ES-401 BWR Examination Outline Form ES-401-1

Facility: **Nine Mile Point Unit 1** Date of Exam: **2005 RE-EXAM**

Tier	Group	RO K/A Category Points												SRO-Only Points		
		K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G *	Total	A2	G*	Total
1. Emergency & Abnormal Plant Evolutions	1	2	4	3	N/A			4	4	N/A		3	20			7
	2	2	1	0				1	2			1	7			3
	Tier Totals	4	5	3				5	6			4	27			10
2. Plant Systems	1	3	2	0	2	1	2	3	4	4	3	2	26			5
	2	0	0	2	0	3	1	3	1	0	1	1	12			3
	Tier Totals	3	2	2	2	4	3	6	5	4	4	3	38			8
3. Generic Knowledge and Abilities Categories					1		2		3		4		10	1	2	3	4	7
					3		2		2		3							

Note:
1. Ensure that at least two topics from every 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).
2. 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.
7. * 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 (IR) 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. Use duplicate pages for RO and SRO-only exams.
9. 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	BWR Examination Outline	Form ES-401-1
	Emergency and Abnormal Plant Evolutions - Tier 1/Group 1 (RO)	

E/APE # / Name / Safety Function	K 1	K 2	K 3	A 1	A 2	G	K/A Topic(s)	IR	PT	#
295001 Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4				0 8			AA1.06 Ability to operate and/or monitor the following as they apply to PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION: Neutron monitoring system.	3.3	1	1
295003 Partial or Complete Loss of AC / 6		0 2					AK2.02 Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF A.C. POWER and the following: Emergency Generators.	4.1	1	2
295004 Partial or Total Loss of DC Pwr / 6					0 2		AA2.02 Ability to determine and/or interpret the following as they apply to PARTIAL OR COMPLETE LOSS OF D.C. POWER: Extent of partial or complete loss of D.C. power.	3.5	1	3
295005 Main Turbine Generator Trip / 3					0 4		AA2.04 Ability to determine and/or interpret the following as they apply to MAIN TURBINE GENERATOR TRIP: Reactor pressure.	3.7	1	4
295006 SCRAM / 1			0 4				AK3.04 Knowledge of the reasons for the following responses as they apply to SCRAM: Reactor water level setpoint setdown.	3.1	1	5
295016 Control Room Abandonment / 7		0 2					AK2.02 Knowledge of the interrelations between CONTROL ROOM ABANDONMENT and the following: Local control stations.	4.0	1	6
295016 Control Room Abandonment / 7				0 9			AA1.09 Ability to operate and/or monitor the following as they apply to CONTROL ROOM ABANDONMENT: Isolation/emergency condenser(s).	4.0	1	7
295018 Partial or Total Loss of CCW / 8				0 2			AA1.02 Ability to operate and/or monitor the following as they apply to PARTIAL OR COMPLETE LOSS OF COMPONENT COOLING WATER: System loads.	3.3	1	8
295019 Partial or Total Loss of Inst. Air / 8						X	2.4.31 Knowledge of annunciators alarms and indications / and use of the response instructions.	3.3	1	9
295021 Loss of Shutdown Cooling / 4	0 2						AK1.02 Knowledge of the operational implications of the following concepts as they apply to LOSS OF SHUTDOWN COOLING: Thermal stratification.	3.3	1	10
295023 Refueling Acc Cooling Mode / 8						X	2.1.14 Knowledge of system status criteria which require the notification of plant personnel.	2.5	1	11
295024 High Drywell Pressure / 5		0 7					EK2.07 Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following: PCIS/NSSSS.	3.9	1	12
295025 High Reactor Pressure / 3					0 1		EA2.01 Ability to determine and/or interpret the following as they apply to HIGH REACTOR PRESSURE: Reactor pressure. **(Repeat K/A from 2002 NRC RO Written exam).**	4.3	1	13
295026 Suppression Pool High Water Temp. / 5						X	2.1.33 Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.	3.4	1	14
295028 High Drywell Temperature / 5				0 1			EA1.01 Ability to operate and/or monitor the following as they apply to HIGH DRYWELL TEMPERATURE: Drywell spray.	3.8	1	15
295030 Low Suppression Pool Wtr Lvl / 5			0 1				EK3.01 Knowledge of the reasons for the following responses as they apply to LOW SUPPRESSION POOL WATER LEVEL: Emergency depressurization.	3.8	1	16

