

Facility: <u>Quad Cities</u>	Date of Examination: <u>3/16/2020</u>
Exam Level: RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	Operating Test Number: <u>ILT 18-1</u>

  

Control Room Systems:* 8 for RO, 7 for SRO-I, and 2 or 3 for SRO-U		
System/JPM Title	Type Code*	Safety Function
a. Initiate Standby Liquid Control with a failure of RWCU to isolate [Standby Liquid Control System; 211000 A4.06 3.9/3.9]	A, D, S	1
b. Pressurize the Main Steam lines [Main and Reheat Steam; 239001 A4.01 4.2/4.0]	D, L, S	3
c. HPCI startup for injection with loss of CCST suction path [High Pressure Coolant Injection System; 206000 A2.06 3.3/3.5]	A, L, N, S	2
d. Place RHR/LPCI in Torus Cooling mode [RHR/LPCI Torus/Suppression Pool Cooling Mode; 219000 A1.08 3.7/3.6]	D, S	5
e. Shutdown the RCIC system [Reactor Core Isolation Cooling System; 217000 A4.03 3.4/3.3]	D, S	4
f. Synchronize the Main Generator to the grid [A.C. Electrical Distribution; 262001 A4.04 3.6/3.7]	L, P, S	6
g. Perform a Reactor Protection System functional test with a failure to trip [Reactor Protection System; 212000 A4.02 3.6/3.7]	A, D, S	7
h. Startup SBGT with failure of MCC 19-4 [Standby Gas Treatment System; 261000 A2.07 2.7/2.8]	A, EN, N, S	9

  

In-Plant Systems:* 3 for RO, 3 for SRO-I, and 3 or 2 for SRO-U		
i. Place the ½ RBCCW Pump in operation on Unit 1 [Component Cooling Water System; 400000 2.1.30 4.4/4.0]	N, R	8
j. Inject water into the RPV using the Condensate System crosstie [Reactor Low Water Level; 295031 EA1.11 4.1/4.1]	D, E, R	2
k. Locally startup an Emergency Diesel Generator with failure of the vent fan to start. [Emergency Generators (Diesel/Jet); 264000 A3.03 3.4/3.4]	A, D, R	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, and in-plant systems and functions may overlap those tested in the control room.

* Type Codes	Criteria for R /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	$\geq 1/\geq 1/\geq 1$ (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	