Facility: Millstone Unit 2	Date of Examination: 02/27/2017					
Examination Level: RO SRO Operating Test Number: <u>ES17LI.</u>						
Administrative Topic (see Note)	Type Code*	Describe activity to be performed				
A1.1-RO Conduct of Operations	R, D	K/A 2.1.23 Ability to perform specific system and integrated plant procedures during all modes of plant operation. (RO 4.3)				
* Replace with Spare *		Calculate the maximum RCS venting time to eliminate a non-condensable void in the reactor vessel.				
A1.2-RO Conduct of Operations	R, M	K/A 2.1.37 Knowledge of procedures, guidelines, or limitations associated with reactivity management. (RO 4.3)  Determine Shutdown Margin with one CEA not				
		inserted and crediting xenon reactivity worth.				
A1.3-RO Conduct of Operations [Spare]	R, D	K/A 2.1.7 Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior, and instrument interpretation. (RO 4.4)  Evaluate an RCP Seal Failure				
A2-RO Equipment Control	R, N	K/A 2.2.12 Knowledge of surveillance procedures. (RO 3.7) Complete "A" Service Water Pump Operability Surveillance, SP 2612A-003.				
	R, M	K/A 2.3.7 Ability to comply with radiation work permit requirements during normal or abnormal conditions. (RO 3.5)				
A3-RO Radiation Control		For the task of venting a CTMT Spray pump, determine RWP clothing requirements, maximum dose and contamination levels in the area and adjacent to the valves being manipulated.				
NOTE: All items (five total) are required for SROs. RO applicants require only four items unless they are retaking only the administrative topics (which would require all five items).						
* 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)						

Facility: Millstone Unit 2  Exam Level: RO SRO-I SRO-U Operating Test No.: ES17LI					
Control Room Systems: 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U					
	System / JPM Title			Safety Function	
S-1	S-1 CVCS / Emergency Boration 004/A2.14 Emergency boration (RO 3.8)			1	
	S-2 LPSI / Verify adequate Safety Injection Flow IAW EOP 2532, LOCA 006/A3.03 ESFAS-operated valves (RO 4.1)			2	
S-3	S-3 PZR Pressure Control / Force Pressurizer Sprays 010/A1.07 RCS Pressure (RO 3.7)			3	
S-4	S-4 Auxiliary Feedwater / Operate TDAFP IAW EOP 2541, App 6 061/A2.04 Pump failure or improper operation (RO 3.4)			4(S)	
S-5	S-5 CTMT Spray / Restore from inadvertent CTMT Spray actuation 026/A4.05 Containment spray reset switches (RO 3.5)			5	
S-6	S-6 Emergency Diesel Generators / Unload and secure a EDG 064/A4.06 Manual start, loading, and stopping of the ED/G (RO 3.9)			6	
S-7	S-7 RPS / Respond to S/G Level Safety Channel Failure Low * Replace 012/A4.03 Channel blocks and bypasses (RO 3.6) with space *			7	
S-8	Circulating Water / Respond to the loss of a 2 <sup>nd</sup> CW nump			8	
S-9 Mitigating a Reactor Regulating System Failed T <sub>COLD</sub> Input [Spare] 016/A4.01 NNI channel select controls (RO 2.9*)			N, S	7	
In-Plant Systems (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)					
P-1	P-1 AC Electrical (Instrument Power) / Transfer PPC Power Supply 062/A4.01 All breakers (including available switchyard) (RO 3.3)			6	
P-2	P-2 Service Water / On a loss of 22E, swap the "B" SW Pump Strainer power supply to 22F to restore Facility 1 SW to operation 076/A2.01 Loss of SWS (RO 3.5)			4(S)	
P-3	Waste Gas Disposal / Shift In-Service Waste Gas Decay Tank P-3 071/A4.05 Gas decay tanks, including valves, indicators, and sample line (RO 2.6)			9	
P-4	Local Manual Operation of a FRV [Spare] 035/A4.01 Shift of S/G controls between manual an by bumpless transfer (RO 3.7)	D, E	4(P)		
*	All RO and SRO-I control room (and in-plant) so functions; all five SRO-U systems must serve d may overlap those tested in the control room.				
			for <b>RO</b> / SRO-I / SRO-U		
	A)Iternate 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			

