

Facility: Davis-Besse

Date of Examination: 12/5 thru 12/15 2011

Exam Level: RO  SRO(I)  SRO(U)

Operating Test No.: 2011 NRC Exam

**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 |
|--|-------------|-----------------|
| S1. Isolate SGTR with T <sub>h</sub> less than 500F<br>JPM 197 (Sys 035) Mode 3                        | D, S        | 4P              |
| S2. Perform Control Rod Exercise with RPI Malfunction<br>JPM New (Sys 001/014) 95% Pwr                 | N, S, A     | 1               |
| S3. Energize RPS Channel 2<br>JPM 121 (Sys 012) Mode 1   | D, S, A     | 7               |
| S4. Perform a CNMT Pressure Reduction Release w/malfunctions<br>JPM New (Sys 028) Mode 3               | N, S, A     | 8               |
| S5. Perform PRZR boron eq. w/ PRZR spray valve malfunction<br>JPM New (Sys 010) Mode 2                 | N, S, A, L  | 3               |
| S6. Establish long term boron dilution With LPI train 2<br>JPM 002 (Sys 006) Post LOCA                 | D, S, EN, E | 2               |
| S7. 13.8 KV bus live Xfer w/ malfunction<br>JPM 220 (Sys 062) Mode 1                                   | D, S, A     | 6               |
| S8. Vacuum and Gland Steam Sys Actions during a Loss of Instrument Air<br>JPM 113 (Sys 055/056) Mode 1 | D, S, A     | 4S              |

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

|   |             |    |
|---|-------------|----|
| P1. Place a HPI Train on alternate minimum recirc flowpath<br>JPM 256 (Sys 006)         | D, R, E, EN | 2  |
| P2. Place swing battery charger in service<br>JPM 069 (Sys 063)                         | D           | 6  |
| P3. Reset the overspeed mechanism and trip throttle valve for AFPT<br>JPM 075 (Sys 061) | D, E, EN    | 4S |

<sup>@</sup> All RO and SRO 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                           | ≤ 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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| S3. Energize RPS Channel 2<br>JPM 121 (Sys 012) Mode 1   | D, S, A     | 7               |
| S4. Perform a CNMT Pressure Reduction Release w/malfunctions<br>JPM New (Sys 028) Mode 3               | N, S, A     | 8               |
| S5. Perform PRZR boron eq. w/ PRZR spray valve malfunction<br>JPM New (Sys 010) Mode 2                 | N, S, A, L  | 3               |
| S6. Establish long term boron dilution With LPI train 2<br>JPM 002 (Sys 006) Post LOCA                 | D, S, EN, E | 2               |
| S7. Energize C1 From Bus A<br>JPM 220 (Sys 062) Mode 1   | D, S, A     | 6               |
| S8. Vacuum and Gland Steam Sys Actions during a Loss of Instrument Air<br>JPM 113 (Sys 055/056) Mode 1 | D, S, A     | 4S              |

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| P2. Place swing battery charger in service<br>JPM 069 (Sys 063)                         | D           | 6  |
| P3. Reset the overspeed mechanism and trip throttle valve for AFPT<br>JPM 075 (Sys 061) | D, E, EN    | 4S |

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| (P)revious 2 exams                           | ≤ 3 / ≤ 3 / ≤ 2 (randomly selected) |
| (R)CA  | ≥ 1 / ≥ 1 / ≥ 1                     |
| (S)imulator                                  |                                     |