

Draft Submittal

BRUNSWICK OCT/NOV 2004

EXAM 50-325, 324/2004-301
OCTOBER 29, 2004 &
NOVEMBER 2 - 10, 2004

- | | | | |
|-------------------------------------|----|---|-------------------------------------|
| <i>RSB</i> | | | <i>BTM</i> |
| <input checked="" type="checkbox"/> | 1. | Administrative Questions /JPMs | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | 2. | In-plant JPMs | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | 3. | Control Room JPMs (simulator JPMs) | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | 4. | Administrative Topics Outline ES-301-1 | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | 5. | Control Room Systems and Facility Walk-Through
Test Outline ES-301-2 | <input checked="" type="checkbox"/> |

Brunswick Nuclear Plant

Initial Examination **DRAFT** Admins/JPMs

Examination Report Nos.

05000325/2004301 - 05000324/204301



Richard S. Baldwin, Chief
Edwin Lea, Sr. Operations Engineer
Timothy C. Kolb, Operations Examiner

Prep - September 18 - 22, 2004
Exam Weeks - November, 1 - 5 & 8 - 12, 2004

Facility: <u>Brunswick</u>		Date of Examination: <u>11/1/2004</u>
Examination Level (circle one): RO		Operating Test Number: <u>1</u>
Administrative Topic (see Note)	Describe activity to be performed:	
Conduct of Operations	ADM1ROCOO - Determine SRM/IRM Overlap Per GP-02.	
Conduct of Operations	ADM2ROCOO – Core Performance Parameter Check	
Equipment Control	ADM3ROEC - Develop a Clearance Boundary - RBCCW Pump 2C.	
Radiation Control	N/A	
Emergency Plan	ADM4ROEP - Estimate Source Term for a Release from the Main Stack per PEP-03.6.1.	
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.		

Facility: <u>Brunswick</u> Date of Examination: <u>11/1/2004</u> Examination Level (circle one): SRO Operating Test Number: <u>1</u>	
Administrative Topic (see Note)	Describe activity to be performed.
Conduct of Operations	ADM1SROCOO - Determine SRM/IRM Overlap Per GP-02 and Technical Specifications.
Conduct of Operations	ADM2SROCOO – Core Performance Parameter Check
Equipment Control	ADM3SROEC - Develop a Clearance Boundary - RBCCW Pump 2C.
Radiation Control	ADM4SR0RC – Evaluate Liquid Discharge Release Permit
Emergency Plan	ADM5SROEP – Make Protective Action Recommendations per PEP-2.6.28
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.	

Facility: <u>Brunswick</u>	Date of Examination: <u>11/1/2004</u>	
Exam Level (circle one): RO	Operating Test No.: <u>1</u>	
Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)		
System / JPM Title	Type Code*	Safety Function
a. Recirculation Pump Start – Recirculation Pump Speed Control Failure	D/A/S	1
b. Startup the Second Reactor Feed Pump per 2OP-32 – DFCS Control Signal Failure	D/A/S/L	2
c. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
d. Vent Primary Containment via SBGT to Control Drywell Pressure per AOP-14	N/S	5
e. Establish UAT Backfeed	D/S	6
f. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
g. Complete the Actions for a Complete Loss Of TBCCW per AOP-17.0	N/S	8
h. Restore RBHVAC with Failure to Isolate	D/A/S	9
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Bypass RWCU Filters per SEP-07	N/R	3
j. Control Room Evacuation per AOP-32, Placing RHR in Suppression Pool Cooling	D/R	5
k. SBO Cross Tying 480V Buses – Breaker Charging Spring Failure	D/A/R	6
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA		

Facility: <u>Brunswick</u>	Date of Examination: <u>11/1/2004</u>	
Exam Level (circle one): SRO(I)	Operating Test No.: <u>1</u>	
Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)		
System / JPM Title	Type Code*	Safety Function
a. Recirculation Pump Start – Recirculation Pump Speed Control Failure	D/A/S	1
b. Startup the Second Reactor Feed Pump per 2OP-32 – DFCS Control Signal Failure	D/A/S/L	2
c. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
d. Establish UAT Backfeed	D/S	6
e. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
f. Complete the Actions for a Complete Loss Of TBCCW per AOP-17.0	N/S	8
g. Restore RBHVAC with Failure to Isolate	D/A/S	9
h.		
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Bypass RWCU Filters per SEP-07	N/R	3
j. Control Room Evacuation per AOP-32, Placing RHR in Suppression Pool Cooling	D/R	5
k. SBO Cross Tying 480V Buses – Breaker Charging Spring Failure	D/A/R	6
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA		

Facility: Brunswick
Exam Level (circle one): SRO(U)

Date of Examination: 11/1/2004
Operating Test No.: 1

Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)

System / JPM Title	Type Code*	Safety Function
a. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
b. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
c. Restore RBHVAC with Failure to Isolate	D/A/S	9
d.		
e.		
f.		
g.		
h.		

