{PRIVATE}	RIVATE } Facility: Hatch Date of Exam: June 2011																8 80 800		
Tier	Group		RO K/A Category Points												SRO-Only Points				
p promi		K 1	K 2	К 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G *	Total		A2	C	3*	Total	
1.	1	4	3	3			100	3	4			3	20		3	4	1	7	
Emergency & Abnormal Plant	2	2	1	1		N/A		1	1] _N	/A	1	7		1	2	2	3	
Evolutions	Tier Totals	6	4	4				4	5			4	27		4	6	3	10	
	1	3	2	3	2	3	2	2	2	2	3	2	26		2	3	3	5	
2. Plant	2	1	1	1	1	1	1	1	1	1	2	1	12	0	1	2	2	3	
Systems	Tier Totals	4	3	4	3	4	3	3	3	3	5	3	38		3)	5	8	
3. Generic K	-	dA b	ilitie	s		1		2	;	3		4	10	1	2	3	4	7	
(Categories		_			2	:	2		3	3	3		1	2	2	2		

- Ensure that at least two topics from every applicable K/A category are sampled within each tier of the RO
 and SRO-only outlines (i.e., except for one category in Tier 3 of the SRO-only outline, the "Tier Totals"
 in each K/A category shall not be less than two).
- The point total for each group and tier in the proposed outline must match that specified in the table.
 The final point total for each group and tier may deviate by ±1 from that specified in the table based on NRC revisions. The final RO exam must total 75 points and the SRO-only exam must total 25 points.
- 3. Systems/evolutions within each group are identified on the associated outline; systems or evolutions that do not apply at the facility should be deleted and justified; operationally important, site-specific systems that are not included on the outline should be added. Refer to ES-401, Attachment 2, for guidance regarding the elimination of inappropriate K/A statements.
- 4. Select topics from as many systems and evolutions as possible; sample every system or evolution in the group before selecting a second topic for any system or evolution.
- 5. Absent a plant-specific priority, only those K/As having an importance rating (IR) of 2.5 or higher shall be selected. Use the RO and SRO ratings for the RO and SRO-only portions, respectively.
- 6. Select SRO topics for Tiers 1 and 2 from the shaded systems and K/A categories.
- *The generic (G) K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system.
- 8. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings (IRs) for the applicable license level, and the point totals (#) for each system and category. Enter the group and tier totals for each category in the table above; if fuel handling equipment is sampled in other than Category A2 or G* on the SRO-only exam, enter it on the left side of Column A2 for Tier 2, Group 2 (Note #1 does not apply). Use duplicate pages for RO and SRO-only exams.
- For Tier 3, select topics from Section 2 of the K/A catalog, and enter the K/A numbers, descriptions, IRs, and point totals (#) on Form ES-401-3. Limit SRO selections to K/As that are linked to 10 CFR 55.43.

ES-401, REV 9			T1G1 BWR EXAMINATION OUTLINE													FORM ES-401-		
KA	NAME / SAFETY FUNCTION:		IR	1	K1	K	(2	КЗ	K	4 K	5 k	(6 A	11	A 2	A 3	A4	G	TOPIC:
		RO	SRO	0									_					
295001AK1.01	Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4	3.5	3.6	9	Y] [Natural circulation
295003AK1.04	Partial or Complete Loss of AC / 6	3.1	3.2	[V] [Electrical bus divisional separation
295004AK3.02	Partial or Total Loss of DC Pwr / 6	2.9	3.3					✓] []] [Ground isolation/fault determination
295005G2.4.34	Main Turbine Generator Trip / 3	4.2	4.1] [] [✓	Knowledge of RO tasks performed outside the main control room during an emergency and the resultant operational effects
295006G2.4.1	SCRAM / 1	4.6	4.8	[] [] [V	Knowledge of EOP entry conditions and immediate action steps.
295016AA1.04	Control Room Abandonment / 7	3.1	3.2] [<u> </u>			A.C. electrical distribution
295018AK1.01	Partial or Total Loss of CCW / 8	3.5	3.6	•	/] [] [] [Effects on component/system operations
295019AA2.01	Partial or Total Loss of Inst. Air / 8	3.5	3.6]][Instrument air system pressure
295021G2.4.8	Loss of Shutdown Cooling / 4	3.8	4.5] [] [] [] [] [✓	Knowledge of how abnormal operating procedures are used in conjunction with EOPs.
295023AA2.02	Refueling Acc Cooling Mode / 8	3.4	3.7] [] [] [/ [Fuel pool level
295024EK2.01	High Drywell Pressure / 5	3.9	4.0			V] [] [HPCI (FWCI): Plant-Specific

