

Date of Examination: <u>7/11/2016</u>		
RO	<input checked="" type="checkbox"/> SRO-I <input type="checkbox"/>	SRO-U <input type="checkbox"/> Operating Test No.: _____
Control Room Systems: 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U		
System / JPM Title	Type Code*	Safety Function
a. Perform Emergency Boration Step of OHP-4023-FR-S.1 ATWS (Boric Acid Pumps fail – Align RWST) KA APE 024 AA1.17 3.9/3.9, SYS 004 A2.14 3.8/3.9	A-EN-D-S	1
b. Establish Letdown IAW OHP-4023-SUP-15 (Alternate Path to Excess Letdown) KA SYS 004 A2.07 3.4/3.7	A-L-M-S	2
c. Depressurize the RCS to Minimize Backflow/Refill the Pressurizer during SGTR OHP-4023-E-3. KA EPE 038 EA1.04 4.3/4.1, SYS 010 A4.01 3.7/3.5	A-D-L-S	3
d. Isolate Ruptured Steam Generator per OHP-4023-E-3. KA EPE 038 EA1.32 4.6/4.7, SYS 035 A4.06 4.5/4.6(ALT) (Att. A Stop Valve Failure)	A-D-L-S	4P
e. Place Main FW Pump In Service from Standby KA SYS 059 K4.05 2.5/2.8 & A4.03 2.9/2.9	N-S	4S
f. Verify Containment Isolation Phase B IAW OHP-4023-E-0 Att. A (Alternate Path with OHP-4023-SUP-004) KA SYS 103 A2.03 3.5/3.8	A-EN-N-S	5
g. Restore RCP Bus 1A Power to Bus T11A KA 062 A4.07 3.1/3.1	D-L-S-P 2012	6
h. Perform Containment Pressure Relief per 02-OHP-4021-028-004. K/A 2.3.11 3.8/4.3	D-S-P 2014	8
In-Plant Systems* (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. RCS Makeup With CVCS Cross-Tie Using BIT Injection APE.022.AA1.01 3.4/3.3	D-E-R	2
j. Shift Turbine Driven Auxiliary Feed Pump Suction to ESW APE.054.AA1.01 4.5/4.4	D-E	4S
k. Perform local DG trip and isolation KA APE.068.AA1.31 3.9/4.0	D-E	6
All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all five 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 (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	4-6 / 4-6 / 2-3 ≤ 9 / ≤ 8 / ≤ 4 ≥ 1 / ≥ 1 / ≥ 1 ≥ 1 / ≥ 1 / ≥ 1 (control room system) ≥ 1 / ≥ 1 / ≥ 1 ≥ 2 / ≥ 2 / ≥ 1 ≤ 3 / ≤ 3 / ≤ 2 (randomly selected) ≥ 1 / ≥ 1 / ≥ 1	

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b. Establish Letdown IAW OHP-4023-SUP-15 (Alternate Path to Excess Letdown) KA SYS 004 A2.07 3.4/3.7	A-L-M-S	2
c. Depressurize the RCS to Minimize Backflow/Refill the Pressurizer during SGTR OHP-4023-E-3. KA EPE 038 EA1.04 4.3/4.1, SYS 010 A4.01 3.7/3.5	A-D-L-S	3
d. Isolate Ruptured Steam Generator per OHP-4023-E-3. KA EPE 038 EA1.32 4.6/4.7, SYS 035 A4.06 4.5/4.6(ALT) (Att. A Stop Valve Failure)	A-D-L-S	4P
e. Place Main FW Pump In Service from Standby KA SYS 059 K4.05 2.5/2.8 & A4.03 2.9/2.9	N-S	4S
f. Verify Containment Isolation Phase B IAW OHP-4023-E-0 Att. A (Alternate Path with OHP-4023-SUP-004) KA SYS 103 A2.03 3.5/3.8	A-EN-N-S	5
g. Restore RCP Bus 1A Power to Bus T11A KA 062 A4.07 3.1/3.1	D-L-S-P 2012	6
In-Plant Systems* (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. RCS Makeup With CVCS Cross-Tie Using BIT Injection APE.022.AA1.01 3.4/3.3	D-E-R	2
j. Shift Turbine Driven Auxiliary Feed Pump Suction to ESW APE.054.AA1.01 4.5/4.4	D-E	4S
k. Perform local DG trip and isolation KA APE.068.AA1.31 3.9/4.0	D-E	6
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g. Restore RCP Bus 1A Power to Bus T11A KA 062 A4.07 3.1/3.1	D-L-S-P 2012	6
In-Plant Systems* (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. RCS Makeup With CVCS Cross-Tie Using BIT Injection APE.022.AA1.01 3.4/3.3	D-E-R	2
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