295031 Reactor Low Water Level / 2					0 1		EA2.01 Ability to determine and/or interpret the following as they apply to REACTOR LOW WATER LEVEL: Reactor water level.	4.6	1	17
295037 SCRAM Condition Present and Power Above APRM Downscale or Unknown / 1		0 6					EK2.06 Knowledge of the interrelations between SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN and the following: CRD mechanisms.	3.5	1	18
295038 High Off-site Release Rate / 9	0 2						EK1.02 Knowledge of the operational implications of the following concepts as they apply to HIGH OFF-SITE RELEASE RATE: Protection of the general public.	4.2	1	19
600000 Plant Fire On Site / 8			0 4				AK3.04 Knowledge of the reasons for the following responses as they apply to PLANT FIRE ON SITE: Actions contained in the abnormal procedure for plant fire on site.	2.8	1	20
K/A Category Totals:	2	4	3	4	4	3	Group Point Total:		20	

ES-401	BWR Examination Outline							Form ES-401-1		
Emergency and Abnormal Plant Evolutions - Tier 1/Group 2 (RO)										
E/APE # / Name / Safety Function	K 1	K 2	K 3	A 1	A 2	G	K/A Topic(s)	IR	P T	#
295002 Loss of Main Condenser Vacuum / 3					01		AA2.01 Ability to determine and/or interpret the following as they apply to LOSS OF MAIN CONDENSER VACUUM: Condenser vacuum/absolute pressure.	2.9	1	21
295014 Inadvertent Reactivity Addition / 1	03						AK1.05 Knowledge of the operational implications of the following concepts as they apply to INADVERTENT REACTIVITY ADDITION: Fuel thermal limits.	3.7	1	22
295015 Incomplete SCRAM / 1				02			AA1.02 Ability to operate and/or monitor the following as they apply to INCOMPLETE SCRAM: RPS.	4.0	1	23
295022 Loss of CRD Pumps / 1					01		AA2.01 Ability to determine and/or interpret the following as they apply to LOSS OF CRD PUMPS: Accumulator pressure.	3.5	1	24
295032 High Secondary Containment Area Temperature / 9						X	2.4.6 Knowledge symptom based EOP mitigation strategies.	3.1	1	25
295035 Secondary Containment High Differential Pressure / 5	01						EK1.01 Knowledge of the operational implications of the following concepts as they apply to SECONDARY CONTAINMENT HIGH DIFFERENTIAL PRESSURE: Secondary containment integrity.	3.9	1	26
500000 High CTMT Hydrogen Conc. / 5		07					EK2.07 Knowledge of the interrelations between HIGH CONTAINMENT HYDROGEN CONCENTRATIONS the following: Drywell vent system.	3.2	1	27
K/A Category Point Totals:	2	1	0	1	2	1	Group Point Total:		7	

ES-401	BWR Examination Outline Emergency and Abnormal Plant Evolutions - Tier 2/Group 1 (RO)											Form ES-401-1			
System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G	K/A Topic(s)	IR	PT	#
205000 Shutdown Cooling								06				A2.06 Ability to (a) predict the impacts of the following on the SHUTDOWN COOLING SYSTEM (RHR SHUTDOWN COOLING MODE); and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: SDC pump trips.	3.4	1	28
206000 HPCI				07								K4.07 Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following: Automatic system initiation.	4.3	1	29
207000 Isolation (Emergency) Condenser											X	2.1.33 Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications.	3.4	1	30
207000 Isolation (Emergency) Condenser										03		A4.03 Ability to manually operate and/or monitor in the control room: Primary and shell side temperatures.	3.0	1	31
209001 LPCS											X	2.1.32 Ability to explain and apply system limits and precautions.	3.4	1	32
209001 LPCS	02											K1.02 Knowledge of the physical connections and/or cause-effect relationships between LOW PRESSURE CORE SPRAY SYSTEM and the following: Torus/suppression pool.	3.4	1	33
211000 SLC									06			A3.06 Ability to monitor automatic operations of the STANDBY LIQUID CONTROL SYSTEM including: System initiation.	4.2	1	34
212000 RPS				08								K4.08 Knowledge of REACTOR PROTECTION SYSTEM design feature(s) and/or interlocks which provide for the following: Complete control rod insertion following SCRAM signal generation.	4.2	1	35
215003 IRM										07		A4.07 Ability to manually operate and/or monitor in the control room: Verification of proper functioning/ operability.	3.6	1	36
215004 Source Range Monitor		01										K2.01 Knowledge of electrical power supplies to the following: SRM channels/detectors.	2.6	1	37
215005 APRM / LPRM							07					A1.07 Ability to predict and/or monitor changes in parameters associated with operating the AVERAGE POWER RANGE MONITOR / LOCAL POWER RANGE MONITOR SYSTEM controls including: APRM gain adjustment factor.	3.0	1	38
215005 APRM / LPRM						07						K6.07 Knowledge of the effect that a loss or malfunction of the following will have on the AVERAGE POWER RANGE MONITOR/LOCAL POWER RANGE MONITOR SYSTEM: Flow converter/comparator network.	3.2	1	39
218000 ADS									01			A3.01 Ability to monitor automatic operations of the AUTOMATIC DEPRESSURIZATION SYSTEM including: ADS valve operation.	4.2	1	40