ES-401, RE	EV 9	T	G1 BWR EXAMINATION OUTLINE	FORM ES-401-			
KA	NAME / SAFETY FUNCTION:	IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:			
		RO SI	no e				
295025EK3.02	High Reactor Pressure / 3	3.9 4.		Recirculation pump trip: Plant-Specific			
295026EA1.01	Suppression Pool High Water Temp. / 5	4.1 4.		Suppression pool cooling			
295028EK3.06	High Drywell Temperature / 5	3.4 3.		ADS			
295030EK2.01	Low Suppression Pool Wtr Lvl / 5	3.8 3.		HPCI: Plant-Specific			
295031EA2.01	Reactor Low Water Level / 2	4.6 4.0		Reactor water level			
295037EK1.01	SCRAM Condition Present and Power Above APRM Downscale or Unknown / 1	4.1 4.5		Reactor pressure effects on reactor power			
295038EA1.03	High Off-site Release Rate / 9	3.7 3.9		Process liquid radiation monitoring system			
600000AK2.04	Plant Fire On Site / 8	2.5 2.0		Breakers / relays / and disconnects			
700000AA2.01	Generator Voltage and Electric Grid Distrurbancecs	3.5 3.6		Operating point on the generator capability curve			

ES-401, RE	EV 9	T10	32 BWR EXAMINATION OUTLINE	FORM ES-401-1			
KA	NAME / SAFETY FUNCTION:	IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:			
		RO SRC)				
295002AK1.04	Loss of Main Condenser Vac / 3	3.0 3.3		Increased offgas flow			
295007AK2.03	High Reactor Pressure / 3	3.1 3.2		RHR/LPCI: Plant-Specific			
295022AK3.02	Loss of CRD Pumps / 1	2.9 3.1		CRDM high temperature			
295029EA2.03	High Suppression Pool Wtr Lvl / 5	3.4 3.5		Drywell/containment water level			
295033EK1.02	High Secondary Containment Area Radiation Levels / 9	3.9 4.2		Personnel protection			
295034G2.2.39	Secondary Containment Ventilation High Radiation / 9	3.9 4.5		Knowledge of less than one hour technical specification action statements for systems.			
295036EA1.04	Secondary Containment High Sump/Area Water Level / 5	3.1 3.4		Radiation monitoring: Plant-Specific			

ES-401, REV 9			T2G	11 BWR EXAMINATION OUTLINE	FORM ES-401			
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:			
		RO	SRO)				
203000A2.13	RHR/LPCI: Injection Mode	3.2	3.3		Valve openings			
203000K5.01	RHR/LPCI: Injection Mode	2.7	2.9		Testable check valve operation			
205000A4.12	Shutdown Cooling	3.4	3.4		Recirculation loop temperatures			
206000A4.10	HPCI	3.7	3.5		System pumps: BWR-2,3,4			
209001K5.01	LPCS	2.6	2.7		Indications of pump cavitation			
211000K6.04	SLC	2.7	2.8		Core spray system: Plant-Specific			
212000A3.02	RPS	3.2	3.5		Individual system relay status: Plant-Specific			
215003A1.06	IRM	3 .3	3.2		Lights and alarms			
215003K5.01	IRM	2.6	2.7		Detector operation			
215004A3.01	Source Range Monitor	3.2	3.2		Meters and recorders			
215005K3.01	APRM / LPRM	4.0	4.0		RPS			

