:

6/99: The maximum RCS Leakage for 4/1999 and 5/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

6/99: The maximum RCS Leakage for 4/1999 and 5/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	31.0	11.0	9.0	1.0
Total opportunities	0	32.0	11.0	9.0	2.0
Indicator value				**98.6%**	**98.3%**

Licensee Comments:

3Q/99: The number of total opportunities and opportunities performed timely and accurately for Q3/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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				159.0	98.0
Total Key personnel				159.0	99.0
Indicator value				**100.0%**	**99.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	245	315	279	314	244
Total sirens-tests	245	315	280	315	245
Indicator value	**98.5%**	**98.9%**	**99.6%**	**99.8%**	**99.7%**

Licensee Comments:

4Q/99: The number of successful tests and total tests for Q4/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	1	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**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	25.23	39.15	165.14	21.23	52.70
CCTV compensatory hours	0	6.2	7.1	5.8	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.007**	**0.005**	**0.010**	**0.010**	**0.010**

Licensee Comments:

1Q/00: Compensatory Hours and the IDS Normalization Factor for Q3/1998 through Q1/2000 were changed due to data reporting errors. Both the previously reported and amended performance indicator values are within the green performance indicator band.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002

Brunswick 2

2Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	1.0	1.0	0	0	0
Critical hours	1337.0	2055.0	2209.0	2184.0	2183.0
Indicator value	**1.8**	**2.7**	**2.7**	**1.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	2.0	1.0	0
Critical hours	1337.0	2055.0	2209.0	2184.0	2183.0
Indicator value	**1.8**	**0.9**	**1.8**	**2.7**	**2.4**

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	0	64.30	0	1.44
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	61.53	0	2.60	0	43.65
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value			**1.7%**	**1.6%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	14.70	8.90	9.40	0.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1337.00	2055.00	2209.00	2184.00	2183.00
Indicator value			**0.4%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	42.30	0.50	15.40	14.70
Unplanned unavailable hours	0	0	96.80	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1337.00	2055.00	2209.00	2184.00	2183.00
Indicator value			**0.9%**	**1.0%**	**1.0%**

Licensee Comments:

2Q/00: The number of planned unavailable hours for 5/2000 was changed from 14.4 to 14.7 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	13.00	0	12.70
Unplanned unavailable hours	25.10	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	0	119.20	0	20.30	17.60
Unplanned unavailable hours	0.60	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value			**0.8%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Safety System Functional Failures	1	0	0	0	0
Indicator value	**2**	**2**	**2**	**1**	**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	0.000320	0.000302	0.000293	0.000276	0.000331	0.000303	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	2.930	2.820	2.840	2.830	2.790	2.730	2.700	2.660	2.690	2.600	2.590	2.580
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.7**	**11.3**	**11.4**	**11.3**	**11.2**	**10.9**	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**

Licensee Comments:

6/00: The maximum RCS Leakage for 7/1999 through 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

6/00: The maximum RCS Leakage for 7/1999 through 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

6/99: The maximum RCS Leakage for 4/1999 and 5/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	31.0	11.0	9.0	1.0	28.0
Total opportunities	32.0	11.0	9.0	2.0	30.0
Indicator value			**98.6%**	**98.3%**	**97.1%**

Licensee Comments:

3Q/99: The number of total opportunities and opportunities performed timely and accurately for Q3/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel			159.0	98.0	102.0
Total Key personnel			159.0	99.0	104.0
Indicator value			**100.0%**	**99.0%**	**98.1%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	315	279	314	244	280
Total sirens-tests	315	280	315	245	280
Indicator value	**98.9%**	**99.6%**	**99.8%**	**99.7%**	**99.7%**

Licensee Comments:

2Q/00: The number of successful siren tests and the total number of siren tests for 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

4Q/99: The number of successful tests and total tests for Q4/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	1
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**1**

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	39.15	165.14	21.23	52.70	13.18
CCTV compensatory hours	6.2	7.1	5.8	0	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.005**	**0.010**	**0.010**	**0.010**	**0.009**

Licensee Comments:

1Q/00: Compensatory Hours and the IDS Normalization Factor for Q3/1998 through Q1/2000 were changed due to data reporting errors. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: April 1, 2002

Brunswick 2

3Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	1.0	0	0	0	1.0
Critical hours	2055.0	2209.0	2184.0	2183.0	2066.6
Indicator value	**2.7**	**2.7**	**1.8**	**0.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	2.0	1.0	0	0
Critical hours	2055.0	2209.0	2184.0	2183.0	2066.6
Indicator value	**0.9**	**1.8**	**2.7**	**2.4**	**2.4**

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	0	64.30	0	1.44	0.78
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0	2.60	0	43.65	1.18
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value		**1.7%**	**1.6%**	**1.4%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	14.70	8.90	9.40	0.40	14.70
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2055.00	2209.00	2184.00	2183.00	2066.60
Indicator value		**0.4%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	42.30	0.50	15.40	14.70	2.80
Unplanned unavailable hours	0	96.80	0	0	55.10
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2055.00	2209.00	2184.00	2183.00	2066.60
Indicator value		**0.9%**	**1.0%**	**1.0%**	**1.2%**

Licensee Comments:

2Q/00: The number of planned unavailable hours for 5/2000 was changed from 14.4 to 14.7 due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	13.00	0	12.70	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	119.20	0	20.30	17.60	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value		**0.8%**	**0.9%**	**0.8%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000276	0.000331	0.000303	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.830	2.790	2.730	2.700	2.660	2.690	2.600	2.590	2.580	2.591	2.622	2.620
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.3**	**11.2**	**10.9**	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**

Licensee Comments:

6/00: The maximum RCS Leakage for 7/1999 through 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

6/99: The maximum RCS Leakage for 4/1999 and 5/1999 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	11.0	9.0	1.0	28.0	2.0
Total opportunities	11.0	9.0	2.0	30.0	2.0
Indicator value		**98.6%**	**98.3%**	**97.1%**	**96.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel		159.0	98.0	102.0	102.0
Total Key personnel		159.0	99.0	104.0	104.0
Indicator value		**100.0%**	**99.0%**	**98.1%**	**98.1%**

Licensee Comments:

3Q/00: The number of key ERO members and the number participating in a drill for Q1/2000 through Q3/2000 were changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	279	314	244	280	244
Total sirens-tests	280	315	245	280	245
Indicator value	**99.6%**	**99.8%**	**99.7%**	**99.7%**	**99.7%**

Licensee Comments:

2Q/00: The number of successful siren tests and the total number of siren tests for 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	1	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**1**	**1**	**0**	**1**	**1**

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	165.14	21.23	52.70	13.18	32.48
CCTV compensatory hours	7.1	5.8	0	0	0.9
IDS normalization factor	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.010**	**0.010**	**0.009**	**0.004**

Licensee Comments: none

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	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: March 29, 2002

Brunswick 2

4Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	1.0	0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0
Indicator value	**2.7**	**1.8**	**0.8**	**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/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	2.0	1.0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0
Indicator value	**1.8**	**2.7**	**2.4**	**2.4**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	64.30	0	1.44	0.78	25.66
Unplanned unavailable hours	0	0	0	0	8.68
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	2.60	0	43.65	1.18	1.07
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.7%**	**1.6%**	**1.4%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	8.90	9.40	0.40	14.70	11.10
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2066.60	2209.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0.50	15.40	14.70	2.80	2.50
Unplanned unavailable hours	96.80	0	0	55.10	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	2066.60	2209.00
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	13.00	0	12.70	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	20.30	17.60	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.8%**	**0.9%**	**0.8%**	**0.7%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/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	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	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300	0.000270	0.000260	0.000200
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	2.700	2.660	2.690	2.600	2.590	2.580	2.591	2.622	2.620	2.770	2.739	2.786
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**	**11.1**	**11.0**	**11.1**

Licensee Comments:

6/00: The maximum RCS Leakage for 7/1999 through 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	9.0	1.0	28.0	2.0	22.0
Total opportunities	9.0	2.0	30.0	2.0	22.0
Indicator value	**98.6%**	**98.3%**	**97.1%**	**96.7%**	**96.3%**

Licensee Comments: none

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	159.0	98.0	102.0	102.0	101.0
Total Key personnel	159.0	99.0	104.0	104.0	103.0
Indicator value	**100.0%**	**99.0%**	**98.1%**	**98.1%**	**98.1%**

Licensee Comments:

4Q/00: The number of key ERO members participating in a drill for Q1/2000 through Q4/2000 were changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

3Q/00: The number of key ERO members and the number participating in a drill for Q1/2000 through Q3/2000 were changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	314	244	280	244	312
Total sirens-tests	315	245	280	245	315
Indicator value	**99.8%**	**99.7%**	**99.7%**	**99.7%**	**99.5%**

Licensee Comments:

2Q/00: The number of successful siren tests and the total number of siren tests for 6/2000 was changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	1	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**1**	**0**	**1**	**1**	**1**

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	21.23	52.70	13.18	32.48	14.45
CCTV compensatory hours	5.8	0	0	0.9	3.3
IDS normalization factor	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.010**	**0.009**	**0.004**	**0.004**

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	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: March 28, 2002

Brunswick 2

1Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	1.0	0	1.0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0	1428.9
Indicator value	**2.7**	**1.8**	**0.8**	**0.8**	**0.8**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	2.0	1.0	0	0	0	1.0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0	1428.9
Indicator value	**1.8**	**2.7**	**2.4**	**2.4**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	64.30	0	1.44	0.78	25.66	0.67
Unplanned unavailable hours	0	0	0	0	8.68	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
Train 2						
Planned unavailable hours	2.60	0	43.65	1.18	1.07	0.88
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2147.57
Indicator value	**1.7%**	**1.6%**	**1.4%**	**0.6%**	**0.7%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	8.90	9.40	0.40	14.70	11.10	4.60
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2066.60	2209.00	1428.90
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0.50	15.40	14.70	2.80	2.50	0
Unplanned unavailable hours	96.80	0	0	55.10	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	2066.60	2209.00	1428.90
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.1%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	13.00	0	12.70	0	0	10.50
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	20.30	17.60	0	0	5.60
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.8%**	**0.9%**	**0.8%**	**0.7%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Safety System Functional Failures	0	0	0	0	0	0
Indicator value	**2**	**1**	**0**	**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	0.000276	0.000331	0.000303	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000270	0.000260	0.000200	0.000280	0.000320	0.000170
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**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	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	2.830	2.790	2.730	2.700	2.660	2.690	2.600	2.590	2.580	2.591	2.622	2.620
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.3**	**11.2**	**10.9**	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	2.770	2.739	2.786	2.740	3.221	2.820
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.1**	**11.0**	**11.1**	**11.0**	**12.9**	**11.3**

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	9.0	1.0	28.0	2.0	22.0	0
Total opportunities	9.0	2.0	30.0	2.0	22.0	0
Indicator value	**98.6%**	**98.3%**	**97.1%**	**96.7%**	**96.3%**	**96.3%**

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	159.0	98.0	102.0	102.0	101.0	97.0
Total Key personnel	159.0	99.0	104.0	104.0	103.0	100.0
Indicator value	**100.0%**	**99.0%**	**98.1%**	**98.1%**	**98.1%**	**97.0%**

Licensee Comments:

4Q/00: The number of key ERO members participating in a drill for Q1/2000 through Q4/2000 were changed due to a reporting error. Both the previously reported and amended performance indicator values are within the green performance indicator band.

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	314	244	280	244	312	245
Total sirens-tests	315	245	280	245	315	245
Indicator value	**99.8%**	**99.7%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	21.23	52.70	13.18	32.48	14.45	2.75
CCTV compensatory hours	5.8	0	0	0.9	3.3	6.5
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.010**	**0.009**	**0.004**	**0.004**	**0.003**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: March 28, 2002

Brunswick 2

2Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	1.0	0	1.0	0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0	1428.9	2183.0
Indicator value	**2.7**	**1.8**	**0.8**	**0.8**	**0.8**	**1.8**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	2.0	1.0	0	0	0	1.0	1.0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0	1428.9	2183.0
Indicator value	**1.8**	**2.7**	**2.4**	**2.4**	**0.8**	**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	64.30	0	1.44	0.78	25.66	0.67	1.30
Unplanned unavailable hours	0	0	0	0	8.68	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
Train 2							
Planned unavailable hours	2.60	0	43.65	1.18	1.07	0.88	37.83
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2147.57	2183.00
Indicator value	**1.7%**	**1.6%**	**1.4%**	**0.6%**	**0.7%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	8.90	9.40	0.40	14.70	11.10	4.60	0.30
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2066.60	2209.00	1428.90	2183.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0.50	15.40	14.70	2.80	2.50	0	0.70
Unplanned unavailable hours	96.80	0	0	55.10	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	2066.60	2209.00	1428.90	2183.00
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	13.00	0	12.70	0	0	10.50	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	20.30	17.60	0	0	5.60	14.50
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.8%**	**0.9%**	**0.8%**	**0.7%**	**0.6%**	**0.7%**	**0.7%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000276	0.000331	0.000303	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000270	0.000260	0.000200	0.000280	0.000320	0.000170	0.000140	0.000120	0.000107
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.830	2.790	2.730	2.700	2.660	2.690	2.600	2.590	2.580	2.591	2.622	2.620
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.3**	**11.2**	**10.9**	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	2.770	2.739	2.786	2.740	3.221	2.820	2.889	2.958	3.044
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.1**	**11.0**	**11.1**	**11.0**	**12.9**	**11.3**	**11.6**	**11.8**	**12.2**

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	9.0	1.0	28.0	2.0	22.0	0	21.0
Total opportunities	9.0	2.0	30.0	2.0	22.0	0	24.0
Indicator value	**98.6%**	**98.3%**	**97.1%**	**96.7%**	**96.3%**	**96.3%**	**94.0%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	159.0	98.0	102.0	102.0	101.0	97.0	72.0
Total Key personnel	159.0	99.0	104.0	104.0	103.0	100.0	73.0
Indicator value	**100.0%**	**99.0%**	**98.1%**	**98.1%**	**98.1%**	**97.0%**	**98.6%**

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	314	244	280	244	312	245	279
Total sirens-tests	315	245	280	245	315	245	280
Indicator value	**99.8%**	**99.7%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.5%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	21.23	52.70	13.18	32.48	14.45	2.75	9.70
CCTV compensatory hours	5.8	0	0	0.9	3.3	6.5	2.4
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.010**	**0.009**	**0.004**	**0.004**	**0.003**	**0.003**

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	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

Last Modified: March 27, 2002

Brunswick 2

3Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	1.0	0	1.0	0	0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0	1428.9	2183.0	2208.0
Indicator value	**2.7**	**1.8**	**0.8**	**0.8**	**0.8**	**1.8**	**1.8**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	2.0	1.0	0	0	0	1.0	1.0	0
Critical hours	2209.0	2184.0	2183.0	2066.6	2209.0	1428.9	2183.0	2208.0
Indicator value	**1.8**	**2.7**	**2.4**	**2.4**	**0.8**	**0.9**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	64.30	0	1.44	0.78	25.66	0.67	1.30	68.65
Unplanned unavailable hours	0	0	0	0	8.68	0	0	0
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	2.60	0	43.65	1.18	1.07	0.88	37.83	1.06
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2147.57	2183.00	2208.00
Indicator value	**1.7%**	**1.6%**	**1.4%**	**0.6%**	**0.7%**	**0.5%**	**0.5%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	8.90	9.40	0.40	14.70	11.10	4.60	0.30	20.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2066.60	2209.00	1428.90	2183.00	2208.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0.50	15.40	14.70	2.80	2.50	0	0.70	11.60
Unplanned unavailable hours	96.80	0	0	55.10	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2066.60	2209.00	1428.90	2183.00	2208.00
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.1%**

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	13.00	0	12.70	0	0	10.50	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	20.30	17.60	0	0	5.60	14.50	11.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.8%**	**0.9%**	**0.8%**	**0.7%**	**0.6%**	**0.7%**	**0.7%**	**0.6%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	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	0	0	0
Indicator value	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000276	0.000331	0.000303	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000270	0.000260	0.000200	0.000280	0.000320	0.000170	0.000140	0.000120	0.000107	0.000120	0.000080	0.000125
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	2.830	2.790	2.730	2.700	2.660	2.690	2.600	2.590	2.580	2.591	2.622	2.620
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.3**	**11.2**	**10.9**	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**

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	2.770	2.739	2.786	2.740	3.221	2.820	2.889	2.958	3.044	3.031	3.067	3.062
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.1**	**11.0**	**11.1**	**11.0**	**12.9**	**11.3**	**11.6**	**11.8**	**12.2**	**12.1**	**12.3**	**12.2**

Licensee Comments: none

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	9.0	1.0	28.0	2.0	22.0	0	21.0	32.0
Total opportunities	9.0	2.0	30.0	2.0	22.0	0	24.0	34.0
Indicator value	**98.6%**	**98.3%**	**97.1%**	**96.7%**	**96.3%**	**96.3%**	**94.0%**	**93.5%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	159.0	98.0	102.0	102.0	101.0	97.0	72.0	79.0
Total Key personnel	159.0	99.0	104.0	104.0	103.0	100.0	73.0	80.0
Indicator value	**100.0%**	**99.0%**	**98.1%**	**98.1%**	**98.1%**	**97.0%**	**98.6%**	**98.8%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	314	244	280	244	312	245	279	243
Total sirens-tests	315	245	280	245	315	245	280	245
Indicator value	**99.8%**	**99.7%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.5%**	**99.4%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	21.23	52.70	13.18	32.48	14.45	2.75	9.70	3.43
CCTV compensatory hours	5.8	0	0	0.9	3.3	6.5	2.4	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.010**	**0.009**	**0.004**	**0.004**	**0.003**	**0.003**	**0.002**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: March 26, 2002

Brunswick 2

4Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	1.0	0	1.0	0	0	0
Critical hours	2184.0	2183.0	2066.6	2209.0	1428.9	2183.0	2208.0	2209.0
Indicator value	**1.8**	**0.8**	**0.8**	**0.8**	**1.8**	**1.8**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	1.0	0	0	0	1.0	1.0	0	0
Critical hours	2184.0	2183.0	2066.6	2209.0	1428.9	2183.0	2208.0	2209.0
Indicator value	**2.7**	**2.4**	**2.4**	**0.8**	**0.9**	**1.8**	**1.7**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	1.44	0.78	25.66	0.67	1.30	68.65	1.02
Unplanned unavailable hours	0	0	0	8.68	0	0	0	0
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	0	43.65	1.18	1.07	0.88	37.83	1.06	0.91
Unplanned unavailable hours	0	0	0	0	0	0	0	8.60
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	2147.57	2183.00	2208.00	2209.00
Indicator value	**1.6%**	**1.4%**	**0.6%**	**0.7%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	9.40	0.40	14.70	11.10	4.60	0.30	20.70	0.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2066.60	2209.00	1428.90	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	15.40	14.70	2.80	2.50	0	0.70	11.60	12.20
Unplanned unavailable hours	0	0	55.10	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2066.60	2209.00	1428.90	2183.00	2208.00	2209.00
Indicator value	**1.0%**	**1.0%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.1%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	12.70	0	0	10.50	0	0	16.40
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	20.30	17.60	0	0	5.60	14.50	11.60	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.9%**	**0.8%**	**0.7%**	**0.6%**	**0.7%**	**0.7%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.000277	0.000345	0.000348	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300	0.000270	0.000260	0.000200
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000280	0.000320	0.000170	0.000140	0.000120	0.000107	0.000120	0.000080	0.000125	0.000125	0.000124	0.000092
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**

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	2.700	2.660	2.690	2.600	2.590	2.580	2.591	2.622	2.620	2.770	2.739	2.786
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.8**	**10.6**	**10.8**	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**	**11.1**	**11.0**	**11.1**

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	2.740	3.221	2.820	2.889	2.958	3.044	3.031	3.067	3.062	2.892	2.884	2.897
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.0**	**12.9**	**11.3**	**11.6**	**11.8**	**12.2**	**12.1**	**12.3**	**12.2**	**11.6**	**11.5**	**11.6**

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	1.0	28.0	2.0	22.0	0	21.0	32.0	24.0
Total opportunities	2.0	30.0	2.0	22.0	0	24.0	34.0	24.0
Indicator value	**98.3%**	**97.1%**	**96.7%**	**96.3%**	**96.3%**	**94.0%**	**93.5%**	**94.2%**

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	98.0	102.0	102.0	101.0	97.0	72.0	79.0	80.0
Total Key personnel	99.0	104.0	104.0	103.0	100.0	73.0	80.0	80.0
Indicator value	**99.0%**	**98.1%**	**98.1%**	**98.1%**	**97.0%**	**98.6%**	**98.8%**	**100.0%**

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	244	280	244	312	245	279	243	320
Total sirens-tests	245	280	245	315	245	280	245	321
Indicator value	**99.7%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.5%**	**99.4%**	**99.6%**

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	1	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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	52.70	13.18	32.48	14.45	2.75	9.70	3.43	5.46
CCTV compensatory hours	0	0	0.9	3.3	6.5	2.4	0	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.009**	**0.004**	**0.004**	**0.003**	**0.003**	**0.002**	**0.001**

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

Brunswick 2

1Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	1.0	0	1.0	0	0	0	0
Critical hours	2183.0	2066.6	2209.0	1428.9	2183.0	2208.0	2209.0	2160.0
Indicator value	**0.8**	**0.8**	**0.8**	**1.8**	**1.8**	**0.9**	**0.9**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	2183.0	2066.6	2209.0	1428.9	2183.0	2208.0	2209.0	2160.0
Indicator value	**2.4**	**2.4**	**0.8**	**0.9**	**1.8**	**1.7**	**1.7**	**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	1.44	0.78	25.66	0.67	1.30	68.65	1.02	0.80
Unplanned unavailable hours	0	0	8.68	0	0	0	0	0
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	43.65	1.18	1.07	0.88	37.83	1.06	0.91	1.58
Unplanned unavailable hours	0	0	0	0	0	0	8.60	12.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2147.57	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.4%**	**0.6%**	**0.7%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.40	14.70	11.10	4.60	0.30	20.70	0.50	31.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2066.60	2209.00	1428.90	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	14.70	2.80	2.50	0	0.70	11.60	12.20	13.90
Unplanned unavailable hours	0	55.10	0	0	0	0	0	0
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	2066.60	2209.00	1428.90	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.0%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.1%**	**1.2%**	**1.1%**

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	12.70	0	0	10.50	0	0	16.40	18.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	17.60	0	0	5.60	14.50	11.60	0	47.90
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.8%**	**0.7%**	**0.6%**	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000277	0.000290	0.000296	0.000291	0.000310	0.000300	0.000270	0.000260	0.000200	0.000280	0.000320	0.000170
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000140	0.000120	0.000107	0.000120	0.000080	0.000125	0.000125	0.000124	0.000092	0.001210	0.000150	0.000200
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0.6**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	2.600	2.590	2.580	2.591	2.622	2.620	2.770	2.739	2.786	2.740	3.221	2.820
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.4**	**10.3**	**10.4**	**10.5**	**10.5**	**11.1**	**11.0**	**11.1**	**11.0**	**12.9**	**11.3**

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	2.889	2.958	3.044	3.031	3.067	3.062	2.892	2.884	2.897	2.917	2.930	3.070
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.6**	**11.8**	**12.2**	**12.1**	**12.3**	**12.2**	**11.6**	**11.5**	**11.6**	**11.7**	**11.7**	**12.3**

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	28.0	2.0	22.0	0	21.0	32.0	24.0	0
Total opportunities	30.0	2.0	22.0	0	24.0	34.0	24.0	0
Indicator value	**97.1%**	**96.7%**	**96.3%**	**96.3%**	**94.0%**	**93.5%**	**94.2%**	**94.9%**

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	102.0	102.0	101.0	97.0	72.0	79.0	80.0	80.0
Total Key personnel	104.0	104.0	103.0	100.0	73.0	80.0	80.0	80.0
Indicator value	**98.1%**	**98.1%**	**98.1%**	**97.0%**	**98.6%**	**98.8%**	**100.0%**	**100.0%**

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	280	244	312	245	279	243	320	252
Total sirens-tests	280	245	315	245	280	245	321	252
Indicator value	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.5%**	**99.4%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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	13.18	32.48	14.45	2.75	9.70	3.43	5.46	21.98
CCTV compensatory hours	0	0.9	3.3	6.5	2.4	0	0	3.0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.009**	**0.004**	**0.004**	**0.003**	**0.003**	**0.002**	**0.001**	**0.002**

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

Brunswick 2

2Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2066.6	2209.0	1428.9	2183.0	2208.0	2209.0	2160.0	2048.9
Indicator value	**0.8**	**0.8**	**1.8**	**1.8**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2066.6	2209.0	1428.9	2183.0	2208.0	2209.0	2160.0	2048.9
Indicator value	**2.4**	**0.8**	**0.9**	**1.8**	**1.7**	**1.7**	**0.8**	**0**

Licensee Comments: none

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	0.78	25.66	0.67	1.30	68.65	1.02	0.80	1.41
Unplanned unavailable hours	0	8.68	0	0	0	0	0	0
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	1.18	1.07	0.88	37.83	1.06	0.91	1.58	1.80
Unplanned unavailable hours	0	0	0	0	0	8.60	12.90	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2147.57	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.6%**	**0.7%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.7%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**
Train 1								
Planned unavailable hours	14.70	11.10	4.60	0.30	20.70	0.50	31.50	7.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2066.60	2209.00	1428.90	2183.00	2208.00	2209.00	2160.00	2048.87
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	2.80	2.50	0	0.70	11.60	12.20	13.90	8.70
Unplanned unavailable hours	55.10	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	2066.60	2209.00	1428.90	2183.00	2208.00	2209.00	2160.00	2048.87
Indicator value	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.1%**	**1.2%**	**1.1%**	**1.1%**

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	0	0	10.50	0	0	16.40	18.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	5.60	14.50	11.60	0	47.90	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.7%**	**0.6%**	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/00**	**8/00**	**9/00**	**10/00**	**11/00**	**12/00**	**1/01**	**2/01**	**3/01**	**4/01**	**5/01**	**6/01**
Maximum activity	0.000291	0.000310	0.000300	0.000270	0.000260	0.000200	0.000280	0.000320	0.000170	0.000140	0.000120	0.000107
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**
Maximum activity	0.000120	0.000080	0.000125	0.000125	0.000124	0.000092	0.001210	0.000150	0.000200	0.000127	0.000122	0.000121
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0.6**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	2.591	2.622	2.620	2.770	2.739	2.786	2.740	3.221	2.820	2.889	2.958	3.044
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.5**	**10.5**	**11.1**	**11.0**	**11.1**	**11.0**	**12.9**	**11.3**	**11.6**	**11.8**	**12.2**

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	3.031	3.067	3.062	2.892	2.884	2.897	2.917	2.930	3.070	3.311	5.128	4.708
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.1**	**12.3**	**12.2**	**11.6**	**11.5**	**11.6**	**11.7**	**11.7**	**12.3**	**13.2**	**20.5**	**18.8**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	2.0	22.0	0	21.0	32.0	24.0	0	0
Total opportunities	2.0	22.0	0	24.0	34.0	24.0	0	0
Indicator value	**96.7%**	**96.3%**	**96.3%**	**94.0%**	**93.5%**	**94.2%**	**94.9%**	**95.3%**

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	102.0	101.0	97.0	72.0	79.0	80.0	80.0	76.0
Total Key personnel	104.0	103.0	100.0	73.0	80.0	80.0	80.0	78.0
Indicator value	**98.1%**	**98.1%**	**97.0%**	**98.6%**	**98.8%**	**100.0%**	**100.0%**	**97.4%**

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	244	312	245	279	243	320	252	287
Total sirens-tests	245	315	245	280	245	321	252	288
Indicator value	**99.7%**	**99.5%**	**99.6%**	**99.5%**	**99.4%**	**99.6%**	**99.6%**	**99.6%**

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

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	32.48	14.45	2.75	9.70	3.43	5.46	21.98	7.62
CCTV compensatory hours	0.9	3.3	6.5	2.4	0	0	3.0	5.5
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.004**	**0.004**	**0.003**	**0.003**	**0.002**	**0.001**	**0.002**	**0.002**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability

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

Brunswick 2

3Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1428.9	2183.0	2208.0	2209.0	2160.0	2048.9	2208.0
Indicator value	**0.8**	**1.8**	**1.8**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	2209.0	1428.9	2183.0	2208.0	2209.0	2160.0	2048.9	2208.0
Indicator value	**0.8**	**0.9**	**1.8**	**1.7**	**1.7**	**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	25.66	0.67	1.30	0.98	1.02	0.80	1.41	1.38
Unplanned unavailable hours	8.68	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	1.07	0.88	0.90	1.06	0.91	1.58	1.80	0.54
Unplanned unavailable hours	0	0	0	0	8.60	12.90	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2147.57	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.7%**	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**

Licensee Comments:

3Q/01: Train 1 August 2001: 67.67 planned overhaul maintenance hours excluded.

2Q/01: Train 2 June 2001: 36.93 planned overhaul maintenance hours excluded.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
Train 1								
Planned unavailable hours	11.10	4.60	0.30	20.70	0.50	31.50	7.50	0.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1428.90	2183.00	2208.00	2209.00	2160.00	2048.87	2208.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	2.50	0	0.70	11.60	12.20	13.90	8.70	1.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1428.90	2183.00	2208.00	2209.00	2160.00	2048.87	2208.00
Indicator value	**1.1%**	**1.2%**	**1.2%**	**1.1%**	**1.2%**	**1.1%**	**1.1%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	10.50	0	0	16.40	18.00	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	5.60	14.50	11.60	0	47.90	0	0.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.6%**	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.4%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

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	0.000270	0.000260	0.000200	0.000280	0.000320	0.000170	0.000140	0.000120	0.000107	0.000120	0.000080	0.000125
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000125	0.000124	0.000092	0.001210	0.000150	0.000200	0.000127	0.000122	0.000121	0.000123	0.000102	0.000073
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**0.6**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	2.770	2.739	2.786	2.740	3.221	2.820	2.889	2.958	3.044	3.031	3.067	3.062
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.1**	**11.0**	**11.1**	**11.0**	**12.9**	**11.3**	**11.6**	**11.8**	**12.2**	**12.1**	**12.3**	**12.2**

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	2.892	2.884	2.897	2.917	2.930	3.070	3.311	5.128	4.708	7.475	3.400	3.363
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.6**	**11.5**	**11.6**	**11.7**	**11.7**	**12.3**	**13.2**	**20.5**	**18.8**	**29.9**	**13.6**	**13.5**

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	22.0	0	21.0	32.0	24.0	0	0	46.0
Total opportunities	22.0	0	24.0	34.0	24.0	0	0	48.0
Indicator value	**96.3%**	**96.3%**	**94.0%**	**93.5%**	**94.2%**	**94.9%**	**95.3%**	**95.4%**

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	101.0	97.0	72.0	79.0	80.0	80.0	75.0	248.0
Total Key personnel	103.0	100.0	73.0	80.0	80.0	80.0	78.0	250.0
Indicator value	**98.1%**	**97.0%**	**98.6%**	**98.8%**	**100.0%**	**100.0%**	**96.2%**	**99.2%**

Licensee Comments:

2Q/02: Revised from 76 to 75 ERO members based on review of records.

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	312	245	279	243	320	252	287	252
Total sirens-tests	315	245	280	245	321	252	288	252
Indicator value	**99.5%**	**99.6%**	**99.5%**	**99.4%**	**99.6%**	**99.6%**	**99.6%**	**99.8%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	14.45	2.75	9.70	3.43	5.46	21.98	7.62	6.00
CCTV compensatory hours	3.3	6.5	2.4	0	0	3.0	5.5	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.004**	**0.003**	**0.003**	**0.002**	**0.001**	**0.002**	**0.002**	**0.002**

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

Brunswick 2

4Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1428.9	2183.0	2208.0	2209.0	2160.0	2048.9	2208.0	2209.0
Indicator value	**1.8**	**1.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

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	1.0
Critical hours	1428.9	2183.0	2208.0	2209.0	2160.0	2048.9	2208.0	2209.0
Indicator value	**0.9**	**1.8**	**1.7**	**1.7**	**0.8**	**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	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0.67	1.30	0.98	1.02	0.80	1.41	1.38	0.65
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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.88	0.90	1.06	0.91	1.58	1.80	0.54	62.05
Unplanned unavailable hours	0	0	0	8.60	12.90	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2147.57	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	4.60	0.30	20.70	0.50	31.50	7.50	0.20	21.80
Unplanned unavailable hours	0	0	0	0	0	0	0	13.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1428.90	2183.00	2208.00	2209.00	2160.00	2048.87	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0	0.70	11.60	12.20	13.90	8.70	1.60	22.40
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	1428.90	2183.00	2208.00	2209.00	2160.00	2048.87	2208.00	2209.00
Indicator value	**1.2%**	**1.2%**	**1.1%**	**1.2%**	**1.1%**	**1.1%**	**0.9%**	**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/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	10.50	0	0	16.40	18.00	0	0	16.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	5.60	14.50	11.60	0	47.90	0	0.50	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**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	0.000280	0.000320	0.000170	0.000140	0.000120	0.000107	0.000120	0.000080	0.000125	0.000125	0.000124	0.000092
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**

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	0.001210	0.000150	0.000200	0.000127	0.000122	0.000121	0.000123	0.000102	0.000073	0.000062	0.000050	0.000122
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.6**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	2.740	3.221	2.820	2.889	2.958	3.044	3.031	3.067	3.062	2.892	2.884	2.897
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.0**	**12.9**	**11.3**	**11.6**	**11.8**	**12.2**	**12.1**	**12.3**	**12.2**	**11.6**	**11.5**	**11.6**

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	2.917	2.930	3.070	3.311	5.128	4.708	7.475	3.400	3.363	3.368	4.262	3.346
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.7**	**11.7**	**12.3**	**13.2**	**20.5**	**18.8**	**29.9**	**13.6**	**13.5**	**13.5**	**17.0**	**13.4**

Licensee Comments: none

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	0	21.0	32.0	24.0	0	0	46.0	21.0
Total opportunities	0	24.0	34.0	24.0	0	0	48.0	22.0
Indicator value	**96.3%**	**94.0%**	**93.5%**	**94.2%**	**94.9%**	**95.3%**	**95.4%**	**94.7%**

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	97.0	72.0	79.0	80.0	80.0	75.0	83.0	81.0
Total Key personnel	100.0	73.0	80.0	80.0	80.0	78.0	83.0	83.0
Indicator value	**97.0%**	**98.6%**	**98.8%**	**100.0%**	**100.0%**	**96.2%**	**100.0%**	**97.6%**

Licensee Comments:

3Q/02: Data reported in Q3 erroneously summed values for all 3 months. Corrected to reflect values as of the end of the quarter.

