

| Facility: <u>Indian Point Unit 2</u> | | Date of Examination: <u>February 6 2012</u> |
|--|---------------------------------|---|
| Exam Level: RO <input type="checkbox"/> SRO-I X SRO-U <input type="checkbox"/> | | Operating Test No.: _____ |
| 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. Align CVCS Makeup after Chemistry Sample(004007A4.07 RO-3.9 SRO 3.7) | N | 1 |
| b. Align Hot Leg Recirculation 23 SIP fails to Start (000011EA1.13 RO-4.1 SRO-4.2) | A, M, EN | 2 |
| c. Depressurize RCS during Natural Circ Cooldown and Block Low Pressure SI (WE09EA1.1 RO-3.5 SRO-3.5) | A, N, L | 3 |
| d. NA SROs | NA | NA |
| e. Respond to 22 SG "B" Level Channel failure High (059000A4.08 RO-3.0 SRO-2.9) | D | 7 |
| f. Isolate a faulted SG with CST level < 2.0 feet (000040A110 RO-4.1, SRO-4.1) | A, EN, D | 4S |
| g. Start 21 RCP during FR-C.1 (WE06EA1.01 RO3.8 SRO-3.8) | E, D | 4P |
| h. Verify Containment Phase A Isolation Manually Close Valves (103000A3.01 RO-3.9 SRO-4.2) | EN, A, D | 5 |
| In-Plant Systems® (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U) | | |
| i. Align 23 Charging Pump to 12FD3 (000068AA1.06 RO-4.1 SRO-4.2) | D, E | 6 |
| j. Lineup Alternate Cooling to SIS and RHR Pumps (005000 2.4.34 RO-4.2 SRO-4.1) | D, E, R | 8 |
| k. Align 24 Waste Gas Decay Tank for Discharge (071000 2.3.11 RO-3.8 SRO-4.1) <i>REDUCE PNT LEVEL</i> | R, D | 9 |
| @ 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 | 4-6 / 4-6 / 2-3 |
| (C)ontrol room | |
| (D)irect from bank | $\leq 9 / \leq 8 / \leq 4$ |
| (E)mergency or abnormal in-plant | $\geq 1 / \geq 1 / \geq 1$ |
| (EN)gineered safety feature | - / - / ≥ 1 (control room system) |
| (L)ow-Power / Shutdown | $\geq 1 / \geq 1 / \geq 1$ |
| (N)ew or (M)odified from bank including 1(A) | $\geq 2 / \geq 2 / \geq 1$ |
| (P)revious 2 exams | $\leq 3 / \leq 3 / \leq 2$ (randomly selected) |
| (R)CA | $\geq 1 / \geq 1 / \geq 1$ |
| (S)imulator | |

Facility: Indian Point Unit 2

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Exam Level: **RO X** SRO-I SRO-U

Operating Test No.: _____

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. Align CVCS Makeup after Chemistry Sample (004007A4.07 RO-3.9 SRO 3.7) | N | 1 |
| b. Align Hot Leg Recirculation 23 SIP fails to Start (000011EA1.13 RO-4.1 SRO-4.2) | A, M, E | 2 |
| c. Depressurize RCS during Natural Circ Cooldown and Block Low Pressure SI (WE09EA1.1 RO-3.5 SRO-3.5) | A, N, L | 3 |
| d. Energize 480V bus from Appendix R EDG (000055A106 RO- 4.1 SRO-4.5) | N | 6 |
| e. Respond to 22 SG "B" Level Channel failure High (059000A4.08 RO-3.0 SRO-2.9) | D | 7 |
| f. Isolate a faulted SG with CST level < 2.0 feet (000040A110 RO-4.1, SRO-4.1) | A, EN, D | 4S |
| g. Start 21 RCP during FR-C.1 (WE06EA1.01 RO3.8 SRO-3.8) | E, D | 4P |
| h. Verify Containment Phase A Isolation Manually Close Valves (103000A3.01 RO-3.9 SRO-4.2) | E, A, D | 5 |

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

| | | |
|--|---------|---|
| i. Align 23 Charging Pump to 12FD3 (000068AA1.06 RO-4.1 SRO-4.2) | D | 6 |
| j. Lineup Alternate Cooling to SIS and RHR Pumps (005000 2.4.34 RO-4.2 SRO-4.1) | D, E, R | 8 |
| k. Align 24 Waste Gas Decay Tank for Discharge (071000 2.3.11 RO 3.8 SRO 4.1) <i>REDUCE PWT LEVEL</i> | R, D | 9 |

@ 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 | 4-6 / 4-6 / 2-3 |
| (C)ontrol room | |
| (D)irect from bank | $\leq 9 / \leq 8 / \leq 4$ |
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| (EN)gineered safety feature | - / - / ≥ 1 (control room system) |
| (L)ow-Power / Shutdown | $\geq 1 / \geq 1 / \geq 1$ |
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| (R)CA | $\geq 1 / \geq 1 / \geq 1$ |
| (S)imulator | |