ES-401, REV 9			T2G	31	BW	RE	XA	MIN	ATIO	N C	UTLINE	FORM ES-401-			
KA	NAME / SAFETY FUNCTION:		IR	K	(1 K	(2 K	3 K	4 K5	K6 /	A1 /	A2 A3 A4 G	à	TOPIC:		
		RO	SRO)											
217000K1.01	RCIC	3.5	3.5	V] [Condensate storage and transfer system		
218000K2.01	ADS	3.1	3.3			7]	ADS logic		
223002G2.4.3	PCIS/Nuclear Steam Supply Shutoff	3.7	3.9										Ability to identify post-accident instrumentation.		
239002A4.04	SRVs	4.3	4.3										Suppression pool temperature		
239002K1.05	SRVs	3.1	3.3	V]	Plant air systems: Plant-Specific		
259002K3.03	Reactor Water Level Control	2.7	2.9			V]	Rod worth minimizer: Plant-Specific		
259002K3.07	Reactor Water Level Control	3.4	3.4			V				<u> </u>]	Reactor water level indication		
261000K4.04	SGTS	2.7	2.9				V]	Radioactive particulate filtration		
262001A2.01	AC Electrical Distribution	3.4	3.6]	Turbine/generator trip		
262002A1.02	UPS (AC/DC)	2.5	2.9							7]	Motor generator outputs		
263000K4.02	DC Electrical Distribution	3.1	3.5]	Breaker interlocks, permissives, bypasses and cross ties: Plant Specific		

ES-401, RE	:V 9		T2G	1 BWR EXAMINATION OUTLINE	FORM ES-401-1			
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G TOPIC:				
		RO	SRO					
264000K1.04	EDGs	3.2	3.3	Emergency generate	r cooling water system			
264000K6.08	EDGs	3.6	3.7	A.C. power				
300000K2.01	Instrument Air	2.8	2.8	☐ ☑ ☐ ☐ ☐ ☐ ☐ ☐ Instrument air comp	essor			
400000G2.1.30	Component Cooling Water	4.4	4.0	Ability to locate and controls.	operate components, including local			

ES-401, REV 9			T20	2 BWR EXAMINATION OUTLINE	FORM ES-401			
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:			
		RO	SRC)				
201002A2.04	RMCS	3.2	3.1		Control rod block			
201003A4.02	Control Rod and Drive Mechanism	3.5	3.5		CRD mechanism position: Plant-Specific			
201006A4.02	RWM	2.9	2.9		Pushbutton indicating switches: P-Spec(Not-BWR6)			
219000A1.09	RHR/LPCI: Torus/Pool Cooling Mode	3.2	3.3		Suppression chamber air temperature: Plant-Specific			
230000K2.02	RHR/LPCI: Torus/Pool Spray Mode	2.8	2.9		Pum ps			
245000K1.04	Main Turbine Gen. / Aux.	3.6	3.7		Reactor protection system			
256000K5.10	Reactor Condensate	2.8	2.8		Air ejection operation			
259001K6.01	Reactor Feedwater	3.0	3.0		Plant air systems			
271000K4.09	Offgas	2.8	3.1		Filtration of radioactive particulate			
272000A3.01	Radiation Monitoring	3.8	3.9		Main steam isolation indications			
288000G2.1.32	Plant Ventilation	3.8	4.0		Ability to explain and apply all system limits and precautions.			

ES-401, RI	EV 9		2G2 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO S	RO	
290001K3.01	Secondary CTMT	4.0 4	.4	Off-site radioactive release rates

ES-401, REV 9			Т3	3 BWR EXAMINATION OUTLINE	FORM ES-401-1			
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:			
		RO	SRO	0				
G2.1.20	Conduct of operations	4.6	4.6		Ability to execute procedure steps.			
G2.1.8	Conduct of operations	3.4	4.1		Ability to coordinate personnel activities outside the control room.			
G2.2.19	Equipment Control	2.3	3.4		Knowledge of maintenance work order requirements.			
G2.2.21	Equipment Control	2.9	4.1		Knowledge of pre- and post-maintenance operability requirements.			
G2.3.11	Radiation Control	3.8	4.3		Ability to control radiation releases.			
G2.3.12	Radiation Control	3.2	3.7		Knowledge of radiological safety principles pertaining to licensed operator duties			
G2.3.13	Radiation Control	3.4	3.8		Knowledge of radiological safety procedures pertaining to licensed operator duties			
G2.4.16	Emergency Procedures/Plans	3.5	4.4		Knowledge of EOP implementation hierarchy and coordination with other support procedures or guidelines.			
G2.4.4	Emergency Procedures/Plans	4.5	4.7		Ability to recognize abnormal indications for system operating parameters which are entry-level conditions for emergency and abnormal operating procedures.			
G2.4.5	Emergency Procedures/Plans	3.7	4.3		Knowledge of the organization of the operating procedures network for normal, abnormal and emergency evolutions.			

ES-401, RE	EV 9	SRO T1G1 BWR EXAMINATION OUTLINE													FORM ES-401-1			
KA	NAME / SAFETY FUNCTION:	in I	R		K1 K	2 K	3 K4	1 K	5 K6	6 A1	A2	. A3	A4 G		TOPIC:			
		RO	SRO	RO														
295001G2.4.41	Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4	2.9	4.6	3] []	Knowledge of the emergency action level thresholds and classifications.			
295005G2.1.23	Main Turbine Generator Trip / 3	4.3	4.4	4]	Ability to perform specific system and integrated plant procedures during all modes of plant operation.			
295018AA2.03	Partial or Total Loss of CCW / 8	3.2	3.5	5							✓]	Cause for partial or complete loss			
295021G2.1.23	Loss of Shutdown Cooling / 4	4.3	4.4	1]	Ability to perform specific system and integrated plant procedures during all modes of plant operation.			
295026EA2.01	Suppression Pool High Water Temp. / 5	4.1	4.2	2							✓]	Suppression pool water temperature			
295031G2.2.25	Reactor Low Water Level / 2	3.2	4.2	2]	Knowledge of the bases in Technical Specifications for limiting conditions for operations and safety limits.			
295038EA2.03	High Off-site Release Rate / 9	3.5	4.3	3							V]	Radiation levels			

ES-401, RE	EV 9	S	RO 1	1G2 BWR EXAMINATION OUTLINE	FORM ES-401-1			
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:			
		RO	SRC)				
295009G2.4.6	Low Reactor Water Level / 2	3.7	4.7		Knowledge symptom based EOP mitigation strategies.			
295020G2.4.2	Inadvertent Cont. Isolation / 5 & 7	4.5	4.6		Knowledge of system set points, interlocks and automatic actions associated with EOP entry conditions.			
295034EA2.02	Secondary Containment Ventilation	3.7	4.2		Cause of high radiation levels			

ES-401, REV 9		SRO T2G1 BWR EXAMINATION OUTLINE			FORM ES-401-1
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO	SRC)	
205000G2.4.20	Shutdown Cooling	3.8	4.3		Knowledge of operational implications of EOP warnings, cautions and notes.
217000G2.4.45	RCIC	4.1	4.3		Ability to prioritize and interpret the significance of each annunciator or alarm.
259002A2.04	Reactor Water Level Control	3.0	3.1		RFP runout condition: Plant-Specific
262001A2.06	AC Electrical Distribution	2.7	2.9		Deenergizing a plant bus
264000G2.2.12	EDGs	3.7	4.1		Knowledge of surveillance procedures.