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	245	279	243	320	252	287	252	319
Total sirens-tests	245	280	245	321	252	288	252	324
Indicator value	**99.6%**	**99.5%**	**99.4%**	**99.6%**	**99.6%**	**99.6%**	**99.8%**	**99.5%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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	2.75	9.70	3.43	5.46	21.98	7.62	6.00	23.90
CCTV compensatory hours	6.5	2.4	0	0	3.0	5.5	0	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.003**	**0.002**	**0.001**	**0.002**	**0.002**	**0.002**	**0.002**

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

Brunswick 2

1Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	2048.9	2208.0	2209.0	1583.9
Indicator value	**1.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	1.0	0	0	0	0	0	1.0	1.0
Critical hours	2183.0	2208.0	2209.0	2160.0	2048.9	2208.0	2209.0	1583.9
Indicator value	**1.8**	**1.7**	**1.7**	**0.8**	**0**	**0**	**0.8**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	1.30	0.98	1.02	0.80	1.41	1.38	0.65	50.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0.90	1.06	0.91	1.58	1.80	0.54	62.05	4.23
Unplanned unavailable hours	0	0	8.60	12.90	0	0	0	0
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	**0.5%**	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.3%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
Train 1								
Planned unavailable hours	0.30	20.70	0.50	31.50	7.50	0.20	21.80	0.40
Unplanned unavailable hours	0	0	0	0	0	0	13.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2048.87	2208.00	2209.00	1583.90
Indicator value	**0.5%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.70	11.60	12.20	13.90	8.70	1.60	22.40	13.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2048.87	2208.00	2209.00	1583.90
Indicator value	**1.2%**	**1.1%**	**1.2%**	**1.1%**	**1.1%**	**0.9%**	**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/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	16.40	18.00	0	0	16.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	14.50	11.60	0	47.90	0	0.50	0	16.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Safety System Functional Failures	0	0	0	0	0	0	1	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**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	0.000140	0.000120	0.000107	0.000120	0.000080	0.000125	0.000125	0.000124	0.000092	0.001210	0.000150	0.000200
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0.6**	**0.1**	**0.1**

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000127	0.000122	0.000121	0.000123	0.000102	0.000073	0.000062	0.000050	0.000122	0.000130	0.000145	0.000138
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

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	2.889	2.958	3.044	3.031	3.067	3.062	2.892	2.884	2.897	2.917	2.930	3.070
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.6**	**11.8**	**12.2**	**12.1**	**12.3**	**12.2**	**11.6**	**11.5**	**11.6**	**11.7**	**11.7**	**12.3**

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	3.311	5.128	4.708	7.475	3.400	3.363	3.368	4.262	3.346	3.311	3.669	3.235
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.2**	**20.5**	**18.8**	**29.9**	**13.6**	**13.5**	**13.5**	**17.0**	**13.4**	**13.2**	**14.7**	**12.9**

Licensee Comments: none

Drill/Exercise Performance

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	21.0	32.0	24.0	0	0	46.0	21.0	8.0
Total opportunities	24.0	34.0	24.0	0	0	48.0	22.0	8.0
Indicator value	**94.0%**	**93.5%**	**94.2%**	**94.9%**	**95.3%**	**95.4%**	**94.7%**	**95.0%**

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	72.0	79.0	80.0	80.0	75.0	83.0	81.0	81.0
Total Key personnel	73.0	80.0	80.0	80.0	78.0	83.0	83.0	82.0
Indicator value	**98.6%**	**98.8%**	**100.0%**	**100.0%**	**96.2%**	**100.0%**	**97.6%**	**98.8%**

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	279	243	320	252	287	252	319	252
Total sirens-tests	280	245	321	252	288	252	324	252
Indicator value	**99.5%**	**99.4%**	**99.6%**	**99.6%**	**99.6%**	**99.8%**	**99.5%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
High radiation area occurrences	0	0	0	1	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	9.70	3.43	5.46	21.98	7.62	6.00	23.90	29.06
CCTV compensatory hours	2.4	0	0	3.0	5.5	0	0	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.002**	**0.001**	**0.002**	**0.002**	**0.002**	**0.002**	**0.003**

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

FFD/Personnel Reliability

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

Brunswick 2

2Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2160.0	2048.9	2208.0	2209.0	1583.9	2128.7
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	0	0	0	0	1.0	1.0	1.0
Critical hours	2208.0	2209.0	2160.0	2048.9	2208.0	2209.0	1583.9	2128.7
Indicator value	**1.7**	**1.7**	**0.8**	**0**	**0**	**0.8**	**1.7**	**2.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.98	1.02	0.80	1.41	1.38	0.65	50.28	6.26
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	1.06	0.91	1.58	1.80	0.54	62.05	4.23	1.38
Unplanned unavailable hours	0	8.60	12.90	0	0	0	0	8.72
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%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	20.70	0.50	31.50	7.50	0.20	21.80	0.40	18.30
Unplanned unavailable hours	0	0	0	0	0	13.00	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2048.87	2208.00	2209.00	1583.90	2128.70
Indicator value	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	11.60	12.20	13.90	8.70	1.60	22.40	13.60	0.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2048.87	2208.00	2209.00	1583.90	2128.70
Indicator value	**1.1%**	**1.2%**	**1.1%**	**1.1%**	**0.9%**	**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	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	16.40	18.00	0	0	16.00	0	11.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	11.60	0	47.90	0	0.50	0	16.70	142.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

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	0.000120	0.000080	0.000125	0.000125	0.000124	0.000092	0.001210	0.000150	0.000200	0.000127	0.000122	0.000121
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0.6**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**
Maximum activity	0.000123	0.000102	0.000073	0.000062	0.000050	0.000122	0.000130	0.000145	0.000138	0.000034	0.000033	0.000653
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**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	3.031	3.067	3.062	2.892	2.884	2.897	2.917	2.930	3.070	3.311	5.128	4.708
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.1**	**12.3**	**12.2**	**11.6**	**11.5**	**11.6**	**11.7**	**11.7**	**12.3**	**13.2**	**20.5**	**18.8**

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	7.475	3.400	3.363	3.368	4.262	3.346	3.311	3.669	3.235	2.500	2.400	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**29.9**	**13.6**	**13.5**	**13.5**	**17.0**	**13.4**	**13.2**	**14.7**	**12.9**	**10.0**	**9.6**	**9.6**

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	32.0	24.0	0	0	46.0	21.0	8.0	51.0
Total opportunities	34.0	24.0	0	0	48.0	22.0	8.0	52.0
Indicator value	**93.5%**	**94.2%**	**94.9%**	**95.3%**	**95.4%**	**94.7%**	**95.0%**	**96.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	79.0	80.0	80.0	75.0	83.0	81.0	81.0	82.0
Total Key personnel	80.0	80.0	80.0	78.0	83.0	83.0	82.0	82.0
Indicator value	**98.8%**	**100.0%**	**100.0%**	**96.2%**	**100.0%**	**97.6%**	**98.8%**	**100.0%**

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	243	320	252	287	252	319	252	286
Total sirens-tests	245	321	252	288	252	324	252	288
Indicator value	**99.4%**	**99.6%**	**99.6%**	**99.6%**	**99.8%**	**99.5%**	**99.5%**	**99.4%**

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	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	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	3.43	5.46	21.98	7.62	6.00	23.90	29.06	2.76
CCTV compensatory hours	0	0	3.0	5.5	0	0	0	3.7
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.002**	**0.001**	**0.002**	**0.002**	**0.002**	**0.002**	**0.003**	**0.002**

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

Brunswick 2

3Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2209.0	2160.0	2048.9	2208.0	2209.0	1583.9	2128.7	2208.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	0	0	1.0	1.0	1.0	1.0
Critical hours	2209.0	2160.0	2048.9	2208.0	2209.0	1583.9	2128.7	2208.0
Indicator value	**1.7**	**0.8**	**0**	**0**	**0.8**	**1.7**	**2.6**	**3.4**

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	1.02	0.80	1.41	1.38	0.65	50.28	6.26	13.75
Unplanned unavailable hours	0	0	0	0	0	0	0	13.97
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	0.91	1.58	1.80	0.54	62.05	4.23	1.38	0.84
Unplanned unavailable hours	8.60	12.90	0	0	0	0	8.72	12.84
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%**	**0.3%**	**0.4%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Train 1								
Planned unavailable hours	0.50	31.50	7.50	0.20	21.80	0.40	18.30	0.30
Unplanned unavailable hours	0	0	0	0	13.00	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2048.87	2208.00	2209.00	1583.90	2128.70	2208.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	12.20	13.90	8.70	1.60	22.40	13.60	0.30	17.70
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	2048.87	2208.00	2209.00	1583.90	2128.70	2208.00
Indicator value	**1.2%**	**1.1%**	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.6%**	**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/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	16.40	18.00	0	0	16.00	0	11.60	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	47.90	0	0.50	0	16.70	142.20	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

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	0.000125	0.000124	0.000092	0.001210	0.000150	0.000200	0.000127	0.000122	0.000121	0.000123	0.000102	0.000073
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**0.6**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**

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	0.000062	0.000050	0.000122	0.000130	0.000145	0.000138	0.000034	0.000033	0.000653	0.000059	0.000034	0.000028
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0**	**0**

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	2.892	2.884	2.897	2.917	2.930	3.070	3.311	5.128	4.708	7.475	3.400	3.363
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.6**	**11.5**	**11.6**	**11.7**	**11.7**	**12.3**	**13.2**	**20.5**	**18.8**	**29.9**	**13.6**	**13.5**

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	3.368	4.262	3.346	3.311	3.669	3.235	2.500	2.400	2.400	2.500	2.500	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.5**	**17.0**	**13.4**	**13.2**	**14.7**	**12.9**	**10.0**	**9.6**	**9.6**	**10.0**	**10.0**	**10.0**

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	24.0	0	0	46.0	21.0	8.0	51.0	36.0
Total opportunities	24.0	0	0	48.0	22.0	8.0	52.0	37.0
Indicator value	**94.2%**	**94.9%**	**95.3%**	**95.4%**	**94.7%**	**95.0%**	**96.8%**	**97.4%**

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	80.0	80.0	75.0	83.0	81.0	81.0	82.0	93.0
Total Key personnel	80.0	80.0	78.0	83.0	83.0	82.0	82.0	93.0
Indicator value	**100.0%**	**100.0%**	**96.2%**	**100.0%**	**97.6%**	**98.8%**	**100.0%**	**100.0%**

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	320	252	287	252	319	252	286	252
Total sirens-tests	321	252	288	252	324	252	288	252
Indicator value	**99.6%**	**99.6%**	**99.6%**	**99.8%**	**99.5%**	**99.5%**	**99.4%**	**99.4%**

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	1	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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	5.46	21.98	7.62	6.00	23.90	29.06	2.76	0
CCTV compensatory hours	0	3.0	5.5	0	0	0	3.7	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.002**	**0.002**	**0.002**	**0.002**	**0.003**	**0.002**	**0.002**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2003

Brunswick 2

4Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	0	0	0	1.0	0	1.0
Critical hours	2160.0	2048.9	2208.0	2209.0	1583.9	2128.7	2208.0	2135.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**1.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Scrams	0	0	0	0	0	0	0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	0	0	1.0	1.0	1.0	1.0	1.0
Critical hours	2160.0	2048.9	2208.0	2209.0	1583.9	2128.7	2208.0	2135.8
Indicator value	**0.8**	**0**	**0**	**0.8**	**1.7**	**2.6**	**3.4**	**3.5**

Licensee Comments: none

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	0.80	1.41	1.38	0.65	50.28	6.26	13.75	13.50
Unplanned unavailable hours	0	0	0	0	0	0	13.97	4.75
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	1.58	1.80	0.54	62.05	4.23	1.38	0.84	7.23
Unplanned unavailable hours	12.90	0	0	0	0	8.72	12.84	0
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	**0.5%**	**0.4%**	**0.4%**	**0.3%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**

Licensee Comments:

4Q/03: An evaluation of past operability of DG 3 is pending.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Train 1								
Planned unavailable hours	31.50	7.50	0.20	21.80	0.40	18.30	0.30	95.40
Unplanned unavailable hours	0	0	0	13.00	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2048.87	2208.00	2209.00	1583.90	2128.70	2208.00	2135.80
Indicator value	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	13.90	8.70	1.60	22.40	13.60	0.30	17.70	13.10
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	2048.87	2208.00	2209.00	1583.90	2128.70	2208.00	2135.80
Indicator value	**1.1%**	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.6%**	**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/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	18.00	0	0	16.00	0	11.60	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	47.90	0	0.50	0	16.70	142.20	0	19.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.6%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

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	0.001210	0.000150	0.000200	0.000127	0.000122	0.000121	0.000123	0.000102	0.000073	0.000062	0.000050	0.000122
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.6**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.000130	0.000145	0.000138	0.000034	0.000033	0.000653	0.000059	0.000034	0.000028	0.000043	0.000046	0.000057
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**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	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	2.917	2.930	3.070	3.311	5.128	4.708	7.475	3.400	3.363	3.368	4.262	3.346
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.7**	**11.7**	**12.3**	**13.2**	**20.5**	**18.8**	**29.9**	**13.6**	**13.5**	**13.5**	**17.0**	**13.4**

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	3.311	3.669	3.235	2.500	2.400	2.400	2.500	2.500	2.500	2.600	2.900	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.2**	**14.7**	**12.9**	**10.0**	**9.6**	**9.6**	**10.0**	**10.0**	**10.0**	**10.4**	**11.6**	**10.4**

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	0	0	46.0	21.0	8.0	51.0	36.0	10.0
Total opportunities	0	0	48.0	22.0	8.0	52.0	37.0	10.0
Indicator value	**94.9%**	**95.3%**	**95.4%**	**94.7%**	**95.0%**	**96.8%**	**97.4%**	**97.2%**

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	80.0	75.0	83.0	81.0	81.0	82.0	93.0	88.0
Total Key personnel	80.0	78.0	83.0	83.0	82.0	82.0	93.0	88.0
Indicator value	**100.0%**	**96.2%**	**100.0%**	**97.6%**	**98.8%**	**100.0%**	**100.0%**	**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	252	287	252	319	252	286	252	317
Total sirens-tests	252	288	252	324	252	288	252	324
Indicator value	**99.6%**	**99.6%**	**99.8%**	**99.5%**	**99.5%**	**99.4%**	**99.4%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
High radiation area occurrences	1	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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	21.98	7.62	6.00	23.90	29.06	2.76	0	3.16
CCTV compensatory hours	3.0	5.5	0	0	0	3.7	0	0
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.002**	**0.002**	**0.002**	**0.002**	**0.003**	**0.002**	**0.002**	**0.001**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 23, 2004

Brunswick 2

1Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	0	0	0	1.0	0	1.0	0
Critical hours	2048.9	2208.0	2209.0	1583.9	2128.7	2208.0	2135.8	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**1.7**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	0	0	1.0	1.0	1.0	1.0	1.0	2.0
Critical hours	2048.9	2208.0	2209.0	1583.9	2128.7	2208.0	2135.8	2184.0
Indicator value	**0**	**0**	**0.8**	**1.7**	**2.6**	**3.4**	**3.5**	**4.0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	1.41	1.38	0.65	50.28	6.26	13.75	13.50	29.17
Unplanned unavailable hours	0	0	0	0	0	13.97	4.75	18.35
Fault exposure hours	0	0	0	0	0	0	559.25	93.35
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	2184.00
Train 2								
Planned unavailable hours	1.80	0.54	62.05	4.23	1.38	0.84	7.23	1.19
Unplanned unavailable hours	0	0	0	0	8.72	12.84	0	0
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	2184.00
Indicator value	**0.4%**	**0.4%**	**0.3%**	**0.4%**	**0.4%**	**0.5%**	**1.5%**	**1.8%**

Licensee Comments:

1Q/04: Fault exposure hours for DG3 have been included in December 2003 (559.25 hours) and January 2004 (93.35) based on results of an engineering evaluation that was not complete at the time that fourth quarter 2003 PI data was submitted. The December indicator value changed from 0.6% to 1.5% unavailability. Also, an FAQ is being submitted to exclude most of these fault exposure hours based on the interpretation of recoverability within existing NEI guidance.

4Q/03: Fault exposure hours for DG3 have been included in December (559.25 hours) based on results of an engineering evaluation that was not complete at the time of the fourth quarter 2003 PI data submittal. The December indicator value remained green.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	7.50	0.20	21.80	0.40	18.30	0.30	95.40	5.90
Unplanned unavailable hours	0	0	13.00	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2048.87	2208.00	2209.00	1583.90	2128.70	2208.00	2135.80	2184.00
Indicator value	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	8.70	1.60	22.40	13.60	0.30	17.70	13.10	0.40
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	2048.87	2208.00	2209.00	1583.90	2128.70	2208.00	2135.80	2184.00
Indicator value	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.6%**	**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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	16.00	0	11.60	0	0	69.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0	0.50	0	16.70	142.20	0	19.50	2.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000127	0.000122	0.000121	0.000123	0.000102	0.000073	0.000062	0.000050	0.000122	0.000130	0.000145	0.000138
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum activity	0.000034	0.000033	0.000653	0.000059	0.000034	0.000028	0.000043	0.000046	0.000057	0.000081	0.000053	0.000104
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	3.311	5.128	4.708	7.475	3.400	3.363	3.368	4.262	3.346	3.311	3.669	3.235
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.2**	**20.5**	**18.8**	**29.9**	**13.6**	**13.5**	**13.5**	**17.0**	**13.4**	**13.2**	**14.7**	**12.9**

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	2.500	2.400	2.400	2.500	2.500	2.500	2.600	2.900	2.600	2.600	2.700	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.0**	**9.6**	**9.6**	**10.0**	**10.0**	**10.0**	**10.4**	**11.6**	**10.4**	**10.4**	**10.8**	**12.0**

Licensee Comments: none

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	0	46.0	21.0	8.0	51.0	36.0	10.0	0
Total opportunities	0	48.0	22.0	8.0	52.0	37.0	10.0	0
Indicator value	**95.3%**	**95.4%**	**94.7%**	**95.0%**	**96.8%**	**97.4%**	**97.2%**	**97.2%**

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	75.0	83.0	81.0	81.0	82.0	93.0	88.0	83.0
Total Key personnel	78.0	83.0	83.0	82.0	82.0	93.0	88.0	84.0
Indicator value	**96.2%**	**100.0%**	**97.6%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**98.8%**

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	287	252	319	252	286	252	317	285
Total sirens-tests	288	252	324	252	288	252	324	288
Indicator value	**99.6%**	**99.8%**	**99.5%**	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.0%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
IDS compensatory hours	7.62	6.00	23.90	29.06	2.76	0	3.16	15.20
CCTV compensatory hours	5.5	0	0	0	3.7	0	0	78.7
IDS normalization factor	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.002**	**0.002**	**0.002**	**0.003**	**0.002**	**0.002**	**0.001**	**0.005**

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

Brunswick 2

2Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	0	1.0	0	1.0	0	0
Critical hours	2208.0	2209.0	1583.9	2128.7	2208.0	2135.8	2184.0	2134.2
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**1.7**	**1.6**	**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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
Critical hours	2208.0	2209.0	1583.9	2128.7	2208.0	2135.8	2184.0	2134.2
Indicator value	**0**	**0.8**	**1.7**	**2.6**	**3.4**	**3.5**	**4.0**	**4.0**

Licensee Comments:

2Q/04: An FAQ will be submitted to document an anticipated power reduction caused by expected extermal factors. This event is not being counted in the current report based on NEI 99-02 guidance.

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	1.38	0.65	50.28	6.26	13.75	13.50	29.17	1.04
Unplanned unavailable hours	0	0	0	0	13.97	4.75	18.35	0
Fault exposure hours	0	0	0	0	0	559.25	93.35	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	2184.00	2183.00
Train 2								
Planned unavailable hours	0.54	62.05	4.23	1.38	0.84	7.23	1.19	19.15
Unplanned unavailable hours	0	0	0	8.72	12.84	0	0	0
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	2184.00	2183.00
Indicator value	**0.4%**	**0.3%**	**0.4%**	**0.4%**	**0.5%**	**1.5%**	**1.8%**	**1.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.20	21.80	0.40	18.30	0.30	95.40	5.90	17.30
Unplanned unavailable hours	0	13.00	0	0	0	0	0	32.90
Fault exposure hours	0	0	1.10	0	0	0	1.83	32.67
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1583.90	2128.70	2208.00	2135.80	2184.00	2134.20
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.9%**	**0.9%**	**1.2%**

Licensee Comments:

2Q/04: Added fault exposure hours to Train 1 HPCI Unit 2 as follows: 2.5 in May 2002, 1.1 in February 2003, and 1.8 in January 2004 to account for a newly identified faulted condition based on a recent engineering evaluation. Results are still within the green band.

1Q/04: Added fault exposure hours to Train 1 HPCI Unit 2 as follows: 2.5 in May 2002, 1.1 in February 2003, and 1.8 in January 2004 to account for a newly identified faulted condition based on a recent engineering evaluation. Results are still within the green band.

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	1.60	22.40	13.60	0.30	17.70	13.10	0.40	6.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1583.90	2128.70	2208.00	2135.80	2184.00	2134.20
Indicator value	**0.9%**	**0.6%**	**0.6%**	**0.6%**	**0.4%**	**0.5%**	**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	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	16.00	0	11.60	0	0	69.80	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	0.50	0	16.70	142.20	0	19.50	2.80	19.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000123	0.000102	0.000073	0.000062	0.000050	0.000122	0.000130	0.000145	0.000138	0.000034	0.000033	0.000653
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**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	0.000059	0.000034	0.000028	0.000043	0.000046	0.000057	0.000081	0.000053	0.000104	0.000080	0.000079	0.000073
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	7.475	3.400	3.363	3.368	4.262	3.346	3.311	3.669	3.235	2.500	2.400	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**29.9**	**13.6**	**13.5**	**13.5**	**17.0**	**13.4**	**13.2**	**14.7**	**12.9**	**10.0**	**9.6**	**9.6**
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	2.500	2.500	2.500	2.600	2.900	2.600	2.600	2.700	3.000	3.100	3.200	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.0**	**10.0**	**10.0**	**10.4**	**11.6**	**10.4**	**10.4**	**10.8**	**12.0**	**12.4**	**12.8**	**10.0**

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	46.0	21.0	8.0	51.0	36.0	10.0	0	0
Total opportunities	48.0	22.0	8.0	52.0	37.0	10.0	0	0
Indicator value	**95.4%**	**94.7%**	**95.0%**	**96.8%**	**97.4%**	**97.2%**	**97.2%**	**97.2%**

Licensee Comments: none

ERO Drill Participation

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	83.0	81.0	81.0	82.0	93.0	88.0	83.0	86.0
Total Key personnel	83.0	83.0	82.0	82.0	93.0	88.0	84.0	87.0
Indicator value	**100.0%**	**97.6%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**98.8%**	**98.9%**

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	252	319	252	286	252	317	285	356
Total sirens-tests	252	324	252	288	252	324	288	360
Indicator value	**99.8%**	**99.5%**	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.0%**	**98.9%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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.

Brunswick 2

3Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	0	1.0	0	1.0	0	0	0
Critical hours	2209.0	1583.9	2128.7	2208.0	2135.8	2184.0	2134.2	2139.8
Indicator value	**0**	**0**	**0.9**	**0.9**	**1.7**	**1.6**	**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/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
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

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	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0
Critical hours	2209.0	1583.9	2128.7	2208.0	2135.8	2184.0	2134.2	2139.8
Indicator value	**0.8**	**1.7**	**2.6**	**3.4**	**3.5**	**4.0**	**4.0**	**4.1**

Licensee Comments:

3Q/04: Unit 2 has two Unplanned Power Change Occurrences (6/24/04 and 8/31/04) involving unexpected conditions in the intake canal. Per NEI 99-02, both events are not being included in the indicator value because they are being reviewed for exclusion via the FAQ process. In the case that both events are not excluded through the FAQ process, the indicator value would still be within the green band.

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	0.65	50.28	6.26	13.75	13.50	29.17	1.04	0.85
Unplanned unavailable hours	0	0	0	13.97	4.75	18.35	0	0.10
Fault exposure hours	0	0	0	0	559.25	93.35	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	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	62.05	4.23	1.38	0.84	7.23	1.19	19.15	2.54
Unplanned unavailable hours	0	0	8.72	12.84	0	0	0	3.65
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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.5%**	**1.5%**	**1.8%**	**1.8%**	**1.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	21.80	0.40	18.30	0.30	95.40	5.90	17.30	7.00
Unplanned unavailable hours	13.00	0	0	0	0	0	32.90	0
Fault exposure hours	0	1.10	0	0	0	1.83	32.67	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1583.90	2128.70	2208.00	2135.80	2184.00	2134.20	2139.85
Indicator value	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.9%**	**0.9%**	**1.2%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	22.40	13.60	0.30	17.70	13.10	0.40	6.50	10.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1583.90	2128.70	2208.00	2135.80	2184.00	2134.20	2139.85
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**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	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	16.00	0	11.60	0	0	69.80	0	9.50
Unplanned unavailable hours	0	0	0	0	0	0	0	4.70
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	16.70	142.20	0	19.50	2.80	19.40	1.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000062	0.000050	0.000122	0.000130	0.000145	0.000138	0.000034	0.000033	0.000653	0.000059	0.000034	0.000028
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0**	**0**

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	0.000043	0.000046	0.000057	0.000081	0.000053	0.000104	0.000080	0.000079	0.000073	0.000058	0.000066	0.000075
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	3.368	4.262	3.346	3.311	3.669	3.235	2.500	2.400	2.400	2.500	2.500	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.5**	**17.0**	**13.4**	**13.2**	**14.7**	**12.9**	**10.0**	**9.6**	**9.6**	**10.0**	**10.0**	**10.0**

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	2.600	2.900	2.600	2.600	2.700	3.000	3.100	3.200	2.500	2.400	2.600	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**11.6**	**10.4**	**10.4**	**10.8**	**12.0**	**12.4**	**12.8**	**10.0**	**9.6**	**10.4**	**10.4**

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	21.0	8.0	51.0	36.0	10.0	0	0	55.0
Total opportunities	22.0	8.0	52.0	37.0	10.0	0	0	57.0
Indicator value	**94.7%**	**95.0%**	**96.8%**	**97.4%**	**97.2%**	**97.2%**	**97.2%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	81.0	81.0	82.0	93.0	88.0	83.0	86.0	93.0
Total Key personnel	83.0	82.0	82.0	93.0	88.0	84.0	87.0	93.0
Indicator value	**97.6%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**98.8%**	**98.9%**	**100.0%**

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	319	252	286	252	317	285	356	499
Total sirens-tests	324	252	288	252	324	288	360	504
Indicator value	**99.5%**	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.0%**	**98.9%**	**98.7%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

4Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	0	1.0	0	1.0	0	0	0	0
Critical hours	1583.9	2128.7	2208.0	2135.8	2184.0	2134.2	2139.8	2209.0
Indicator value	**0**	**0.9**	**0.9**	**1.7**	**1.6**	**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/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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

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	1.0	1.0	1.0	2.0	1.0	1.0	0
Critical hours	1583.9	2128.7	2208.0	2135.8	2184.0	2134.2	2139.8	2209.0
Indicator value	**1.7**	**2.6**	**3.4**	**3.5**	**4.0**	**4.0**	**4.1**	**3.2**

Licensee Comments:

4Q/04: Unit 2 has two Unplanned Power Change Occurrences (6/24/04 and 8/31/04) involving unexpected conditions in the intake canal. Per NEI 99-02, both events are not being included in the indicator value because they are being reviewed for exclusion via the FAQ process. In the case where both events are not excluded through the FAQ process, the indicator value would still be within the green band.

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	50.28	6.26	13.75	13.50	29.17	1.04	0.85	2.56
Unplanned unavailable hours	0	0	13.97	4.75	18.35	0	0.10	9.83
Fault exposure hours	0	0	0	559.25	93.35	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	4.23	1.38	0.84	7.23	1.19	19.15	2.54	6.25
Unplanned unavailable hours	0	8.72	12.84	0	0	0	3.65	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.4%**	**0.4%**	**0.5%**	**1.5%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0.40	18.30	0.30	95.40	5.90	17.30	7.00	28.00
Unplanned unavailable hours	0	0	0	0	0	32.90	0	0
Fault exposure hours	1.10	0	0	0	1.83	32.67	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1583.90	2128.70	2208.00	2135.80	2184.00	2134.20	2139.85	2209.00
Indicator value	**0.5%**	**0.6%**	**0.5%**	**0.9%**	**0.9%**	**1.2%**	**1.1%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	13.60	0.30	17.70	13.10	0.40	6.50	10.60	0.90
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1583.90	2128.70	2208.00	2135.80	2184.00	2134.20	2139.85	2209.00
Indicator value	**0.6%**	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**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	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	11.60	0	0	69.80	0	9.50	18.80
Unplanned unavailable hours	0	0	0	0	0	0	4.70	0
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	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	16.70	142.20	0	19.50	2.80	19.40	1.20	12.70
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	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000130	0.000145	0.000138	0.000034	0.000033	0.000653	0.000059	0.000034	0.000028	0.000043	0.000046	0.000057
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**
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	0.000081	0.000053	0.000104	0.000080	0.000079	0.000073	0.000058	0.000066	0.000075	0.000082	0.000123	0.000125
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	3.311	3.669	3.235	2.500	2.400	2.400	2.500	2.500	2.500	2.600	2.900	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.2**	**14.7**	**12.9**	**10.0**	**9.6**	**9.6**	**10.0**	**10.0**	**10.0**	**10.4**	**11.6**	**10.4**

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	2.600	2.700	3.000	3.100	3.200	2.500	2.400	2.600	2.600	2.600	2.600	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.8**	**12.0**	**12.4**	**12.8**	**10.0**	**9.6**	**10.4**	**10.4**	**10.4**	**10.4**	**10.0**

Licensee Comments: none

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	8.0	51.0	36.0	10.0	0	0	55.0	20.0
Total opportunities	8.0	52.0	37.0	10.0	0	0	57.0	20.0
Indicator value	**95.0%**	**96.8%**	**97.4%**	**97.2%**	**97.2%**	**97.2%**	**97.3%**	**97.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	81.0	82.0	93.0	88.0	83.0	86.0	93.0	81.0
Total Key personnel	82.0	82.0	93.0	88.0	84.0	87.0	93.0	81.0
Indicator value	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**98.8%**	**98.9%**	**100.0%**	**100.0%**

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	252	286	252	317	285	356	499	534
Total sirens-tests	252	288	252	324	288	360	504	540
Indicator value	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.0%**	**98.9%**	**98.7%**	**98.9%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

1Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2128.7	2208.0	2135.8	2184.0	2134.2	2139.8	2209.0	1510.0
Indicator value	**0.9**	**0.9**	**1.7**	**1.6**	**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/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
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

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	1.0	1.0	1.0	2.0	1.0	1.0	0	0
Critical hours	2128.7	2208.0	2135.8	2184.0	2134.2	2139.8	2209.0	1510.0
Indicator value	**2.6**	**3.4**	**3.5**	**4.0**	**4.0**	**4.1**	**3.2**	**1.8**

Licensee Comments:

1Q/05: A power change occurred on 6/24/04 that is still under review for exclusion via the FAQ process. In the case where this occurrence is not allowed an exclusion, the indicator value is still withiin the green band.

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	6.26	13.75	13.50	29.17	1.04	0.85	2.56	16.56
Unplanned unavailable hours	0	13.97	4.75	18.35	0	0.10	9.83	0
Fault exposure hours	0	0	559.25	93.35	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.38	0.84	7.23	1.19	19.15	2.54	6.25	15.05
Unplanned unavailable hours	8.72	12.84	0	0	0	3.65	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	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.4%**	**0.5%**	**1.5%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	18.30	0.30	95.40	5.90	17.30	7.00	28.00	0.30
Unplanned unavailable hours	0	0	0	0	32.90	0	0	0
Fault exposure hours	0	0	0	1.83	32.67	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2128.70	2208.00	2135.80	2184.00	2134.20	2139.85	2209.00	1510.02
Indicator value	**0.6%**	**0.5%**	**0.9%**	**0.9%**	**1.2%**	**1.1%**	**1.3%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0.30	17.70	13.10	0.40	6.50	10.60	0.90	0.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2128.70	2208.00	2135.80	2184.00	2134.20	2139.85	2209.00	1510.02
Indicator value	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**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	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	11.60	0	0	69.80	0	9.50	18.80	43.30
Unplanned unavailable hours	0	0	0	0	0	4.70	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	142.20	0	19.50	2.80	19.40	1.20	12.70	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	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.8%**	**0.8%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000034	0.000033	0.000653	0.000059	0.000034	0.000028	0.000043	0.000046	0.000057	0.000081	0.000053	0.000104
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.000080	0.000079	0.000073	0.000058	0.000066	0.000075	0.000082	0.000123	0.000125	0.000175	0.000175	0.000153
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum leakage	2.500	2.400	2.400	2.500	2.500	2.500	2.600	2.900	2.600	2.600	2.700	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.0**	**9.6**	**9.6**	**10.0**	**10.0**	**10.0**	**10.4**	**11.6**	**10.4**	**10.4**	**10.8**	**12.0**
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	3.100	3.200	2.500	2.400	2.600	2.600	2.600	2.600	2.500	2.600	2.500	2.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.4**	**12.8**	**10.0**	**9.6**	**10.4**	**10.4**	**10.4**	**10.4**	**10.0**	**10.4**	**10.0**	**11.2**

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	51.0	36.0	10.0	0	0	55.0	20.0	0
Total opportunities	52.0	37.0	10.0	0	0	57.0	20.0	0
Indicator value	**96.8%**	**97.4%**	**97.2%**	**97.2%**	**97.2%**	**97.3%**	**97.8%**	**97.7%**

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	82.0	93.0	88.0	83.0	86.0	93.0	81.0	110.0
Total Key personnel	82.0	93.0	88.0	84.0	87.0	93.0	81.0	114.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.8%**	**98.9%**	**100.0%**	**100.0%**	**96.5%**

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	286	252	317	285	356	499	534	497
Total sirens-tests	288	252	324	288	360	504	540	504
Indicator value	**99.4%**	**99.4%**	**99.2%**	**99.0%**	**98.9%**	**98.7%**	**98.9%**	**98.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	1	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**1**

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

Brunswick 2

2Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	1.0	0	0	0	0	0	1.0
Critical hours	2208.0	2135.8	2184.0	2134.2	2139.8	2209.0	1510.0	2026.2
Indicator value	**0.9**	**1.7**	**1.6**	**0.8**	**0.8**	**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	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
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

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	1.0	1.0	2.0	1.0	1.0	0	0	2.0
Critical hours	2208.0	2135.8	2184.0	2134.2	2139.8	2209.0	1510.0	2026.2
Indicator value	**3.4**	**3.5**	**4.0**	**4.0**	**4.1**	**3.2**	**1.8**	**2.7**

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/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	13.75	13.50	29.17	1.04	0.85	2.56	16.56	51.01
Unplanned unavailable hours	13.97	4.75	18.35	0	0.10	9.83	0	0
Fault exposure hours	0	559.25	93.35	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0.84	7.23	1.19	19.15	2.54	6.25	15.05	1.76
Unplanned unavailable hours	12.84	0	0	0	3.65	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.5%**	**1.5%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**2.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0.30	95.40	5.90	17.30	7.00	28.00	0.30	0.30
Unplanned unavailable hours	0	0	0	32.90	0	0	0	2.10
Fault exposure hours	0	0	1.83	32.67	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2135.80	2184.00	2134.20	2139.85	2209.00	1510.02	2026.20
Indicator value	**0.5%**	**0.9%**	**0.9%**	**1.2%**	**1.1%**	**1.3%**	**1.2%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	17.70	13.10	0.40	6.50	10.60	0.90	0.30	18.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2135.80	2184.00	2134.20	2139.85	2209.00	1510.02	2026.20
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**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	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	0	69.80	0	9.50	18.80	43.30	0
Unplanned unavailable hours	0	0	0	0	4.70	0	0	14.20
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	19.50	2.80	19.40	1.20	12.70	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.8%**	**0.8%**	**0.7%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000059	0.000034	0.000028	0.000043	0.000046	0.000057	0.000081	0.000053	0.000104	0.000080	0.000079	0.000073
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**

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	0.000058	0.000066	0.000075	0.000082	0.000123	0.000125	0.000175	0.000175	0.000153	0.000139	0.000119	0.000276
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**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	2.500	2.500	2.500	2.600	2.900	2.600	2.600	2.700	3.000	3.100	3.200	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.0**	**10.0**	**10.0**	**10.4**	**11.6**	**10.4**	**10.4**	**10.8**	**12.0**	**12.4**	**12.8**	**10.0**
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	2.400	2.600	2.600	2.600	2.600	2.500	2.600	2.500	2.800	2.200	2.250	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.6**	**10.4**	**10.4**	**10.4**	**10.4**	**10.0**	**10.4**	**10.0**	**11.2**	**8.8**	**9.0**	**8.8**

Licensee Comments: none

Drill/Exercise Performance

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	36.0	10.0	0	0	55.0	20.0	0	34.0
Total opportunities	37.0	10.0	0	0	57.0	20.0	0	35.0
Indicator value	**97.4%**	**97.2%**	**97.2%**	**97.2%**	**97.3%**	**97.8%**	**97.7%**	**97.5%**

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	93.0	88.0	83.0	86.0	93.0	81.0	110.0	106.0
Total Key personnel	93.0	88.0	84.0	87.0	93.0	81.0	114.0	108.0
Indicator value	**100.0%**	**100.0%**	**98.8%**	**98.9%**	**100.0%**	**100.0%**	**96.5%**	**98.1%**

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	252	317	285	356	499	534	497	503
Total sirens-tests	252	324	288	360	504	540	504	504
Indicator value	**99.4%**	**99.2%**	**99.0%**	**98.9%**	**98.7%**	**98.9%**	**98.8%**	**99.1%**

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	1	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	1	0	0	0	0	0
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**1**	**1**

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

Brunswick 2

3Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	1.0	0	0	0	0	0	1.0	0
Critical hours	2135.8	2184.0	2134.2	2139.8	2209.0	1510.0	2026.2	2064.8
Indicator value	**1.7**	**1.6**	**0.8**	**0.8**	**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/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	1.0	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

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	1.0	2.0	1.0	1.0	0	0	2.0	1.0
Critical hours	2135.8	2184.0	2134.2	2139.8	2209.0	1510.0	2026.2	2064.8
Indicator value	**3.5**	**4.0**	**4.0**	**4.1**	**3.2**	**1.8**	**2.7**	**2.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	13.50	29.17	1.04	0.85	2.56	16.56	51.01	7.83
Unplanned unavailable hours	4.75	18.35	0	0.10	9.83	0	0	8.55
Fault exposure hours	559.25	93.35	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	7.23	1.19	19.15	2.54	6.25	15.05	1.76	10.72
Unplanned unavailable hours	0	0	0	3.65	0	0	0	32.39
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	**1.5%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**2.0%**	**2.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	95.40	5.90	17.30	7.00	28.00	0.30	0.30	0.50
Unplanned unavailable hours	0	0	32.90	0	0	0	2.10	0
Fault exposure hours	0	1.83	32.67	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2135.80	2184.00	2134.20	2139.85	2209.00	1510.02	2026.20	2064.80
Indicator value	**0.9%**	**0.9%**	**1.2%**	**1.1%**	**1.3%**	**1.2%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	13.10	0.40	6.50	10.60	0.90	0.30	18.30	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	2135.80	2184.00	2134.20	2139.85	2209.00	1510.02	2026.20	2064.80
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**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	0	69.80	0	9.50	18.80	43.30	0	20.50
Unplanned unavailable hours	0	0	0	4.70	0	0	14.20	0
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	19.50	2.80	19.40	1.20	12.70	0	0	38.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.6%**	**0.7%**	**0.7%**	**0.8%**	**0.8%**	**0.7%**	**0.8%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

3Q/05: LER 1-2005-04

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	0.000043	0.000046	0.000057	0.000081	0.000053	0.000104	0.000080	0.000079	0.000073	0.000058	0.000066	0.000075
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**
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	0.000082	0.000123	0.000125	0.000175	0.000175	0.000153	0.000139	0.000119	0.000276	0.000175	0.000274	0.000263
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum leakage	2.600	2.900	2.600	2.600	2.700	3.000	3.100	3.200	2.500	2.400	2.600	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**11.6**	**10.4**	**10.4**	**10.8**	**12.0**	**12.4**	**12.8**	**10.0**	**9.6**	**10.4**	**10.4**
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	2.600	2.600	2.500	2.600	2.500	2.800	2.200	2.250	2.200	2.200	2.200	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.4**	**10.0**	**10.4**	**10.0**	**11.2**	**8.8**	**9.0**	**8.8**	**8.8**	**8.8**	**8.8**

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	10.0	0	0	55.0	20.0	0	34.0	28.0
Total opportunities	10.0	0	0	57.0	20.0	0	35.0	28.0
Indicator value	**97.2%**	**97.2%**	**97.2%**	**97.3%**	**97.8%**	**97.7%**	**97.5%**	**98.0%**

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	88.0	83.0	86.0	93.0	81.0	110.0	106.0	102.0
Total Key personnel	88.0	84.0	87.0	93.0	81.0	114.0	108.0	104.0
Indicator value	**100.0%**	**98.8%**	**98.9%**	**100.0%**	**100.0%**	**96.5%**	**98.1%**	**98.1%**

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	317	285	356	499	534	497	503	502
Total sirens-tests	324	288	360	504	540	504	504	504
Indicator value	**99.2%**	**99.0%**	**98.9%**	**98.7%**	**98.9%**	**98.8%**	**99.1%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
High radiation area occurrences	0	0	0	0	0	1	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	1	0	0	0	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

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

Brunswick 2

4Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2184.0	2134.2	2139.8	2209.0	1510.0	2026.2	2064.8	2209.0
Indicator value	**1.6**	**0.8**	**0.8**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments:

4Q/05: The threshold for Unplanned Power Changes has been exceeded for Unit 2. Three unplanned downpowers were required to repair minor condenser tube leaks.

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

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	2.0	1.0	1.0	0	0	2.0	1.0	4.0
Critical hours	2184.0	2134.2	2139.8	2209.0	1510.0	2026.2	2064.8	2209.0
Indicator value	**4.0**	**4.0**	**4.1**	**3.2**	**1.8**	**2.7**	**2.7**	**6.3**

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	29.17	1.04	0.85	2.56	16.56	51.01	7.83	16.76
Unplanned unavailable hours	18.35	0	0.10	9.83	0	0	8.55	0
Fault exposure hours	93.35	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	1.19	19.15	2.54	6.25	15.05	1.76	10.72	8.48
Unplanned unavailable hours	0	0	3.65	0	0	0	32.39	0
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	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**2.0%**	**2.1%**	**2.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	5.90	17.30	7.00	28.00	0.30	0.30	0.50	23.70
Unplanned unavailable hours	0	32.90	0	0	0	2.10	0	0
Fault exposure hours	1.83	32.67	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2134.20	2139.85	2209.00	1510.02	2026.20	2064.80	2209.00
Indicator value	**0.9%**	**1.2%**	**1.1%**	**1.3%**	**1.2%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0.40	6.50	10.60	0.90	0.30	18.30	0	0.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2134.20	2139.85	2209.00	1510.02	2026.20	2064.80	2209.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**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/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	69.80	0	9.50	18.80	43.30	0	20.50	4.20
Unplanned unavailable hours	0	0	4.70	0	0	14.20	0	0
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	2.80	19.40	1.20	12.70	0	0	38.30	1.70
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	2183.00	2208.00	2209.00
Indicator value	**0.7%**	**0.7%**	**0.8%**	**0.8%**	**0.7%**	**0.8%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000081	0.000053	0.000104	0.000080	0.000079	0.000073	0.000058	0.000066	0.000075	0.000082	0.000123	0.000125
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**
Reactor Coolant System Activity	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum activity	0.000175	0.000175	0.000153	0.000139	0.000119	0.000276	0.000175	0.000274	0.000263	0.000241	0.000379	0.000446
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**

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	2.600	2.700	3.000	3.100	3.200	2.500	2.400	2.600	2.600	2.600	2.600	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.8**	**12.0**	**12.4**	**12.8**	**10.0**	**9.6**	**10.4**	**10.4**	**10.4**	**10.4**	**10.0**
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	2.600	2.500	2.800	2.200	2.250	2.200	2.200	2.200	2.200	2.300	2.200	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.0**	**11.2**	**8.8**	**9.0**	**8.8**	**8.8**	**8.8**	**8.8**	**9.2**	**8.8**	**9.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	0	0	55.0	20.0	0	34.0	28.0	7.0
Total opportunities	0	0	57.0	20.0	0	35.0	28.0	8.0
Indicator value	**97.2%**	**97.2%**	**97.3%**	**97.8%**	**97.7%**	**97.5%**	**98.0%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	83.0	86.0	93.0	81.0	110.0	106.0	102.0	104.0
Total Key personnel	84.0	87.0	93.0	81.0	114.0	108.0	104.0	106.0
Indicator value	**98.8%**	**98.9%**	**100.0%**	**100.0%**	**96.5%**	**98.1%**	**98.1%**	**98.1%**

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	285	356	499	534	497	503	502	539
Total sirens-tests	288	360	504	540	504	504	504	540
Indicator value	**99.0%**	**98.9%**	**98.7%**	**98.9%**	**98.8%**	**99.1%**	**99.2%**	**99.5%**

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	1	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	1	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: January 30, 2006

Brunswick 2

1Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2134.2	2139.8	2209.0	1510.0	2026.2	2064.8	2209.0	2160.0
Indicator value	**0.8**	**0.8**	**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	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	1.0	1.0	0	0	2.0	1.0	4.0	1.0
Critical hours	2134.2	2139.8	2209.0	1510.0	2026.2	2064.8	2209.0	2160.0
Indicator value	**4.0**	**4.1**	**3.2**	**1.8**	**2.7**	**2.7**	**6.3**	**6.6**

Licensee Comments:

1Q/06: Threshold was exceeded during fourth quarter 2005

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	1.04	0.85	2.56	16.56	51.01	7.83	16.76	1.52
Unplanned unavailable hours	0	0.10	9.83	0	0	8.55	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	19.15	2.54	6.25	15.05	1.76	10.72	8.48	1.31
Unplanned unavailable hours	0	3.65	0	0	0	32.39	0	0
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	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**2.0%**	**2.1%**	**2.0%**	**1.9%**

Licensee Comments:

3Q/03: Revised to add 1.7 hours unplanned unavailability for DG 4 in September 2003. Identified error during MSPI data validation. No impact on indicator color.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	17.30	7.00	28.00	0.30	0.30	0.50	23.70	1.10
Unplanned unavailable hours	32.90	0	0	0	2.10	0	0	0
Fault exposure hours	32.67	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2134.20	2139.85	2209.00	1510.02	2026.20	2064.80	2209.00	2160.00
Indicator value	**1.2%**	**1.1%**	**1.3%**	**1.2%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	6.50	10.60	0.90	0.30	18.30	0	0.20	14.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2134.20	2139.85	2209.00	1510.02	2026.20	2064.80	2209.00	2160.00
Indicator value	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0	9.50	18.80	43.30	0	20.50	4.20	13.10
Unplanned unavailable hours	0	4.70	0	0	14.20	0	0	0
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	19.40	1.20	12.70	0	0	38.30	1.70	11.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.7%**	**0.8%**	**0.8%**	**0.7%**	**0.8%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

1Q/06: LER 1-2006-001

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	0.000080	0.000079	0.000073	0.000058	0.000066	0.000075	0.000082	0.000123	0.000125	0.000175	0.000175	0.000153
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.000139	0.000119	0.000276	0.000175	0.000274	0.000263	0.000241	0.000379	0.000446	0.000655	0.001461	0.002587
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.3**	**0.7**	**1.3**

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	3.100	3.200	2.500	2.400	2.600	2.600	2.600	2.600	2.500	2.600	2.500	2.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.4**	**12.8**	**10.0**	**9.6**	**10.4**	**10.4**	**10.4**	**10.4**	**10.0**	**10.4**	**10.0**	**11.2**
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	2.200	2.250	2.200	2.200	2.200	2.200	2.300	2.200	2.300	2.300	2.300	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**9.0**	**8.8**	**8.8**	**8.8**	**8.8**	**9.2**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	0	55.0	20.0	0	34.0	28.0	7.0	20.0
Total opportunities	0	57.0	20.0	0	35.0	28.0	8.0	22.0
Indicator value	**97.2%**	**97.3%**	**97.8%**	**97.7%**	**97.5%**	**98.0%**	**97.3%**	**96.5%**

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	86.0	93.0	81.0	110.0	106.0	102.0	104.0	103.0
Total Key personnel	87.0	93.0	81.0	114.0	108.0	104.0	106.0	107.0
Indicator value	**98.9%**	**100.0%**	**100.0%**	**96.5%**	**98.1%**	**98.1%**	**98.1%**	**96.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	356	499	534	497	503	502	539	502
Total sirens-tests	360	504	540	504	504	504	540	504
Indicator value	**98.9%**	**98.7%**	**98.9%**	**98.8%**	**99.1%**	**99.2%**	**99.5%**	**99.7%**

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	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**	**1**	**1**	**1**	**1**	**1**	**1**	**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

Brunswick 2

2Q/2006 Performance Indicators

Licensee's General Comments: MS05: LER 1-2006-03 MS06: White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). Due to unique system configuration, failure on one of four EDGs counted against both Units.

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	1.0	0	0	0	0
Critical hours	2139.8	2209.0	1510.0	2026.2	2064.8	2209.0	2160.0	1967.0
Indicator value	**0.8**	**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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

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	1.0	0	0	2.0	1.0	4.0	1.0	0
Critical hours	2139.8	2209.0	1510.0	2026.2	2064.8	2209.0	2160.0	1967.0
Indicator value	**4.1**	**3.2**	**1.8**	**2.7**	**2.7**	**6.3**	**6.6**	**5.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	2	0	0	0	1	0	1	1
Indicator value	**3**	**2**	**2**	**2**	**1**	**1**	**2**	**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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								1.00E-07
URI (ΔCDF)								1.50E-06
PLE								NO
Indicator value								**1.60E-06**

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)								-1.80E-08
URI (ΔCDF)								1.10E-07
PLE								NO
Indicator value								**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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.20E-08
URI (ΔCDF)								-3.50E-08
PLE								NO
Indicator value								**-4.70E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.10E-07
URI (ΔCDF)								-1.00E-07
PLE								NO
Indicator value								**-2.10E-07**

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)								2.20E-07
URI (ΔCDF)								-3.20E-07
PLE								NO
Indicator value								**-1.00E-07**

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	0.000058	0.000066	0.000075	0.000082	0.000123	0.000125	0.000175	0.000175	0.000153	0.000139	0.000119	0.000276
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.000175	0.000274	0.000263	0.000241	0.000379	0.000446	0.000655	0.001461	0.002587	0.004269	0.004553	0.005525
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.3**	**0.7**	**1.3**	**2.1**	**2.3**	**2.8**

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	2.400	2.600	2.600	2.600	2.600	2.500	2.600	2.500	2.800	2.200	2.250	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.6**	**10.4**	**10.4**	**10.4**	**10.4**	**10.0**	**10.4**	**10.0**	**11.2**	**8.8**	**9.0**	**8.8**
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	2.200	2.200	2.200	2.300	2.200	2.300	2.300	2.300	2.300	2.800	2.800	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.8**	**8.8**	**9.2**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**11.2**	**11.2**	**9.6**

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	55.0	20.0	0	34.0	28.0	7.0	20.0	10.0
Total opportunities	57.0	20.0	0	35.0	28.0	8.0	22.0	10.0
Indicator value	**97.3%**	**97.8%**	**97.7%**	**97.5%**	**98.0%**	**97.3%**	**96.5%**	**96.7%**

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	93.0	81.0	110.0	106.0	102.0	104.0	103.0	104.0
Total Key personnel	93.0	81.0	114.0	108.0	104.0	106.0	107.0	106.0
Indicator value	**100.0%**	**100.0%**	**96.5%**	**98.1%**	**98.1%**	**98.1%**	**96.3%**	**98.1%**

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	499	534	497	503	502	539	502	503
Total sirens-tests	504	540	504	504	504	540	504	504
Indicator value	**98.7%**	**98.9%**	**98.8%**	**99.1%**	**99.2%**	**99.5%**	**99.7%**	**99.7%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

3Q/2006 Performance Indicators

Licensee's General Comments: Indicator values for Q2/2006 are different from previous submittal. See individual indicators for comments and Q3/2006 File submitted.

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	1.0	0	0	0	0	0
Critical hours	2209.0	1510.0	2026.2	2064.8	2209.0	2160.0	1967.0	2208.0
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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

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	2.0	1.0	4.0	1.0	0	0
Critical hours	2209.0	1510.0	2026.2	2064.8	2209.0	2160.0	1967.0	2208.0
Indicator value	**3.2**	**1.8**	**2.7**	**2.7**	**6.3**	**6.6**	**5.0**	**4.1**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	0	0	0	1	0	1	1	0
Indicator value	**2**	**2**	**2**	**1**	**1**	**2**	**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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							1.00E-07	7.80E-08
URI (ΔCDF)							1.40E-06	1.10E-06
PLE							NO	NO
Indicator value							**1.50E-06**	**1.18E-06**

Licensee Comments:

3Q/06: Risk Cap Invoked. MS06: White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). Six MSPI failures between the four DGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs is counted against both Units. Revision to previously submitted data: Changed two MSPI failures from Start Demands to Load Run Demands, #1164 on 06/06/2004 and #1215 on 11/10/2004. Revised the Estimated Start and Load Run Demands in baseline. Indicator color unaffected. Change File created.

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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-1.80E-08	-1.80E-08
URI (ΔCDF)							-6.70E-08	-6.70E-08
PLE							NO	NO
Indicator value							**-8.50E-08**	**-8.50E-08**

Licensee Comments:

3Q/06: Revision to previously submitted data: Changed Failure #1283 on 04/07/2005 to NO for MSPI failure. Indicator color unaffected. Change File created.

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)							-1.20E-08	-1.20E-08
URI (ΔCDF)							-3.50E-08	-3.50E-08
PLE							NO	NO
Indicator value							**-4.70E-08**	**-4.70E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-1.10E-07	-1.10E-07
URI (ΔCDF)							-1.00E-07	-1.00E-07
PLE							NO	NO
Indicator value							**-2.10E-07**	**-2.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							2.20E-07	2.60E-07
URI (ΔCDF)							-3.20E-07	-3.10E-07
PLE							NO	NO
Indicator value							**-1.00E-07**	**-5.00E-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	0.000082	0.000123	0.000125	0.000175	0.000175	0.000153	0.000139	0.000119	0.000276	0.000175	0.000274	0.000263
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.000241	0.000379	0.000446	0.000655	0.001461	0.002587	0.004269	0.004553	0.005525	0.008971	0.007350	0.006814
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.3**	**0.7**	**1.3**	**2.1**	**2.3**	**2.8**	**4.5**	**3.7**	**3.4**

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	2.600	2.600	2.500	2.600	2.500	2.800	2.200	2.250	2.200	2.200	2.200	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.4**	**10.0**	**10.4**	**10.0**	**11.2**	**8.8**	**9.0**	**8.8**	**8.8**	**8.8**	**8.8**
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	2.300	2.200	2.300	2.300	2.300	2.300	2.800	2.800	2.400	2.600	2.500	2.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.2**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**11.2**	**11.2**	**9.6**	**10.4**	**10.0**	**10.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	20.0	0	34.0	28.0	7.0	20.0	10.0	7.0
Total opportunities	20.0	0	35.0	28.0	8.0	22.0	10.0	7.0
Indicator value	**97.8%**	**97.7%**	**97.5%**	**98.0%**	**97.3%**	**96.5%**	**96.7%**	**96.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	81.0	110.0	106.0	102.0	104.0	103.0	104.0	95.0
Total Key personnel	81.0	114.0	108.0	104.0	106.0	107.0	106.0	101.0
Indicator value	**100.0%**	**96.5%**	**98.1%**	**98.1%**	**98.1%**	**96.3%**	**98.1%**	**94.1%**

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	534	497	503	502	539	502	503	504
Total sirens-tests	540	504	504	504	540	504	504	504
Indicator value	**98.9%**	**98.8%**	**99.1%**	**99.2%**	**99.5%**	**99.7%**	**99.7%**	**99.8%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

4Q/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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	1.0	0	0	0	0	0	3.0
Critical hours	1510.0	2026.2	2064.8	2209.0	2160.0	1967.0	2208.0	1723.8
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**2.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	2.0	1.0	4.0	1.0	0	0	0
Critical hours	1510.0	2026.2	2064.8	2209.0	2160.0	1967.0	2208.0	1723.8
Indicator value	**1.8**	**2.7**	**2.7**	**6.3**	**6.6**	**5.0**	**4.1**	**0.9**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

4Q/06: LER-1-2006-005 submitted for Control Room Emergency Ventilation (CREV) rendered inoperable due to chlorine detectors.

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)						1.00E-07	7.80E-08	1.10E-07
URI (ΔCDF)						1.40E-06	1.10E-06	2.60E-06
PLE						NO	NO	NO
Indicator value						**1.50E-06**	**1.18E-06**	**2.71E-06**

Licensee Comments:

4Q/06: Risk Cap Invoked. Emergency AC power MSPI for Unit 2 remains WHITE from the previous quarter. White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). There are currently seven MSPI failures between the four EDGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs affects both Units.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						-1.80E-08	-1.80E-08	-1.80E-08
URI (ΔCDF)						-6.70E-08	-6.70E-08	-7.00E-08
PLE						NO	NO	NO
Indicator value						**-8.50E-08**	**-8.50E-08**	**-8.80E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-1.20E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)						-3.50E-08	-3.50E-08	-4.10E-08
PLE						NO	NO	NO
Indicator value						**-4.70E-08**	**-4.70E-08**	**-5.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						-1.10E-07	-1.10E-07	1.10E-07
URI (ΔCDF)						-1.00E-07	-1.00E-07	-1.00E-07
PLE						NO	NO	NO
Indicator value						**-2.10E-07**	**-2.10E-07**	**1.00E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						2.20E-07	2.60E-07	5.20E-07
URI (ΔCDF)						-3.20E-07	-3.10E-07	-3.10E-07
PLE						NO	NO	NO
Indicator value						**-1.00E-07**	**-5.00E-08**	**2.10E-07**

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	0.000175	0.000175	0.000153	0.000139	0.000119	0.000276	0.000175	0.000274	0.000263	0.000241	0.000379	0.000446
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**
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	0.000655	0.001461	0.002587	0.004269	0.004553	0.005525	0.008971	0.007350	0.006814	0.006881	0.006710	0.007008
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.7**	**1.3**	**2.1**	**2.3**	**2.8**	**4.5**	**3.7**	**3.4**	**3.4**	**3.4**	**3.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	2.600	2.500	2.800	2.200	2.250	2.200	2.200	2.200	2.200	2.300	2.200	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.0**	**11.2**	**8.8**	**9.0**	**8.8**	**8.8**	**8.8**	**8.8**	**9.2**	**8.8**	**9.2**
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	2.300	2.300	2.300	2.800	2.800	2.400	2.600	2.500	2.700	2.800	3.000	4.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.2**	**9.2**	**9.2**	**11.2**	**11.2**	**9.6**	**10.4**	**10.0**	**10.8**	**11.2**	**12.0**	**16.8**

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	0	34.0	28.0	7.0	20.0	10.0	7.0	26.0
Total opportunities	0	35.0	28.0	8.0	22.0	10.0	7.0	28.0
Indicator value	**97.7%**	**97.5%**	**98.0%**	**97.3%**	**96.5%**	**96.7%**	**96.9%**	**95.7%**

Licensee Comments: none

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	110.0	106.0	102.0	104.0	103.0	104.0	95.0	108.0
Total Key personnel	114.0	108.0	104.0	106.0	107.0	106.0	101.0	110.0
Indicator value	**96.5%**	**98.1%**	**98.1%**	**98.1%**	**96.3%**	**98.1%**	**94.1%**	**98.2%**

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	497	503	502	539	502	503	504	560
Total sirens-tests	504	504	504	540	504	504	504	560
Indicator value	**98.8%**	**99.1%**	**99.2%**	**99.5%**	**99.7%**	**99.7%**	**99.8%**	**99.9%**

Licensee Comments: none

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	1	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

1Q/2007 Performance Indicators

Licensee's General Comments: The method used for input of Unavailability hours for the four Emergency Diesel Generators was not correct or conservative since inception of the MSPI. Unavailability hours for all four diesels were being input to CDE, but were not being applied to both units appropriately. Unavailability hours have been corrected back to 2003, and this issue has been entered into the corrective action program via NCR 229422.

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	1.0	0	0	0	0	0	3.0	0
Critical hours	2026.2	2064.8	2209.0	2160.0	1967.0	2208.0	1723.8	1464.1
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**2.6**	**2.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	2.0	1.0	4.0	1.0	0	0	0	0
Critical hours	2026.2	2064.8	2209.0	2160.0	1967.0	2208.0	1723.8	1464.1
Indicator value	**2.7**	**2.7**	**6.3**	**6.6**	**5.0**	**4.1**	**0.9**	**0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	0	1	0	1	1	0	1	0
Indicator value	**2**	**1**	**1**	**2**	**3**	**2**	**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/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					2.50E-07	2.30E-07	4.00E-07	3.90E-07
URI (ΔCDF)					1.40E-06	1.10E-06	2.60E-06	1.50E-06
PLE					NO	NO	NO	NO
Indicator value					**1.65E-06**	**1.33E-06**	**3.00E-06**	**1.89E-06**

Licensee Comments:

1Q/07: Risk Cap Invoked. Changed PRA Parameter(s). New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document. EDG2 had a fail to start on 02/19/2007 due to a failed LPSCR relay. Also, an evaluation is pending for a potential MSPI failure to the Emergency AC Power system due to an E-bus cross-tie breaker found misaligned. This evaluation shall be complete prior to the end of the 2nd Quarter 2007. The MSPI for Unit 2 Emergency AC Power system remains WHITE since the 2nd Quarter of 2006.

4Q/06: Risk Cap Invoked. Emergency AC power MSPI for Unit 2 remains WHITE from the previous quarter. White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). There are currently seven MSPI failures between the four EDGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs affects both Units.

3Q/06: Risk Cap Invoked. MS06: White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). Six MSPI failures between the four DGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs is counted against both Units. Revision to previously submitted data: Changed two MSPI failures from Start Demands to Load Run Demands, #1164 on 06/06/2004 and #1215 on 11/10/2004. Revised the Estimated Start and Load Run Demands in baseline. Indicator color unaffected. Change File created.

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-1.80E-08	-1.80E-08	-1.80E-08	-1.70E-08
URI (ΔCDF)					-6.70E-08	-6.70E-08	-7.00E-08	-6.50E-08
PLE					NO	NO	NO	NO
Indicator value					**-8.50E-08**	**-8.50E-08**	**-8.80E-08**	**-8.20E-08**

Licensee Comments:

1Q/07: Changed PRA Parameter(s). New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document.

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)					-1.20E-08	-1.20E-08	-1.20E-08	-9.50E-09
URI (ΔCDF)					-3.50E-08	-3.50E-08	-4.10E-08	-3.70E-08
PLE					NO	NO	NO	NO
Indicator value					**-4.70E-08**	**-4.70E-08**	**-5.30E-08**	**-4.65E-08**

Licensee Comments:

1Q/07: Changed PRA Parameter(s). New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document.

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)					-1.10E-07	-1.10E-07	1.10E-07	-4.10E-07
URI (ΔCDF)					-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07
PLE					NO	NO	NO	NO
Indicator value					**-2.10E-07**	**-2.10E-07**	**1.00E-08**	**-5.20E-07**

Licensee Comments:

1Q/07: Changed PRA Parameter(s). New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document.

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)					2.20E-07	2.60E-07	5.20E-07	3.30E-08
URI (ΔCDF)					-3.20E-07	-3.10E-07	-3.10E-07	-3.20E-07
PLE					NO	NO	NO	NO
Indicator value					**-1.00E-07**	**-5.00E-08**	**2.10E-07**	**-2.87E-07**

Licensee Comments:

1Q/07: Changed PRA Parameter(s). New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document.

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	0.000139	0.000119	0.000276	0.000175	0.000274	0.000263	0.000241	0.000379	0.000446	0.000655	0.001461	0.002587
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.3**	**0.7**	**1.3**
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	0.004269	0.004553	0.005525	0.008971	0.007350	0.006814	0.006881	0.006710	0.007008	0.006493	0.006559	0.006114
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**2.1**	**2.3**	**2.8**	**4.5**	**3.7**	**3.4**	**3.4**	**3.4**	**3.5**	**3.2**	**3.3**	**3.1**

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	2.200	2.250	2.200	2.200	2.200	2.200	2.300	2.200	2.300	2.300	2.300	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**9.0**	**8.8**	**8.8**	**8.8**	**8.8**	**9.2**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**
Reactor Coolant System Leakage	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum leakage	2.800	2.800	2.400	2.600	2.500	2.700	2.800	3.000	4.200	3.100	3.100	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**11.2**	**9.6**	**10.4**	**10.0**	**10.8**	**11.2**	**12.0**	**16.8**	**12.4**	**12.4**	**12.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	34.0	28.0	7.0	20.0	10.0	7.0	26.0	0
Total opportunities	35.0	28.0	8.0	22.0	10.0	7.0	28.0	0
Indicator value	**97.5%**	**98.0%**	**97.3%**	**96.5%**	**96.7%**	**96.9%**	**95.7%**	**95.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	106.0	102.0	104.0	103.0	104.0	95.0	108.0	104.0
Total Key personnel	108.0	104.0	106.0	107.0	106.0	101.0	110.0	107.0
Indicator value	**98.1%**	**98.1%**	**98.1%**	**96.3%**	**98.1%**	**94.1%**	**98.2%**	**97.2%**

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	503	502	539	502	503	504	560	532
Total sirens-tests	504	504	540	504	504	504	560	532
Indicator value	**99.1%**	**99.2%**	**99.5%**	**99.7%**	**99.7%**	**99.8%**	**99.9%**	**100.0%**

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

2Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	0	0	0	0	3.0	0	0
Critical hours	2064.8	2209.0	2160.0	1967.0	2208.0	1723.8	1464.1	1823.9
Indicator value	**0.9**	**0.9**	**0.8**	**0**	**0**	**2.6**	**2.9**	**2.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	1.0	4.0	1.0	0	0	0	0	0
Critical hours	2064.8	2209.0	2160.0	1967.0	2208.0	1723.8	1464.1	1823.9
Indicator value	**2.7**	**6.3**	**6.6**	**5.0**	**4.1**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	1	0	1	1	0	1	0	0
Indicator value	**1**	**1**	**2**	**3**	**2**	**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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				2.50E-07	2.30E-07	3.90E-07	3.80E-07	7.00E-07
URI (ΔCDF)				1.40E-06	1.10E-06	2.60E-06	1.50E-06	1.00E-06
PLE				NO	NO	NO	NO	NO
Indicator value				**1.65E-06**	**1.33E-06**	**2.99E-06**	**1.88E-06**	**1.70E-06**

Licensee Comments:

2Q/07: Risk Cap Invoked. Added four trains/segments that include emergency bus cross-tie breakers that were previously inadvertently omitted. Unreliability data for the new segments is complete and entered, Unavailability data is not entered pending required changes to INPOs CDE software. PI color was unaffected and remains WHITE. WHITE threshold exceeded since inception of MSPI in 2Q2006 due to multiple failures and corresponding unavailability. Due to unique plant configuration, failures and unavailable hours of each diesel contribute to both Units 1 & 2.

1Q/07: Risk Cap Invoked. New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document. EDG2 had a fail to start on 02/19/2007 due to a failed LPSCR relay. Also, an evaluation is pending for a potential MSPI failure to the Emergency AC Power system due to an E-bus cross-tie breaker found misaligned. This evaluation shall be complete prior to the end of the 2nd Quarter 2007. The MSPI for Unit 2 Emergency AC Power system remains WHITE since the 2nd Quarter of 2006.

4Q/06: Risk Cap Invoked. Emergency AC power MSPI for Unit 2 remains WHITE from the previous quarter. White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). There are currently seven MSPI failures between the four EDGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs affects both Units.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-1.80E-08	-1.80E-08	-1.80E-08	-1.70E-08	-2.90E-08
URI (ΔCDF)				-6.70E-08	-6.70E-08	-7.00E-08	-6.50E-08	-6.50E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**-8.50E-08**	**-8.50E-08**	**-8.80E-08**	**-8.20E-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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-1.20E-08	-1.20E-08	-1.20E-08	-9.50E-09	-1.00E-08
URI (ΔCDF)				-3.50E-08	-3.50E-08	-4.10E-08	-3.70E-08	5.90E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**-4.70E-08**	**-4.70E-08**	**-5.30E-08**	**-4.65E-08**	**-4.10E-09**

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)				-1.10E-07	-1.10E-07	1.10E-07	-4.10E-07	-4.10E-07
URI (ΔCDF)				-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-2.10E-07**	**-2.10E-07**	**1.00E-08**	**-5.20E-07**	**-5.20E-07**

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)				2.20E-07	2.60E-07	5.20E-07	3.30E-08	2.80E-08
URI (ΔCDF)				-3.50E-07	-3.40E-07	-3.40E-07	-3.50E-07	-3.50E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-1.30E-07**	**-8.00E-08**	**1.80E-07**	**-3.17E-07**	**-3.22E-07**

Licensee Comments:

2Q/07: Added monitored component 2-SW-V102, RHR-SW cross-tie valve, which was previously inadvertently omitted. PI color was unaffected and remains GREEN.

1Q/07: New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document.

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	0.000175	0.000274	0.000263	0.000241	0.000379	0.000446	0.000655	0.001461	0.002587	0.004269	0.004553	0.005525
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.3**	**0.7**	**1.3**	**2.1**	**2.3**	**2.8**
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	0.008971	0.007350	0.006814	0.006881	0.006710	0.007008	0.006493	0.006559	0.006114	0.003335	0.003376	0.003926
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**4.5**	**3.7**	**3.4**	**3.4**	**3.4**	**3.5**	**3.2**	**3.3**	**3.1**	**1.7**	**1.7**	**2.0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum leakage	2.200	2.200	2.200	2.300	2.200	2.300	2.300	2.300	2.300	2.800	2.800	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.8**	**8.8**	**9.2**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**11.2**	**11.2**	**9.6**
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	2.600	2.500	2.700	2.800	3.000	4.200	3.100	3.100	3.000	2.200	2.200	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.0**	**10.8**	**11.2**	**12.0**	**16.8**	**12.4**	**12.4**	**12.0**	**8.8**	**8.8**	**8.8**

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	28.0	7.0	20.0	10.0	7.0	26.0	0	13.0
Total opportunities	28.0	8.0	22.0	10.0	7.0	28.0	0	13.0
Indicator value	**98.0%**	**97.3%**	**96.5%**	**96.7%**	**96.9%**	**95.7%**	**95.7%**	**95.7%**

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	102.0	104.0	103.0	104.0	95.0	108.0	104.0	105.0
Total Key personnel	104.0	106.0	107.0	106.0	101.0	110.0	107.0	107.0
Indicator value	**98.1%**	**98.1%**	**96.3%**	**98.1%**	**94.1%**	**98.2%**	**97.2%**	**98.1%**

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	502	539	502	503	504	560	532	532
Total sirens-tests	504	540	504	504	504	560	532	532
Indicator value	**99.2%**	**99.5%**	**99.7%**	**99.7%**	**99.8%**	**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	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	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

3Q/2007 Performance Indicators

Licensee's General Comments: IE04: New data entered for PI beginning 4Q2006. A scram in November 2006 met the criteria of the new PI for an Unplanned Scram with Complication and was entered into CDE for Q42006.

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	0	0	0	0	3.0	0	0	0
Critical hours	2209.0	2160.0	1967.0	2208.0	1723.8	1464.1	1823.9	2208.0
Indicator value	**0.9**	**0.8**	**0**	**0**	**2.6**	**2.9**	**2.9**	**2.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	4.0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	1967.0	2208.0	1723.8	1464.1	1823.9	2208.0
Indicator value	**6.3**	**6.6**	**5.0**	**4.1**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					1.0	0	0	0
Indicator value								**1.0**

Licensee Comments:

3Q/07: A scram in November 2006 met the criteria of the new PI Unplanned Scram with Complication and entered into CDE for Q42006.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			2.50E-07	2.30E-07	3.90E-07	3.80E-07	7.00E-07	5.10E-07
URI (ΔCDF)			1.40E-06	1.10E-06	2.60E-06	1.50E-06	1.00E-06	1.00E-06
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**1.65E-06**	**1.33E-06**	**2.99E-06**	**1.88E-06**	**1.70E-06**	**1.51E-06**

Licensee Comments:

3Q/07: Risk Cap Invoked. WHITE threshold exceeded since 2Q2006 due to multiple failures on EDGs and asssociated Unavailability. Due to unique plant configuration, failure on any of the four EDGs adversely impacts the MSPI of both Units.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-1.80E-08	-1.80E-08	-1.80E-08	-1.70E-08	-2.90E-08	-2.90E-08
URI (ΔCDF)			-6.70E-08	-6.70E-08	-7.00E-08	-6.50E-08	-6.50E-08	-6.50E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-8.50E-08**	**-8.50E-08**	**-8.80E-08**	**-8.20E-08**	**-9.40E-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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-1.20E-08	-1.20E-08	-1.20E-08	-9.50E-09	-1.00E-08	-1.00E-08
URI (ΔCDF)			-3.50E-08	-3.50E-08	-4.10E-08	-3.70E-08	5.90E-09	5.90E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-4.70E-08**	**-4.70E-08**	**-5.30E-08**	**-4.65E-08**	**-4.10E-09**	**-4.10E-09**

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)			-1.10E-07	-1.10E-07	1.10E-07	-4.10E-07	-4.10E-07	-4.50E-07
URI (ΔCDF)			-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07	-1.90E-06
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-2.10E-07**	**-2.10E-07**	**1.00E-08**	**-5.20E-07**	**-5.20E-07**	**-2.35E-06**

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)			2.20E-07	2.60E-07	5.20E-07	3.30E-08	2.80E-08	4.90E-07
URI (ΔCDF)			-3.50E-07	-3.40E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.50E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-1.30E-07**	**-8.00E-08**	**1.80E-07**	**-3.17E-07**	**-3.22E-07**	**1.40E-07**

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	0.000241	0.000379	0.000446	0.000655	0.001461	0.002587	0.004269	0.004553	0.005525	0.008971	0.007350	0.006814
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**0.3**	**0.7**	**1.3**	**2.1**	**2.3**	**2.8**	**4.5**	**3.7**	**3.4**
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	0.006881	0.006710	0.007008	0.006493	0.006559	0.006114	0.003335	0.003376	0.003926	0.003281	0.003647	0.003445
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**3.4**	**3.4**	**3.5**	**3.2**	**3.3**	**3.1**	**1.7**	**1.7**	**2.0**	**1.6**	**1.8**	**1.7**

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	2.300	2.200	2.300	2.300	2.300	2.300	2.800	2.800	2.400	2.600	2.500	2.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.2**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**11.2**	**11.2**	**9.6**	**10.4**	**10.0**	**10.8**
Reactor Coolant System Leakage	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum leakage	2.800	3.000	4.200	3.100	3.100	3.000	2.200	2.200	2.200	2.200	2.100	2.100
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**12.0**	**16.8**	**12.4**	**12.4**	**12.0**	**8.8**	**8.8**	**8.8**	**8.8**	**8.4**	**8.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	7.0	20.0	10.0	7.0	26.0	0	13.0	18.0
Total opportunities	8.0	22.0	10.0	7.0	28.0	0	13.0	18.0
Indicator value	**97.3%**	**96.5%**	**96.7%**	**96.9%**	**95.7%**	**95.7%**	**95.7%**	**95.3%**

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	104.0	103.0	104.0	95.0	108.0	104.0	105.0	101.0
Total Key personnel	106.0	107.0	106.0	101.0	110.0	107.0	107.0	108.0
Indicator value	**98.1%**	**96.3%**	**98.1%**	**94.1%**	**98.2%**	**97.2%**	**98.1%**	**93.5%**

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	539	502	503	504	560	532	532	532
Total sirens-tests	540	504	504	504	560	532	532	532
Indicator value	**99.5%**	**99.7%**	**99.7%**	**99.8%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/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	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

Brunswick 2

4Q/2007 Performance Indicators

Licensee's General Comments: The Brunswick Plant Probabilistic Risk Assessment (PSA) model was revised in the 3rd Quarter of 2007 following plant modifications and procedural changes. These changes decreased both unit's core damage frequency, improving the MSPI of the five mitigating systems. The PSA changes became effective in the 4th Quarter of 2007.

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	3.0	0	0	0	0
Critical hours	2160.0	1967.0	2208.0	1723.8	1464.1	1823.9	2208.0	2209.0
Indicator value	**0.8**	**0**	**0**	**2.6**	**2.9**	**2.9**	**2.9**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2160.0	1967.0	2208.0	1723.8	1464.1	1823.9	2208.0	2209.0
Indicator value	**6.6**	**5.0**	**4.1**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				1.0	0	0	0	0
Indicator value							**1.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

4Q/07: LER 2-2007-004 was submitted on 12/10/2007 as a loss of safety function due to HPCI main pump seal failure. Further engineering evaluation determined HPCI would have performed its safety function, and this LER will be retracted prior to 01/31/2008.

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	2.30E-07	3.90E-07	3.80E-07	7.00E-07	5.10E-07	8.40E-09
URI (ΔCDF)		1.40E-06	1.10E-06	2.60E-06	1.50E-06	1.00E-06	1.00E-06	8.60E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**1.65E-06**	**1.33E-06**	**2.99E-06**	**1.88E-06**	**1.70E-06**	**1.51E-06**	**9.44E-08**

Licensee Comments:

4Q/07: The baseline planned unavailability was revised in the 3rd quarter of 2007 to reflect current maintenance practices, and became effective in the 4th quarter 2007.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-1.80E-08	-1.80E-08	-1.80E-08	-1.70E-08	-2.90E-08	-2.90E-08	9.60E-08
URI (ΔCDF)		-6.70E-08	-6.70E-08	-7.00E-08	-6.50E-08	-6.50E-08	-6.50E-08	7.10E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-8.50E-08**	**-8.50E-08**	**-8.80E-08**	**-8.20E-08**	**-9.40E-08**	**-9.40E-08**	**1.67E-07**

Licensee Comments:

4Q/07: The baseline planned unavailability was revised in the 3rd quarter of 2007 to reflect current maintenance practices, and became effective in the 4th quarter 2007.

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)		-1.20E-08	-1.20E-08	-1.20E-08	-9.50E-09	-1.00E-08	-1.00E-08	-3.60E-10
URI (ΔCDF)		-3.50E-08	-3.50E-08	-4.10E-08	-3.70E-08	5.90E-09	5.90E-09	4.10E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-4.70E-08**	**-4.70E-08**	**-5.30E-08**	**-4.65E-08**	**-4.10E-09**	**-4.10E-09**	**3.74E-09**

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)		-1.10E-07	-1.10E-07	1.10E-07	-4.10E-07	-4.10E-07	-4.50E-07	-2.50E-08
URI (ΔCDF)		-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07	-1.90E-06	-4.40E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-2.10E-07**	**-2.10E-07**	**1.00E-08**	**-5.20E-07**	**-5.20E-07**	**-2.35E-06**	**-4.65E-07**

Licensee Comments:

4Q/07: The baseline planned unavailability was revised in the 3rd quarter of 2007 to reflect current maintenance practices, and became effective in the 4th quarter 2007.