223002 PCIS/Nuclear Steam Supply Shutoff									0 1			A3.01 Ability to monitor automatic operations of the PRIMARY CONTAINMENT ISOLATION SYSTEM/NUCLEAR STEAM SUPPLY SHUT-OFF including: System indicating lights, alarms.	3.4	1	41
239002 SRVs					0 2							K5.02 Knowledge of the operational implications of the following concepts as they apply to RELIEF/SAFETY VALVES: Safety function of SRV operation.	3.7	1	42
259002 Reactor Water Level Control						0 2						K6.05 Knowledge of the effect that a loss or malfunction of the following will have on the REACTOR WATER LEVEL CONTROL SYSTEM: Reactor water level input.	3.5	1	43
261000 SGTS							0 4					A1.04 Ability to predict and/or monitor changes in parameters associated with operating the STANDBY GAS TREATMENT SYSTEM controls including: Secondary containment differential pressure.	3.0	1	44
262001 AC Electrical Distribution								1 1				A2.11 Ability to (a) predict the impacts of the following on the A.C. ELECT DISTRIBUTION; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Degraded system voltages.	3.2	1	45
262001 AC Electrical Distribution	0 3											K1.03 Knowledge of the physical connections and/or cause-effect relationships between A.C. ELECTRICAL DISTRIBUTION and the following: Off-site power sources.	3.4	1	46
262002 UPS (AC/DC)									0 1			A3.01 Ability to monitor automatic operations of the UNINTERRUPTABLE POWER SUPPLY (A.C./D.C.) including: Transfer from preferred to alternate source.	2.8	1	47
263000 DC Electrical Distribution								0 1				A2.01 Ability to (a) predict the impacts of the following on the D.C. ELECTRICAL DISTRIBUTION; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Grounds.	2.8	1	48
264000 EDGs										0 1		A4.01 Ability to manually operate and/or monitor in the control room: Adjustment of exciter voltage	3.3	1	49
264000 EDGs	0 5											K1.06 Knowledge of the physical connections and/or cause-effect relationships between EMERGENCY GENERATORS (DIESEL/JET) and the following: Starting system.	3.2	1	50
300000 Instrument Air		0 1										K2.01 Knowledge of electrical power supplies to the following: Instrument air compressor.	2.8	1	51
400000 Component Cooling Water								0 3				A2.03 Abilily to (a) predict the impacts of the following on the CCWS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: High/low CCW temp.	2.9	1	52
400000 Component Cooling Water							0 3					A1.03 Ability to predict and/or monitor changes in parameters associated with operating the CCWS controls including: CCW pressure.	2.7	1	53
K/A Category Point Totals:	3	2	0	2	1	2	3	4	4	3	2	Group Point Total:		26	