ES-401, REV 9		S	RO 1	2G2 BWR EXAMINATION OUTLINE	FORM ES-401-1	
KA	NAME / SAFETY FUNCTION:		IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:	
		RO	SRC)		
201002G2.1.32	RMCS	3.8	4.0		Ability to explain and apply all system limits and precautions.	
256000G2.1.23	Reactor Condensate	4.3	4.4		Ability to perform specific system and integrated plant procedures during all modes of plant operation.	
288000A2.01	Plant Ventilation	3.3	3.4		High drywell pressure: Plant-Specific	

ES-401, REV 9			SRO	T3 BWR EXAMINATION OUTLINE	FORM ES-401-1	
KA	NAME / SAFETY FUNCTION:	J	IR	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:	
		RO	SRC			
G2.1.44	Conduct of operations	3.9	3.8		Knowledge of RO duties in the control room during fuel handling.	
G2.2.23	Equipment Control	3.1	4.6		Ability to track Technical Specification limiting conditions for operations.	
G2.2.5	Equipment Control	2.2	3.2		Knowledge of the process for making design or operating changes to the facility	
G2.3.12	Radiation Control	3.2	3.7		Knowledge of radiological safety principles pertaining to licensed operator duties	
G2.3.15	Radiation Control	2.9	3.1		Knowledge of radiation monitoring systems	
G2.4.28	Emergency Procedures/Plans	3.2	4.1		Knowledge of procedures relating to emergency	
G2.4.50	Emergency Procedures/Plans	4.2	4.0		Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.	

NRC DRAFT

Administrative Topics Outline ES-301-1

FACILITY:	HATCH			Date of Examination:	06/06/11
Exam Level:	RO X SRO	-I X SRC	D-U <u>X</u>	Operating Test Number:	2011-301
Admin Topic (s	Type Code*	Describe activity to be performed			
Admin 1 ALL Conduct of Ope	N, R	Heat Stress Stay Time Determination G2.1.26			
Admin 2 ALL Conduct of Ope	N, R	Fatigue Rule Determination G2.1.5			
Admin 3 ALL Equipment Con	D, S/R	Determine Bulk Average DW temperature per 34SV-SUV-019-1, and then determine any additional DW cooling requirements. G2.2.12			
Admin 4 SRO Radiation Contr	M, R	Evaluate Venting DW Irrespective of Offsite Release rates IAW PCG 50000EK1.01			
Admin 5 RO O Emergency Prod	D, R	Determine the Evacuation Route During an Emergency G2.4.39			
Admin 6 SRO Emergency Prod	N, R	Determine if an ENN Form (with errors) is ready for approval by Emergency Director G2.4.40			

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

Equility DIANTE I HATCH IN T.		Data of Evamination: 06/06/2014				
Facility: PLANT E. I. HATCH HLT 6 Exam Level: RO X SRO-I SRO-U	Date of Examination: 06/06/2011					
Exam Level: RO A SRO-I SRO-U		Operating Test No.: 2011-301				
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				
CR/SIM 1 - Inject SBLC (With a Pump Trip & Failure of 2G31-F004)	A ,D, S	SF-1 Reactivity 211000A2.01				
CR/SIM 2 - With ED required, Term/Prevent Cond/FW	M, S	SF-2 Reactor Water Level Control 259001K4.05				
CR/SIM 3 - Maintain Rx. Press within 600-800 psig using BPVs, then transition to SRVs with same band, after BPVs fail close.	A, N, L, S	SF-3 Reactor Pressure Control 269002A4.01				
CR/SIM 4 - RCIC/Place RCIC In Pressure Control Mode	N, L, S	SF-4 Heat Removal From The Core 217000A4.07				
CR/SIM 5 - RHR/LPCI: Containment Spray Mode / Initiate Torus Spray with failure	A, L, N, S	SF-5 Containment Integrity 226001A2.11				
CR/SIM 6 - Transfer 4160V Station Service 2A to Normal (SAT)	D, S	SF-6 Electrical 262001A4.04				
CR/SIM 7 - Respond to a Recirc Pump trip, close discharge valve, plot on P/F Map with Recirc speed <35%	N, S	SF-7 Instrumentation 216000A3.01				
CR/SIM 8 - Manually place MCREC in pressurization Mode after failure to auto with C012A not starting	A, C, M, EN	SF-9 Radiation Release 290003A4.01				
In-Plant Systems [®] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)						
PLANT 1 - Crosstie Reactor Bldg Plant Service Water	A, D, E, L, R	SF-8 Plant Service Systems 295018AA1.01				
PLANT 2 - Insert a Scram using the RPS Breakers	D, E	SF-1 Reactivity 295006AA1.05				
PLANT 3 - Transfer Vital AC from Alternate to Normal	D, R	SF-6 Electrical 262002A4.01				