In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)

i. Bypass RWCU Filters per SEP-07	N/R	3
j. SBO Cross Tying 480V Buses – Breaker Charging Spring Failure	D/A/R	6
k.		

* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA

Facility: <u>Brunswick</u> Date of Examination: <u>11/1/2004</u> Examination Level (circle one): RO Operating Test Number: <u>1</u>	
Administrative Topic (see Note)	Describe activity to be performed.
Conduct of Operations	ADM1RO - Determine SRM/IRM Overlap Per GP-02.
Conduct of Operations	ADM2RO – Core Performance Parameter Check
Equipment Control	ADM3RO - Develop a Clearance Boundary - RBCCW Pump 2C.
Radiation Control	N/A
Emergency Plan	ADM4RO - Estimate Source Term for a Release from the Main Stack per PEP-03.6.1.
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.	

Facility: <u>Brunswick</u>		Date of Examination: <u>11/1/2004</u>
Examination Level (circle one): SRO		Operating Test Number: <u>1</u>
Administrative Topic (see Note)	Describe activity to be performed-	
Conduct of Operations	ADM1SRO - Determine SRM/IRM Overlap Per GP-02 and Technical Specifications.	
Conduct of Operations	ADM2SRO – Core Performance Parameter Check	
Equipment Control	ADM3SRO - Develop a Clearance Boundary - RBCCW Pump 2C.	
Radiation Control	ADM4SRO – Determine Offsite Release Rate and Complete Notification Form	
Emergency Plan	ADM5SRO – Make Protective Action Recommendations per PEP-2.6.28	
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.		

Facility: <u>Brunswick</u>		Date of Examination: <u>11/1/2004</u>
Exam Level (circle one): RO		Operating Test No.: <u>1</u>
Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)		
System / JPM Title	Type Code*	Safety Function
a. Recirculation Pump Start – Recirculation Pump Speed Control Failure	D/A/S	1
b. Startup the Second Reactor Feed Pump per 2OP-32 – DFCS Control Signal Failure	D/A/S/L	2
c. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
d. Vent Primary Containment via SGBT to Control Drywell Pressure per AOP-14	N/S	5
e. Establish UAT Backfeed	D/S	6
f. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
g. Complete the Actions for a Complete Loss Of TBCCW per AOP-17.0	N/S	8
h. Restore RBHVAC with Failure to Isolate	D/A/S	9
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Bypass RWCU Filters per SEP-07	N/R	3
j. Control Room Evacuation per AOP-32, Placing RHR in Suppression Pool Cooling	D/R	5
k. SBO Cross Tying 480V Buses – Breaker Charging Spring Failure	D/A/R	6
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA		

Facility: <u>Brunswick</u>		Date of Examination: <u>11/1/2004</u>
Exam Level (circle one): SRO(I)		Operating Test No.: <u>1</u>
Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)		
System / JPM Title	Type Code*	Safety Function
a. Recirculation Pump Start – Recirculation Pump Speed Control Failure	D/A/S	1
b. Startup the Second Reactor Feed Pump per 2OP-32 – DFCS Control Signal Failure	D/A/S/L	2
c. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
d. Establish UAT Backfeed	D/S	6
e. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
f. Complete the Actions for a Complete Loss Of TBCCW per AOP-17.0	N/S	8
g. Restore RBHVAC with Failure to Isolate	D/A/S	9
h.		
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Bypass RWCU Filters per SEP-07	N/R	3
j. Control Room Evacuation per AOP-32, Placing RHR in Suppression Pool Cooling	D/R	5
k. SBO Cross Tying 480V Buses – Breaker Charging Spring Failure	D/A/R	6
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA		

Facility: Brunswick
Exam Level (circle one): SRO(U)

Date of Examination: 11/1/2004
Operating Test No.: 1

Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)

System / JPM Title	Type Code*	Safety Function
a. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
b. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
c. Restore RBHVAC with Failure to Isolate	D/A/S	9
d.		
e.		
f.		
g.		
h.		

In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)

i. Bypass RWCU Filters per SEP-07	N/R	3
j. SBO Cross Tying 480V Buses – Breaker Charging Spring Failure	D/A/R	6
k.		

* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA