

Facility: Byron 2008 Exam		Date of Examination: 5/19/08
Examination Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>		Operating Test Number: <u>2008301</u>
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations - Manually Calculate SG Pri- Sec Tube Leakage	N, S or R	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. K/A 2.1.33 Imp Factor 3.4
Equipment Control - Write a Clearance Order for approval	N	Knowledge of Tagging and Clearance Procedures. K/A 2.2.13 Imp Factor 3.6
Radiation Control – Respond to GDT High Activity	D	Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. K/A 2.3.10 Imp Factor 2.9
Emergency Procedures/Plan Respond to Turbine Bldg Fire	N	Knowledge of Fire Protection Procedures. K/A 2.4.25 Imp Factor 3.3
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.		
* Type Codes & Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1 ; randomly selected)		

Facility: <u>Byron Station</u>		Date of Examination: <u>5/19/08</u>
Exam Level: RO <input checked="" type="checkbox"/>	SRO-I <input type="checkbox"/>	SRO-U <input type="checkbox"/>
		Operating Test No.: <u>2008301</u>
Control Room Systems [@] (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)		
System / JPM Title	Type Code*	Safety Function
a. Respond to an ATWS situation K/A 013 A4.01 Imp Factor 4.5/4.8	D, EN, A	1
b. Initiate a 60 PPM Dilution K/A 004A4.07 Imp Factor 3.9/3.7	D, S	2
c. Respond to a Pzr Press Control Malf K/A 010A4.01 Imp Factor 3.7/3.5	D, S	3
d. Respond High RCP Seal Leakoff Flow K/A 003 A2.01 Imp Factor 3.5/3.9	P, M, A, S	4
e. Start the 1B Cnmt Chiller Remotely K/A 022A4.02 Imp Factor 3.2/3.1	N, S, L	5
f. Start and Load the 1A D/G K/A 064A2.09 Imp Factor 3.1/3.3	D, A, S	6
g. Start Post Loca Cnmt H ₂ Monitoring Sys.K/A029A2.04 Imp Factor 2.5/3.2	N, S, EN	8
h. Release Unit 1 Cnmt K/A 071A4.26 Imp Factor 3.1/3.9	N, A, S	9
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. Start CC Hx Outlet Rad Monitor 2PR09J K/A 073 G2.1.30 Imp Factor 3.9/3.4	D	7
j. Parallel DC Busses (one bus de-energized) K/A 058AA1.01 Imp Factor 3.4/3.5	D, E	5
k. Emergency Start 2B AF pump K/A 061A2.04 Imp Factor 3.4/3.8	D, A, R, E	4
<p>@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.</p>		
* Type Codes	Criteria for RO / SRO-I / SRO-U	
(A)lternate path	4-6 / 4-6 / 2-3	
(C)ontrol room		
(D)irect from bank	≤ 9 / ≤ 8 / ≤ 4	
(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1	
(EN)gineered safety feature	- / - / ≥1 (control room system)	
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1	
(N)ew or (M)odified from bank including 1(A)	≥ 2 / ≥ 2 / ≥ 1	
(P)revious 2 exams	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)	
(R)CA	≥ 1 / ≥ 1 / ≥ 1	
(S)imulator		

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Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations – Initiate 1BOL 9.3 for failed source range detector	N	Ability to apply technical specifications for a system. KA 2.1.12 Imp Factor 4.0 (CFR 43.2 / 43.5 / 45.3)
Conduct of Operations - Review Manual Calculation of SG Pri-Sec Tube Leakage	N, S or R	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. K/A 2.1.33 Imp Factor 3.5 (CFR: 43.2 / 43.3 / 45.3)
Equipment Control - Review a Clearance Order for approval	N	Knowledge of Tagging and Clearance Procedures. K/A 2.2.13 Imp Factor 3.8 (CFR: 41.10 / 45.13)
Radiation Control – Review a Liquid Release Package for release approval	N	Knowledge of the requirements for reviewing and approving release permits. KA 2.3.6 Imp Factor 3.1 (CFR: 43.4 / 45.10)
Emergency Procedures/Plan – Prepare a PBI permit	N	Knowledge of fire protection procedures. KA 2.4.25 Imp Factor 3.4 (CFR: 41.10 / 45.13)
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.		
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System / JPM Title	Type Code*	Safety Function
a. Respond to an ATWS situation K/A 013 A4.01 Imp Factor 4.5/4.8	D, EN, A	1
b. Initiate a 60 PPM Dilution K/A 004A4.07 Imp Factor 3.9/3.7	D, S	2
c.		
d. Respond High RCP Seal Leakoff Flow K/A 003 A2.01 Imp Factor 3.5/3.9	P, M, A, S	4
e. Start the 1B Cnmt Chiller Remotely K/A 022A4.02 Imp Factor 3.2/3.1	N, S, L	5
f. Start and Load the 1A D/G K/A 064A2.09 Imp Factor 3.1/3.3	D, A, S	6
g. Start Post Loca Cnmt H ₂ Monitoring Sys.K/A029A2.04 Imp Factor 2.5/3.2	N, S, EN	8
h. Release Unit 1 Cnmt K/A 071A4.26 Imp Factor 3.1/3.9	N, A, S	9
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. Start CC Hx Outlet Rad Monitor 2PR09J K/A 073 G2.1.30 Imp Factor 3.9/3.4	D	7
j. Parallel DC Busses (one bus de-energized) K/A 058AA1.01 Imp Factor 3.4/3.5	D, E	5
k. Emergency Start 2B AF pump K/A 061A2.04 Imp Factor 3.4/3.8	D, A, R, E	4
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(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1	
(EN)gineered safety feature	- / - / ≥1 (control room system)	
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1	
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Conduct of Operations - Review Manual Calculation of SG Pri-Sec Tube Leakage	N, S or R	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. K/A 2.1.33 Imp Factor 3.5 (CFR: 43.2 / 43.3 / 45.3)
Equipment Control - Review a Clearance Order for approval	N	Knowledge of Tagging and Clearance Procedures. K/A 2.2.13 Imp Factor 3.8 (CFR: 41.10 / 45.13)
Radiation Control – Review a Liquid Release Package for release approval	N	Knowledge of the requirements for reviewing and approving release permits. KA 2.3.6 Imp Factor 3.1 (CFR: 43.4 / 45.10)
Emergency Procedures/Plan – Prepare a PBI permit	N	Knowledge of fire protection procedures. KA 2.4.25 Imp Factor 3.4 (CFR: 41.10 / 45.13)
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System / JPM Title	Type Code*	Safety Function
a.		
b. Initiate a 60 PPM Dilution K/A 004A4.07 Imp Factor 3.9/3.7	D, S	2
c.		
d. Respond High RCP Seal Leakoff Flow K/A 003 A2.01 Imp Factor 3.5/3.9	P, M, A, S	4
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f.		
g. Start Post Loca Cnmt H ₂ Monitoring Sys.K/A029A2.04 Imp Factor 2.5/3.2	N, S, EN	8
h.		
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
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j. Parallel DC Busses (one bus de-energized) K/A 058AA1.01 Imp Factor 3.4/3.5	D, E	5
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