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)		2.20E-07	2.60E-07	5.20E-07	3.30E-08	2.80E-08	4.90E-07	-4.40E-08
URI (ΔCDF)		-3.50E-07	-3.40E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.50E-07	-1.40E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-1.30E-07**	**-8.00E-08**	**1.80E-07**	**-3.17E-07**	**-3.22E-07**	**1.40E-07**	**-5.80E-08**

Licensee Comments:

4Q/07: The baseline planned and unplanned unavailability was revised in the 3rd quarter of 2007 to reflect current maintenance practices, and became effective in the 4th quarter 2007.

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	0.000655	0.001461	0.002587	0.004269	0.004553	0.005525	0.008971	0.007350	0.006814	0.006881	0.006710	0.007008
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.7**	**1.3**	**2.1**	**2.3**	**2.8**	**4.5**	**3.7**	**3.4**	**3.4**	**3.4**	**3.5**
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	0.006493	0.006559	0.006114	0.003335	0.003376	0.003926	0.003281	0.003647	0.003445	0.003577	0.003372	0.003388
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**3.2**	**3.3**	**3.1**	**1.7**	**1.7**	**2.0**	**1.6**	**1.8**	**1.7**	**1.8**	**1.7**	**1.7**

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	2.300	2.300	2.300	2.800	2.800	2.400	2.600	2.500	2.700	2.800	3.000	4.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.2**	**9.2**	**9.2**	**11.2**	**11.2**	**9.6**	**10.4**	**10.0**	**10.8**	**11.2**	**12.0**	**16.8**
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	3.100	3.100	3.000	2.200	2.200	2.200	2.200	2.100	2.100	2.200	2.100	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.4**	**12.4**	**12.0**	**8.8**	**8.8**	**8.8**	**8.8**	**8.4**	**8.4**	**8.8**	**8.4**	**8.8**

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	20.0	10.0	7.0	26.0	0	13.0	18.0	38.0
Total opportunities	22.0	10.0	7.0	28.0	0	13.0	18.0	38.0
Indicator value	**96.5%**	**96.7%**	**96.9%**	**95.7%**	**95.7%**	**95.7%**	**95.3%**	**97.1%**

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	103.0	104.0	95.0	108.0	104.0	105.0	101.0	102.0
Total Key personnel	107.0	106.0	101.0	110.0	107.0	107.0	108.0	102.0
Indicator value	**96.3%**	**98.1%**	**94.1%**	**98.2%**	**97.2%**	**98.1%**	**93.5%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	502	503	504	560	532	532	532	569
Total sirens-tests	504	504	504	560	532	532	532	570
Indicator value	**99.7%**	**99.7%**	**99.8%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

1Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	3.0	0	0	0	0	0
Critical hours	1967.0	2208.0	1723.8	1464.1	1823.9	2208.0	2209.0	2183.0
Indicator value	**0**	**0**	**2.6**	**2.9**	**2.9**	**2.9**	**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/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	1.0
Critical hours	1967.0	2208.0	1723.8	1464.1	1823.9	2208.0	2209.0	2183.0
Indicator value	**5.0**	**4.1**	**0.9**	**0**	**0**	**0**	**0**	**0.8**

Licensee Comments:

1Q/08: Unplanned power change taken to repair a steam leak on the 5A FW heater drain line (turbine-generator taken offline to facilitate repair).

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			1.0	0	0	0	0	0
Indicator value						**1.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	1	0	1	0	0	0	0	0
Indicator value	**3**	**2**	**3**	**2**	**1**	**1**	**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	2.30E-07	3.90E-07	3.80E-07	7.00E-07	5.10E-07	8.40E-09	8.80E-09
URI (ΔCDF)	1.40E-06	1.10E-06	2.60E-06	1.50E-06	1.00E-06	1.00E-06	8.60E-08	8.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.65E-06**	**1.33E-06**	**2.99E-06**	**1.88E-06**	**1.70E-06**	**1.51E-06**	**9.44E-08**	**9.38E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.80E-08	-1.80E-08	-1.80E-08	-1.70E-08	-2.90E-08	-2.90E-08	9.60E-08	9.20E-08
URI (ΔCDF)	-6.70E-08	-6.70E-08	-7.00E-08	-6.50E-08	-6.50E-08	-6.50E-08	7.10E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.50E-08**	**-8.50E-08**	**-8.80E-08**	**-8.20E-08**	**-9.40E-08**	**-9.40E-08**	**1.67E-07**	**1.63E-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)	-1.20E-08	-1.20E-08	-1.20E-08	-9.50E-09	-1.00E-08	-1.00E-08	-3.60E-10	-9.90E-10
URI (ΔCDF)	-3.50E-08	-3.50E-08	-4.10E-08	-3.70E-08	5.90E-09	5.90E-09	4.10E-09	3.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.70E-08**	**-4.70E-08**	**-5.30E-08**	**-4.65E-08**	**-4.10E-09**	**-4.10E-09**	**3.74E-09**	**2.21E-09**

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)	-1.10E-07	-1.10E-07	1.10E-07	-4.10E-07	-4.10E-07	-4.50E-07	-2.50E-08	-3.10E-08
URI (ΔCDF)	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07	-1.90E-06	-4.40E-07	-4.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-2.10E-07**	**1.00E-08**	**-5.20E-07**	**-5.20E-07**	**-2.35E-06**	**-4.65E-07**	**-4.71E-07**

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)	2.20E-07	2.60E-07	5.20E-07	3.30E-08	2.80E-08	4.90E-07	-4.40E-08	-1.30E-07
URI (ΔCDF)	-3.50E-07	-3.40E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.50E-07	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**-8.00E-08**	**1.80E-07**	**-3.17E-07**	**-3.22E-07**	**1.40E-07**	**-5.80E-08**	**-1.44E-07**

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	0.004269	0.004553	0.005525	0.008971	0.007350	0.006814	0.006881	0.006710	0.007008	0.006493	0.006559	0.006114
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**2.1**	**2.3**	**2.8**	**4.5**	**3.7**	**3.4**	**3.4**	**3.4**	**3.5**	**3.2**	**3.3**	**3.1**
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	0.003335	0.003376	0.003926	0.003281	0.003647	0.003445	0.003577	0.003372	0.003388	0.003301	0.002949	0.003297
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.7**	**1.7**	**2.0**	**1.6**	**1.8**	**1.7**	**1.8**	**1.7**	**1.7**	**1.7**	**1.5**	**1.6**

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	2.800	2.800	2.400	2.600	2.500	2.700	2.800	3.000	4.200	3.100	3.100	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**11.2**	**9.6**	**10.4**	**10.0**	**10.8**	**11.2**	**12.0**	**16.8**	**12.4**	**12.4**	**12.0**
Reactor Coolant System Leakage	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum leakage	2.200	2.200	2.200	2.200	2.100	2.100	2.200	2.100	2.200	2.200	2.300	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.8**	**8.8**	**8.8**	**8.4**	**8.4**	**8.8**	**8.4**	**8.8**	**8.8**	**9.2**	**9.2**

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	10.0	7.0	26.0	0	13.0	18.0	38.0	0
Total opportunities	10.0	7.0	28.0	0	13.0	18.0	38.0	0
Indicator value	**96.7%**	**96.9%**	**95.7%**	**95.7%**	**95.7%**	**95.3%**	**97.1%**	**98.2%**

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	104.0	95.0	108.0	104.0	105.0	101.0	102.0	97.0
Total Key personnel	106.0	101.0	110.0	107.0	107.0	108.0	102.0	97.0
Indicator value	**98.1%**	**94.1%**	**98.2%**	**97.2%**	**98.1%**	**93.5%**	**100.0%**	**100.0%**

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	503	504	560	532	532	532	569	532
Total sirens-tests	504	504	560	532	532	532	570	532
Indicator value	**99.7%**	**99.8%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

2Q/2008 Performance Indicators

Licensee's General Comments: A revision to previously submitted data is included in this Change File. An e-mail from INPO dated 05/02/2008 to industry EPIX coordinators identified a potential problem where Licensees may not have accurately setup device records for Emergency Diesel Generator (EDG) output breakers (non-monitored components in MSPI). Upon review of past output breaker failures at Brunswick, it was determined that one failure met the criteria for a MSPI failure against the EDGs. Failure no. 1191 on 08/14/2004 has been re-classified in CDE as a MSPI failure, and affected the MSPI of EAC Power systems for both Unit nos. 1 and 2 for the period August 2004 through July 2007 (36 month duration). Both Unit nos. 1 and 2 were "White" from the beginning of MSPI, implemented in April 2006, through September 2007. Thus, the addition of the failure would not have made BNP go White any sooner, and the failure dropped-off in August 2007, while BNP stayed White through September 2007. A review of the MSPI data identified the worst case month for this period as December 2006, and after applying the failure, the margin to the Yellow threshold decreased from about 54% margin to 41% margin remaining to the Yellow threshold. Thus, the addition of the MSPI failure on 08/14/2004 had no affect on the color of the indicator on either Unit 1 or Unit 2 during the respective timeframe. (Reference NCR 282146).

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	3.0	0	0	0	0	0	0
Critical hours	2208.0	1723.8	1464.1	1823.9	2208.0	2209.0	2183.0	2184.0
Indicator value	**0**	**2.6**	**2.9**	**2.9**	**2.9**	**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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	1723.8	1464.1	1823.9	2208.0	2209.0	2183.0	2184.0
Indicator value	**4.1**	**0.9**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		1.0	0	0	0	0	0	0
Indicator value					**1.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	**2**	**3**	**2**	**1**	**1**	**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)	2.30E-07	3.90E-07	3.80E-07	7.00E-07	5.10E-07	8.40E-09	8.80E-09	8.90E-09
URI (ΔCDF)	1.90E-06	3.30E-06	2.20E-06	1.70E-06	1.00E-06	8.60E-08	8.50E-08	8.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.13E-06**	**3.69E-06**	**2.58E-06**	**2.40E-06**	**1.51E-06**	**9.44E-08**	**9.38E-08**	**9.39E-08**

Licensee Comments:

2Q/08: A Change File will be submitted for the re-classification of a failure on 08/14/2004 that affected the Emergency AC Power system MSPI for the period August 2004 through July 2007. The change did not affect the color of the indicator. See Change File for details.

2Q/07: Risk Cap Invoked. Added four trains/segments that include emergency bus cross-tie breakers that were previously inadvertently omitted. Unreliability data for the new segments is complete and entered, Unavailability data is not entered pending required changes to INPOs CDE software. PI color was unaffected and remains WHITE. WHITE threshold exceeded since inception of MSPI in 2Q2006 due to multiple failures and corresponding unavailability. Due to unique plant configuration, failures and unavailable hours of each diesel contribute to both Units 1 & 2.

1Q/07: Risk Cap Invoked. New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP Basis Document. EDG2 had a fail to start on 02/19/2007 due to a failed LPSCR relay. Also, an evaluation is pending for a potential MSPI failure to the Emergency AC Power system due to an E-bus cross-tie breaker found misaligned. This evaluation shall be complete prior to the end of the 2nd Quarter 2007. The MSPI for Unit 2 Emergency AC Power system remains WHITE since the 2nd Quarter of 2006.

4Q/06: Risk Cap Invoked. Emergency AC power MSPI for Unit 2 remains WHITE from the previous quarter. White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). There are currently seven MSPI failures between the four EDGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs affects both Units.

3Q/06: Risk Cap Invoked. MS06: White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). Six MSPI failures between the four DGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs is counted against both Units. Revision to previously submitted data: Changed two MSPI failures from Start Demands to Load Run Demands, #1164 on 06/06/2004 and #1215 on

11/10/2004. Revised the Estimated Start and Load Run Demands in baseline. Indicator color unaffected. Change File created.

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/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**
UAI (ΔCDF)	-1.80E-08	-1.80E-08	-1.70E-08	-2.90E-08	-2.90E-08	9.60E-08	9.20E-08	1.00E-07
URI (ΔCDF)	-6.70E-08	-7.00E-08	-6.50E-08	-6.50E-08	-6.50E-08	7.10E-08	7.10E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.50E-08**	**-8.80E-08**	**-8.20E-08**	**-9.40E-08**	**-9.40E-08**	**1.67E-07**	**1.63E-07**	**1.71E-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)	-1.20E-08	-1.20E-08	-9.50E-09	-1.00E-08	-1.00E-08	-3.60E-10	-9.90E-10	-3.40E-09
URI (ΔCDF)	-3.50E-08	-4.10E-08	-3.70E-08	5.90E-09	5.90E-09	4.10E-09	3.20E-09	2.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.70E-08**	**-5.30E-08**	**-4.65E-08**	**-4.10E-09**	**-4.10E-09**	**3.74E-09**	**2.21E-09**	**-1.10E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-1.10E-07	1.10E-07	-4.10E-07	-4.10E-07	-4.50E-07	-2.50E-08	-3.10E-08	-3.30E-08
URI (ΔCDF)	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07	-1.90E-06	-4.40E-07	-4.40E-07	-4.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**1.00E-08**	**-5.20E-07**	**-5.20E-07**	**-2.35E-06**	**-4.65E-07**	**-4.71E-07**	**-4.73E-07**

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)	2.60E-07	5.20E-07	3.30E-08	2.80E-08	4.90E-07	-4.40E-08	-1.30E-07	-1.20E-07
URI (ΔCDF)	-3.40E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.50E-07	-1.40E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.00E-08**	**1.80E-07**	**-3.17E-07**	**-3.22E-07**	**1.40E-07**	**-5.80E-08**	**-1.44E-07**	**-1.34E-07**

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	0.008971	0.007350	0.006814	0.006881	0.006710	0.007008	0.006493	0.006559	0.006114	0.003335	0.003376	0.003926
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**4.5**	**3.7**	**3.4**	**3.4**	**3.4**	**3.5**	**3.2**	**3.3**	**3.1**	**1.7**	**1.7**	**2.0**
Reactor Coolant System Activity	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum activity	0.003281	0.003647	0.003445	0.003577	0.003372	0.003388	0.003301	0.002949	0.003297	0.003530	0.003078	0.003591
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.6**	**1.8**	**1.7**	**1.8**	**1.7**	**1.7**	**1.7**	**1.5**	**1.6**	**1.8**	**1.5**	**1.8**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	2.600	2.500	2.700	2.800	3.000	4.200	3.100	3.100	3.000	2.200	2.200	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.0**	**10.8**	**11.2**	**12.0**	**16.8**	**12.4**	**12.4**	**12.0**	**8.8**	**8.8**	**8.8**

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	2.200	2.100	2.100	2.200	2.100	2.200	2.200	2.300	2.300	2.300	2.300	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.4**	**8.4**	**8.8**	**8.4**	**8.8**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**8.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	7.0	26.0	0	13.0	18.0	38.0	0	13.0
Total opportunities	7.0	28.0	0	13.0	18.0	38.0	0	14.0
Indicator value	**96.9%**	**95.7%**	**95.7%**	**95.7%**	**95.3%**	**97.1%**	**98.2%**	**97.5%**

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	95.0	108.0	104.0	105.0	101.0	102.0	97.0	95.0
Total Key personnel	101.0	110.0	107.0	107.0	108.0	102.0	97.0	95.0
Indicator value	**94.1%**	**98.2%**	**97.2%**	**98.1%**	**93.5%**	**100.0%**	**100.0%**	**100.0%**

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	504	560	532	532	532	569	532	531
Total sirens-tests	504	560	532	532	532	570	532	532
Indicator value	**99.8%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**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	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.

Brunswick 2

3Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	3.0	0	0	0	0	0	0	1.0
Critical hours	1723.8	1464.1	1823.9	2208.0	2209.0	2183.0	2184.0	2124.5
Indicator value	**2.6**	**2.9**	**2.9**	**2.9**	**0**	**0**	**0**	**0.8**

Licensee Comments:

3Q/08: Automatic reactor scram on 08/30/08 due to power load unbalance.

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	1.0	0	0
Critical hours	1723.8	1464.1	1823.9	2208.0	2209.0	2183.0	2184.0	2124.5
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value				**1.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

3Q/08: LER 1-2008-002 submitted 08/04/08 for loss of two Control Room air conditioning systems. LER 1-2008-004 submitted on 08/18/08 for Control Room emergency ventilation subsystems inoperable due to failure to isolate.

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)	3.90E-07	3.80E-07	7.00E-07	5.10E-07	8.40E-09	8.80E-09	8.90E-09	-1.00E-08
URI (ΔCDF)	3.30E-06	2.20E-06	1.70E-06	1.00E-06	8.60E-08	8.50E-08	8.50E-08	3.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.69E-06**	**2.58E-06**	**2.40E-06**	**1.51E-06**	**9.44E-08**	**9.38E-08**	**9.39E-08**	**2.40E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-1.80E-08	-1.70E-08	-2.90E-08	-2.90E-08	9.60E-08	9.20E-08	1.00E-07	1.00E-07
URI (ΔCDF)	-7.00E-08	-6.50E-08	-6.50E-08	-6.50E-08	7.10E-08	7.10E-08	7.10E-08	7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.80E-08**	**-8.20E-08**	**-9.40E-08**	**-9.40E-08**	**1.67E-07**	**1.63E-07**	**1.71E-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	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-1.20E-08	-9.50E-09	-1.00E-08	-1.00E-08	-3.60E-10	-9.90E-10	-3.40E-09	-3.40E-09
URI (ΔCDF)	-4.10E-08	-3.70E-08	5.90E-09	5.90E-09	4.10E-09	3.20E-09	2.30E-09	1.40E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.30E-08**	**-4.65E-08**	**-4.10E-09**	**-4.10E-09**	**3.74E-09**	**2.21E-09**	**-1.10E-09**	**-2.00E-09**

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)	1.10E-07	-4.10E-07	-4.10E-07	-4.50E-07	-2.50E-08	-3.10E-08	-3.30E-08	-8.70E-09
URI (ΔCDF)	-1.00E-07	-1.10E-07	-1.10E-07	-1.90E-06	-4.40E-07	-4.40E-07	-4.40E-07	-4.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.00E-08**	**-5.20E-07**	**-5.20E-07**	**-2.35E-06**	**-4.65E-07**	**-4.71E-07**	**-4.73E-07**	**-4.39E-07**

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)	5.20E-07	3.30E-08	2.80E-08	4.90E-07	-4.40E-08	-1.30E-07	-1.20E-07	-1.30E-07
URI (ΔCDF)	-3.40E-07	-3.50E-07	-3.50E-07	-3.50E-07	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.80E-07**	**-3.17E-07**	**-3.22E-07**	**1.40E-07**	**-5.80E-08**	**-1.44E-07**	**-1.34E-07**	**-1.44E-07**

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	0.006881	0.006710	0.007008	0.006493	0.006559	0.006114	0.003335	0.003376	0.003926	0.003281	0.003647	0.003445
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**3.4**	**3.4**	**3.5**	**3.2**	**3.3**	**3.1**	**1.7**	**1.7**	**2.0**	**1.6**	**1.8**	**1.7**
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	0.003577	0.003372	0.003388	0.003301	0.002949	0.003297	0.003530	0.003078	0.003591	0.003575	0.003353	0.003459
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.7**	**1.7**	**1.7**	**1.5**	**1.6**	**1.8**	**1.5**	**1.8**	**1.8**	**1.7**	**1.7**

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	2.800	3.000	4.200	3.100	3.100	3.000	2.200	2.200	2.200	2.200	2.100	2.100
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**12.0**	**16.8**	**12.4**	**12.4**	**12.0**	**8.8**	**8.8**	**8.8**	**8.8**	**8.4**	**8.4**
Reactor Coolant System Leakage	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum leakage	2.200	2.100	2.200	2.200	2.300	2.300	2.300	2.300	2.200	2.200	2.600	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.4**	**8.8**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**8.8**	**8.8**	**10.4**	**10.0**

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	26.0	0	13.0	18.0	38.0	0	13.0	21.0
Total opportunities	28.0	0	13.0	18.0	38.0	0	14.0	22.0
Indicator value	**95.7%**	**95.7%**	**95.7%**	**95.3%**	**97.1%**	**98.2%**	**97.5%**	**97.0%**

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	108.0	104.0	105.0	101.0	102.0	97.0	95.0	93.0
Total Key personnel	110.0	107.0	107.0	108.0	102.0	97.0	95.0	93.0
Indicator value	**98.2%**	**97.2%**	**98.1%**	**93.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	560	532	532	532	569	532	531	570
Total sirens-tests	560	532	532	532	570	532	532	570
Indicator value	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

4Q/2008 Performance Indicators

Licensee's General Comments: The following revisions to previously submitted data have been made: Emergency AC Power - A failure (epix #1524) from 08/20/2007 on EDG 4 was reclassified as a start/demand failure (previously classified as not an MSPI failure). A failure on 08/15/2004 (epix # 1191) was reclassified from a Failure to start to a Failure to Load. A failure on 07/24/2003 (epix # 1058) was reclassified from a Failure to start to a Failure to Load. These changes did not affect the color of the EAC Power indicator over the stated time period. Service Water - The Unit 2 planned unavailable hours reported for September 2008 for the 2A NSW pump were increased to 45.73 hours (from 45.26 hrs). This change did not affect the color of the Service Water system indicator over the stated time period.

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	1.0	1.0
Critical hours	1464.1	1823.9	2208.0	2209.0	2183.0	2184.0	2124.5	2061.5
Indicator value	**2.9**	**2.9**	**2.9**	**0**	**0**	**0**	**0.8**	**1.6**

Licensee Comments:

4Q/08: Unit 2 scram on 11/09/2008 due to a spurious opening of a safety relief valve and rising suppression pool temperatures.

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	1.0	0	0	0
Critical hours	1464.1	1823.9	2208.0	2209.0	2183.0	2184.0	2124.5	2061.5
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.8**

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

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	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	2	0
Indicator value	**2**	**1**	**1**	**0**	**0**	**0**	**2**	**2**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	3.80E-07	7.00E-07	5.10E-07	8.40E-09	8.80E-09	8.90E-09	-1.00E-08	3.80E-09
URI (ΔCDF)	2.00E-06	1.50E-06	1.70E-06	1.30E-07	1.30E-07	1.30E-07	8.00E-08	7.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.38E-06**	**2.20E-06**	**2.21E-06**	**1.38E-07**	**1.39E-07**	**1.39E-07**	**7.00E-08**	**8.28E-08**

Licensee Comments:

4Q/08: See the change file for revised input to previously submitted EAC Power system data. These changes did not affect the color of the EAC Power indicator over the stated time period.

2Q/08: A Change File will be submitted for the re-classification of a failure on 08/14/2004 that affected the Emergency AC Power system MSPI for the period August 2004 through July 2007. The change did not affect the color of the indicator. See Change File for details.

4Q/07: The baseline planned unavailability was revised in the 3rd quarter of 2007 to reflect current maintenance practices, and became effective in the 4th quarter 2007.

3Q/07: Risk Cap Invoked. WHITE threshold exceeded since 2Q2006 due to multiple failures on EDGs and asssociated Unavailability. Due to unique plant configuration, failure on any of the four EDGs adversely impacts the MSPI of both Units.

2Q/07: Risk Cap Invoked. Added four trains/segments that include emergency bus cross-tie breakers that were previously inadvertently omitted. Unreliability data for the new segments is complete and entered, Unavailability data is not entered pending required changes to INPOs CDE software. PI color was unaffected and remains WHITE. WHITE threshold exceeded since inception of MSPI in 2Q2006 due to multiple failures and corresponding unavailability. Due to unique plant configuration, failures and unavailable hours of each diesel contribute to both Units 1 & 2.

1Q/07: Risk Cap Invoked. New PRA values were entered beginning 1st Quarter 2007 based on Revision 6 to the BNP

Basis Document. EDG2 had a fail to start on 02/19/2007 due to a failed LPSCR relay. Also, an evaluation is pending for a potential MSPI failure to the Emergency AC Power system due to an E-bus cross-tie breaker found misaligned. This evaluation shall be complete prior to the end of the 2nd Quarter 2007. The MSPI for Unit 2 Emergency AC Power system remains WHITE since the 2nd Quarter of 2006.

4Q/06: Risk Cap Invoked. Emergency AC power MSPI for Unit 2 remains WHITE from the previous quarter. White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). There are currently seven MSPI failures between the four EDGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs affects both Units.

3Q/06: Risk Cap Invoked. MS06: White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). Six MSPI failures between the four DGs during the previous 36 months. Due to unique system configuration, failure on any one of four EDGs is counted against both Units. Revision to previously submitted data: Changed two MSPI failures from Start Demands to Load Run Demands, #1164 on 06/06/2004 and #1215 on 11/10/2004. Revised the Estimated Start and Load Run Demands in baseline. Indicator color unaffected. Change File created.

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	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-1.70E-08	-2.90E-08	-2.90E-08	9.60E-08	9.20E-08	1.00E-07	1.00E-07	1.40E-07
URI (ΔCDF)	-6.50E-08	-6.50E-08	-6.50E-08	7.10E-08	7.10E-08	7.10E-08	7.00E-08	7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.20E-08**	**-9.40E-08**	**-9.40E-08**	**1.67E-07**	**1.63E-07**	**1.71E-07**	**1.70E-07**	**2.10E-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/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-9.50E-09	-1.00E-08	-1.00E-08	-3.60E-10	-9.90E-10	-3.40E-09	-3.40E-09	-2.40E-09
URI (ΔCDF)	-3.70E-08	5.90E-09	5.90E-09	4.10E-09	3.20E-09	2.30E-09	1.40E-09	5.50E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.65E-08**	**-4.10E-09**	**-4.10E-09**	**3.74E-09**	**2.21E-09**	**-1.10E-09**	**-2.00E-09**	**-1.85E-09**

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)	-4.10E-07	-4.10E-07	-4.50E-07	-2.50E-08	-3.10E-08	-3.30E-08	-8.70E-09	-1.00E-08
URI (ΔCDF)	-1.10E-07	-1.10E-07	-1.90E-06	-4.40E-07	-4.40E-07	-4.40E-07	-4.30E-07	-4.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-07**	**-5.20E-07**	**-2.35E-06**	**-4.65E-07**	**-4.71E-07**	**-4.73E-07**	**-4.39E-07**	**-4.40E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	3.30E-08	2.80E-08	4.90E-07	-4.40E-08	-1.30E-07	-1.20E-07	-1.30E-07	-5.60E-08
URI (ΔCDF)	-3.50E-07	-3.50E-07	-3.50E-07	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.17E-07**	**-3.22E-07**	**1.40E-07**	**-5.80E-08**	**-1.44E-07**	**-1.34E-07**	**-1.44E-07**	**-7.00E-08**

Licensee Comments:

4Q/08: See the change file for revised input to previously submitted Service Water system data. These changes did not affect the color of the Service Water indicator over the stated time period.

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	0.006493	0.006559	0.006114	0.003335	0.003376	0.003926	0.003281	0.003647	0.003445	0.003577	0.003372	0.003388
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**3.2**	**3.3**	**3.1**	**1.7**	**1.7**	**2.0**	**1.6**	**1.8**	**1.7**	**1.8**	**1.7**	**1.7**
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	0.003301	0.002949	0.003297	0.003530	0.003078	0.003591	0.003575	0.003353	0.003459	0.003693	0.003056	0.002813
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.7**	**1.5**	**1.6**	**1.8**	**1.5**	**1.8**	**1.8**	**1.7**	**1.7**	**1.8**	**1.5**	**1.4**

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	3.100	3.100	3.000	2.200	2.200	2.200	2.200	2.100	2.100	2.200	2.100	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.4**	**12.4**	**12.0**	**8.8**	**8.8**	**8.8**	**8.8**	**8.4**	**8.4**	**8.8**	**8.4**	**8.8**
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	2.200	2.300	2.300	2.300	2.300	2.200	2.200	2.600	2.500	2.600	2.600	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**8.8**	**8.8**	**10.4**	**10.0**	**10.4**	**10.4**	**9.2**

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	0	13.0	18.0	38.0	0	13.0	21.0	58.0
Total opportunities	0	13.0	18.0	38.0	0	14.0	22.0	60.0
Indicator value	**95.7%**	**95.7%**	**95.3%**	**97.1%**	**98.2%**	**97.5%**	**97.0%**	**97.6%**

Licensee Comments: none

ERO Drill Participation

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	104.0	105.0	101.0	102.0	97.0	95.0	93.0	95.0
Total Key personnel	107.0	107.0	108.0	102.0	97.0	95.0	93.0	95.0
Indicator value	**97.2%**	**98.1%**	**93.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	532	532	532	569	532	531	570	570
Total sirens-tests	532	532	532	570	532	532	570	570
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**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	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

Brunswick 2

1Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	0	1.0	1.0	0
Critical hours	1823.9	2208.0	2209.0	2183.0	2184.0	2124.5	2061.5	1393.6
Indicator value	**2.9**	**2.9**	**0**	**0**	**0**	**0.8**	**1.6**	**1.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1823.9	2208.0	2209.0	2183.0	2184.0	2124.5	2061.5	1393.6
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.8**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value		**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	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	2	0	2
Indicator value	**1**	**1**	**0**	**0**	**0**	**2**	**2**	**4**

Licensee Comments:

1Q/09: LER 1-2009-001 dated 03/22/2009 due to loss of Control Room air conditioning and emergency ventilation system. LER 2-2009-001 dated 03/29/2009 due to HPCI inoperable from water in HPCI turbine casing.

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)	7.00E-07	5.10E-07	8.40E-09	8.80E-09	8.90E-09	-1.00E-08	3.80E-09	1.50E-08
URI (ΔCDF)	1.50E-06	1.70E-06	1.30E-07	1.30E-07	1.30E-07	8.00E-08	7.90E-08	7.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-06**	**2.21E-06**	**1.38E-07**	**1.39E-07**	**1.39E-07**	**7.00E-08**	**8.28E-08**	**9.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-2.90E-08	-2.90E-08	9.60E-08	9.20E-08	1.00E-07	1.00E-07	1.40E-07	1.40E-07
URI (ΔCDF)	-6.50E-08	-6.50E-08	7.10E-08	7.10E-08	7.10E-08	7.00E-08	7.00E-08	7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.40E-08**	**-9.40E-08**	**1.67E-07**	**1.63E-07**	**1.71E-07**	**1.70E-07**	**2.10E-07**	**2.10E-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/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.00E-08	-1.00E-08	-3.60E-10	-9.90E-10	-3.40E-09	-3.40E-09	-2.40E-09	-3.60E-09
URI (ΔCDF)	5.90E-09	5.90E-09	4.10E-09	3.20E-09	2.30E-09	1.40E-09	5.50E-10	-2.70E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.10E-09**	**-4.10E-09**	**3.74E-09**	**2.21E-09**	**-1.10E-09**	**-2.00E-09**	**-1.85E-09**	**-3.87E-09**

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)	-4.10E-07	-4.50E-07	-2.50E-08	-3.10E-08	-3.30E-08	-8.70E-09	-1.00E-08	5.00E-09
URI (ΔCDF)	-1.10E-07	-1.90E-06	-4.40E-07	-4.40E-07	-4.40E-07	-4.30E-07	-4.30E-07	-4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-07**	**-2.35E-06**	**-4.65E-07**	**-4.71E-07**	**-4.73E-07**	**-4.39E-07**	**-4.40E-07**	**-4.15E-07**

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)	2.80E-08	4.90E-07	-4.40E-08	-1.30E-07	-1.20E-07	-1.30E-07	-5.60E-08	-1.20E-08
URI (ΔCDF)	-3.50E-07	-3.50E-07	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.22E-07**	**1.40E-07**	**-5.80E-08**	**-1.44E-07**	**-1.34E-07**	**-1.44E-07**	**-7.00E-08**	**-2.70E-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	0.003335	0.003376	0.003926	0.003281	0.003647	0.003445	0.003577	0.003372	0.003388	0.003301	0.002949	0.003297
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.7**	**1.7**	**2.0**	**1.6**	**1.8**	**1.7**	**1.8**	**1.7**	**1.7**	**1.7**	**1.5**	**1.6**

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	0.003530	0.003078	0.003591	0.003575	0.003353	0.003459	0.003693	0.003056	0.002813	0.002778	0.002810	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.5**	**1.8**	**1.8**	**1.7**	**1.7**	**1.8**	**1.5**	**1.4**	**1.4**	**1.4**	**N/A**

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	2.200	2.200	2.200	2.200	2.100	2.100	2.200	2.100	2.200	2.200	2.300	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.8**	**8.8**	**8.8**	**8.4**	**8.4**	**8.8**	**8.4**	**8.8**	**8.8**	**9.2**	**9.2**
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	2.300	2.300	2.200	2.200	2.600	2.500	2.600	2.600	2.300	2.500	2.400	N/A
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.2**	**9.2**	**8.8**	**8.8**	**10.4**	**10.0**	**10.4**	**10.4**	**9.2**	**10.0**	**9.6**	**N/A**

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	13.0	18.0	38.0	0	13.0	21.0	58.0	0
Total opportunities	13.0	18.0	38.0	0	14.0	22.0	60.0	0
Indicator value	**95.7%**	**95.3%**	**97.1%**	**98.2%**	**97.5%**	**97.0%**	**97.6%**	**97.6%**

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	105.0	101.0	102.0	97.0	95.0	93.0	95.0	92.0
Total Key personnel	107.0	108.0	102.0	97.0	95.0	93.0	95.0	92.0
Indicator value	**98.1%**	**93.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	532	532	569	532	531	570	570	532
Total sirens-tests	532	532	570	532	532	570	570	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**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	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

Brunswick 2

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	1.0	1.0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2124.5	2061.5	1393.6	1572.1
Indicator value	**2.9**	**0**	**0**	**0**	**0.8**	**1.6**	**1.8**	**2.0**

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	1.0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2183.0	2184.0	2124.5	2061.5	1393.6	1572.1
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.8**	**0**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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)	5.10E-07	8.40E-09	8.80E-09	8.90E-09	-1.00E-08	3.80E-09	1.50E-08	1.50E-08
URI (ΔCDF)	1.70E-06	1.30E-07	1.30E-07	1.30E-07	8.00E-08	7.90E-08	7.80E-08	1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.21E-06**	**1.38E-07**	**1.39E-07**	**1.39E-07**	**7.00E-08**	**8.28E-08**	**9.30E-08**	**1.35E-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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-2.90E-08	9.60E-08	9.20E-08	1.00E-07	1.00E-07	1.40E-07	1.40E-07	1.50E-07
URI (ΔCDF)	-6.50E-08	7.10E-08	7.10E-08	7.10E-08	7.00E-08	7.00E-08	7.00E-08	7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.40E-08**	**1.67E-07**	**1.63E-07**	**1.71E-07**	**1.70E-07**	**2.10E-07**	**2.10E-07**	**2.20E-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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-1.00E-08	-3.60E-10	-9.90E-10	-3.40E-09	-3.40E-09	-2.40E-09	-3.60E-09	1.10E-09
URI (ΔCDF)	5.90E-09	4.10E-09	3.20E-09	2.30E-09	1.40E-09	5.50E-10	-2.70E-10	-1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.10E-09**	**3.74E-09**	**2.21E-09**	**-1.10E-09**	**-2.00E-09**	**-1.85E-09**	**-3.87E-09**	**0.00E+00**

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)	-4.50E-07	-2.50E-08	-3.10E-08	-3.30E-08	-8.70E-09	-1.00E-08	5.00E-09	3.20E-08
URI (ΔCDF)	-1.90E-06	-4.40E-07	-4.40E-07	-4.40E-07	-4.30E-07	-4.30E-07	-4.20E-07	-4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.35E-06**	**-4.65E-07**	**-4.71E-07**	**-4.73E-07**	**-4.39E-07**	**-4.40E-07**	**-4.15E-07**	**-3.88E-07**

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)	4.90E-07	-4.40E-08	-1.30E-07	-1.20E-07	-1.30E-07	-5.60E-08	-1.20E-08	-5.40E-09
URI (ΔCDF)	-3.50E-07	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-07**	**-5.80E-08**	**-1.44E-07**	**-1.34E-07**	**-1.44E-07**	**-7.00E-08**	**-2.70E-08**	**-2.04E-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	0.003281	0.003647	0.003445	0.003577	0.003372	0.003388	0.003301	0.002949	0.003297	0.003530	0.003078	0.003591
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.6**	**1.8**	**1.7**	**1.8**	**1.7**	**1.7**	**1.7**	**1.5**	**1.6**	**1.8**	**1.5**	**1.8**

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	0.003575	0.003353	0.003459	0.003693	0.003056	0.002813	0.002778	0.002810	N/A	N/A	0.000859	0.000967
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.7**	**1.7**	**1.8**	**1.5**	**1.4**	**1.4**	**1.4**	**N/A**	**N/A**	**0.4**	**0.5**

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	2.200	2.100	2.100	2.200	2.100	2.200	2.200	2.300	2.300	2.300	2.300	2.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.4**	**8.4**	**8.8**	**8.4**	**8.8**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**8.8**
Reactor Coolant System Leakage	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	2.200	2.600	2.500	2.600	2.600	2.300	2.500	2.400	N/A	2.600	3.100	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**10.4**	**10.0**	**10.4**	**10.4**	**9.2**	**10.0**	**9.6**	**N/A**	**10.4**	**12.4**	**12.0**

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	18.0	38.0	0	13.0	21.0	58.0	0	27.0
Total opportunities	18.0	38.0	0	14.0	22.0	60.0	0	27.0
Indicator value	**95.3%**	**97.1%**	**98.2%**	**97.5%**	**97.0%**	**97.6%**	**97.6%**	**97.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	101.0	102.0	97.0	95.0	93.0	95.0	92.0	97.0
Total Key personnel	108.0	102.0	97.0	95.0	93.0	95.0	92.0	97.0
Indicator value	**93.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	532	569	532	531	570	570	532	532
Total sirens-tests	532	570	532	532	570	570	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

3Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	1.0	1.0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2124.5	2061.5	1393.6	1572.1	1994.1
Indicator value	**0**	**0**	**0**	**0.8**	**1.6**	**1.8**	**2.0**	**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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	1.0	0	0	0	0	1.0	1.0
Critical hours	2209.0	2183.0	2184.0	2124.5	2061.5	1393.6	1572.1	1994.1
Indicator value	**0**	**0.8**	**0.8**	**0.8**	**0.8**	**0**	**1.0**	**2.0**

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 (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	8.40E-09	8.80E-09	8.90E-09	-1.00E-08	3.80E-09	1.50E-08	1.50E-08	4.80E-08
URI (ΔCDF)	1.30E-07	1.30E-07	1.30E-07	8.00E-08	7.90E-08	7.80E-08	1.20E-07	9.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.38E-07**	**1.39E-07**	**1.39E-07**	**7.00E-08**	**8.28E-08**	**9.30E-08**	**1.35E-07**	**1.41E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	9.60E-08	9.20E-08	1.00E-07	1.00E-07	1.40E-07	1.40E-07	1.50E-07	1.70E-07
URI (ΔCDF)	7.10E-08	7.10E-08	7.10E-08	7.00E-08	7.00E-08	7.00E-08	7.00E-08	7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.67E-07**	**1.63E-07**	**1.71E-07**	**1.70E-07**	**2.10E-07**	**2.10E-07**	**2.20E-07**	**2.40E-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	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-3.60E-10	-9.90E-10	-3.40E-09	-3.40E-09	-2.40E-09	-3.60E-09	1.10E-09	-6.60E-10
URI (ΔCDF)	4.10E-09	3.20E-09	2.30E-09	1.40E-09	5.50E-10	-2.70E-10	-1.10E-09	-1.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.74E-09**	**2.21E-09**	**-1.10E-09**	**-2.00E-09**	**-1.85E-09**	**-3.87E-09**	**0.00E+00**	**-2.46E-09**

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)	-2.50E-08	-3.10E-08	-3.30E-08	-8.70E-09	-1.00E-08	5.00E-09	3.20E-08	1.30E-07
URI (ΔCDF)	-4.40E-07	-4.40E-07	-4.40E-07	-4.30E-07	-4.30E-07	-4.20E-07	-4.20E-07	-4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.65E-07**	**-4.71E-07**	**-4.73E-07**	**-4.39E-07**	**-4.40E-07**	**-4.15E-07**	**-3.88E-07**	**-2.90E-07**

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)	-4.40E-08	-1.30E-07	-1.20E-07	-1.30E-07	-5.60E-08	-1.20E-08	-5.40E-09	-1.10E-10
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-1.44E-07**	**-1.34E-07**	**-1.44E-07**	**-7.00E-08**	**-2.70E-08**	**-2.04E-08**	**-1.61E-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	0.003577	0.003372	0.003388	0.003301	0.002949	0.003297	0.003530	0.003078	0.003591	0.003575	0.003353	0.003459
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.7**	**1.7**	**1.7**	**1.5**	**1.6**	**1.8**	**1.5**	**1.8**	**1.8**	**1.7**	**1.7**

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	0.003693	0.003056	0.002813	0.002778	0.002810	N/A	N/A	0.000859	0.000967	0.000931	0.000886	0.000791
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.5**	**1.4**	**1.4**	**1.4**	**N/A**	**N/A**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**

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	2.200	2.100	2.200	2.200	2.300	2.300	2.300	2.300	2.200	2.200	2.600	2.500
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**8.4**	**8.8**	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**8.8**	**8.8**	**10.4**	**10.0**
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	2.600	2.600	2.300	2.500	2.400	N/A	2.600	3.100	3.000	2.400	2.400	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.4**	**9.2**	**10.0**	**9.6**	**N/A**	**10.4**	**12.4**	**12.0**	**9.6**	**9.6**	**9.6**

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	38.0	0	13.0	21.0	58.0	0	27.0	16.0
Total opportunities	38.0	0	14.0	22.0	60.0	0	27.0	16.0
Indicator value	**97.1%**	**98.2%**	**97.5%**	**97.0%**	**97.6%**	**97.6%**	**97.8%**	**97.7%**

Licensee Comments: none

ERO Drill Participation

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	102.0	97.0	95.0	93.0	95.0	92.0	97.0	102.0
Total Key personnel	102.0	97.0	95.0	93.0	95.0	92.0	97.0	102.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	569	532	531	570	570	532	532	531
Total sirens-tests	570	532	532	570	570	532	532	532
Indicator value	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/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

Brunswick 2

4Q/2009 Performance Indicators

Licensee's General Comments: A Change File for HPCI is required due to the addition of Failure #1679, that was not reported from January 2009 (failure of HPCI barometric condenser condensate pump). This additional failure resulted in under-reporting of MSPI from 2.4E-7 to 3.8E-7 (for the worst case month). The color for HPCI remained Green over this period. A Change File for RCIC is required this quarter due to the addition of missed Unavailability hours from 0PT-10.1.1, which added approximately 1 hour per quarter since the 2nd quarter 2008. The reported MSPI values for RCIC did not change over this time period and the color remained Green.

