

Facility: <u>Byron</u>	Date of Examination: <u>June 2014</u>
Examination Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>	Operating Test Number: <u>2014</u>

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	M, R	Calculate ReMa <i>Modified</i> <span style="float: right;">Imp Factor 3.9</span>
Conduct of Operations	N/A	N/A
Equipment Control	P, R	Identify Leak Isolation Points from Mechanical and Electrical Drawings K/A 2.2.41 <i>2012 NRC</i> <span style="float: right;">Imp Factor 4.1</span>
Radiation Control	D, R	Review RWP for dosimetry settings and protective clothing requirements K/A 2.3.7 <i>Bank</i>
Emergency Procedures/Plan	D, R	Respond to Turbine Building Fire Alarm K/A 2.4.25 <i>Bank</i> <span style="float: right;">Imp Factor 3.3</span>

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)	2 1 1 1
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Facility: Byron Date of Examination: June 2014  
 Exam Level: RO  SRO  SRO-U  Operating Test Number: 2014

Control Room Systems<sup>@</sup> (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)

System / JPM Title	Type Code*	Safety Function
a. Letdown Orifice Operation K/A 004A4.06 Imp Factor 3.6/3.1 <i>Byron 2013 NRC CR-b</i>	P, S	1
b. Raise SI Accumulator Pressure (1SI8875B Fails to Close) K/A 006A4.02 Imp Factor 4.0/3.8 <i>Bank N-3a</i>	D, S, A, EN	2
c. Synchronize DG to Bus (Will Not Load) K/A 064A2.09 Imp Factor 3.1/3.3 <i>Bank N-19a</i>	D, S, A	6
d. Turbine Driven Feedwater Pump Swap (High Vibration) K/A 057A2.07 Imp Factor 3.0/3.3 <i>New</i>	N, S, A	4S
e. Transfer from Feedwater Bypass to Feedwater Reg Valve K/A 035A4.01 Imp Factor 3.7/3.6 <i>New</i>	N, S, L	4P
f. SX Flooding Requiring RCFC Isolation (Running Train Leak) K/A 022A2.05 Imp Factor 3.1/3.5 <i>New</i>	N, S, E	5
g. Test CETC <i>will be replaced</i> K/A 017A4.01 Imp Factor 3.8/4.1 <i>Bank N-65</i>	D, S	7
h. Containment Release (With Rad Alarm) K/A 029a1.02 Imp Factor 3.4/3.4 <i>Bank</i>	D, S, A	87

In-Plant Systems<sup>@</sup> (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)

i. Local Reset of FW Isolation Signal K/A 059A4.11 Imp Factor 3.1/3.3 <i>Bank N-43</i>	D, E	4S
j. Local Load of EDG K/A 062a2.11 Imp Factor 3.7/4.1 <i>Mod AP21</i>	M, A, E	6
k. Local Operation of PZR PORV Block Valve (1RY8000B) K/A 068AA1.28 Imp Factor 3.8/4.0 <i>Bank</i>	D, E, R	3

@ 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.

* Type Codes	Criteria for RO / SRO-I / SRO-U	
(A)lternate path	5	4-6 / 4-6 / 2-3
(C)ontrol room		
(D)irect from bank	6	≤ 9 / ≤ 8 / ≤ 4
(E)mergency or abnormal in-plant	3	≥ 1 / ≥ 1 / ≥ 1
(EN)gineered safety feature	1	- / - / ≥ 1 (control room system)
(L)ow-Power / Shutdown	1	≥ 1 / ≥ 1 / ≥ 1
(N)ew or (M)odified from bank including 1(A)	4	≥ 2 / ≥ 2 / ≥ 1
(P)revious 2 exams	1	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)
(R)CA	1	≥ 1 / ≥ 1 / ≥ 1
(S)imulator		

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Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	N, R	Review Offsite Power Availability Surveillance K/A 2.1.25 Imp Factor 4.2 <i>New</i>
Conduct of Operations	D, R	Evaluate License Holder Status K/A 2.1.5 Imp Factor 3.9 <i>Bank</i>
Equipment Control	D, R	Initiate a LCOAR K/A 2.2.23 Imp Factor 4.6 <i>Bank</i>
Radiation Control	P, R	Accessing CNMT at Power K/A No.: 2.3.13 Imp Factor 3.8 <i>2013 NRC</i>
Emergency Procedures/Plan	D, R	Classify and Complete NARS Form K/A 2.4.41 Imp Factor 4.6 <i>Bank</i>

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System / JPM Title	Type Code*	Safety Function
a. Letdown Orifice Operation K/A 004A4.06 Imp Factor 3.6/3.1 <i>Byron 2013 NRC CR-b</i>	P, S	1
b. Raise SI Accumulator Pressure (1SI8875B Fails to Close) K/A 006A4.02 Imp Factor 4.0/3.8 <i>Bank N-3a</i>	D, S, A, EN	2
c. Synchronize DG to Bus (Will Not Load) K/A 064A2.09 Imp Factor 3.1/3.3 <i>Bank N-19a</i>	D, S, A	6
d. Turbine Driven Feedwater Pump Swap (High Vibration) K/A 057A2.07 Imp Factor 3.0/3.3 <i>New</i>	N, S, A	4S
e. Transfer from Feedwater Bypass to Feedwater Reg Valve K/A 035A4.01 Imp Factor 3.7/3.6 <i>New</i>	N, S, L	4P
f. N/A	N/A	N/A
g. Test CETC <i>will be replaced</i> K/A 017A4.01 Imp Factor 3.8/4.1 <i>Bank N-65</i>	D, S	7
h. Containment Release (With Rad Alarm) K/A 029a1.02 Imp Factor 3.4/3.4 <i>Bank</i>	D, S, A	8 <sup>7</sup>

In-Plant Systems<sup>@</sup> (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)

i. Local Reset of FW Isolation Signal K/A 059A4.11 Imp Factor 3.1/3.3 <i>Bank N-43</i>	D, E	4S
j. Local Load of EDG K/A 062a2.11 Imp Factor 3.7/4.1 <i>Mod AP21</i>	M, A, E	6
k. Local Operation of PZR PORV Block Valve (1RY8000B) K/A 068AA1.28 Imp Factor 3.8/4.0 <i>Bank</i>	D, E, R	3

@ 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.

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(S)imulator		