Facility:	**WATERFORD 3**	Date of Examination:	**March 16, 2010**
Examination Level:	**RO**	Operating Test Number:	**NRC Exam**

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
A1 Conduct of Operations K/A Importance: 3.6	S, N	2.1.18, Ability to make accurate, clear, and concise logs, records, status boards, and reports. Complete OP-903-001, Technical Specification Surveillance Logs, Attachment 11.9, Adjustment of FC1.
A2 Conduct of Operations K/A Importance: 4.3	S/R, M	2.1.23 Ability to perform specific system and integrated plant procedures during all modes of plant operation. Complete a manual CEA sub-group selection using OP-004-15, Reactor Power Cutback System.
A3 Equipment Control K/A Importance: 3.5	R, M	2.2.41, Ability to obtain and interpret station electrical and mechanical drawings. Identify boundaries for electrical component isolation.
A4 Radiation Control K/A Importance: 3.8	S/R, M	2.3.11 Ability to control radiation releases. Determine if meteorological conditions permit release of a Gas Decay Tank.
Emergency Plan		Not selected

NOTE: All items (5 total are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.

* 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)

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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
S1	004 Chemical and Volume Control System Perform Emergency Boration with 2 stuck CEAs in accordance with OP-901-103, Emergency Boration. Fault: Gravity Feed Valve BM-113 A will fail to open, requiring Boration with the Boric Acid Makeup Pumps.	A, M, E, L, S	1
S2	006 Emergency Core Cooling System Evaluate the need and establish simultaneous hot and cold leg injection in accordance with OP-902-002, Loss of Coolant Accident Recovery.	D L, S	2
S3	010 Pressurizer Pressure Control System Perform OP-903-118, section 7.10 to cycle Pressurizer Spray valves.	A, N, S	3
S4	045 Main Turbine Generator System Break Main Condenser Vacuum on Turbine Trip due to high vibration in accordance with OP-901-210, Turbine Trip	N, L, S	4 – S
S5	028 Hydrogen Recombiner and Purge Control System Start Hydrogen Recombiner in accordance with OP-008-006.	D, L, S	5
S6	035 Steam Generator System Stabilize RCS Temperature with an Excess Steam Demand Event in accordance with OP-902-004, Excess Steam Demand Recovery. Fault: Emergency Feedwater controller will fail to control, requiring operator to use the alternate controller.	A, M, L, S	4 - P
S7.	012 Reactor Protection System Reset CSAS in accordance with OP-902-009, Standard Appendices, Section 5 – E	D, L, S	7
S8	008 Component Cooling Water System Start CCW Pump AB in accordance with OP-902-003, Loss Of Offsite Power/Loss Of Forced Circulation Recovery with 3AB Bus aligned to the faulted train. Fault: Bus 3AB will be aligned to the faulted train, requiring transfer of 3AB and 31AB.	A, M, L, S	8

In-Plant Systems@ (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)			
P1	041 Steam Dump System and Turbine Bypass Control Operate Atmospheric Dump Valve A locally in accordance with OP-005-004, Main Steam. Fault: The local pneumatic control station will not function, requiring use of the local handwheel.	A, D, L	4 - S
P2	062 A.C. Electrical Distribution Transfer SUPS MA from Alternate to Normal AC Power in accordance with OP-006-005, Inverters and Distribution.	D	6
P3	004 Chemical and Volume Control System Perform the BOP Operator Time Critical Actions of OP-901-502, Evacuation of Control Room and Subsequent Plant Shutdown, steps 4 and 5 to start Emergency Diesel Generator B and align Boric Acid Gravity Feed.	D, E, L, R	1

@ 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	≤ 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	