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	1.0	1.0	0	0	0	0
Critical hours	2183.0	2184.0	2124.5	2061.5	1393.6	1572.1	1994.1	2209.0
Indicator value	**0**	**0**	**0.8**	**1.6**	**1.8**	**2.0**	**1.0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	1.0	0	0	0	0	1.0	1.0	2.0
Critical hours	2183.0	2184.0	2124.5	2061.5	1393.6	1572.1	1994.1	2209.0
Indicator value	**0.8**	**0.8**	**0.8**	**0.8**	**0**	**1.0**	**2.0**	**3.9**

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 (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	8.80E-09	8.90E-09	-1.00E-08	3.80E-09	1.50E-08	1.50E-08	4.80E-08	4.50E-08
URI (ΔCDF)	1.30E-07	1.30E-07	8.00E-08	7.90E-08	7.80E-08	1.20E-07	9.30E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.39E-07**	**1.39E-07**	**7.00E-08**	**8.28E-08**	**9.30E-08**	**1.35E-07**	**1.41E-07**	**2.40E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	9.20E-08	1.00E-07	1.00E-07	1.40E-07	1.40E-07	1.50E-07	1.70E-07	1.60E-07
URI (ΔCDF)	7.10E-08	7.10E-08	7.00E-08	7.00E-08	2.10E-07	2.10E-07	2.10E-07	2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.63E-07**	**1.71E-07**	**1.70E-07**	**2.10E-07**	**3.50E-07**	**3.60E-07**	**3.80E-07**	**3.80E-07**

Licensee Comments:

4Q/09: Revision to previously submitted data: A demand failure from January 27, 2009, was previously omitted and has now been classified as an MSPI failure (failure of the HPCI barometric condenser condensate pump). This change did not affect the color of the indicator and it remains Green, with greater than 60% margin remaining in the band.

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)	-9.90E-10	-3.30E-09	-3.20E-09	-2.10E-09	-3.10E-09	1.80E-09	2.50E-10	1.20E-10
URI (ΔCDF)	3.20E-09	2.30E-09	1.40E-09	5.50E-10	-2.70E-10	-1.10E-09	-1.80E-09	8.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.21E-09**	**-1.00E-09**	**-1.80E-09**	**-1.55E-09**	**-3.37E-09**	**7.00E-10**	**-1.55E-09**	**8.22E-09**

Licensee Comments:

4Q/09: Revision to previously submitted data: Unit 1 and Unit 2 RCIC required the addition of unavailable hours due to not reporting the performance of 0PT-10.1.1. This added approximately 1 hour of planned unavailability per quarter beginning the 2nd quarter of 2008. This resulted in no change to the reported MSPI for this time period.

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)	-3.10E-08	-3.30E-08	-8.70E-09	-1.00E-08	5.00E-09	3.20E-08	1.30E-07	1.30E-07
URI (ΔCDF)	-4.40E-07	-4.40E-07	-4.30E-07	-4.30E-07	-4.20E-07	-4.20E-07	-4.20E-07	-4.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.71E-07**	**-4.73E-07**	**-4.39E-07**	**-4.40E-07**	**-4.15E-07**	**-3.88E-07**	**-2.90E-07**	**-2.80E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-1.30E-07	-1.20E-07	-1.30E-07	-5.60E-08	-1.20E-08	-5.40E-09	-1.10E-10	-3.60E-08
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.44E-07**	**-1.34E-07**	**-1.44E-07**	**-7.00E-08**	**-2.70E-08**	**-2.04E-08**	**-1.61E-08**	**-5.20E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.003301	0.002949	0.003297	0.003530	0.003078	0.003591	0.003575	0.003353	0.003459	0.003693	0.003056	0.002813
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.7**	**1.5**	**1.6**	**1.8**	**1.5**	**1.8**	**1.8**	**1.7**	**1.7**	**1.8**	**1.5**	**1.4**

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	0.002778	0.002810	N/A	N/A	0.000859	0.000967	0.000931	0.000886	0.000791	0.000905	0.000908	0.000917
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.4**	**1.4**	**N/A**	**N/A**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	2.200	2.300	2.300	2.300	2.300	2.200	2.200	2.600	2.500	2.600	2.600	2.300
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**9.2**	**9.2**	**9.2**	**9.2**	**8.8**	**8.8**	**10.4**	**10.0**	**10.4**	**10.4**	**9.2**
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	2.500	2.400	N/A	2.600	3.100	3.000	2.400	2.400	2.400	3.000	2.600	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.0**	**9.6**	**N/A**	**10.4**	**12.4**	**12.0**	**9.6**	**9.6**	**9.6**	**12.0**	**10.4**	**10.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	0	13.0	21.0	58.0	0	27.0	16.0	39.0
Total opportunities	0	14.0	22.0	60.0	0	27.0	16.0	39.0
Indicator value	**98.2%**	**97.5%**	**97.0%**	**97.6%**	**97.6%**	**97.8%**	**97.7%**	**97.8%**

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	97.0	95.0	93.0	95.0	92.0	97.0	102.0	97.0
Total Key personnel	97.0	95.0	93.0	95.0	92.0	97.0	102.0	97.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	532	531	570	570	532	532	531	570
Total sirens-tests	532	532	570	570	532	532	532	570
Indicator value	**100.0%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

1Q/2010 Performance Indicators

Licensee's General Comments: Brunswick's Basis Document, BNP-PSA-069, was revised in December 2009. The resulting changes to the MSPI coefficients were entered into CDE and became effective January 1, 2010 (for 1st quarter report). Changes occurred on each of the five MSPI systems, and were a result of changes in on-line maintenance and preventive maintenance practices from previous baseline years. These changes include increased reviews and verifications from both Maintenance and Operations to help prevent human performance errors, additional online work scope to improve equipment reliability, and scheduled low frequency evolutions. These infrequent evolutions include EDG overhaul PMs, 6-year maintenance surveillance tests, and RHR heat exchanger cleanings for both A and B loops.

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	1.0	1.0	0	0	0	0	0
Critical hours	2184.0	2124.5	2061.5	1393.6	1572.1	1994.1	2209.0	2073.5
Indicator value	**0**	**0.8**	**1.6**	**1.8**	**2.0**	**1.0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	1.0	1.0	2.0	1.0
Critical hours	2184.0	2124.5	2061.5	1393.6	1572.1	1994.1	2209.0	2073.5
Indicator value	**0.8**	**0.8**	**0.8**	**0**	**1.0**	**2.0**	**3.9**	**4.5**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	2	0	2	0	0	0	0
Indicator value	**0**	**2**	**2**	**4**	**4**	**2**	**2**	**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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	8.90E-09	-1.00E-08	3.80E-09	1.50E-08	1.50E-08	4.80E-08	4.50E-08	4.35E-09
URI (ΔCDF)	1.30E-07	8.00E-08	7.90E-08	7.80E-08	1.20E-07	9.30E-08	-2.10E-08	-4.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.39E-07**	**7.00E-08**	**8.28E-08**	**9.30E-08**	**1.35E-07**	**1.41E-07**	**2.40E-08**	**-4.30E-08**

Licensee Comments:

1Q/10: INPOs CDE software for Brunswick was updated in January 2010 by adding cross-tie breakers E3-E1 and E4-E2 as separate trains/segments in the EAC Power MSPI system.

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)	1.00E-07	1.00E-07	1.40E-07	1.40E-07	1.50E-07	1.70E-07	1.60E-07	1.08E-07
URI (ΔCDF)	7.10E-08	7.00E-08	7.00E-08	2.10E-07	2.10E-07	2.10E-07	2.20E-07	2.22E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.71E-07**	**1.70E-07**	**2.10E-07**	**3.50E-07**	**3.60E-07**	**3.80E-07**	**3.80E-07**	**3.30E-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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-3.30E-09	-3.20E-09	-2.10E-09	-3.10E-09	1.80E-09	2.50E-10	1.20E-10	-1.80E-09
URI (ΔCDF)	2.30E-09	1.40E-09	5.50E-10	-2.70E-10	-1.10E-09	-1.80E-09	8.10E-09	6.27E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-09**	**-1.80E-09**	**-1.55E-09**	**-3.37E-09**	**7.00E-10**	**-1.55E-09**	**8.22E-09**	**4.50E-09**

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)	-3.30E-08	-8.70E-09	-1.00E-08	5.00E-09	3.20E-08	1.30E-07	1.30E-07	-2.05E-08
URI (ΔCDF)	-4.40E-07	-4.30E-07	-4.30E-07	-4.20E-07	-4.20E-07	-4.20E-07	-4.10E-07	-4.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.73E-07**	**-4.39E-07**	**-4.40E-07**	**-4.15E-07**	**-3.88E-07**	**-2.90E-07**	**-2.80E-07**	**-4.20E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-1.20E-07	-1.30E-07	-5.60E-08	-1.20E-08	-5.40E-09	-1.10E-10	-3.60E-08	-5.47E-08
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.34E-07**	**-1.44E-07**	**-7.00E-08**	**-2.70E-08**	**-2.04E-08**	**-1.61E-08**	**-5.20E-08**	**-7.10E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum activity	0.003530	0.003078	0.003591	0.003575	0.003353	0.003459	0.003693	0.003056	0.002813	0.002778	0.002810	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.5**	**1.8**	**1.8**	**1.7**	**1.7**	**1.8**	**1.5**	**1.4**	**1.4**	**1.4**	**N/A**

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	N/A	0.000859	0.000967	0.000931	0.000886	0.000791	0.000905	0.000908	0.000917	0.000954	0.001015	0.000874
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**

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	2.300	2.300	2.200	2.200	2.600	2.500	2.600	2.600	2.300	2.500	2.400	N/A
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.2**	**9.2**	**8.8**	**8.8**	**10.4**	**10.0**	**10.4**	**10.4**	**9.2**	**10.0**	**9.6**	**N/A**
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	2.600	3.100	3.000	2.400	2.400	2.400	3.000	2.600	2.600	2.900	3.100	2.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**12.4**	**12.0**	**9.6**	**9.6**	**9.6**	**12.0**	**10.4**	**10.4**	**11.6**	**12.4**	**11.6**

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	13.0	21.0	58.0	0	27.0	16.0	39.0	4.0
Total opportunities	14.0	22.0	60.0	0	27.0	16.0	39.0	4.0
Indicator value	**97.5%**	**97.0%**	**97.6%**	**97.6%**	**97.8%**	**97.7%**	**97.8%**	**97.8%**

Licensee Comments: none

ERO Drill Participation

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	95.0	93.0	95.0	92.0	97.0	102.0	97.0	95.0
Total Key personnel	95.0	93.0	95.0	92.0	97.0	102.0	97.0	95.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	531	570	570	532	532	531	570	532
Total sirens-tests	532	570	570	532	532	532	570	532
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

2Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	1.0	1.0	0	0	0	0	0	0
Critical hours	2124.5	2061.5	1393.6	1572.1	1994.1	2209.0	2073.5	2184.0
Indicator value	**0.8**	**1.6**	**1.8**	**2.0**	**1.0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	1.0	1.0	2.0	1.0	1.0
Critical hours	2124.5	2061.5	1393.6	1572.1	1994.1	2209.0	2073.5	2184.0
Indicator value	**0.8**	**0.8**	**0**	**1.0**	**2.0**	**3.9**	**4.5**	**4.1**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	2	0	2	0	0	0	0	0
Indicator value	**2**	**2**	**4**	**4**	**2**	**2**	**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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-1.00E-08	3.80E-09	1.50E-08	1.50E-08	4.80E-08	4.50E-08	4.35E-09	-5.22E-10
URI (ΔCDF)	8.00E-08	7.90E-08	7.80E-08	1.20E-07	9.30E-08	-2.10E-08	-4.70E-08	-4.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-08**	**8.28E-08**	**9.30E-08**	**1.35E-07**	**1.41E-07**	**2.40E-08**	**-4.30E-08**	**-4.90E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.00E-07	1.40E-07	1.40E-07	1.50E-07	1.70E-07	1.60E-07	1.08E-07	1.02E-07
URI (ΔCDF)	7.00E-08	7.00E-08	2.10E-07	2.10E-07	2.10E-07	2.20E-07	2.22E-07	2.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-07**	**2.10E-07**	**3.50E-07**	**3.60E-07**	**3.80E-07**	**3.80E-07**	**3.30E-07**	**3.20E-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)	-3.20E-09	-2.10E-09	-3.10E-09	1.80E-09	2.50E-10	1.20E-10	-1.80E-09	-2.13E-09
URI (ΔCDF)	1.40E-09	5.50E-10	-2.70E-10	-1.10E-09	-1.80E-09	8.10E-09	6.27E-09	-3.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-09**	**-1.55E-09**	**-3.37E-09**	**7.00E-10**	**-1.55E-09**	**8.22E-09**	**4.50E-09**	**-3.50E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-8.70E-09	-1.00E-08	5.00E-09	3.20E-08	1.30E-07	1.30E-07	-2.05E-08	-2.18E-08
URI (ΔCDF)	-4.30E-07	-4.30E-07	-4.20E-07	-4.20E-07	-4.20E-07	-4.10E-07	-4.04E-07	-3.95E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.39E-07**	**-4.40E-07**	**-4.15E-07**	**-3.88E-07**	**-2.90E-07**	**-2.80E-07**	**-4.20E-07**	**-4.20E-07**

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)	-1.30E-07	-5.60E-08	-1.20E-08	-5.40E-09	-1.10E-10	-3.60E-08	-5.47E-08	-5.71E-08
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.44E-07**	**-7.00E-08**	**-2.70E-08**	**-2.04E-08**	**-1.61E-08**	**-5.20E-08**	**-7.10E-08**	**-7.30E-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	0.003575	0.003353	0.003459	0.003693	0.003056	0.002813	0.002778	0.002810	N/A	N/A	0.000859	0.000967
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.7**	**1.7**	**1.8**	**1.5**	**1.4**	**1.4**	**1.4**	**N/A**	**N/A**	**0.4**	**0.5**

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	0.000931	0.000886	0.000791	0.000905	0.000908	0.000917	0.000954	0.001015	0.000874	0.000963	0.000920	0.000951
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**

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	2.200	2.600	2.500	2.600	2.600	2.300	2.500	2.400	N/A	2.600	3.100	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.8**	**10.4**	**10.0**	**10.4**	**10.4**	**9.2**	**10.0**	**9.6**	**N/A**	**10.4**	**12.4**	**12.0**
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	2.400	2.400	2.400	3.000	2.600	2.600	2.900	3.100	2.900	2.800	2.700	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.6**	**9.6**	**9.6**	**12.0**	**10.4**	**10.4**	**11.6**	**12.4**	**11.6**	**11.2**	**10.8**	**10.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	21.0	58.0	0	27.0	16.0	39.0	4.0	30.0
Total opportunities	22.0	60.0	0	27.0	16.0	39.0	4.0	32.0
Indicator value	**97.0%**	**97.6%**	**97.6%**	**97.8%**	**97.7%**	**97.8%**	**97.8%**	**97.5%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	93.0	95.0	92.0	97.0	102.0	97.0	95.0	98.0
Total Key personnel	93.0	95.0	92.0	97.0	102.0	97.0	95.0	98.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	570	570	532	532	531	570	532	532
Total sirens-tests	570	570	532	532	532	570	532	532
Indicator value	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

3Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2061.5	1393.6	1572.1	1994.1	2209.0	2073.5	2184.0	2208.0
Indicator value	**1.6**	**1.8**	**2.0**	**1.0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	1.0	1.0	2.0	1.0	1.0	0
Critical hours	2061.5	1393.6	1572.1	1994.1	2209.0	2073.5	2184.0	2208.0
Indicator value	**0.8**	**0**	**1.0**	**2.0**	**3.9**	**4.5**	**4.1**	**3.2**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	2	0	0	0	0	0	0
Indicator value	**2**	**4**	**4**	**2**	**2**	**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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	3.80E-09	1.50E-08	1.50E-08	4.80E-08	4.50E-08	4.35E-09	-5.22E-10	2.27E-09
URI (ΔCDF)	7.90E-08	7.80E-08	1.20E-07	9.30E-08	-2.10E-08	-4.70E-08	-4.81E-08	3.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.28E-08**	**9.30E-08**	**1.35E-07**	**1.41E-07**	**2.40E-08**	**-4.30E-08**	**-4.90E-08**	**3.70E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	1.40E-07	1.40E-07	1.50E-07	1.70E-07	1.60E-07	1.08E-07	1.02E-07	1.10E-07
URI (ΔCDF)	7.00E-08	2.10E-07	2.10E-07	2.10E-07	2.20E-07	2.22E-07	2.21E-07	2.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-07**	**3.50E-07**	**3.60E-07**	**3.80E-07**	**3.80E-07**	**3.30E-07**	**3.20E-07**	**3.30E-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	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-2.10E-09	-3.10E-09	1.80E-09	2.50E-10	1.20E-10	-1.80E-09	-2.13E-09	-6.12E-10
URI (ΔCDF)	5.50E-10	-2.70E-10	-1.10E-09	-1.80E-09	8.10E-09	6.27E-09	-3.32E-08	-3.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.55E-09**	**-3.37E-09**	**7.00E-10**	**-1.55E-09**	**8.22E-09**	**4.50E-09**	**-3.50E-08**	**-3.40E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-1.00E-08	5.00E-09	3.20E-08	1.30E-07	1.30E-07	-2.05E-08	-2.18E-08	-2.18E-08
URI (ΔCDF)	-4.30E-07	-4.20E-07	-4.20E-07	-4.20E-07	-4.10E-07	-4.04E-07	-3.95E-07	-3.84E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-07**	**-4.15E-07**	**-3.88E-07**	**-2.90E-07**	**-2.80E-07**	**-4.20E-07**	**-4.20E-07**	**-4.10E-07**

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)	-5.60E-08	-1.20E-08	-5.40E-09	-1.10E-10	-3.60E-08	-5.47E-08	-5.71E-08	5.61E-08
URI (ΔCDF)	-1.40E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.62E-08	-7.69E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.00E-08**	**-2.70E-08**	**-2.04E-08**	**-1.61E-08**	**-5.20E-08**	**-7.10E-08**	**-7.30E-08**	**4.80E-08**

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	0.003693	0.003056	0.002813	0.002778	0.002810	N/A	N/A	0.000859	0.000967	0.000931	0.000886	0.000791
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.8**	**1.5**	**1.4**	**1.4**	**1.4**	**N/A**	**N/A**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**

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	0.000905	0.000908	0.000917	0.000954	0.001015	0.000874	0.000963	0.000920	0.000951	0.000979	0.000944	0.001097
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**

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	2.600	2.600	2.300	2.500	2.400	N/A	2.600	3.100	3.000	2.400	2.400	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**10.4**	**9.2**	**10.0**	**9.6**	**N/A**	**10.4**	**12.4**	**12.0**	**9.6**	**9.6**	**9.6**
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	3.000	2.600	2.600	2.900	3.100	2.900	2.800	2.700	2.600	2.800	3.200	3.350
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.0**	**10.4**	**10.4**	**11.6**	**12.4**	**11.6**	**11.2**	**10.8**	**10.4**	**11.2**	**12.8**	**13.4**

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	58.0	0	27.0	16.0	39.0	4.0	30.0	50.0
Total opportunities	60.0	0	27.0	16.0	39.0	4.0	32.0	50.0
Indicator value	**97.6%**	**97.6%**	**97.8%**	**97.7%**	**97.8%**	**97.8%**	**97.5%**	**98.2%**

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	95.0	92.0	97.0	102.0	97.0	95.0	98.0	109.0
Total Key personnel	95.0	92.0	97.0	102.0	97.0	95.0	98.0	109.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	570	532	532	531	570	532	532	532
Total sirens-tests	570	532	532	532	570	532	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/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

Brunswick 2

4Q/2010 Performance Indicators

Licensee's General Comments: A revision to previously submitted data has been made. It was identified in the 4th quarter that unavailability due to the performance of a PT was missed as follows: 4.15 hours in June 2010 to EDG4, 2.92 hours in July 2010 to EDG1, and 2.28 hours in September 2010 to DG3. The addition of these hours had negligible effect on the MSPI, and does not affect the color of the indicator.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1393.6	1572.1	1994.1	2209.0	2073.5	2184.0	2208.0	2209.0
Indicator value	**1.8**	**2.0**	**1.0**	**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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	1.0	1.0	2.0	1.0	1.0	0	1.0
Critical hours	1393.6	1572.1	1994.1	2209.0	2073.5	2184.0	2208.0	2209.0
Indicator value	**0**	**1.0**	**2.0**	**3.9**	**4.5**	**4.1**	**3.2**	**2.4**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	2	0	0	0	0	0	0	0
Indicator value	**4**	**4**	**2**	**2**	**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/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	1.50E-08	1.50E-08	4.80E-08	4.50E-08	4.35E-09	-5.22E-10	2.43E-09	-9.92E-11
URI (ΔCDF)	7.80E-08	1.20E-07	9.30E-08	-2.10E-08	-4.70E-08	-4.81E-08	3.46E-08	3.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.30E-08**	**1.35E-07**	**1.41E-07**	**2.40E-08**	**-4.30E-08**	**-4.90E-08**	**3.70E-08**	**3.40E-08**

Licensee Comments:

4Q/10: A revision to previously submitted data has been made. It was identified in the 4th quarter that unavailability due to the performance of a PT was missed as follows: 4.15 hours in June 2010 to EDG4, 2.92 hours in July 2010 to EDG1, and 2.28 hours in September 2010 to DG3. The addition of these hours had negligible effect on the MSPI, and does not affect the color of the indicator.

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)	1.40E-07	1.50E-07	1.70E-07	1.60E-07	1.08E-07	1.02E-07	1.10E-07	2.93E-09
URI (ΔCDF)	2.10E-07	2.10E-07	2.10E-07	2.20E-07	2.22E-07	2.21E-07	2.21E-07	7.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.50E-07**	**3.60E-07**	**3.80E-07**	**3.80E-07**	**3.30E-07**	**3.20E-07**	**3.30E-07**	**8.20E-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/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-3.10E-09	1.80E-09	2.50E-10	1.20E-10	-1.80E-09	-2.13E-09	-6.12E-10	-7.57E-09
URI (ΔCDF)	-2.70E-10	-1.10E-09	-1.80E-09	8.10E-09	6.27E-09	-3.32E-08	-3.37E-08	-3.39E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.37E-09**	**7.00E-10**	**-1.55E-09**	**8.22E-09**	**4.50E-09**	**-3.50E-08**	**-3.40E-08**	**-4.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	5.00E-09	3.20E-08	1.30E-07	1.30E-07	-2.05E-08	-2.18E-08	-2.18E-08	-2.18E-08
URI (ΔCDF)	-4.20E-07	-4.20E-07	-4.20E-07	-4.10E-07	-4.04E-07	-3.95E-07	-3.84E-07	-3.78E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.15E-07**	**-3.88E-07**	**-2.90E-07**	**-2.80E-07**	**-4.20E-07**	**-4.20E-07**	**-4.10E-07**	**-4.00E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-1.20E-08	-5.40E-09	-1.10E-10	-3.60E-08	-5.47E-08	-5.71E-08	5.61E-08	6.69E-08
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.62E-08	-7.69E-09	-7.69E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-08**	**-2.04E-08**	**-1.61E-08**	**-5.20E-08**	**-7.10E-08**	**-7.30E-08**	**4.80E-08**	**5.90E-08**

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	0.002778	0.002810	N/A	N/A	0.000859	0.000967	0.000931	0.000886	0.000791	0.000905	0.000908	0.000917
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**1.4**	**1.4**	**N/A**	**N/A**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**

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	0.000954	0.001015	0.000874	0.000963	0.000920	0.000951	0.000979	0.000944	0.001097	0.000962	0.000900	0.001326
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.7**

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	2.500	2.400	N/A	2.600	3.100	3.000	2.400	2.400	2.400	3.000	2.600	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.0**	**9.6**	**N/A**	**10.4**	**12.4**	**12.0**	**9.6**	**9.6**	**9.6**	**12.0**	**10.4**	**10.4**
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	2.900	3.100	2.900	2.800	2.700	2.600	2.800	3.200	3.350	2.960	3.010	3.220
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.6**	**12.4**	**11.6**	**11.2**	**10.8**	**10.4**	**11.2**	**12.8**	**13.4**	**11.8**	**12.0**	**12.9**

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	0	27.0	16.0	39.0	4.0	30.0	50.0	39.0
Total opportunities	0	27.0	16.0	39.0	4.0	32.0	50.0	40.0
Indicator value	**97.6%**	**97.8%**	**97.7%**	**97.8%**	**97.8%**	**97.5%**	**98.2%**	**98.6%**

Licensee Comments: none

ERO Drill Participation

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	92.0	97.0	102.0	97.0	95.0	98.0	109.0	102.0
Total Key personnel	92.0	97.0	102.0	97.0	95.0	98.0	109.0	102.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	532	532	531	570	532	532	532	570
Total sirens-tests	532	532	532	570	532	532	532	570
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1572.1	1994.1	2209.0	2073.5	2184.0	2208.0	2209.0	1510.1
Indicator value	**2.0**	**1.0**	**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/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	1.0	1.0	2.0	1.0	1.0	0	1.0	0
Critical hours	1572.1	1994.1	2209.0	2073.5	2184.0	2208.0	2209.0	1510.1
Indicator value	**1.0**	**2.0**	**3.9**	**4.5**	**4.1**	**3.2**	**2.4**	**1.7**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**4**	**2**	**2**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	1.50E-08	4.80E-08	4.50E-08	4.35E-09	-5.22E-10	2.43E-09	-9.92E-11	2.03E-10
URI (ΔCDF)	1.20E-07	9.30E-08	-2.10E-08	-4.70E-08	-4.81E-08	3.46E-08	3.46E-08	2.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.35E-07**	**1.41E-07**	**2.40E-08**	**-4.30E-08**	**-4.90E-08**	**3.70E-08**	**3.40E-08**	**2.70E-08**

Licensee Comments:

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision. In addition, 96 hours of Planned Unavailability was added to the baseline for Emergency Diesel Generator (EDG) 2 and EDG 4, to account for a one-time maintenance evolution to replace the collector rings. These additional hours will be removed in the first quarter 2014.

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)	1.50E-07	1.70E-07	1.60E-07	1.08E-07	1.02E-07	1.10E-07	2.93E-09	5.01E-09
URI (ΔCDF)	2.10E-07	2.10E-07	2.20E-07	2.22E-07	2.21E-07	2.21E-07	7.86E-08	7.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.60E-07**	**3.80E-07**	**3.80E-07**	**3.30E-07**	**3.20E-07**	**3.30E-07**	**8.20E-08**	**7.50E-08**

Licensee Comments:

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	1.80E-09	2.50E-10	1.20E-10	-1.80E-09	-2.13E-09	-6.12E-10	-7.57E-09	-2.53E-09
URI (ΔCDF)	-1.10E-09	-1.80E-09	8.10E-09	6.27E-09	-3.32E-08	-3.37E-08	-3.39E-08	-2.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-10**	**-1.55E-09**	**8.22E-09**	**4.50E-09**	**-3.50E-08**	**-3.40E-08**	**-4.10E-08**	**-3.10E-08**

Licensee Comments:

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	3.20E-08	1.30E-07	1.30E-07	-2.05E-08	-2.18E-08	-2.18E-08	-2.18E-08	-1.38E-08
URI (ΔCDF)	-4.20E-07	-4.20E-07	-4.10E-07	-4.04E-07	-3.95E-07	-3.84E-07	-3.78E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.88E-07**	**-2.90E-07**	**-2.80E-07**	**-4.20E-07**	**-4.20E-07**	**-4.10E-07**	**-4.00E-07**	**-1.80E-07**

Licensee Comments:

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-5.40E-09	-1.10E-10	-3.60E-08	-5.47E-08	-5.71E-08	5.61E-08	6.69E-08	4.23E-08
URI (ΔCDF)	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.62E-08	-7.69E-09	-7.69E-09	-1.66E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.04E-08**	**-1.61E-08**	**-5.20E-08**	**-7.10E-08**	**-7.30E-08**	**4.80E-08**	**5.90E-08**	**2.60E-08**

Licensee Comments:

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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	N/A	0.000859	0.000967	0.000931	0.000886	0.000791	0.000905	0.000908	0.000917	0.000954	0.001015	0.000874
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**

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	0.000963	0.000920	0.000951	0.000979	0.000944	0.001097	0.000962	0.000900	0.001326	0.000962	0.000939	0.001409
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.7**	**0.5**	**0.5**	**0.7**

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	2.600	3.100	3.000	2.400	2.400	2.400	3.000	2.600	2.600	2.900	3.100	2.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.4**	**12.4**	**12.0**	**9.6**	**9.6**	**9.6**	**12.0**	**10.4**	**10.4**	**11.6**	**12.4**	**11.6**
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	2.800	2.700	2.600	2.800	3.200	3.350	2.960	3.010	3.220	3.350	3.440	3.090
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**10.8**	**10.4**	**11.2**	**12.8**	**13.4**	**11.8**	**12.0**	**12.9**	**13.4**	**13.8**	**12.4**

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	27.0	16.0	39.0	4.0	30.0	50.0	39.0	10.0
Total opportunities	27.0	16.0	39.0	4.0	32.0	50.0	40.0	10.0
Indicator value	**97.8%**	**97.7%**	**97.8%**	**97.8%**	**97.5%**	**98.2%**	**98.6%**	**98.6%**

Licensee Comments: none

ERO Drill Participation

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	97.0	102.0	97.0	95.0	98.0	109.0	102.0	109.0
Total Key personnel	97.0	102.0	97.0	95.0	98.0	109.0	102.0	109.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	532	531	570	532	532	532	570	532
Total sirens-tests	532	532	570	532	532	532	570	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

2Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1994.1	2209.0	2073.5	2184.0	2208.0	2209.0	1510.1	1847.5
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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	1.0	2.0	1.0	1.0	0	1.0	0	2.0
Critical hours	1994.1	2209.0	2073.5	2184.0	2208.0	2209.0	1510.1	1847.5
Indicator value	**2.0**	**3.9**	**4.5**	**4.1**	**3.2**	**2.4**	**1.7**	**2.7**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	0	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**1**

Licensee Comments:

2Q/11: LER 1-2011-001 was submitted on 06/02/2011 for loss of Control Room Emergency Ventilation (CREV) due to trip of emergency bus E7.

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)	4.80E-08	4.50E-08	4.35E-09	-5.22E-10	2.43E-09	-9.92E-11	2.03E-10	4.38E-10
URI (ΔCDF)	9.30E-08	-2.10E-08	-4.70E-08	-4.81E-08	3.46E-08	3.46E-08	2.68E-08	2.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.41E-07**	**2.40E-08**	**-4.30E-08**	**-4.90E-08**	**3.70E-08**	**3.40E-08**	**2.70E-08**	**2.70E-08**

Licensee Comments:

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

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)	1.70E-07	1.60E-07	1.08E-07	1.02E-07	1.10E-07	2.93E-09	5.01E-09	1.52E-08
URI (ΔCDF)	2.10E-07	2.20E-07	2.22E-07	2.21E-07	2.21E-07	7.86E-08	7.04E-08	7.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.80E-07**	**3.80E-07**	**3.30E-07**	**3.20E-07**	**3.30E-07**	**8.20E-08**	**7.50E-08**	**8.60E-08**

Licensee Comments:

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	2.50E-10	1.20E-10	-1.80E-09	-2.13E-09	-6.12E-10	-7.57E-09	-2.53E-09	9.88E-09
URI (ΔCDF)	-1.80E-09	8.10E-09	6.27E-09	-3.32E-08	-3.37E-08	-3.39E-08	-2.88E-08	7.67E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.55E-09**	**8.22E-09**	**4.50E-09**	**-3.50E-08**	**-3.40E-08**	**-4.10E-08**	**-3.10E-08**	**1.10E-08**

Licensee Comments:

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	1.30E-07	1.30E-07	-2.05E-08	-2.18E-08	-2.18E-08	-2.18E-08	-1.38E-08	-1.29E-08
URI (ΔCDF)	-4.20E-07	-4.10E-07	-4.04E-07	-3.95E-07	-3.84E-07	-3.78E-07	-1.70E-07	-1.67E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**-2.80E-07**	**-4.20E-07**	**-4.20E-07**	**-4.10E-07**	**-4.00E-07**	**-1.80E-07**	**-1.80E-07**

Licensee Comments:

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-1.10E-10	-3.60E-08	-5.47E-08	-5.71E-08	5.61E-08	6.69E-08	4.23E-08	4.48E-08
URI (ΔCDF)	-1.60E-08	-1.60E-08	-1.60E-08	-1.62E-08	-7.69E-09	-7.69E-09	-1.66E-08	-1.66E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.61E-08**	**-5.20E-08**	**-7.10E-08**	**-7.30E-08**	**4.80E-08**	**5.90E-08**	**2.60E-08**	**2.80E-08**

Licensee Comments:

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

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	0.000931	0.000886	0.000791	0.000905	0.000908	0.000917	0.000954	0.001015	0.000874	0.000963	0.000920	0.000951
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**

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	0.000979	0.000944	0.001097	0.000962	0.000900	0.001326	0.000962	0.000939	0.001409	N/A	0.000268	0.000276
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.7**	**0.5**	**0.5**	**0.7**	**N/A**	**0.1**	**0.1**

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	2.400	2.400	2.400	3.000	2.600	2.600	2.900	3.100	2.900	2.800	2.700	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**9.6**	**9.6**	**9.6**	**12.0**	**10.4**	**10.4**	**11.6**	**12.4**	**11.6**	**11.2**	**10.8**	**10.4**
Reactor Coolant System Leakage	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum leakage	2.800	3.200	3.350	2.960	3.010	3.220	3.350	3.440	3.090	2.730	2.000	2.010
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**12.8**	**13.4**	**11.8**	**12.0**	**12.9**	**13.4**	**13.8**	**12.4**	**10.9**	**8.0**	**8.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	16.0	39.0	4.0	30.0	50.0	39.0	10.0	31.0
Total opportunities	16.0	39.0	4.0	32.0	50.0	40.0	10.0	31.0
Indicator value	**97.7%**	**97.8%**	**97.8%**	**97.5%**	**98.2%**	**98.6%**	**98.6%**	**98.6%**

Licensee Comments: none

ERO Drill Participation

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	102.0	97.0	95.0	98.0	109.0	102.0	109.0	107.0
Total Key personnel	102.0	97.0	95.0	98.0	109.0	102.0	109.0	107.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	531	570	532	532	532	570	532	532
Total sirens-tests	532	570	532	532	532	570	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: July 22, 2011

Brunswick 2

3Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2073.5	2184.0	2208.0	2209.0	1510.1	1847.5	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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	2.0	1.0	1.0	0	1.0	0	2.0	0
Critical hours	2209.0	2073.5	2184.0	2208.0	2209.0	1510.1	1847.5	2208.0
Indicator value	**3.9**	**4.5**	**4.1**	**3.2**	**2.4**	**1.7**	**2.7**	**2.7**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	**2**	**0**	**0**	**0**	**0**	**0**	**1**	**1**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	4.50E-08	4.35E-09	-5.22E-10	2.43E-09	-9.92E-11	2.03E-10	4.38E-10	1.25E-09
URI (ΔCDF)	-2.10E-08	-4.70E-08	-4.81E-08	3.46E-08	3.46E-08	2.68E-08	2.68E-08	2.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-08**	**-4.30E-08**	**-4.90E-08**	**3.70E-08**	**3.40E-08**	**2.70E-08**	**2.70E-08**	**2.80E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	1.60E-07	1.08E-07	1.02E-07	1.10E-07	2.93E-09	5.01E-09	1.52E-08	1.53E-08
URI (ΔCDF)	2.20E-07	2.22E-07	2.21E-07	2.21E-07	7.86E-08	7.04E-08	7.04E-08	7.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.80E-07**	**3.30E-07**	**3.20E-07**	**3.30E-07**	**8.20E-08**	**7.50E-08**	**8.60E-08**	**8.60E-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)	1.20E-10	-1.80E-09	-2.13E-09	-6.12E-10	-7.57E-09	-2.53E-09	9.88E-09	9.58E-09
URI (ΔCDF)	8.10E-09	6.27E-09	-3.32E-08	-3.37E-08	-3.39E-08	-2.88E-08	7.67E-10	2.25E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.22E-09**	**4.50E-09**	**-3.50E-08**	**-3.40E-08**	**-4.10E-08**	**-3.10E-08**	**1.10E-08**	**9.80E-09**

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-07	-2.05E-08	-2.18E-08	-2.18E-08	-2.18E-08	-1.38E-08	-1.29E-08	-4.12E-08
URI (ΔCDF)	-4.10E-07	-4.04E-07	-3.95E-07	-3.84E-07	-3.78E-07	-1.70E-07	-1.67E-07	-1.64E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-07**	**-4.20E-07**	**-4.20E-07**	**-4.10E-07**	**-4.00E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**

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)	-3.60E-08	-5.47E-08	-5.71E-08	5.61E-08	6.69E-08	4.23E-08	4.48E-08	1.05E-07
URI (ΔCDF)	-1.60E-08	-1.60E-08	-1.62E-08	-7.69E-09	-7.69E-09	-1.66E-08	-1.66E-08	-9.40E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-08**	**-7.10E-08**	**-7.30E-08**	**4.80E-08**	**5.90E-08**	**2.60E-08**	**2.80E-08**	**9.60E-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	0.000905	0.000908	0.000917	0.000954	0.001015	0.000874	0.000963	0.000920	0.000951	0.000979	0.000944	0.001097
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**

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	0.000962	0.000900	0.001326	0.000962	0.000939	0.001409	N/A	0.000268	0.000276	0.000302	0.000342	0.000257
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.7**	**0.5**	**0.5**	**0.7**	**N/A**	**0.1**	**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	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	3.000	2.600	2.600	2.900	3.100	2.900	2.800	2.700	2.600	2.800	3.200	3.350
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.0**	**10.4**	**10.4**	**11.6**	**12.4**	**11.6**	**11.2**	**10.8**	**10.4**	**11.2**	**12.8**	**13.4**
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	2.960	3.010	3.220	3.350	3.440	3.090	2.730	2.000	2.010	2.010	2.010	2.010
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.8**	**12.0**	**12.9**	**13.4**	**13.8**	**12.4**	**10.9**	**8.0**	**8.0**	**8.0**	**8.0**	**8.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	39.0	4.0	30.0	50.0	39.0	10.0	31.0	4.0
Total opportunities	39.0	4.0	32.0	50.0	40.0	10.0	31.0	4.0
Indicator value	**97.8%**	**97.8%**	**97.5%**	**98.2%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**

Licensee Comments: none

ERO Drill Participation

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	97.0	95.0	98.0	109.0	102.0	109.0	107.0	105.0
Total Key personnel	97.0	95.0	98.0	109.0	102.0	109.0	107.0	105.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	570	532	532	532	570	532	532	530
Total sirens-tests	570	532	532	532	570	532	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: November 29, 2011

Brunswick 2

4Q/2011 Performance Indicators

Licensee's General Comments: Revision to previously submitted data: An error in methodology used to calculate RCS Leakage was identified during the 4th quarter of 2011. The methodology was used starting in October 2010. The recalculated numbers from October 2010 to September 2011 resulted in minimal change to the PI, with the largest increase in total leakage for one month of 0.07gpm on Unit 1, and 0.23gpm on Unit 2. This represents an increase of less than 1% of the allowed Technical Specification limit for Total RCS Leakage on either unit. This correction did not affect the color of the performance indicator for this time period.

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	1.0
Critical hours	2073.5	2184.0	2208.0	2209.0	1510.1	1847.5	2208.0	1605.1
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/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	1.0	1.0	0	1.0	0	2.0	0	1.0
Critical hours	2073.5	2184.0	2208.0	2209.0	1510.1	1847.5	2208.0	1605.1
Indicator value	**4.5**	**4.1**	**3.2**	**2.4**	**1.7**	**2.7**	**2.7**	**2.9**

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 (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	4.35E-09	-5.22E-10	2.43E-09	-9.92E-11	2.03E-10	4.38E-10	1.25E-09	4.27E-09
URI (ΔCDF)	-4.70E-08	-4.81E-08	3.46E-08	3.46E-08	2.68E-08	2.68E-08	2.68E-08	9.61E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.30E-08**	**-4.90E-08**	**3.70E-08**	**3.40E-08**	**2.70E-08**	**2.70E-08**	**2.80E-08**	**1.40E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	1.08E-07	1.02E-07	1.10E-07	2.93E-09	5.01E-09	1.52E-08	1.53E-08	-3.06E-09
URI (ΔCDF)	2.22E-07	2.21E-07	2.21E-07	7.86E-08	7.04E-08	7.04E-08	7.04E-08	1.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-07**	**3.20E-07**	**3.30E-07**	**8.20E-08**	**7.50E-08**	**8.60E-08**	**8.60E-08**	**7.70E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	-1.80E-09	-2.13E-09	-6.12E-10	-7.57E-09	-2.53E-09	9.88E-09	9.58E-09	8.76E-09
URI (ΔCDF)	6.27E-09	-3.32E-08	-3.37E-08	-3.39E-08	-2.88E-08	7.67E-10	2.25E-10	-1.22E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.50E-09**	**-3.50E-08**	**-3.40E-08**	**-4.10E-08**	**-3.10E-08**	**1.10E-08**	**9.80E-09**	**8.60E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	-2.05E-08	-2.18E-08	-2.18E-08	-2.18E-08	-1.38E-08	-1.29E-08	-4.12E-08	4.53E-08
URI (ΔCDF)	-4.04E-07	-3.95E-07	-3.84E-07	-3.78E-07	-1.70E-07	-1.67E-07	-1.64E-07	-8.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.20E-07**	**-4.20E-07**	**-4.10E-07**	**-4.00E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-4.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	-5.47E-08	-5.71E-08	5.61E-08	6.69E-08	4.23E-08	4.48E-08	1.05E-07	3.11E-08
URI (ΔCDF)	-1.60E-08	-1.62E-08	-7.69E-09	-7.69E-09	-1.66E-08	-1.66E-08	-9.40E-09	-3.69E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.10E-08**	**-7.30E-08**	**4.80E-08**	**5.90E-08**	**2.60E-08**	**2.80E-08**	**9.60E-08**	**2.70E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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	0.000954	0.001015	0.000874	0.000963	0.000920	0.000951	0.000979	0.000944	0.001097	0.000962	0.000900	0.001326
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.7**

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	0.000962	0.000939	0.001409	N/A	0.000268	0.000276	0.000302	0.000342	0.000257	0.000299	N/A	0.000209
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.7**	**N/A**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**N/A**	**0.1**

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	2.900	3.100	2.900	2.800	2.700	2.600	2.800	3.200	3.350	3.190	3.020	3.220
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.6**	**12.4**	**11.6**	**11.2**	**10.8**	**10.4**	**11.2**	**12.8**	**13.4**	**12.8**	**12.1**	**12.9**
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	3.350	3.460	3.110	2.760	2.000	2.020	2.010	2.020	2.020	2.020	4.220	2.020
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.4**	**13.8**	**12.4**	**11.0**	**8.0**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**16.9**	**8.1**

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	4.0	30.0	50.0	39.0	10.0	31.0	4.0	38.0
Total opportunities	4.0	32.0	50.0	40.0	10.0	31.0	4.0	38.0
Indicator value	**97.8%**	**97.5%**	**98.2%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**

Licensee Comments: none

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	95.0	98.0	109.0	102.0	109.0	107.0	105.0	106.0
Total Key personnel	95.0	98.0	109.0	102.0	109.0	107.0	105.0	106.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	532	532	532	570	532	532	530	570
Total sirens-tests	532	532	532	570	532	532	532	570
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Brunswick 2

1Q/2012 Performance Indicators

Licensee's General Comments: The MSPI Basis Document was revised in the 4th quarter of 2011. Changes to the planned baseline for Unit 1 and 2 RHR, and for run time hours for EAC Power, became effective in the 1st quarter of 2012.

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	1.0	0
Critical hours	2184.0	2208.0	2209.0	1510.1	1847.5	2208.0	1605.1	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	1.0	0	1.0	0	2.0	0	1.0	1.0
Critical hours	2184.0	2208.0	2209.0	1510.1	1847.5	2208.0	1605.1	2183.0
Indicator value	**4.1**	**3.2**	**2.4**	**1.7**	**2.7**	**2.7**	**2.9**	**3.6**

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 (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

2Q/11: LER 1-2011-001 was submitted on 06/02/2011 for loss of Control Room Emergency Ventilation (CREV) due to trip of emergency bus E7.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-5.22E-10	2.43E-09	-9.92E-11	2.03E-10	4.38E-10	1.25E-09	4.27E-09	1.09E-09
URI (ΔCDF)	-4.81E-08	3.46E-08	3.46E-08	2.68E-08	2.68E-08	2.68E-08	9.61E-09	1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.90E-08**	**3.70E-08**	**3.40E-08**	**2.70E-08**	**2.70E-08**	**2.80E-08**	**1.40E-08**	**1.20E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision. In addition, 96 hours of Planned

Unavailability was added to the baseline for Emergency Diesel Generator (EDG) 2 and EDG 4, to account for a one-time maintenance evolution to replace the collector rings. These additional hours will be removed in the first quarter 2014.

4Q/10: A revision to previously submitted data has been made. It was identified in the 4th quarter that unavailability due to the performance of a PT was missed as follows: 4.15 hours in June 2010 to EDG4, 2.92 hours in July 2010 to EDG1, and 2.28 hours in September 2010 to DG3. The addition of these hours had negligible effect on the MSPI, and does not affect the color of the indicator.

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)	1.02E-07	1.10E-07	2.93E-09	5.01E-09	1.52E-08	1.53E-08	-3.06E-09	-3.45E-09
URI (ΔCDF)	2.21E-07	2.21E-07	7.86E-08	7.04E-08	7.04E-08	7.04E-08	1.07E-08	-8.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**3.30E-07**	**8.20E-08**	**7.50E-08**	**8.60E-08**	**8.60E-08**	**7.70E-09**	**-1.20E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-2.13E-09	-6.12E-10	-7.57E-09	-2.53E-09	9.88E-09	9.58E-09	8.76E-09	1.00E-08
URI (ΔCDF)	-3.32E-08	-3.37E-08	-3.39E-08	-2.88E-08	7.67E-10	2.25E-10	-1.22E-10	-4.00E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.40E-08**	**-4.10E-08**	**-3.10E-08**	**1.10E-08**	**9.80E-09**	**8.60E-09**	**9.60E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis

Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-2.18E-08	-2.18E-08	-2.18E-08	-1.38E-08	-1.29E-08	-4.12E-08	4.53E-08	7.99E-08
URI (ΔCDF)	-3.95E-07	-3.84E-07	-3.78E-07	-1.70E-07	-1.67E-07	-1.64E-07	-8.83E-08	-8.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.20E-07**	**-4.10E-07**	**-4.00E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-4.30E-08**	**-6.50E-09**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011,

incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-5.71E-08	5.61E-08	6.69E-08	4.23E-08	4.48E-08	1.05E-07	3.11E-08	3.26E-08
URI (ΔCDF)	-1.62E-08	-7.69E-09	-7.69E-09	-1.66E-08	-1.66E-08	-9.40E-09	-3.69E-09	-3.70E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
	-7.30E-	**4.80E-**	**5.90E-**	**2.60E-**	**2.80E-**	**9.60E-**	**2.70E-**	**2.90E-**

Indicator value	08	08	08	08	08	08	08	08

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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	0.000963	0.000920	0.000951	0.000979	0.000944	0.001097	0.000962	0.000900	0.001326	0.000962	0.000939	0.001409
Technical												

specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.7**	**0.5**	**0.5**	**0.7**

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	N/A	0.000268	0.000276	0.000302	0.000342	0.000257	0.000299	N/A	0.000209	0.000230	0.000236	0.000312
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**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	**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	2.800	2.700	2.600	2.800	3.200	3.350	3.190	3.020	3.220	3.350	3.460	3.110
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**10.8**	**10.4**	**11.2**	**12.8**	**13.4**	**12.8**	**12.1**	**12.9**	**13.4**	**13.8**	**12.4**

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	2.760	2.000	2.020	2.010	2.020	2.020	2.020	4.220	2.020	2.110	2.040	2.040
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.0**	**8.0**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**16.9**	**8.1**	**8.4**	**8.2**	**8.2**

Licensee Comments: none

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	30.0	50.0	39.0	10.0	31.0	4.0	38.0	8.0
Total opportunities	32.0	50.0	40.0	10.0	31.0	4.0	38.0	8.0
Indicator value	**97.5%**	**98.2%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	98.0	109.0	102.0	109.0	107.0	105.0	106.0	103.0
Total Key personnel	98.0	109.0	102.0	109.0	107.0	105.0	106.0	103.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	532	532	570	532	532	530	570	532
Total sirens-tests	532	532	570	532	532	532	570	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: April 24, 2012

Brunswick 2

2Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	1510.1	1847.5	2208.0	1605.1	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.0**	**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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	1.0	0	2.0	0	1.0	1.0	0
Critical hours	2208.0	2209.0	1510.1	1847.5	2208.0	1605.1	2183.0	2184.0
Indicator value	**3.2**	**2.4**	**1.7**	**2.7**	**2.7**	**2.9**	**3.6**	**1.7**

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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	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	0	1	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**2**	**1**

Licensee Comments:

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

2Q/11: LER 1-2011-001 was submitted on 06/02/2011 for loss of Control Room Emergency Ventilation (CREV) due to trip of emergency bus E7.

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)	2.43E-09	-9.92E-11	2.03E-10	4.38E-10	1.25E-09	4.27E-09	1.09E-09	2.46E-09
URI (ΔCDF)	3.46E-08	3.46E-08	2.68E-08	2.68E-08	2.68E-08	9.61E-09	1.12E-08	-2.56E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.70E-08**	**3.40E-08**	**2.70E-08**	**2.70E-08**	**2.80E-08**	**1.40E-08**	**1.20E-08**	**-2.30E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision. In addition, 96 hours of Planned Unavailability

was added to the baseline for Emergency Diesel Generator (EDG) 2 and EDG 4, to account for a one-time maintenance evolution to replace the collector rings. These additional hours will be removed in the first quarter 2014.

4Q/10: A revision to previously submitted data has been made. It was identified in the 4th quarter that unavailability due to the performance of a PT was missed as follows: 4.15 hours in June 2010 to EDG4, 2.92 hours in July 2010 to EDG1, and 2.28 hours in September 2010 to DG3. The addition of these hours had negligible effect on the MSPI, and does not affect the color of the indicator.

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)	1.10E-07	2.93E-09	5.01E-09	1.52E-08	1.53E-08	-3.06E-09	-3.45E-09	-1.51E-09
URI (ΔCDF)	2.21E-07	7.86E-08	7.04E-08	7.04E-08	7.04E-08	1.07E-08	-8.63E-09	-8.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-07**	**8.20E-08**	**7.50E-08**	**8.60E-08**	**8.60E-08**	**7.70E-09**	**-1.20E-08**	**-1.00E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-6.12E-10	-7.57E-09	-2.53E-09	9.88E-09	9.58E-09	8.76E-09	1.00E-08	8.07E-09
URI (ΔCDF)	-3.37E-08	-3.39E-08	-2.88E-08	7.67E-10	2.25E-10	-1.22E-10	-4.00E-10	-6.70E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-08**	**-4.10E-08**	**-3.10E-08**	**1.10E-08**	**9.80E-09**	**8.60E-09**	**9.60E-09**	**7.40E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component

failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-2.18E-08	-2.18E-08	-1.38E-08	-1.29E-08	-4.12E-08	4.53E-08	7.99E-08	6.84E-08
URI (ΔCDF)	-3.84E-07	-3.78E-07	-1.70E-07	-1.67E-07	-1.64E-07	-8.83E-08	-8.64E-08	-8.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.10E-07**	**-4.00E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-4.30E-08**	**-6.50E-09**	**-1.60E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	5.61E-08	6.69E-08	4.23E-08	4.48E-08	1.05E-07	3.11E-08	3.26E-08	2.89E-08
URI (ΔCDF)	-7.69E-09	-7.69E-09	-1.66E-08	-1.66E-08	-9.40E-09	-3.69E-09	-3.70E-09	-3.71E-09

PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.80E-08**	**5.90E-08**	**2.60E-08**	**2.80E-08**	**9.60E-08**	**2.70E-08**	**2.90E-08**	**2.50E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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	0.000979	0.000944	0.001097	0.000962	0.000900	0.001326	0.000962	0.000939	0.001409	N/A	0.000268	0.000276
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.7**	**0.5**	**0.5**	**0.7**	**N/A**	**0.1**	**0.1**

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	0.000302	0.000342	0.000257	0.000299	N/A	0.000209	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum leakage	2.800	3.200	3.350	3.190	3.020	3.220	3.350	3.460	3.110	2.760	2.000	2.020
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.2**	**12.8**	**13.4**	**12.8**	**12.1**	**12.9**	**13.4**	**13.8**	**12.4**	**11.0**	**8.0**	**8.1**

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	2.010	2.020	2.020	2.020	4.220	2.020	2.110	2.040	2.040	2.040	2.060	2.070
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Indicator value	**8.0**	**8.1**	**8.1**	**8.1**	**16.9**	**8.1**	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**

Licensee Comments: none

Notes

Drill/Exercise Performance	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**
Successful opportunities	50.0	39.0	10.0	31.0	4.0	38.0	8.0	17.0
Total opportunities	50.0	40.0	10.0	31.0	4.0	38.0	8.0	18.0
Indicator value	**98.2%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**99.0%**

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	109.0	102.0	109.0	107.0	105.0	106.0	103.0	103.0
Total Key personnel	109.0	102.0	109.0	107.0	105.0	106.0	103.0	103.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	532	570	532	532	530	570	532	532
Total sirens-tests	532	570	532	532	532	570	532	532
Indicator value	**100.0%**	**100.0%**	**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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

Brunswick 2

3Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	1510.1	1847.5	2208.0	1605.1	2183.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**1.0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	1.0	0	2.0	0	1.0	1.0	0	0
Critical hours	2209.0	1510.1	1847.5	2208.0	1605.1	2183.0	2184.0	2208.0
Indicator value	**2.4**	**1.7**	**2.7**	**2.7**	**2.9**	**3.6**	**1.7**	**1.7**

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 > 6.0

Notes

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

Licensee Comments:

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

2Q/11: LER 1-2011-001 was submitted on 06/02/2011 for loss of Control Room Emergency Ventilation (CREV) due to trip of emergency bus E7.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-9.92E-11	2.03E-10	4.38E-10	1.25E-09	4.27E-09	1.09E-09	2.46E-09	-4.61E-09
URI (ΔCDF)	3.46E-08	2.68E-08	2.68E-08	2.68E-08	9.61E-09	1.12E-08	-2.56E-08	-2.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.40E-08**	**2.70E-08**	**2.70E-08**	**2.80E-08**	**1.40E-08**	**1.20E-08**	**-2.30E-08**	**-2.70E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision. In addition, 96 hours of Planned Unavailability was added to the baseline for Emergency Diesel Generator (EDG) 2 and EDG 4, to account for a one-time maintenance evolution to replace the collector rings. These additional hours will be removed in the first quarter 2014.

4Q/10: A revision to previously submitted data has been made. It was identified in the 4th quarter that unavailability due to the performance of a PT was missed as follows: 4.15 hours in June 2010 to EDG4, 2.92 hours in July 2010 to EDG1, and 2.28 hours in September 2010 to DG3. The addition of these hours had negligible effect on the MSPI, and does not affect the color of the indicator.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	2.93E-09	5.01E-09	1.52E-08	1.53E-08	-3.06E-09	-3.45E-09	-1.51E-09	-4.24E-09
URI (ΔCDF)	7.86E-08	7.04E-08	7.04E-08	7.04E-08	1.07E-08	-8.63E-09	-8.63E-09	-8.63E-09

PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.20E-08**	**7.50E-08**	**8.60E-08**	**8.60E-08**	**7.70E-09**	**-1.20E-08**	**-1.00E-08**	**-1.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-7.57E-09	-2.53E-09	9.88E-09	9.58E-09	8.76E-09	1.00E-08	8.07E-09	9.78E-09
URI (ΔCDF)	-3.39E-08	-2.88E-08	7.67E-10	2.25E-10	-1.22E-10	-4.00E-10	-6.70E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.10E-08**	**-3.10E-08**	**1.10E-08**	**9.80E-09**	**8.60E-09**	**9.60E-09**	**7.40E-09**	**8.80E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-2.18E-08	-1.38E-08	-1.29E-08	-4.12E-08	4.53E-08	7.99E-08	6.84E-08	7.89E-08
URI (ΔCDF)	-3.78E-07	-1.70E-07	-1.67E-07	-1.64E-07	-8.83E-08	-8.64E-08	-8.45E-08	-8.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-4.30E-08**	**-6.50E-09**	**-1.60E-08**	**-3.60E-09**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter.

See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	6.69E-08	4.23E-08	4.48E-08	1.05E-07	3.11E-08	3.26E-08	2.89E-08	2.81E-08
URI (ΔCDF)	-7.69E-09	-1.66E-08	-1.66E-08	-9.40E-09	-3.69E-09	-3.70E-09	-3.71E-09	-3.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.90E-08**	**2.60E-08**	**2.80E-08**	**9.60E-08**	**2.70E-08**	**2.90E-08**	**2.50E-08**	**2.40E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

Reactor Coolant System Activity

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	0.000962	0.000900	0.001326	0.000962	0.000939	0.001409	N/A	0.000268	0.000276	0.000302	0.000342	0.000257
Technical												

specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.7**	**0.5**	**0.5**	**0.7**	**N/A**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**

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	0.000299	N/A	0.000209	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233	0.000245	0.000290	0.000248
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**
Maximum leakage	3.190	3.020	3.220	3.350	3.460	3.110	2.760	2.000	2.020	2.010	2.020	2.020
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**12.8**	**12.1**	**12.9**	**13.4**	**13.8**	**12.4**	**11.0**	**8.0**	**8.1**	**8.0**	**8.1**	**8.1**

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	2.020	4.220	2.020	2.110	2.040	2.040	2.040	2.060	2.070	2.080	2.070	2.080
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**16.9**	**8.1**	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**	**8.3**	**8.3**	**8.3**

Licensee Comments: none

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	39.0	10.0	31.0	4.0	38.0	8.0	17.0	26.0
Total opportunities	40.0	10.0	31.0	4.0	38.0	8.0	18.0	27.0
Indicator value	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**99.0%**	**98.3%**

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	102.0	109.0	107.0	105.0	106.0	103.0	103.0	100.0
Total Key personnel	102.0	109.0	107.0	105.0	106.0	103.0	103.0	100.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	570	532	532	530	570	532	532	531
Total sirens-tests	570	532	532	532	570	532	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: October 24, 2012

Brunswick 2

4Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	1510.1	1847.5	2208.0	1605.1	2183.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**1.0**	**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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	2.0	0	1.0	1.0	0	0	2.0
Critical hours	1510.1	1847.5	2208.0	1605.1	2183.0	2184.0	2208.0	2209.0
Indicator value	**1.7**	**2.7**	**2.7**	**2.9**	**3.6**	**1.7**	**1.7**	**2.4**

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 (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

2Q/11: LER 1-2011-001 was submitted on 06/02/2011 for loss of Control Room Emergency Ventilation (CREV) due to trip of emergency bus E7.

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)	2.03E-10	4.38E-10	1.25E-09	4.27E-09	1.09E-09	2.46E-09	-4.61E-09	1.48E-09
URI (ΔCDF)	2.68E-08	2.68E-08	2.68E-08	9.61E-09	1.12E-08	-2.56E-08	-2.21E-08	1.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-08**	**2.70E-08**	**2.80E-08**	**1.40E-08**	**1.20E-08**	**-2.30E-08**	**-2.70E-08**	**1.90E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all

five MSPI systems for both Unit 1 and Unit 2 were affected by this revision. In addition, 96 hours of Planned Unavailability was added to the baseline for Emergency Diesel Generator (EDG) 2 and EDG 4, to account for a one-time maintenance evolution to replace the collector rings. These additional hours will be removed in the first quarter 2014.

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)	5.01E-09	1.52E-08	1.53E-08	-3.06E-09	-3.45E-09	-1.51E-09	-4.24E-09	-4.24E-09
URI (ΔCDF)	7.04E-08	7.04E-08	7.04E-08	1.07E-08	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.50E-08**	**8.60E-08**	**8.60E-08**	**7.70E-09**	**-1.20E-08**	**-1.00E-08**	**-1.30E-08**	**-1.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter.

See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-2.53E-09	9.88E-09	9.58E-09	8.76E-09	1.00E-08	8.07E-09	9.78E-09	9.63E-09
URI (ΔCDF)	-2.88E-08	7.67E-10	2.25E-10	-1.22E-10	-4.00E-10	-6.70E-10	-9.35E-10	-1.19E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-08**	**1.10E-08**	**9.80E-09**	**8.60E-09**	**9.60E-09**	**7.40E-09**	**8.80E-09**	**8.40E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	-1.38E-08	-1.29E-08	-4.12E-08	4.53E-08	7.99E-08	6.84E-08	7.89E-08	5.28E-08
URI (ΔCDF)	-1.70E-07	-1.67E-07	-1.64E-07	-8.83E-08	-8.64E-08	-8.45E-08	-8.24E-08	-8.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-4.30E-08**	**-6.50E-09**	**-1.60E-08**	**-3.60E-09**	**-2.70E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in

the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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)	4.23E-08	4.48E-08	1.05E-07	3.11E-08	3.26E-08	2.89E-08	2.81E-08	2.94E-08
URI (ΔCDF)	-1.66E-08	-1.66E-08	-9.40E-09	-3.69E-09	-3.70E-09	-3.71E-09	-3.71E-09	-3.72E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**2.60E-08**	**2.80E-08**	**9.60E-08**	**2.70E-08**	**2.90E-08**	**2.50E-08**	**2.40E-08**	**2.60E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

2Q/11: Changed PRA Parameter(s). PRA parameters were unchanged for the 2nd quarter. PRA parameters were entered into CDE in April (i.e., prior to April 21, in accordance with NEI 99-02) to be effective for the 1st quarter. See the 1st quarter submittal for explanation of changes.

1Q/11: Changed PRA Parameter(s). The Brunswick PRA model-of-record was revised in December 2010, and the revised MSPI coefficients were entered into INPOs CDE and the Brunswick MSPI Basis Document to be effective for the 1st Quarter of 2011. Changes included using plant-specific Common Cause Factors (CCFs) for the RHR system versus generic values, updated the instrument air system due to plant modifications, incorporated some Reg Guide 1.200 improvements, and updated ATWS to industry standard BWR methodology. Coefficients on all five MSPI systems for both Unit 1 and Unit 2 were affected by this revision.

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	0.000962	0.000939	0.001409	N/A	0.000268	0.000276	0.000302	0.000342	0.000257	0.000299	N/A	0.000209

Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.5**	**0.7**	**N/A**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**N/A**	**0.1**

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	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233	0.000245	0.000290	0.000248	0.000224	0.000209	0.000225
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	3.350	3.460	3.110	2.760	2.000	2.020	2.010	2.020	2.020	2.020	4.220	2.020
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**13.4**	**13.8**	**12.4**	**11.0**	**8.0**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**16.9**	**8.1**

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	2.110	2.040	2.040	2.040	2.060	2.070	2.080	2.070	2.080	2.090	2.090	2.100

Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**	**8.3**	**8.3**	**8.3**	**8.4**	**8.4**	**8.4**

Licensee Comments: none

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	10.0	31.0	4.0	38.0	8.0	17.0	26.0	46.0
Total opportunities	10.0	31.0	4.0	38.0	8.0	18.0	27.0	47.0
Indicator value	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**98.6%**	**99.0%**	**98.3%**	**98.4%**

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	109.0	107.0	105.0	106.0	103.0	103.0	100.0	97.0
Total Key personnel	109.0	107.0	105.0	106.0	103.0	103.0	100.0	97.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	532	532	530	570	532	532	531	570
Total sirens-tests	532	532	532	570	532	532	532	570
Indicator value	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

Brunswick 2

2Q/2013 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0
Critical hours	2208.0	1605.1	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3
Indicator value	**0**	**1.0**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

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	1.0	1.0	0	0	2.0	0	0
Critical hours	2208.0	1605.1	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3
Indicator value	**2.7**	**2.9**	**3.6**	**1.7**	**1.7**	**2.4**	**1.7**	**1.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

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

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Safety System Functional Failures (BWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	1	0	0	0	1	1
Indicator value	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**2**

Licensee Comments:

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

Mitigating Systems Performance Index, Emergency AC Power System

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

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)	1.25E-09	4.27E-09	1.09E-09	2.46E-09	-4.61E-09	1.48E-09	2.10E-08	2.42E-08
URI (ΔCDF)	2.68E-08	9.61E-09	1.12E-08	-2.56E-08	-2.21E-08	1.79E-08	1.92E-08	2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-08**	**1.40E-08**	**1.20E-08**	**-2.30E-08**	**-2.70E-08**	**1.90E-08**	**4.00E-08**	**4.50E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

Mitigating Systems Performance Index, High Pressure Injection System

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

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)	1.53E-08	-3.06E-09	-3.45E-09	-1.51E-09	-4.24E-09	-4.24E-09	-2.86E-09	3.70E-09
URI (ΔCDF)	7.04E-08	1.07E-08	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.60E-08**	**7.70E-09**	**-1.20E-08**	**-1.00E-08**	**-1.30E-08**	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

Mitigating Systems Performance Index, Heat Removal System

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

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)	9.58E-09	8.76E-09	1.00E-08	8.07E-09	9.78E-09	9.63E-09	1.28E-08	1.37E-08
URI (ΔCDF)	2.25E-10	-1.22E-10	-4.00E-10	-6.70E-10	-9.35E-10	-1.19E-09	-1.19E-09	-1.19E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-09**	**8.60E-09**	**9.60E-09**	**7.40E-09**	**8.80E-09**	**8.40E-09**	**1.20E-08**	**1.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

Mitigating Systems Performance Index, Residual Heat Removal System

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

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)	-4.12E-08	4.53E-08	7.99E-08	6.84E-08	7.89E-08	5.28E-08	4.38E-08	2.37E-08
URI (ΔCDF)	-1.64E-07	-8.83E-08	-8.64E-08	-8.45E-08	-8.24E-08	-8.03E-08	8.76E-08	8.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-4.30E-08**	**-6.50E-09**	**-1.60E-08**	**-3.60E-09**	**-2.70E-08**	**1.30E-07**	**1.10E-07**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

Mitigating Systems Performance Index, Cooling Water Systems

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

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)	1.05E-07	3.11E-08	3.26E-08	2.89E-08	2.81E-08	2.94E-08	3.73E-08	4.57E-08
URI (ΔCDF)	-9.40E-09	-3.69E-09	-3.70E-09	-3.71E-09	-3.71E-09	-3.72E-09	-3.73E-09	-2.39E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.60E-08**	**2.70E-08**	**2.90E-08**	**2.50E-08**	**2.40E-08**	**2.60E-08**	**3.40E-08**	**4.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

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	0.000302	0.000342	0.000257	0.000299	N/A	0.000209	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**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	0.000245	0.000290	0.000248	0.000224	0.000209	0.000225	0.000207	0.000314	0.000345	N/A	0.000074	0.000086
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**N/A**	**0**	**0**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Reactor Coolant System Leakage	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**
Maximum leakage	2.010	2.020	2.020	2.020	4.220	2.020	2.110	2.040	2.040	2.040	2.060	2.070
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.1**	**8.1**	**8.1**	**16.9**	**8.1**	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**
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	2.080	2.070	2.080	2.090	2.090	2.100	2.120	2.080	2.040	N/A	2.020	2.060
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.3**	**8.3**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	4.0	38.0	8.0	17.0	26.0	46.0	22.0	25.0
Total opportunities	4.0	38.0	8.0	18.0	27.0	47.0	22.0	28.0
Indicator value	**98.6%**	**98.6%**	**98.6%**	**99.0%**	**98.3%**	**98.4%**	**98.5%**	**96.9%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	105.0	106.0	103.0	103.0	100.0	97.0	98.0	94.0
Total Key personnel	105.0	106.0	103.0	103.0	100.0	97.0	98.0	94.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	530	570	532	532	531	570	532	532
Total sirens-tests	532	570	532	532	532	570	532	532
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

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.

Last Modified: July 24, 2013

Brunswick 2

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	1605.1	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3
Indicator value	**0**	**1.0**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	1.0	1.0	0	0	2.0	0	0
Critical hours	2208.0	1605.1	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3
Indicator value	**2.7**	**2.9**	**3.6**	**1.7**	**1.7**	**2.4**	**1.7**	**1.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	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 > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	1	0	0	0	1	1
Indicator value	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**2**

Licensee Comments:

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

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)	1.25E-09	4.27E-09	1.09E-09	2.46E-09	-4.61E-09	1.48E-09	2.10E-08	2.42E-08
URI (ΔCDF)	2.68E-08	9.61E-09	1.12E-08	-2.56E-08	-2.21E-08	1.79E-08	1.92E-08	2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-08**	**1.40E-08**	**1.20E-08**	**-2.30E-08**	**-2.70E-08**	**1.90E-08**	**4.00E-08**	**4.50E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	1.53E-08	-3.06E-09	-3.45E-09	-1.51E-09	-4.24E-09	-4.24E-09	-2.86E-09	3.70E-09
URI (ΔCDF)	7.04E-08	1.07E-08	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.60E-08**	**7.70E-09**	**-1.20E-08**	**-1.00E-08**	**-1.30E-08**	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	9.58E-09	8.76E-09	1.00E-08	8.07E-09	9.78E-09	9.63E-09	1.28E-08	1.37E-08
URI (ΔCDF)	2.25E-10	-1.22E-10	-4.00E-10	-6.70E-10	-9.35E-10	-1.19E-09	-1.19E-09	-1.19E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-09**	**8.60E-09**	**9.60E-09**	**7.40E-09**	**8.80E-09**	**8.40E-09**	**1.20E-08**	**1.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	-4.12E-08	4.53E-08	7.99E-08	6.84E-08	7.89E-08	5.28E-08	4.38E-08	2.37E-08
URI (ΔCDF)	-1.64E-07	-8.83E-08	-8.64E-08	-8.45E-08	-8.24E-08	-8.03E-08	8.76E-08	8.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-4.30E-08**	**-6.50E-09**	**-1.60E-08**	**-3.60E-09**	**-2.70E-08**	**1.30E-07**	**1.10E-07**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	1.05E-07	3.11E-08	3.26E-08	2.89E-08	2.81E-08	2.94E-08	3.73E-08	4.57E-08
URI (ΔCDF)	-9.40E-09	-3.69E-09	-3.70E-09	-3.71E-09	-3.71E-09	-3.72E-09	-3.73E-09	-2.39E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.60E-08**	**2.70E-08**	**2.90E-08**	**2.50E-08**	**2.40E-08**	**2.60E-08**	**3.40E-08**	**4.30E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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	0.000302	0.000342	0.000257	0.000299	N/A	0.000209	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**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	0.000245	0.000290	0.000248	0.000224	0.000209	0.000225	0.000207	0.000314	0.000345	N/A	0.000074	0.000086
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**N/A**	**0**	**0**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	2.010	2.020	2.020	2.020	4.220	2.020	2.110	2.040	2.040	2.040	2.060	2.070
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.1**	**8.1**	**8.1**	**16.9**	**8.1**	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**
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	2.080	2.070	2.080	2.090	2.090	2.100	2.120	2.080	2.040	N/A	2.020	2.060
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.3**	**8.3**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	4.0	38.0	8.0	17.0	26.0	46.0	22.0	25.0
Total opportunities	4.0	38.0	8.0	18.0	27.0	47.0	22.0	28.0
Indicator value	**98.6%**	**98.6%**	**98.6%**	**99.0%**	**98.3%**	**98.4%**	**98.5%**	**96.9%**

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	105.0	106.0	103.0	103.0	100.0	97.0	98.0	94.0
Total Key personnel	105.0	106.0	103.0	103.0	100.0	97.0	98.0	94.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	530	570	532	532	531	570	532	532
Total sirens-tests	532	570	532	532	532	570	532	532
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: August 19, 2013

Brunswick 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1605.1	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3	2208.0
Indicator value	**1.0**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	1.0	1.0	0	0	2.0	0	0	1.0
Critical hours	1605.1	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3	2208.0
Indicator value	**2.9**	**3.6**	**1.7**	**1.7**	**2.4**	**1.7**	**1.9**	**2.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	1	0	0	0	1	1	0
Indicator value	**1**	**2**	**1**	**1**	**1**	**1**	**2**	**2**

Licensee Comments:

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

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)	4.27E-09	1.09E-09	2.46E-09	-4.61E-09	1.48E-09	2.10E-08	2.42E-08	2.19E-08
URI (ΔCDF)	9.61E-09	1.12E-08	-2.56E-08	-2.21E-08	1.79E-08	1.92E-08	2.05E-08	-7.38E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-08**	**1.20E-08**	**-2.30E-08**	**-2.70E-08**	**1.90E-08**	**4.00E-08**	**4.50E-08**	**-5.20E-08**

Licensee Comments:

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-3.06E-09	-3.45E-09	-1.51E-09	-4.24E-09	-4.24E-09	-2.86E-09	3.70E-09	1.58E-09
URI (ΔCDF)	1.07E-08	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.70E-09**	**-1.20E-08**	**-1.00E-08**	**-1.30E-08**	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**	**-7.10E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	8.76E-09	1.00E-08	8.07E-09	9.78E-09	9.63E-09	1.28E-08	1.37E-08	1.55E-08
URI (ΔCDF)	-1.22E-10	-4.00E-10	-6.70E-10	-9.35E-10	-1.19E-09	-1.19E-09	-1.19E-09	-1.19E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.60E-09**	**9.60E-09**	**7.40E-09**	**8.80E-09**	**8.40E-09**	**1.20E-08**	**1.30E-08**	**1.40E-08**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	4.53E-08	7.99E-08	6.84E-08	7.89E-08	5.28E-08	4.38E-08	2.37E-08	3.47E-08
URI (ΔCDF)	-8.83E-08	-8.64E-08	-8.45E-08	-8.24E-08	-8.03E-08	8.76E-08	8.76E-08	8.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.30E-08**	**-6.50E-09**	**-1.60E-08**	**-3.60E-09**	**-2.70E-08**	**1.30E-07**	**1.10E-07**	**1.20E-07**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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)	3.11E-08	3.26E-08	2.89E-08	2.81E-08	2.94E-08	3.73E-08	4.57E-08	5.44E-09
URI (ΔCDF)	-3.69E-09	-3.70E-09	-3.71E-09	-3.71E-09	-3.72E-09	-3.73E-09	-2.39E-09	-2.51E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-08**	**2.90E-08**	**2.50E-08**	**2.40E-08**	**2.60E-08**	**3.40E-08**	**4.30E-08**	**2.90E-09**

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Changes to Brunswick's plant-specific PRA were made resulting in new MSPI coefficients entered into CDE effective for the 4th quarter of 2011. Model changes included updating accident sequences for loss of offsite power analysis, providing more detailed common cause methods for component failures, changes to data related to component failures was updated to currently available data, and the human reliability analysis was updated to use the industry standard database. The plant-specific PRA and MSPI Basis Document were updated in the 3rd quarter and the 4th quarter of 2011, respectively.

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	0.000299	N/A	0.000209	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233	0.000245	0.000290	0.000248
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**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	0.000224	0.000209	0.000225	0.000207	0.000314	0.000345	N/A	0.000074	0.000086	0.000089	0.000097	0.000105
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**N/A**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	2.020	4.220	2.020	2.110	2.040	2.040	2.040	2.060	2.070	2.080	2.070	2.080
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**16.9**	**8.1**	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**	**8.3**	**8.3**	**8.3**
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	2.090	2.090	2.100	2.120	2.080	2.040	N/A	2.020	2.060	2.030	2.035	2.037
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**8.4**	**8.4**	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**	**8.1**	**8.1**	**8.1**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	38.0	8.0	17.0	26.0	46.0	22.0	25.0	18.0
Total opportunities	38.0	8.0	18.0	27.0	47.0	22.0	28.0	18.0
Indicator value	**98.6%**	**98.6%**	**99.0%**	**98.3%**	**98.4%**	**98.5%**	**96.9%**	**97.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	106.0	103.0	103.0	100.0	97.0	98.0	94.0	95.0
Total Key personnel	106.0	103.0	103.0	100.0	97.0	98.0	94.0	95.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	570	532	532	531	570	532	532	532
Total sirens-tests	570	532	532	532	570	532	532	532
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: October 22, 2013

Brunswick 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	1.0	0	0	2.0	0	0	1.0	1.0
Critical hours	2183.0	2184.0	2208.0	2209.0	1460.9	1353.3	2208.0	2209.0
Indicator value	**3.6**	**1.7**	**1.7**	**2.4**	**1.7**	**1.9**	**2.9**	**1.9**

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 > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	1	0	0	0	1	0	0	1
Indicator value	**2**	**1**	**1**	**1**	**1**	**1**	**1**	**2**

Licensee Comments:

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

1Q/12: LER 1-2011-003 was submitted on January 30, 2012, for loss of Control Room Air Conditioning and Emergency Ventilation (CREV) due to failure of the control building instrument air dryer.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	1.09E-09	2.46E-09	-4.61E-09	1.48E-09	2.10E-08	2.42E-08	2.19E-08	2.97E-08
URI (ΔCDF)	1.12E-08	-2.56E-08	-2.21E-08	1.79E-08	1.92E-08	2.05E-08	-7.38E-08	-1.18E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-08**	**-2.30E-08**	**-2.70E-08**	**1.90E-08**	**4.00E-08**	**4.50E-08**	**-5.20E-08**	**-8.80E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

1Q/12: The emergency diesel generators run time hours were revised to incorporate NRC approved FAQ 480. The

run time hours decreased, and were entered as estimated beginning in the first quarter of 2012. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011.

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)	-3.45E-09	-1.51E-09	-4.24E-09	-4.24E-09	-2.86E-09	3.70E-09	1.58E-09	1.16E-09
URI (ΔCDF)	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.00E-08**	**-1.30E-08**	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**	**-7.10E-09**	**-4.90E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.00E-08	8.07E-09	9.78E-09	9.63E-09	1.28E-08	1.37E-08	1.55E-08	1.05E-08
URI (ΔCDF)	-4.00E-10	-6.70E-10	-9.35E-10	-1.19E-09	-1.19E-09	-1.19E-09	-1.19E-09	-8.26E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.60E-09**	**7.40E-09**	**8.80E-09**	**8.40E-09**	**1.20E-08**	**1.30E-08**	**1.40E-08**	**9.70E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	7.99E-08	6.84E-08	7.89E-08	5.28E-08	4.38E-08	2.37E-08	3.47E-08	3.75E-08
URI (ΔCDF)	-8.64E-08	-8.45E-08	-8.24E-08	-8.03E-08	-8.03E-08	-8.03E-08	-8.03E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.50E-09**	**-1.60E-08**	**-3.60E-09**	**-2.70E-08**	**-3.60E-08**	**-5.70E-08**	**-4.60E-08**	**-3.10E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

1Q/12: Changed PRA Parameter(s). The planned baseline unavailability hours were revised to include a chemical decontamination of the Unit 2 RHR system (an infrequent activity). These hours shall be removed beginning in the 4th quarter of 2014. The Brunswick MSPI Basis Document was revised in the 4th quarter of 2011, incorporating these changes.

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)	3.26E-08	2.89E-08	2.81E-08	2.94E-08	3.73E-08	4.57E-08	5.44E-09	-2.06E-09
URI (ΔCDF)	-3.70E-09	-3.71E-09	-3.71E-09	-3.72E-09	-3.73E-09	-2.39E-09	-2.51E-09	-1.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-08**	**2.50E-08**	**2.40E-08**	**2.60E-08**	**3.40E-08**	**4.30E-08**	**2.90E-09**	**-1.90E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum activity	0.000230	0.000236	0.000312	0.000262	0.000248	0.000233	0.000245	0.000290	0.000248	0.000224	0.000209	0.000225
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum activity	0.000207	0.000314	0.000345	N/A	0.000074	0.000086	0.000089	0.000097	0.000105	0.000106	0.000102	0.000106
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**N/A**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	2.110	2.040	2.040	2.040	2.060	2.070	2.080	2.070	2.080	2.090	2.090	2.100
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**8.2**	**8.2**	**8.2**	**8.2**	**8.3**	**8.3**	**8.3**	**8.3**	**8.4**	**8.4**	**8.4**
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	2.120	2.080	2.040	N/A	2.020	2.060	2.030	2.035	2.037	2.028	2.037	2.016
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	8.0	17.0	26.0	46.0	22.0	25.0	18.0	54.0
Total opportunities	8.0	18.0	27.0	47.0	22.0	28.0	18.0	54.0
Indicator value	**98.6%**	**99.0%**	**98.3%**	**98.4%**	**98.5%**	**96.9%**	**97.1%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	103.0	103.0	100.0	97.0	98.0	94.0	95.0	98.0
Total Key personnel	103.0	103.0	100.0	97.0	98.0	94.0	95.0	98.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	532	532	531	570	532	532	532	608
Total sirens-tests	532	532	532	570	532	532	532	608
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: January 22, 2014

Brunswick 2

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: In March a revised data sheet was provided for December 2013 Unplanned Power Change. The unplanned power change was revised from unplanned to unplanned, but excluded. The power change was revised based on the generator being removed from the grid to implement repairs on the 2A phase no load disconnect switch earlier than scheduled at the request of the load dispatcher.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1460.9	1353.3	2208.0	2209.0	2159.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	0	2.0	0	0	1.0	0	0
Critical hours	2184.0	2208.0	2209.0	1460.9	1353.3	2208.0	2209.0	2159.0
Indicator value	**1.7**	**1.7**	**2.4**	**1.7**	**1.9**	**2.9**	**1.0**	**0.9**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

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 > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	0	0	1	0	0	1	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**1**

Licensee Comments:

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

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)	2.46E-09	-4.61E-09	1.48E-09	2.10E-08	2.42E-08	2.19E-08	2.97E-08	1.69E-07
URI (ΔCDF)	-2.56E-08	-2.21E-08	1.79E-08	1.92E-08	2.05E-08	-7.38E-08	-1.18E-07	-1.17E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-08**	**-2.70E-08**	**1.90E-08**	**4.00E-08**	**4.50E-08**	**-5.20E-08**	**-8.80E-08**	**5.20E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	-1.51E-09	-4.24E-09	-4.24E-09	-2.86E-09	3.70E-09	1.58E-09	1.16E-09	8.75E-10
URI (ΔCDF)	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.30E-08**	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**	**-7.10E-09**	**-4.90E-09**	**-5.20E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	8.07E-09	9.78E-09	9.63E-09	1.28E-08	1.37E-08	1.55E-08	1.05E-08	8.66E-09
URI (ΔCDF)	-6.70E-10	-9.35E-10	-1.19E-09	-1.19E-09	-1.19E-09	-1.19E-09	-8.26E-10	-8.26E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.40E-09**	**8.80E-09**	**8.40E-09**	**1.20E-08**	**1.30E-08**	**1.40E-08**	**9.70E-09**	**7.80E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	6.84E-08	7.89E-08	5.28E-08	4.38E-08	2.37E-08	3.47E-08	3.75E-08	3.06E-08
URI (ΔCDF)	-8.45E-08	-8.24E-08	-8.03E-08	-8.03E-08	-8.03E-08	-8.03E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-3.60E-09**	**-2.70E-08**	**-3.60E-08**	**-5.70E-08**	**-4.60E-08**	**-3.10E-08**	**-3.70E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	2.89E-08	2.81E-08	2.94E-08	3.73E-08	4.57E-08	5.44E-09	-2.06E-09	-2.74E-09
URI (ΔCDF)	-3.71E-09	-3.71E-09	-3.72E-09	-3.73E-09	-2.39E-09	-2.51E-09	-1.72E-08	-1.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-08**	**2.40E-08**	**2.60E-08**	**3.40E-08**	**4.30E-08**	**2.90E-09**	**-1.90E-08**	**-2.00E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum activity	0.000262	0.000248	0.000233	0.000245	0.000290	0.000248	0.000224	0.000209	0.000225	0.000207	0.000314	0.000345
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**

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	N/A	0.000074	0.000086	0.000089	0.000097	0.000105	0.000106	0.000102	0.000106	0.000101	0.000106	0.000117
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	2.040	2.060	2.070	2.080	2.070	2.080	2.090	2.090	2.100	2.120	2.080	2.040
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.2**	**8.2**	**8.3**	**8.3**	**8.3**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.3**	**8.2**
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	N/A	2.020	2.060	2.030	2.035	2.037	2.028	2.037	2.016	2.018	2.010	2.024
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**8.1**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.0**	**8.1**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	17.0	26.0	46.0	22.0	25.0	18.0	54.0	20.0
Total opportunities	18.0	27.0	47.0	22.0	28.0	18.0	54.0	20.0
Indicator value	**99.0%**	**98.3%**	**98.4%**	**98.5%**	**96.9%**	**97.1%**	**97.3%**	**97.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	103.0	100.0	97.0	98.0	94.0	95.0	98.0	95.0
Total Key personnel	103.0	100.0	97.0	98.0	94.0	95.0	98.0	95.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	532	531	570	532	532	532	608	494
Total sirens-tests	532	532	570	532	532	532	608	494
Indicator value	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: April 23, 2014

Brunswick 2

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Originally, one SSFF for Unit 2 was reported for November 2013 based on submittal of LER 1-2013-003, regarding Service Water inoperability due to aggregate flooding deficiencies. LER 1-2013-003 was cancelled by letter dated 6/13/14. As such, the total number of Unit 2 SSFFs for November 2013 was revised from 1 to 0. This change did not affect the "color" of the indicator or exceed any thresholds.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1460.9	1353.3	2208.0	2209.0	2159.0	2184.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	2.0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	1460.9	1353.3	2208.0	2209.0	2159.0	2184.0
Indicator value	**1.7**	**2.4**	**1.7**	**1.9**	**2.9**	**1.0**	**0.9**	**0.8**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

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 > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	1	0	0	0	0	2
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**0**	**2**

Licensee Comments:

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

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2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

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)	-4.61E-09	1.48E-09	2.10E-08	2.42E-08	2.19E-08	2.97E-08	1.69E-07	1.85E-07
URI (ΔCDF)	-2.21E-08	1.79E-08	1.92E-08	2.05E-08	-7.38E-08	-1.18E-07	-1.17E-07	-5.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
	-2.70E-	**1.90E-**	**4.00E-**	**4.50E-**	**-5.20E-**	**-8.80E-**	**5.20E-**	**1.30E-**

Indicator value	**08**	**08**	**08**	**08**	**08**	**08**	**08**	**07**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	-4.24E-09	-4.24E-09	-2.86E-09	3.70E-09	1.58E-09	1.16E-09	8.75E-10	9.26E-11
URI (ΔCDF)	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**	**-7.10E-09**	**-4.90E-09**	**-5.20E-09**	**-6.00E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	9.78E-09	9.63E-09	1.28E-08	1.37E-08	1.55E-08	1.05E-08	8.66E-09	4.27E-09
URI (ΔCDF)	-9.35E-10	-1.19E-09	-1.19E-09	-1.19E-09	-1.19E-09	-8.26E-10	-8.26E-10	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.80E-09**	**8.40E-09**	**1.20E-08**	**1.30E-08**	**1.40E-08**	**9.70E-09**	**7.80E-09**	**-6.70E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change

to the CDF.

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)	7.89E-08	5.28E-08	4.38E-08	2.37E-08	3.47E-08	3.75E-08	3.06E-08	2.67E-08
URI (ΔCDF)	-8.24E-08	-8.03E-08	-8.03E-08	-8.03E-08	-8.03E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.60E-09**	**-2.70E-08**	**-3.60E-08**	**-5.70E-08**	**-4.60E-08**	**-3.10E-08**	**-3.70E-08**	**-4.10E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	2.81E-08	2.94E-08	3.73E-08	4.57E-08	5.44E-09	-2.06E-09	-2.74E-09	7.65E-10
URI (ΔCDF)	-3.71E-09	-3.72E-09	-3.73E-09	-2.39E-09	-2.51E-09	-1.72E-08	-1.73E-08	-1.74E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-08**	**2.60E-08**	**3.40E-08**	**4.30E-08**	**2.90E-09**	**-1.90E-08**	**-2.00E-08**	**-1.70E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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	0.000245	0.000290	0.000248	0.000224	0.000209	0.000225	0.000207	0.000314	0.000345	N/A	0.000074	0.000086
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**N/A**	**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	0.000089	0.000097	0.000105	0.000106	0.000102	0.000106	0.000101	0.000106	0.000117	0.000109	0.000106	0.000106
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	2.080	2.070	2.080	2.090	2.090	2.100	2.120	2.080	2.040	N/A	2.020	2.060
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.3**	**8.3**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**

Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	2.030	2.035	2.037	2.028	2.037	2.016	2.018	2.010	2.024	2.028	2.026	2.029
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**8.1**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	26.0	46.0	22.0	25.0	18.0	54.0	20.0	22.0
Total opportunities	27.0	47.0	22.0	28.0	18.0	54.0	20.0	23.0
Indicator value	**98.3%**	**98.4%**	**98.5%**	**96.9%**	**97.1%**	**97.3%**	**97.4%**	**97.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	100.0	97.0	98.0	94.0	95.0	98.0	95.0	100.0
Total Key personnel	100.0	97.0	98.0	94.0	95.0	98.0	95.0	100.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	531	570	532	532	532	608	494	532
Total sirens-tests	532	570	532	532	532	608	494	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: July 31, 2014

Brunswick 2

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1460.9	1353.3	2208.0	2209.0	2159.0	2184.0	2208.0
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/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	2.0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1460.9	1353.3	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	**2.4**	**1.7**	**1.9**	**2.9**	**1.0**	**0.9**	**0.8**	**0**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

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 > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	0	1	0	0	0	0	2	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**0**	**2**	**2**

Licensee Comments:

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	1.48E-09	2.10E-08	2.42E-08	2.19E-08	2.97E-08	1.69E-07	1.85E-07	1.91E-07
URI (ΔCDF)	1.79E-08	1.92E-08	2.05E-08	-7.38E-08	-1.18E-07	-1.17E-07	-5.04E-08	9.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-08**	**4.00E-08**	**4.50E-08**	**-5.20E-08**	**-8.80E-08**	**5.20E-08**	**1.30E-07**	**2.00E-07**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	-4.24E-09	-2.86E-09	3.70E-09	1.58E-09	1.16E-09	8.75E-10	9.26E-11	8.44E-09
URI (ΔCDF)	-8.63E-09	-8.63E-09	-8.63E-09	-8.63E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.10E-08**	**-4.90E-09**	**-7.10E-09**	**-4.90E-09**	**-5.20E-09**	**-6.00E-09**	**2.30E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered

into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	9.63E-09	1.28E-08	1.37E-08	1.55E-08	1.05E-08	8.66E-09	4.27E-09	6.65E-09
URI (ΔCDF)	-1.19E-09	-1.19E-09	-1.19E-09	-1.19E-09	-8.26E-10	-8.26E-10	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.40E-09**	**1.20E-08**	**1.30E-08**	**1.40E-08**	**9.70E-09**	**7.80E-09**	**-6.70E-09**	**-4.30E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	5.28E-08	4.38E-08	2.37E-08	3.47E-08	3.75E-08	3.06E-08	2.67E-08	1.37E-08
URI (ΔCDF)	-8.03E-08	-8.03E-08	-8.03E-08	-8.03E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-08**	**-3.60E-08**	**-5.70E-08**	**-4.60E-08**	**-3.10E-08**	**-3.70E-08**	**-4.10E-08**	**-5.40E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	2.94E-08	3.73E-08	4.57E-08	5.44E-09	-2.06E-09	-2.74E-09	7.65E-10	-1.57E-08
URI (ΔCDF)	-3.72E-09	-3.73E-09	-2.39E-09	-2.51E-09	-1.72E-08	-1.73E-08	-1.74E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-08**	**3.40E-08**	**4.30E-08**	**2.90E-09**	**-1.90E-08**	**-2.00E-08**	**-1.70E-08**	**-3.10E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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	0.000224	0.000209	0.000225	0.000207	0.000314	0.000345	N/A	0.000074	0.000086	0.000089	0.000097	0.000105
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**N/A**	**0**	**0**	**0**	**0**	**0.1**

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	0.000106	0.000102	0.000106	0.000101	0.000106	0.000117	0.000109	0.000106	0.000106	0.000101	0.000137	0.000105
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	2.090	2.090	2.100	2.120	2.080	2.040	N/A	2.020	2.060	2.030	2.035	2.037
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**8.4**	**8.4**	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**	**8.1**	**8.1**	**8.1**

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	2.028	2.037	2.016	2.018	2.010	2.024	2.028	2.026	2.029	2.042	2.047	2.061
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**8.1**	**8.2**	**8.2**	**8.2**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	46.0	22.0	25.0	18.0	54.0	20.0	22.0	33.0
Total opportunities	47.0	22.0	28.0	18.0	54.0	20.0	23.0	33.0
Indicator value	**98.4%**	**98.5%**	**96.9%**	**97.1%**	**97.3%**	**97.4%**	**97.5%**	**98.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	97.0	98.0	94.0	95.0	98.0	95.0	100.0	94.0
Total Key personnel	97.0	98.0	94.0	95.0	98.0	95.0	100.0	94.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	570	532	532	532	608	494	532	570
Total sirens-tests	570	532	532	532	608	494	532	570
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: November 3, 2014

Brunswick 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1460.9	1353.3	2208.0	2209.0	2159.0	2184.0	2208.0	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/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1460.9	1353.3	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0
Indicator value	**1.7**	**1.9**	**2.9**	**1.0**	**0.9**	**0.8**	**0**	**0**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

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 > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	1	0	0	0	0	1	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**1**	**1**	**1**

Licensee Comments:

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. A SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. Additionally, a SSFF reported in June 2014 was removed based on the cancellation of LER 2-2014-002 by letter dated 12/04/14. A change file was created in December 2014. These changes did not affect the "color" of the indicator.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from

vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

1Q/13: LER 1-2012-007 was submitted on February 12, 2013, for an MSPI Safety System Functional Failure (SSFF) that occurred on Unit 1 and Unit 2 for the loss of Control Room Emergency Ventilation (CREV). The loss of CREV occurred due to a human performance error during implementation of a plant modification. It is applicable to both Units since Brunswick has a shared control room.

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)	2.10E-08	2.42E-08	2.19E-08	2.97E-08	1.69E-07	1.85E-07	1.92E-07	1.98E-07

URI (ΔCDF)	1.92E-08	2.05E-08	-7.38E-08	-1.18E-07	-1.17E-07	-5.04E-08	9.75E-09	7.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.00E-08**	**4.50E-08**	**-5.20E-08**	**-8.80E-08**	**5.20E-08**	**1.30E-07**	**2.00E-07**	**2.70E-07**

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

2Q/13: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

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)	-2.86E-09	3.70E-09	1.58E-09	1.16E-09	8.75E-10	9.26E-11	8.44E-09	8.68E-09
URI (ΔCDF)	-8.63E-09	-8.63E-09	-8.63E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-4.90E-09**	**-7.10E-09**	**-4.90E-09**	**-5.20E-09**	**-6.00E-09**	**2.30E-09**	**2.60E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.28E-08	1.37E-08	1.55E-08	1.05E-08	8.66E-09	4.27E-09	6.65E-09	3.82E-09
URI (ΔCDF)	-1.19E-09	-1.19E-09	-1.19E-09	-8.26E-10	-8.26E-10	-1.10E-08	-1.10E-08	-1.10E-08

PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-08**	**1.30E-08**	**1.40E-08**	**9.70E-09**	**7.80E-09**	**-6.70E-09**	**-4.30E-09**	**-7.20E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	4.38E-08	2.37E-08	3.47E-08	3.75E-08	3.06E-08	2.67E-08	1.37E-08	-1.44E-08
URI (ΔCDF)	-8.03E-08	-8.03E-08	-8.03E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
	-3.60E-	**-5.70E-**	**-4.60E-**	**-3.10E-**	**-3.70E-**	**-4.10E-**	**-5.40E-**	**-8.30E-**

Indicator value	**08**	**08**	**08**	**08**	**08**	**08**	**08**	**08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	3.73E-08	4.57E-08	5.44E-09	-2.06E-09	-2.74E-09	7.65E-10	-1.57E-08	-1.32E-08
URI (ΔCDF)	-3.73E-09	-2.39E-09	-2.51E-09	-1.72E-08	-1.73E-08	-1.74E-08	-1.55E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.40E-08**	**4.30E-08**	**2.90E-09**	**-1.90E-08**	**-2.00E-08**	**-1.70E-08**	**-3.10E-08**	**-2.90E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum activity	0.000207	0.000314	0.000345	N/A	0.000074	0.000086	0.000089	0.000097	0.000105	0.000106	0.000102	0.000106
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.2**	**0.2**	**N/A**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**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	0.000101	0.000106	0.000117	0.000109	0.000106	0.000106	0.000101	0.000137	0.000105	0.000122	0.000105	0.000109
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

Reactor Coolant System Leakage

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	2.120	2.080	2.040	N/A	2.020	2.060	2.030	2.035	2.037	2.028	2.037	2.016
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.3**	**8.2**	**N/A**	**8.1**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**

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	2.018	2.010	2.024	2.028	2.026	2.029	2.042	2.047	2.061	2.029	2.036	2.026
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**8.1**	**8.2**	**8.2**	**8.2**	**8.1**	**8.1**	**8.1**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	22.0	25.0	18.0	54.0	20.0	22.0	33.0	19.0
Total opportunities	22.0	28.0	18.0	54.0	20.0	23.0	33.0	19.0
Indicator value	**98.5%**	**96.9%**	**97.1%**	**97.3%**	**97.4%**	**97.5%**	**98.0%**	**98.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	98.0	94.0	95.0	98.0	95.0	100.0	94.0	92.0
Total Key personnel	98.0	94.0	95.0	98.0	95.0	100.0	94.0	92.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	532	532	532	608	494	532	570	570
Total sirens-tests	532	532	532	608	494	532	570	570
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: February 3, 2015

Brunswick 2

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1353.3	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1220.5
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1353.3	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1220.5
Indicator value	**1.9**	**2.9**	**1.0**	**0.9**	**0.8**	**0**	**0**	**0**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

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 > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**1**	**1**	**1**	**1**

Licensee Comments:

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. A SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. Additionally, a SSFF reported in June 2014 was removed based on the cancellation of LER 2-2014-002 by letter dated 12/04/14. A change file was created in December 2014. These changes did not affect the "color" of the indicator.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from

vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

2Q/13: LER 2-2013-002 was submitted on May 28, 2013, for loss of safetyy function due to the A Loop of RHR being declared inoperable when a valve was discovered with broken yoke-to-bonnet stud, while the B Loop was inoperable due to scheduled maintenance.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	2.42E-08	2.19E-08	2.97E-08	1.69E-07	1.85E-07	1.92E-07	1.98E-07	2.07E-07
URI (ΔCDF)	2.05E-08	-7.38E-08	-1.18E-07	-1.17E-07	-5.04E-08	9.75E-09	7.62E-08	1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	4.50E-08	-5.20E-08	-8.80E-08	5.20E-08	1.30E-07	2.00E-07	2.70E-07	3.50E-07

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

2Q/13: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

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)	3.70E-09	1.58E-09	1.16E-09	8.75E-10	9.26E-11	8.44E-09	8.68E-09	9.33E-09
URI (ΔCDF)	-8.63E-09	-8.63E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**-4.90E-09**	**-7.10E-09**	**-4.90E-09**	**-5.20E-09**	**-6.00E-09**	**2.30E-09**	**2.60E-09**	**3.20E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.37E-08	1.55E-08	1.05E-08	8.66E-09	4.27E-09	6.65E-09	3.82E-09	2.81E-09
URI (ΔCDF)	-1.19E-09	-1.19E-09	-8.26E-10	-8.26E-10	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-08**	**1.40E-08**	**9.70E-09**	**7.80E-09**	**-6.70E-09**	**-4.30E-09**	**-7.20E-09**	**-8.20E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	2.37E-08	3.47E-08	3.75E-08	3.06E-08	2.67E-08	1.37E-08	-1.44E-08	-3.37E-08
URI (ΔCDF)	-8.03E-08	-8.03E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-4.60E-08**	**-3.10E-08**	**-3.70E-08**	**-4.10E-08**	**-5.40E-08**	**-8.30E-08**	**-1.00E-07**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered

into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	4.57E-08	5.44E-09	-2.06E-09	-2.74E-09	7.65E-10	-1.57E-08	-1.32E-08	-2.19E-08
URI (ΔCDF)	-2.39E-09	-2.51E-09	-1.72E-08	-1.73E-08	-1.74E-08	-1.55E-08	-1.55E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.30E-08**	**2.90E-09**	**-1.90E-08**	**-2.00E-08**	**-1.70E-08**	**-3.10E-08**	**-2.90E-08**	**-3.70E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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	N/A	0.000074	0.000086	0.000089	0.000097	0.000105	0.000106	0.000102	0.000106	0.000101	0.000106	0.000117
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum activity	0.000109	0.000106	0.000106	0.000101	0.000137	0.000105	0.000122	0.000105	0.000109	0.000111	0.000101	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**

Licensee Comments:

6/13: RCS Specific Activity calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	N/A	2.020	2.060	2.030	2.035	2.037	2.028	2.037	2.016	2.018	2.010	2.024
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**8.1**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.0**	**8.1**
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	2.028	2.026	2.029	2.042	2.047	2.061	2.029	2.036	2.026	2.024	2.021	N/A
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.2**	**8.2**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**N/A**

Licensee Comments:

6/13: RCS Leakage calculations were unavailable for the month of April due to existing plant conditions while Unit 2 was in refueling outage B221R1 the entire month.

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	25.0	18.0	54.0	20.0	22.0	33.0	19.0	8.0
Total opportunities	28.0	18.0	54.0	20.0	23.0	33.0	19.0	8.0
Indicator value	**96.9%**	**97.1%**	**97.3%**	**97.4%**	**97.5%**	**98.0%**	**98.2%**	**98.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	94.0	95.0	98.0	95.0	100.0	94.0	92.0	93.0
Total Key personnel	94.0	95.0	98.0	95.0	100.0	94.0	92.0	93.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	532	532	608	494	532	570	570	532
Total sirens-tests	532	532	608	494	532	570	570	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: April 23, 2015

Brunswick 2

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Planned unavailable hours for one component during one time period was updated based on a review of Operations logs. Planned unavailable hours were added to the 2C CSW pump for Aug. 2014. This change did not affect the "color" of the indicator.

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	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1220.5	2102.0
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/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1220.5	2102.0
Indicator value	**2.9**	**1.0**	**0.9**	**0.8**	**0**	**0**	**0**	**0**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	1	0	0	0	1
Indicator value	**1**	**1**	**0**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. A SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. Additionally, a SSFF reported in June 2014 was removed based on the cancellation of LER 2-2014-002 by letter dated 12/04/14. A change file was created in December 2014. These changes did not affect the "color" of the indicator.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation

prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

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)	2.19E-08	2.97E-08	1.69E-07	1.85E-07	1.92E-07	1.98E-07	2.07E-07	1.95E-07
URI (ΔCDF)	-7.38E-08	-1.18E-07	-1.17E-07	-5.04E-08	9.75E-09	7.62E-08	1.42E-07	1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-08**	**-8.80E-08**	**5.20E-08**	**1.30E-07**	**2.00E-07**	**2.70E-07**	**3.50E-07**	**3.40E-07**

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.58E-09	1.16E-09	8.75E-10	9.26E-11	8.44E-09	8.68E-09	9.33E-09	9.26E-09
URI (ΔCDF)	-8.63E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.10E-09**	**-4.90E-09**	**-5.20E-09**	**-6.00E-09**	**2.30E-09**	**2.60E-09**	**3.20E-09**	**3.20E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.55E-08	1.05E-08	8.66E-09	4.27E-09	6.65E-09	3.82E-09	2.81E-09	2.58E-09
URI (ΔCDF)	-1.19E-09	-8.26E-10	-8.26E-10	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-08**	**9.70E-09**	**7.80E-09**	**-6.70E-09**	**-4.30E-09**	**-7.20E-09**	**-8.20E-09**	**-8.40E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	3.47E-08	3.75E-08	3.06E-08	2.67E-08	1.37E-08	-1.44E-08	-3.37E-08	-3.38E-08
URI (ΔCDF)	-8.03E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.60E-08**	**-3.10E-08**	**-3.70E-08**	**-4.10E-08**	**-5.40E-08**	**-8.30E-08**	**-1.00E-07**	**-1.00E-07**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	5.44E-09	-2.06E-09	-2.74E-09	7.65E-10	-1.57E-08	-1.31E-08	-2.19E-08	-2.05E-08
URI (ΔCDF)	-2.51E-09	-1.72E-08	-1.73E-08	-1.74E-08	-1.55E-08	-1.55E-08	-1.55E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-09**	**-1.90E-08**	**-2.00E-08**	**-1.70E-08**	**-3.10E-08**	**-2.90E-08**	**-3.70E-08**	**-3.60E-08**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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	0.000089	0.000097	0.000105	0.000106	0.000102	0.000106	0.000101	0.000106	0.000117	0.000109	0.000106	0.000106
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**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	0.000101	0.000137	0.000105	0.000122	0.000105	0.000109	0.000111	0.000101	N/A	0.000060	0.000056	0.000057
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	2.030	2.035	2.037	2.028	2.037	2.016	2.018	2.010	2.024	2.028	2.026	2.029
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**8.1**
Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	2.042	2.047	2.061	2.029	2.036	2.026	2.024	2.021	N/A	2.053	2.070	2.090
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.2**	**8.2**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**N/A**	**8.2**	**8.3**	**8.4**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	18.0	54.0	20.0	22.0	33.0	19.0	8.0	21.0
Total opportunities	18.0	54.0	20.0	23.0	33.0	19.0	8.0	22.0
Indicator value	**97.1%**	**97.3%**	**97.4%**	**97.5%**	**98.0%**	**98.2%**	**98.0%**	**99.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	95.0	98.0	95.0	100.0	94.0	92.0	93.0	101.0
Total Key personnel	95.0	98.0	95.0	100.0	94.0	92.0	93.0	101.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	532	608	494	532	570	570	532	532
Total sirens-tests	532	608	494	532	570	570	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: July 24, 2015

Brunswick 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2209.0	1220.5	2102.0	2208.0
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/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2209.0	1220.5	2102.0	2208.0
Indicator value	**1.0**	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	1	0	0	0	1	1
Indicator value	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**2**

Licensee Comments:

3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. A SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. Additionally, a SSFF reported in June 2014 was removed based on the cancellation of LER 2-2014-002 by letter dated 12/04/14. A change file was created in December 2014. These changes did not affect the "color" of the indicator.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from

vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

4Q/13: LER 2-2013-002, was submitted on 05/28/13 for the loss of safety function of 2-E11-F048 from vibration induced failure. Subsequently, further evaluation determined that the valve remained operable and no loss of safety function occurred. Therefore, the SSFF reported in May 2013 is no longer valid and has been removed from the performance indicator. Also, LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	2.97E-08	1.69E-07	1.85E-07	1.92E-07	1.98E-07	2.07E-07	1.95E-07	1.75E-07
URI (ΔCDF)	-1.18E-07	-1.17E-07	-5.04E-08	9.75E-09	7.62E-08	1.42E-07	1.43E-07	1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.80E-08**	**5.20E-08**	**1.30E-07**	**2.00E-07**	**2.70E-07**	**3.50E-07**	**3.40E-07**	**3.20E-07**

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.16E-09	8.75E-10	9.26E-11	8.44E-09	8.68E-09	9.33E-09	9.26E-09	9.27E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.90E-09**	**-5.20E-09**	**-6.00E-09**	**2.30E-09**	**2.60E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	1.05E-08	8.66E-09	4.27E-09	6.65E-09	3.82E-09	2.81E-09	2.58E-09	1.12E-09
URI (ΔCDF)	-8.26E-10	-8.26E-10	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.70E-09**	**7.80E-09**	**-6.70E-09**	**-4.30E-09**	**-7.20E-09**	**-8.20E-09**	**-8.40E-09**	**-9.90E-09**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change

to the CDF.

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)	3.75E-08	3.06E-08	2.67E-08	1.37E-08	-1.44E-08	-3.37E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-08**	**-3.70E-08**	**-4.10E-08**	**-5.40E-08**	**-8.30E-08**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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)	-2.06E-09	-2.74E-09	7.65E-10	-1.57E-08	-1.31E-08	-2.19E-08	-2.05E-08	-8.13E-09
URI (ΔCDF)	-1.72E-08	-1.73E-08	-1.65E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-2.00E-08**	**-1.60E-08**	**-3.00E-08**	**-2.80E-08**	**-3.60E-08**	**-3.50E-08**	**-2.30E-08**

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis

Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

1Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

4Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

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4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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	0.000106	0.000102	0.000106	0.000101	0.000106	0.000117	0.000109	0.000106	0.000106	0.000101	0.000137	0.000105
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum activity	0.000122	0.000105	0.000109	0.000111	0.000101	N/A	0.000060	0.000056	0.000057	0.000070	0.000070	0.000061
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**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	2.028	2.037	2.016	2.018	2.010	2.024	2.028	2.026	2.029	2.042	2.047	2.061
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**8.1**	**8.2**	**8.2**	**8.2**
Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	2.029	2.036	2.026	2.024	2.021	N/A	2.053	2.070	2.090	2.090	2.110	2.130
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**N/A**	**8.2**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**

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	54.0	20.0	22.0	33.0	19.0	8.0	21.0	30.0
Total opportunities	54.0	20.0	23.0	33.0	19.0	8.0	22.0	31.0
Indicator value	**97.3%**	**97.4%**	**97.5%**	**98.0%**	**98.2%**	**98.0%**	**99.0%**	**98.6%**

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	98.0	95.0	100.0	94.0	92.0	93.0	101.0	106.0
Total Key personnel	98.0	95.0	100.0	94.0	92.0	93.0	101.0	106.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	608	494	532	570	570	532	532	530
Total sirens-tests	608	494	532	570	570	532	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: December 15, 2015

Brunswick 2

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	1220.5	2102.0	2208.0	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/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	2208.0	2209.0	1220.5	2102.0	2208.0	2209.0
Indicator value	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments:

1Q/14: In March a revised data sheet for December 2013 was provided that reclassified the Unplanned Power Change from unplanned to unplanned, but excluded. A change file will be submitted during this quarter.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	1	0	0	0	1	1	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**1**	**2**	**2**

Licensee Comments:

3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. A SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. Additionally, a SSFF reported in June 2014 was removed based on the cancellation of LER 2-2014-002 by letter dated 12/04/14. A change file was created in December 2014. These changes did not affect the "color" of the indicator.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

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)	1.69E-07	1.85E-07	1.92E-07	1.98E-07	2.07E-07	1.95E-07	1.75E-07	1.72E-07
URI (ΔCDF)	-1.17E-07	-5.04E-08	9.75E-09	7.62E-08	1.42E-07	1.43E-07	1.43E-07	7.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.20E-08**	**1.30E-07**	**2.00E-07**	**2.70E-07**	**3.50E-07**	**3.40E-07**	**3.20E-07**	**2.40E-07**

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

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)	8.75E-10	9.26E-11	8.44E-09	8.68E-09	9.33E-09	9.26E-09	9.27E-09	1.08E-08
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-09**	**-6.00E-09**	**2.30E-09**	**2.60E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**4.70E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	8.66E-09	4.27E-09	6.65E-09	3.82E-09	2.81E-09	2.58E-09	1.12E-09	2.11E-09
URI (ΔCDF)	-8.26E-10	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.80E-09**	**-6.70E-09**	**-4.30E-09**	**-7.20E-09**	**-8.20E-09**	**-8.40E-09**	**-9.90E-09**	**-8.90E-09**

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)	3.06E-08	2.67E-08	1.37E-08	-1.44E-08	-3.37E-08	-3.38E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.70E-08**	**-4.10E-08**	**-5.40E-08**	**-8.30E-08**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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)	-2.74E-09	7.65E-10	-1.57E-08	-1.31E-08	-2.19E-08	-2.05E-08	-8.13E-09	-1.23E-08
URI (ΔCDF)	-1.73E-08	-1.65E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-1.60E-08**	**-3.00E-08**	**-2.80E-08**	**-3.60E-08**	**-3.50E-08**	**-2.30E-08**	**-2.70E-08**

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

1Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

4Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

3Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

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	0.000101	0.000106	0.000117	0.000109	0.000106	0.000106	0.000101	0.000137	0.000105	0.000122	0.000105	0.000109
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum activity	0.000111	0.000101	N/A	0.000060	0.000056	0.000057	0.000070	0.000070	0.000061	0.000073	0.000070	0.000078
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum leakage	2.018	2.010	2.024	2.028	2.026	2.029	2.042	2.047	2.061	2.029	2.036	2.026
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.0**	**8.1**	**8.1**	**8.1**	**8.1**	**8.2**	**8.2**	**8.2**	**8.1**	**8.1**	**8.1**
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	2.024	2.021	N/A	2.053	2.070	2.090	2.090	2.110	2.130	2.130	2.120	2.120
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**N/A**	**8.2**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.5**	**8.5**	**8.5**

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	20.0	22.0	33.0	19.0	8.0	21.0	30.0	22.0
Total opportunities	20.0	23.0	33.0	19.0	8.0	22.0	31.0	22.0
Indicator value	**97.4%**	**97.5%**	**98.0%**	**98.2%**	**98.0%**	**99.0%**	**98.6%**	**98.3%**

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	95.0	100.0	94.0	92.0	93.0	101.0	106.0	112.0
Total Key personnel	95.0	100.0	94.0	92.0	93.0	101.0	106.0	112.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	494	532	570	570	532	532	530	570
Total sirens-tests	494	532	570	570	532	532	532	570
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: March 1, 2016

Brunswick 2

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1220.5	2102.0	2208.0	2209.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1220.5	2102.0	2208.0	2209.0	2183.0
Indicator value	**0.8**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.8**

Licensee Comments:

1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	1	0	0	0	1	1	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**

Licensee Comments:

3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. A SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. Additionally, a SSFF reported in June 2014 was removed based on the cancellation of LER 2-2014-002 by letter dated 12/04/14. A change file was created in December 2014. These changes did not affect the "color" of the indicator.

2Q/14: LER 2-2014-001, dated 5/2/14, reported one event where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. LER 2-2014-002, dated 6/19/14, reported one event where a through-wall leak in the Unit 2 Reactor Building rood drain pipe resulted in a SSFF of Secondary Containment. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

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)	1.85E-07	1.92E-07	1.98E-07	2.07E-07	1.95E-07	1.75E-07	1.72E-07	2.76E-07
URI (ΔCDF)	-5.04E-08	9.75E-09	7.62E-08	1.42E-07	1.43E-07	1.43E-07	7.26E-08	2.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**2.00E-07**	**2.70E-07**	**3.50E-07**	**3.40E-07**	**3.20E-07**	**2.40E-07**	**4.80E-07**

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

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)	9.26E-11	8.44E-09	8.68E-09	9.33E-09	9.26E-09	9.27E-09	1.08E-08	8.60E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-09**	**2.30E-09**	**2.60E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**4.70E-09**	**2.50E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	4.27E-09	6.65E-09	3.82E-09	2.81E-09	2.58E-09	1.12E-09	2.11E-09	-1.05E-09
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.70E-09**	**-4.30E-09**	**-7.20E-09**	**-8.20E-09**	**-8.40E-09**	**-9.90E-09**	**-8.90E-09**	**-1.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	2.67E-08	1.37E-08	-1.44E-08	-3.37E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.10E-08**	**-5.40E-08**	**-8.30E-08**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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)	7.65E-10	-1.57E-08	-1.31E-08	-2.19E-08	-2.05E-08	-8.13E-09	-1.23E-08	-2.12E-08
URI (ΔCDF)	-1.65E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-3.00E-08**	**-2.80E-08**	**-3.60E-08**	**-3.50E-08**	**-2.30E-08**	**-2.70E-08**	**-3.60E-08**

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

1Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

4Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

3Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

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	0.000109	0.000106	0.000106	0.000101	0.000137	0.000105	0.000122	0.000105	0.000109	0.000111	0.000101	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**

Reactor Coolant System Activity	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum activity	0.000060	0.000056	0.000057	0.000070	0.000070	0.000061	0.000073	0.000070	0.000078	0.000079	0.000082	0.000089
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum leakage	2.028	2.026	2.029	2.042	2.047	2.061	2.029	2.036	2.026	2.024	2.021	N/A
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.2**	**8.2**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**N/A**
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	2.053	2.070	2.090	2.090	2.110	2.130	2.130	2.120	2.120	2.120	2.120	2.130
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.2**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**

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	22.0	33.0	19.0	8.0	21.0	30.0	22.0	8.0
Total opportunities	23.0	33.0	19.0	8.0	22.0	31.0	22.0	8.0
Indicator value	**97.5%**	**98.0%**	**98.2%**	**98.0%**	**99.0%**	**98.6%**	**98.3%**	**98.2%**

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	100.0	94.0	92.0	93.0	101.0	106.0	112.0	108.0
Total Key personnel	100.0	94.0	92.0	93.0	101.0	106.0	112.0	108.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	532	570	570	532	532	530	570	532
Total sirens-tests	532	570	570	532	532	532	570	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: April 23, 2016

Brunswick 2

2Q/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	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1220.5	2102.0	2208.0	2209.0	2183.0	2184.0
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/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	1220.5	2102.0	2208.0	2209.0	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**

Licensee Comments:

1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	0	1	1	0	0	1
Indicator value	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**

Licensee Comments:

2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.

3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

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)	1.92E-07	1.98E-07	2.07E-07	1.95E-07	1.75E-07	1.72E-07	2.76E-07	2.60E-07
URI (ΔCDF)	9.75E-09	7.62E-08	1.42E-07	1.43E-07	1.43E-07	7.26E-08	2.06E-07	2.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-07**	**2.70E-07**	**3.50E-07**	**3.40E-07**	**3.20E-07**	**2.40E-07**	**4.80E-07**	**4.70E-07**

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	8.44E-09	8.68E-09	9.33E-09	9.26E-09	9.27E-09	1.08E-08	8.60E-09	5.00E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-09**	**2.60E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**4.70E-09**	**2.50E-09**	**-1.10E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	6.65E-09	3.82E-09	2.81E-09	2.58E-09	1.12E-09	2.11E-09	-1.05E-09	-1.08E-09
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.30E-09**	**-7.20E-09**	**-8.20E-09**	**-8.40E-09**	**-9.90E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	1.37E-08	-1.44E-08	-3.37E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.40E-08**	**-8.30E-08**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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)	-1.57E-08	-1.31E-08	-2.19E-08	-2.05E-08	-8.13E-09	-1.23E-08	-2.12E-08	-2.25E-08
URI (ΔCDF)	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-08**	**-2.80E-08**	**-3.60E-08**	**-3.50E-08**	**-2.30E-08**	**-2.70E-08**	**-3.60E-08**	**-4.10E-08**

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

1Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

4Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

3Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant												

System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000101	0.000137	0.000105	0.000122	0.000105	0.000109	0.000111	0.000101	N/A	0.000060	0.000056	0.000057
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000070	0.000070	0.000061	0.000073	0.000070	0.000078	0.000079	0.000082	0.000089	0.000105	0.000102	0.000109
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	2.042	2.047	2.061	2.029	2.036	2.026	2.024	2.021	N/A	2.053	2.070	2.090
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.2**	**8.2**	**8.2**	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**N/A**	**8.2**	**8.3**	**8.4**
Reactor Coolant System Leakage	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum leakage	2.090	2.110	2.130	2.130	2.120	2.120	2.120	2.120	2.130	2.140	2.190	2.570
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**8.4**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.6**	**8.8**	**10.3**

Licensee Comments: none

Drill/Exercise Performance

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	33.0	19.0	8.0	21.0	30.0	22.0	8.0	9.0
Total opportunities	33.0	19.0	8.0	22.0	31.0	22.0	8.0	9.0
Indicator value	**98.0%**	**98.2%**	**98.0%**	**99.0%**	**98.6%**	**98.3%**	**98.2%**	**98.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	94.0	92.0	93.0	101.0	106.0	112.0	108.0	102.0
Total Key personnel	94.0	92.0	93.0	101.0	106.0	112.0	108.0	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	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	570	570	532	532	530	570	532	532
Total sirens-tests	570	570	532	532	532	570	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: July 25, 2016

Brunswick 2

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	0	0	0	0	0	0
Critical hours	2209.0	1220.5	2102.0	2208.0	2209.0	2183.0	2184.0	2208.0
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/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2209.0	1220.5	2102.0	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**1.6**

Licensee Comments:

1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	0	1	1	0	0	1	1
Indicator value	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**

Licensee Comments:

3Q/16: LER 2-2016-002, submitted on 08/29/2016, reported the High Pressure Coolant Injection System becoming inoperable due to a failed relay coil, which resulted in a safety system functional failure.

2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.

3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

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)	1.98E-07	2.07E-07	1.95E-07	1.75E-07	1.72E-07	2.76E-07	2.59E-07	2.58E-07
URI (ΔCDF)	7.62E-08	1.42E-07	1.43E-07	1.43E-07	7.26E-08	2.06E-07	2.07E-07	2.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-07**	**3.50E-07**	**3.40E-07**	**3.20E-07**	**2.40E-07**	**4.80E-07**	**4.70E-07**	**4.70E-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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	8.68E-09	9.33E-09	9.26E-09	9.27E-09	1.08E-08	8.60E-09	5.00E-09	5.20E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**4.70E-09**	**2.50E-09**	**-1.10E-09**	**-9.10E-10**

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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	3.82E-09	2.81E-09	2.58E-09	1.12E-09	2.11E-09	-1.05E-09	-1.08E-09	-3.07E-10
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.20E-09**	**-8.20E-09**	**-8.40E-09**	**-9.90E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-1.44E-08	-3.37E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-1.31E-08	-2.19E-08	-2.05E-08	-8.13E-09	-1.23E-08	-2.12E-08	-2.25E-08	-2.95E-08
URI (ΔCDF)	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.83E-08	-1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-08**	**-3.60E-08**	**-3.50E-08**	**-2.30E-08**	**-2.70E-08**	**-3.60E-08**	**-4.10E-08**	**-4.60E-08**

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

1Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

4Q/14: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

Reactor Coolant System Activity

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	0.000122	0.000105	0.000109	0.000111	0.000101	N/A	0.000060	0.000056	0.000057	0.000070	0.000070	0.000061
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**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	0.000073	0.000070	0.000078	0.000079	0.000082	0.000089	0.000105	0.000102	0.000109	0.000110	0.000119	0.000119
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	2.029	2.036	2.026	2.024	2.021	N/A	2.053	2.070	2.090	2.090	2.110	2.130
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	**N/A**	**8.2**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**
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	2.130	2.120	2.120	2.120	2.120	2.130	2.140	2.190	2.570	2.530	2.530	2.690
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.6**	**8.8**	**10.3**	**10.1**	**10.1**	**10.8**

Licensee Comments: none

Drill/Exercise Performance

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	19.0	8.0	21.0	30.0	22.0	8.0	9.0	29.0
Total opportunities	19.0	8.0	22.0	31.0	22.0	8.0	9.0	30.0
Indicator value	**98.2%**	**98.0%**	**99.0%**	**98.6%**	**98.3%**	**98.2%**	**98.7%**	**98.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	92.0	93.0	101.0	106.0	112.0	108.0	102.0	109.0
Total Key personnel	92.0	93.0	101.0	106.0	112.0	108.0	102.0	109.0
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	570	532	532	530	570	532	532	532
Total sirens-tests	570	532	532	532	570	532	532	532
Indicator value	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: October 23, 2016

Brunswick 2

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1220.5	2102.0	2208.0	2209.0	2183.0	2184.0	2208.0	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/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	1220.5	2102.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**1.6**	**0.8**

Licensee Comments:

1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	1	1	0	0	1	1	0
Indicator value	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**

Licensee Comments:

3Q/16: LER 2-2016-002, submitted on 08/29/2016, reported the High Pressure Coolant Injection System becoming inoperable due to a failed relay coil, which resulted in a safety system functional failure.

2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.

3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

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)	2.07E-07	1.95E-07	1.75E-07	1.72E-07	2.76E-07	2.59E-07	2.58E-07	2.56E-07
URI (ΔCDF)	1.42E-07	1.43E-07	1.43E-07	7.26E-08	2.06E-07	2.07E-07	2.07E-07	2.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.50E-07**	**3.40E-07**	**3.20E-07**	**2.40E-07**	**4.80E-07**	**4.70E-07**	**4.70E-07**	**4.60E-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	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	9.33E-09	9.26E-09	9.27E-09	1.08E-08	8.60E-09	5.00E-09	5.20E-09	5.17E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**3.20E-09**	**3.20E-09**	**4.70E-09**	**2.50E-09**	**-1.10E-09**	**-9.10E-10**	**-9.40E-10**

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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	2.81E-09	2.58E-09	1.12E-09	2.11E-09	-1.05E-09	-1.08E-09	-3.07E-10	-1.41E-10
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.20E-09**	**-8.40E-09**	**-9.90E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.10E-08**	**-1.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-3.37E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-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**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-2.19E-08	-2.05E-08	-8.13E-09	-1.23E-08	-2.12E-08	-2.25E-08	-2.95E-08	-2.95E-08
URI (ΔCDF)	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.83E-08	-1.61E-08	-1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.60E-08**	**-3.50E-08**	**-2.30E-08**	**-2.70E-08**	**-3.60E-08**	**-4.10E-08**	**-4.60E-08**	**-4.60E-08**

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

1Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

Reactor Coolant System Activity

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	0.000111	0.000101	N/A	0.000060	0.000056	0.000057	0.000070	0.000070	0.000061	0.000073	0.000070	0.000078
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**	**10/16**	**11/16**	**12/16**
Maximum activity	0.000079	0.000082	0.000089	0.000105	0.000102	0.000109	0.000110	0.000119	0.000119	0.000100	0.000104	0.000097
Technical specification												

limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

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	2.024	2.021	N/A	2.053	2.070	2.090	2.090	2.110	2.130	2.130	2.120	2.120
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.1**	**8.1**	**N/A**	**8.2**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.5**	**8.5**	**8.5**
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	2.120	2.120	2.130	2.140	2.190	2.570	2.530	2.530	2.690	2.750	2.780	2.820
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**8.5**	**8.6**	**8.8**	**10.3**	**10.1**	**10.1**	**10.8**	**11.0**	**11.1**	**11.3**

Licensee Comments: none

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	8.0	21.0	30.0	22.0	8.0	9.0	29.0	35.0
Total opportunities	8.0	22.0	31.0	22.0	8.0	9.0	30.0	35.0
Indicator value	**98.0%**	**99.0%**	**98.6%**	**98.3%**	**98.2%**	**98.7%**	**98.0%**	**98.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	93.0	101.0	106.0	112.0	108.0	102.0	109.0	112.0
Total Key personnel	93.0	101.0	106.0	112.0	108.0	102.0	109.0	112.0
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	532	532	530	570	532	532	532	532
Total sirens-tests	532	532	532	570	532	532	532	532
Indicator value	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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

Last Modified: January 24, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Brunswick 2 – Quarterly Performance Indicators

1Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

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- Emergency AC Power Systems (MS06)
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- Cooling Water Systems (MS10)
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- Drill/Exercise Performance (EP01)
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- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2102.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1822.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	1.0	0	0	1.0	0	0
Critical hours	2102.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1822.9
Indicator value	**0**	**0**	**0.9**	**0.8**	**0.8**	**1.6**	**0.8**	**0.8**

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Licensee Comments:
1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	1	1	0	0	1	1	0	2
Indicator value	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**4**

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Licensee Comments:
1Q/17: LER 1-2017-001, submitted on March 22, 2017, reports a safety system functional failure (SSFF) of the on-site Emergency AC System. EDG 1 was inoperable coincident with other EDGs at various times. Since it was not known that EDG 1 was inoperable, only one SSFF is counted, consistent with NEI 99-02 guidance. Due to the shared electrical distribution system, this affects Units 1 and 2.
LER 1-2016-006, submitted on Feb. 13, 2017, reports a safety system functional failure (SSFF) of the Control Room Air Conditioning System. Due to the shared control room configuration, this affects Units 1 and 2.
3Q/16: LER 2-2016-002, submitted on 08/29/2016, reported the High Pressure Coolant Injection System becoming inoperable due to a failed relay coil, which resulted in a safety system functional failure.
2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.
3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.
2Q/15: LER 1-2015-002, dated 5/20/15, reported one event where DG3 and DG4 were simultaneously inoperable and considered a SSFF for the onsite standby AC power source. LER 1-2015-002 counted for both Unit 1 and Unit 2.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.95E-07	1.75E-07	1.72E-07	2.76E-07	2.59E-07	2.58E-07	2.56E-07	1.27E-07
URI (ΔCDF)	1.43E-07	1.43E-07	7.26E-08	2.06E-07	2.07E-07	2.07E-07	2.07E-07	3.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.40E-07**	**3.20E-07**	**2.40E-07**	**4.80E-07**	**4.70E-07**	**4.70E-07**	**4.60E-07**	**4.70E-07**

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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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	9.26E-09	9.27E-09	1.08E-08	8.60E-09	5.00E-09	5.20E-09	5.17E-09	5.35E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**3.20E-09**	**4.70E-09**	**2.50E-09**	**-1.10E-09**	**-9.10E-10**	**-9.40E-10**	**-7.60E-10**

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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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	2.58E-09	1.12E-09	2.11E-09	-1.05E-09	-1.08E-09	-3.07E-10	-1.41E-10	4.66E-11
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.40E-09**	**-9.90E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**

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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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-2.87E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-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**	**-1.00E-07**	**-1.00E-07**	**-9.70E-08**

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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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.05E-08	-8.13E-09	-1.23E-08	-2.12E-08	-2.25E-08	-2.95E-08	-2.95E-08	-2.88E-08
URI (ΔCDF)	-1.45E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.83E-08	-1.61E-08	-1.61E-08	-1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-2.30E-08**	**-2.70E-08**	**-3.60E-08**	**-4.10E-08**	**-4.60E-08**	**-4.60E-08**	**-4.50E-08**

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Licensee Comments:
3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.
2Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

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	0.000060	0.000056	0.000057	0.000070	0.000070	0.000061	0.000073	0.000070	0.000078	0.000079	0.000082	0.000089
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000105	0.000102	0.000109	0.000110	0.000119	0.000119	0.000100	0.000104	0.000097	0.000116	0.000116	0.000098
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0**

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Licensee Comments: none

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	2.053	2.070	2.090	2.090	2.110	2.130	2.130	2.120	2.120	2.120	2.120	2.130
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.2**	**8.3**	**8.4**	**8.4**	**8.4**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**

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	2.140	2.190	2.570	2.530	2.530	2.690	2.750	2.780	2.820	2.880	2.870	2.870
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.6**	**8.8**	**10.3**	**10.1**	**10.1**	**10.8**	**11.0**	**11.1**	**11.3**	**11.5**	**11.5**	**11.5**

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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	21.0	30.0	22.0	8.0	9.0	29.0	35.0	23.0
Total opportunities	22.0	31.0	22.0	8.0	9.0	30.0	35.0	23.0
Indicator value	**99.0%**	**98.6%**	**98.3%**	**98.2%**	**98.7%**	**98.0%**	**98.2%**	**98.3%**

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Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	101.0	106.0	112.0	108.0	102.0	109.0	112.0	102.0
Total Key personnel	101.0	106.0	112.0	108.0	102.0	109.0	112.0	102.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	532	530	570	532	532	532	532	532
Total sirens-tests	532	532	570	532	532	532	532	532
Indicator value	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**

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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**

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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**

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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

Brunswick 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: The unavailability for EAC was revised for the months of February and March of 2016 based on oscillation issues observed on EDG1. This change did not affect the color status of the indicator. The CCTV Normalization Factor was revised for March 2017 based on a change to the number CCTV cameras as part of the IDS Project. This change did not affect the color status of the indicator.

On this page:

- Unplanned Scrams (IE01)
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- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1822.9	1870.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	1.0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1822.9	1870.2
Indicator value	**0**	**0.9**	**0.8**	**0.8**	**1.6**	**0.8**	**0.8**	**0.9**

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Licensee Comments:
1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Safety System Functional Failures	1	0	0	1	1	0	2	1
Indicator value	**2**	**2**	**2**	**2**	**2**	**2**	**4**	**4**

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Licensee Comments:
2Q/17: LER 2-2017-002, submitted on 6/9/17, reports a safety system functional failure associated with primary containment.
1Q/17: LER 1-2017-001, submitted on March 22, 2017, reports a safety system functional failure (SSFF) of the on-site Emergency AC System. EDG 1 was inoperable coincident with other EDGs at various times. Since it was not known that EDG 1 was inoperable, only one SSFF is counted, consistent with NEI 99-02 guidance. Due to the shared electrical distribution system, this affects Units 1 and 2.
LER 1-2016-006, submitted on Feb. 13, 2017, reports a safety system functional failure (SSFF) of the Control Room Air Conditioning System. Due to the shared control room configuration, this affects Units 1 and 2.
3Q/16: LER 2-2016-002, submitted on 08/29/2016, reported the High Pressure Coolant Injection System becoming inoperable due to a failed relay coil, which resulted in a safety system functional failure.
2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.
3Q/15: LER 2-2015-003, Revision 1, dated 8/5/15 reported a loss of safety function on the RHRSW system due to an oil leak that rendered an RHRSW system pump inoperable.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.75E-07	1.72E-07	2.76E-07	2.60E-07	2.58E-07	2.56E-07	1.27E-07	1.11E-07
URI (ΔCDF)	1.43E-07	7.26E-08	2.06E-07	2.07E-07	2.07E-07	2.07E-07	3.45E-07	2.79E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**2.40E-07**	**4.80E-07**	**4.70E-07**	**4.70E-07**	**4.60E-07**	**4.70E-07**	**3.90E-07**

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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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	9.27E-09	1.08E-08	8.60E-09	5.00E-09	5.20E-09	5.17E-09	5.35E-09	5.91E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**4.70E-09**	**2.50E-09**	**-1.10E-09**	**-9.10E-10**	**-9.40E-10**	**-7.60E-10**	**-2.00E-10**

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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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.12E-09	2.11E-09	-1.05E-09	-1.08E-09	-3.07E-10	-1.41E-10	4.66E-11	3.52E-10
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.90E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**

TOP

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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-2.87E-08	-2.81E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-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**	**-1.00E-07**	**-9.70E-08**	**-9.60E-08**

TOP

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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-8.13E-09	-1.23E-08	-2.12E-08	-2.25E-08	-2.95E-08	-2.95E-08	-2.88E-08	-3.29E-08
URI (ΔCDF)	-1.45E-08	-1.45E-08	-1.45E-08	-1.83E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-08**	**-2.70E-08**	**-3.60E-08**	**-4.10E-08**	**-4.60E-08**	**-4.60E-08**	**-4.50E-08**	**-4.90E-08**

TOP

Licensee Comments:
3Q/15: Changed PRA Parameter(s). The MSPI Basis document (BNP-PSA-069), Revision 13, was approved on 3/24/14 that corrected data for the Service Water (Cooling Water) pump alignments and various valves. This data was not updated within CDE until 8/24/15 due to lack of communication of the change to the MSPI Basis Document. CDE values for Cooling Water were updated back to the approval date of the MSPI Basis Document. No thresholds were crossed due to this change and the greatest delta in calculated unavailability margin due to this change was only 3%.

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	0.000070	0.000070	0.000061	0.000073	0.000070	0.000078	0.000079	0.000082	0.000089	0.000105	0.000102	0.000109
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000110	0.000119	0.000119	0.000100	0.000104	0.000097	0.000116	0.000116	0.000098	0.000074	0.000071	0.000077
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**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	2.090	2.110	2.130	2.130	2.120	2.120	2.120	2.120	2.130	2.140	2.190	2.570
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**8.4**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.6**	**8.8**	**10.3**

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	2.530	2.530	2.690	2.750	2.780	2.820	2.880	2.870	2.870	2.340	2.390	2.440
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**10.1**	**10.1**	**10.8**	**11.0**	**11.1**	**11.3**	**11.5**	**11.5**	**11.5**	**9.4**	**9.6**	**9.8**

TOP

Licensee Comments: none

Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	30.0	22.0	8.0	9.0	29.0	35.0	23.0	8.0
Total opportunities	31.0	22.0	8.0	9.0	30.0	35.0	23.0	8.0
Indicator value	**98.6%**	**98.3%**	**98.2%**	**98.7%**	**98.0%**	**98.2%**	**98.3%**	**98.8%**

TOP

Licensee Comments: none

Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	106.0	112.0	108.0	102.0	109.0	112.0	102.0	97.0
Total Key personnel	106.0	112.0	108.0	102.0	109.0	112.0	102.0	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	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	530	570	532	532	532	532	532	532
Total sirens-tests	532	570	532	532	532	532	532	532
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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

Brunswick 2 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: The Normalization Factor for both IDS and CCTV for Physical Security were updated for March 2017 and future months.

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	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	2209.0	1822.9	1870.2	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	1.0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	2209.0	1822.9	1870.2	2208.0
Indicator value	**0.9**	**0.8**	**0.8**	**1.6**	**0.8**	**0.8**	**0.9**	**0**

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Licensee Comments:
1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Safety System Functional Failures	0	0	1	1	0	2	1	1
Indicator value	**2**	**2**	**2**	**2**	**2**	**4**	**4**	**4**

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Licensee Comments:
3Q/17: LER 1-2017-003 documented a SSFF of the Control Room AC and Control Room Emergency Ventilation (CREV) system when it was rendered inoperable. LER 1-2017-003 was submitted on Aug. 2, 2017. Because of the shared nature of the Control Rooms at Brunswick, the loss of safety function affects both Unit 1 and Unit 2.
2Q/17: LER 2-2017-002, submitted on 6/9/17, reports a safety system functional failure associated with primary containment.
1Q/17: LER 1-2017-001, submitted on March 22, 2017, reports a safety system functional failure (SSFF) of the on-site Emergency AC System. EDG 1 was inoperable coincident with other EDGs at various times. Since it was not known that EDG 1 was inoperable, only one SSFF is counted, consistent with NEI 99-02 guidance. Due to the shared electrical distribution system, this affects Units 1 and 2.
LER 1-2016-006, submitted on Feb. 13, 2017, reports a safety system functional failure (SSFF) of the Control Room Air Conditioning System. Due to the shared control room configuration, this affects Units 1 and 2.
3Q/16: LER 2-2016-002, submitted on 08/29/2016, reported the High Pressure Coolant Injection System becoming inoperable due to a failed relay coil, which resulted in a safety system functional failure.
2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.72E-07	2.76E-07	2.60E-07	2.58E-07	2.56E-07	1.27E-07	1.11E-07	1.11E-07
URI (ΔCDF)	7.26E-08	2.06E-07	2.07E-07	2.07E-07	2.07E-07	3.45E-07	2.79E-07	2.16E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**4.80E-07**	**4.70E-07**	**4.70E-07**	**4.60E-07**	**4.70E-07**	**3.90E-07**	**3.30E-07**

TOP

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/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.08E-08	8.60E-09	5.00E-09	5.20E-09	5.17E-09	5.35E-09	5.91E-09	-2.75E-09
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.70E-09**	**2.50E-09**	**-1.10E-09**	**-9.10E-10**	**-9.40E-10**	**-7.60E-10**	**-2.00E-10**	**-8.90E-09**

TOP

Licensee Comments: none

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)	2.11E-09	-1.05E-09	-1.08E-09	-3.07E-10	-1.41E-10	4.66E-11	3.52E-10	-1.96E-09
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.30E-08**

TOP

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/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-2.87E-08	-2.81E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-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**	**-9.70E-08**	**-9.60E-08**	**-1.00E-07**

TOP

Licensee Comments: none

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)	-1.23E-08	-2.12E-08	-2.25E-08	-2.95E-08	-2.95E-08	-2.88E-08	-3.29E-08	-2.86E-08
URI (ΔCDF)	-1.45E-08	-1.45E-08	-1.83E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-08**	**-3.60E-08**	**-4.10E-08**	**-4.60E-08**	**-4.60E-08**	**-4.50E-08**	**-4.90E-08**	**-4.70E-08**

TOP

Licensee Comments: none

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	0.000073	0.000070	0.000078	0.000079	0.000082	0.000089	0.000105	0.000102	0.000109	0.000110	0.000119	0.000119
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000100	0.000104	0.000097	0.000116	0.000116	0.000098	0.000074	0.000071	0.000077	0.000088	0.000085	0.000087
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**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	2.130	2.120	2.120	2.120	2.120	2.130	2.140	2.190	2.570	2.530	2.530	2.690
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.5**	**8.6**	**8.8**	**10.3**	**10.1**	**10.1**	**10.8**

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	2.750	2.780	2.820	2.880	2.870	2.870	2.340	2.390	2.440	2.380	2.380	2.430
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.0**	**11.1**	**11.3**	**11.5**	**11.5**	**11.5**	**9.4**	**9.6**	**9.8**	**9.5**	**9.5**	**9.7**

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	22.0	8.0	9.0	29.0	35.0	23.0	8.0	25.0
Total opportunities	22.0	8.0	9.0	30.0	35.0	23.0	8.0	25.0
Indicator value	**98.3%**	**98.2%**	**98.7%**	**98.0%**	**98.2%**	**98.3%**	**98.8%**	**99.4%**

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	112.0	108.0	102.0	109.0	112.0	102.0	97.0	165.0
Total Key personnel	112.0	108.0	102.0	109.0	112.0	102.0	97.0	165.0
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	570	532	532	532	532	532	532	532
Total sirens-tests	570	532	532	532	532	532	532	532
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**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

Brunswick 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: The September 2017 (3Q 2017) ERO Key Personnel Participation indicator was revised based on an arithmetic error when calculating the final value. The indicator color was unaffected by this change and remains Green.

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1822.9	1870.2	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1822.9	1870.2	2208.0	2209.0
Indicator value	**0.8**	**0.8**	**1.6**	**0.8**	**0.8**	**0.9**	**0**	**0**

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Licensee Comments:
4Q/17: On November 26, 2017, the NRC issued license amendments for both BSEP Units 1 and 2 for a one-time extension of the Emergency Diesel Generator completion times from 14 days to 30 days based on an emergency license amendment request. The granting of the emergency license amendment allowed BSEP Units 1 and 2 to stay at full power operation and avoid an unplanned power change of greater than 20-percent of full power.
1Q/16: On March 4, 2016, the NRC approved a Notice of Enforcement Discretion (NOED) associated with the entry into LCO 3.0.3 as directed by Technical Specification (TS) 3.8.1, AC Sources - Operating, for the Brunswick Nuclear Plant, Unit 2. This LCO would have required Unit 2 to initiate actions within 1 hour to place the Unit in Mode 2 within 7 hours. The NOED extended this required action for up to 17 hours, allowing enough time to troubleshoot, repair, and declare Emergency Diesel Generator #3 operable. EDG3 was declared operable within this timeframe, and Unit 2 remained at full power for the entire duration. If the NOED had not been granted, it may have resulted in an unplanned power change of greater than 20% for Unit 2.

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Safety System Functional Failures	0	1	1	0	2	1	1	0
Indicator value	**2**	**2**	**2**	**2**	**4**	**4**	**4**	**4**

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Licensee Comments:
3Q/17: LER 1-2017-003 documented a SSFF of the Control Room AC and Control Room Emergency Ventilation (CREV) system when it was rendered inoperable. LER 1-2017-003 was submitted on Aug. 2, 2017. Because of the shared nature of the Control Rooms at Brunswick, the loss of safety function affects both Unit 1 and Unit 2.
2Q/17: LER 2-2017-002, submitted on 6/9/17, reports a safety system functional failure associated with primary containment.
1Q/17: LER 1-2017-001, submitted on March 22, 2017, reports a safety system functional failure (SSFF) of the on-site Emergency AC System. EDG 1 was inoperable coincident with other EDGs at various times. Since it was not known that EDG 1 was inoperable, only one SSFF is counted, consistent with NEI 99-02 guidance. Due to the shared electrical distribution system, this affects Units 1 and 2.
LER 1-2016-006, submitted on Feb. 13, 2017, reports a safety system functional failure (SSFF) of the Control Room Air Conditioning System. Due to the shared control room configuration, this affects Units 1 and 2.
3Q/16: LER 2-2016-002, submitted on 08/29/2016, reported the High Pressure Coolant Injection System becoming inoperable due to a failed relay coil, which resulted in a safety system functional failure.
2Q/16: LER 1-2016-002, dated 5/2/16, reported one event where EDG 3 failed to start and was considered inoperable. Therefore, this event was counted as a SSFF. This was applicable to both Unit 1 and 2.

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)	2.76E-07	2.60E-07	2.58E-07	2.56E-07	1.27E-07	1.11E-07	1.11E-07	2.18E-07
URI (ΔCDF)	2.06E-07	2.07E-07	2.07E-07	2.07E-07	3.45E-07	2.79E-07	2.16E-07	1.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.80E-07**	**4.70E-07**	**4.70E-07**	**4.60E-07**	**4.70E-07**	**3.90E-07**	**3.30E-07**	**3.70E-07**

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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/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	8.60E-09	5.00E-09	5.20E-09	5.17E-09	5.35E-09	5.91E-09	-2.75E-09	-1.24E-10
URI (ΔCDF)	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09	-6.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-09**	**-1.10E-09**	**-9.10E-10**	**-9.40E-10**	**-7.60E-10**	**-2.00E-10**	**-8.90E-09**	**-6.20E-09**

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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/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.05E-09	-1.08E-09	-3.07E-10	-1.41E-10	4.66E-11	3.52E-10	-1.96E-09	1.51E-09
URI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.30E-08**	**-9.50E-09**

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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/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-2.87E-08	-2.81E-08	-3.38E-08	-3.38E-08
URI (ΔCDF)	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08	-6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.70E-08**	**-9.60E-08**	**-1.00E-07**	**-1.00E-07**

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Licensee Comments: none

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)	-2.12E-08	-2.25E-08	-2.95E-08	-2.95E-08	-2.88E-08	-3.29E-08	-2.86E-08	-3.17E-08
URI (ΔCDF)	-1.45E-08	-1.83E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.83E-08	-1.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.60E-08**	**-4.10E-08**	**-4.60E-08**	**-4.60E-08**	**-4.50E-08**	**-4.90E-08**	**-4.70E-08**	**-5.00E-08**

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Licensee Comments: none

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	0.000079	0.000082	0.000089	0.000105	0.000102	0.000109	0.000110	0.000119	0.000119	0.000100	0.000104	0.000097
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000116	0.000116	0.000098	0.000074	0.000071	0.000077	0.000088	0.000085	0.000087	0.000072	0.000053	0.000046
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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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	2.120	2.120	2.130	2.140	2.190	2.570	2.530	2.530	2.690	2.750	2.780	2.820
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**8.5**	**8.6**	**8.8**	**10.3**	**10.1**	**10.1**	**10.8**	**11.0**	**11.1**	**11.3**

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	2.880	2.870	2.870	2.340	2.390	2.440	2.380	2.380	2.430	2.640	2.400	2.390
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**11.5**	**11.5**	**11.5**	**9.4**	**9.6**	**9.8**	**9.5**	**9.5**	**9.7**	**10.6**	**9.6**	**9.6**

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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	8.0	9.0	29.0	35.0	23.0	8.0	25.0	17.0
Total opportunities	8.0	9.0	30.0	35.0	23.0	8.0	25.0	17.0
Indicator value	**98.2%**	**98.7%**	**98.0%**	**98.2%**	**98.3%**	**98.8%**	**99.4%**	**99.4%**

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Licensee Comments: none

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	108.0	102.0	109.0	112.0	102.0	97.0	151.0	156.0
Total Key personnel	108.0	102.0	109.0	112.0	102.0	97.0	151.0	156.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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Licensee Comments: none

Notes

Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	532	532	532	532	532	532	532	530
Total sirens-tests	532	532	532	532	532	532	532	532
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**

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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**

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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**

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Licensee Comments: none

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Current data as of: February 1, 2018

Page Last Reviewed/Updated Monday, November 06, 2017