[@] 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)Iternate path (C)ontrol room	4-6 / 4-6 / 2-3
(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	$\leq 3 / \leq 3 / \leq 2$ (randomly selected)
(R)CA	≥1/≥1/≥1
(S)imulator	

Facility: PLANT E. I. HATCH HLT 6 Exam Level: RO SRO-I X SRO-U		Date of Examination:06/06/2011 Operating Test No.: 2011-301					
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					
CR/SIM 1 - Inject SBLC (With a Pump Trip & Failure of 2G31-F004)	A ,D, S	Function SF-1 Reactivity 211000A2.01					
CR/SIM 2 - With ED required, Term/Prevent Cond/FW	M, S	SF-2 Reactor Water Level Control 259001K4.05					
CR/SIM 3 - Maintain Rx. Press within 600-800 psig using BPVs, then transition to SRVs with same band, after BPVs fail close.	A, N, L, S	SF-3 Reactor Pressure Control 269002A4.01					
CR/SIM 5 - RHR/LPCI: Containment Spray Mode / Initiate Torus Spray with failure	A, L, N, S	SF-5 Containment Integrity 226001A2.11					
CR/SIM 6 - Transfer 4160V Station Service 2A to Normal (SAT)	D, S	SF-6 Electrical 262001A4.04					
CR/SIM 7 - Respond to a Recirc Pump trip, close discharge valve, plot on P/F Map with Recirc speed <35%	N, S	SF-7 Instrumentation 216000A3.01					
CR/SIM 8 - Manually place MCREC in pressurization Mode after failure to auto with C012A not starting	A, C, M, EN	SF-9 Radiation Release 290003A4.01					
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)							
PLANT 1 - Crosstie Reactor Bldg Plant Service Water	A, D, E, L, R	SF-8 Plant Service Systems 295018AA1.01					
PLANT 2 - Insert a Scram using the RPS Breakers	D, E	SF-1 Reactivity 295006AA1.05					
PLANT 3 - Transfer Vital AC from Alternate to Normal	D, R	SF-6 Electrical 262002A4.01					

[@] 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)Iternate path (C)ontrol room	4-6 / 4-6 / 2-3
(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	$\leq 3 / \leq 3 / \leq 2$ (randomly selected)
(R)CA	≥1/≥1/≥1
(S)imulator	

Facility: PLANT E. I. HATCH HLT 6		Date of Examination: 06/06/2011				
Exam Level: RO SRO-I SRO-U	X	Operating Test No.: 2011-301				
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				
CR/SIM 5 - RHR/LPCI: Containment Spray Mode / Initiate Torus Spray with failure	A, L, N, S	SF-5 Containment Integrity 226001A2.11				
CR/SIM 6 - Transfer 4160V Station Service 2A to Normal (SAT)	D, S	SF-6 Electrical 262001A4.04				
CR/SIM 8 - Manually place MCREC in pressurization Mode after failure to auto with C012A not starting	A, C, M, EN	SF-9 Radiation Release 290003A4.01				
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3	or 2 for SRO-U)					
PLANT 1 - Crosstie Reactor Bldg Plant Service Water	A, D, E, L, R	SF-8 Plant Service Systems 295018AA1.01				
PLANT 2 - Insert a Scram using the RPS Breakers	D, E	SF-1 Reactivity 295006AA1.05				
@ 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	C	Criteria for RO / 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		$4-6/4-6/2-3$ $\leq 9/\leq 8/\leq 4$ $\geq 1/\geq 1/\geq 1$ $-/-/\geq 1$ (control room system) $\geq 1/\geq 1/\geq 1$ $\geq 2/\geq 2/\geq 1$ $\leq 3/\leq 3/\leq 2$ (randomly selected) $\geq 1/\geq 1/\geq 1$				