ES-401	BWR Examination Outline											Form ES-401-1			
	Emergency and Abnormal Plant Evolutions - Tier 2/Group 2 (RO)														
System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G	K/A Topic(s)	IR	P T	#
201001 CRD Hydraulic					0 8							K5.08 Knowledge of the operational implications of the following concepts as they apply to CONTROL ROD DRIVE HYDRAULIC SYSTEM: Solenoid operated valves.	2.5	1	54
202001 Recirculation							0 9					A1.09 Ability to predict and/or monitor changes in parameters associated with operating the RECIRCULATION SYSTEM controls including: Recirculation pump seal pressures	3.3	1	55
204000 RWCU											X	2.1.2 Knowledge of operator responsibilities during all modes of plant operation.	3.0	1	56
216000 Nuclear Boiler Inst.					0 7							K5.07 Knowledge of the operational implications of the following concepts as they apply to NUCLEAR BOILER INSTRUMENTATION: Elevated containment temperature effects on level indication.	3.6	1	57
219000 Torus/Pool Cooling Mode							0 8					A1.08 Ability to predict and/or monitor changes in parameters associated with operating the TORUS/SUPPRESSION POOL COOLING MODE controls including: System lineup.	3.7	1	58
226001 RHR/LPCI: CTMT Spray Mode							0 6					A1.06 Ability to predict and/or monitor changes in parameters associated with operating the RHR/LPCI: CONTAINMENT SPRAY SYSTEM MODE controls including: System flow.	3.2	1	59
234000 Fuel Handling Equipment						0 4						K6.04 Knowledge of the effect that a loss or malfunction of the following will have on the FUEL HANDLING EQUIPMENT: Refueling platform air system.	2.9	1	60
245000 Main Turbine Gen. / Aux.					0 7							K5.07 Knowledge of the operational implications of the following concepts as they apply to MAIN TURBINE GENERATOR AND AUXILIARY SYSTEMS: Generator operations and limitations.	2.6	1	61
259001 Reactor Feedwater			1 2									K3.12 Knowledge of the effect that a loss or malfunction of the REACTOR FEEDWATER SYSTEM will have on following: Reactor power.	3.8	1	62
288000 Plant Ventilation										0 1		A4.01 Ability to manually operate and/or monitor in the control room: Start and stop fans.	3.1	1	63
290003 Control Room HVAC								0 1				A2.01 Ability to (a) predict the impacts of the following on the CONTROL ROOM HVAC; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Initiation/reconfiguration.	3.1	1	64

290002 Reactor Vessel Internals			0 7								K3.07 Knowledge of the effect that a loss or malfunction of the REACTOR VESSEL INTERNALS will have on following: Nuclear boiler instrumentation	3.1	1	65
K/A Category Point Totals:	0	0	2	0	3	1	3	1	0	1	1	Group Point Total:		12	

ES-401	Generic Knowledge and Abilities Outline (Tier 3) (RO)					Form ES-401-3	
Facility: **Nine Mile Point Unit 2**	Date of Exam: **MAY 5, 2005**						
Category	K/A #	Topic	RO			SRO-Only	
			IR	PT	#	IR	#
1. Conduct of Operations	2.1.2	Knowledge of operator responsibilities during all modes of plant operation.	3.0	1	66		
	2.1.3	Knowledge of shift turnover practices.	3.0	1	67		
	2.1.8	Ability to coordinate personnel activities outside the control room.	3.8	1	68		
	Subtotal			3			
2. Equipment Control	2.2.1	Ability to perform pre-startup procedures for the facility / including operating those controls associated with plant equipment that could affect reactivity.	3.7	1	69		
	2.2.30	Knowledge of RO duties in the control room during fuel handling such as alarms from fuel handling area / communication with fuel storage facility / systems operated from the control room in support of fueling operations / and supporting instrumentation.	3.5	1	70		
	Subtotal			2			
3. Radiation Control	2.3.10	Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. **(Repeat K/A from 2004 NRC RO Written Exam)**	2.9	1	71		
	2.3.11	Ability to control radiation releases.	2.7	1	72		
	Subtotal			2			
4. Emergency Procedures / Plan	2.4.12	Knowledge of general operating crew responsibilities during emergency operations.	3.4	1	73		
	2.4.26	Knowledge of facility protection requirements including fire brigade and portable fire fighting equipment usage.	2.9	1	74		
	2.4.29	Knowledge of the emergency plan.	2.6	1	75		
	Subtotal			3			
Tier 3 Point Total				10			

Facility: **Nine Mile Point Unit 1** Date of Exam: **2005 RE-EXAM**

ES-401 Record of Rejected K/As (RO) Form ES-401-4

Tier / Group	Randomly Selected K/A	Reason for Rejection
Per ES-401, Attachment 1, #1: Review each group and delete those items [Emergency/Abnormal Plant Evolutions (E/APEs) for Tier 1 and systems for Tier 2] that clearly do not apply to the facility for which the examination is being written. They are:		
T1G1	NA	295027 High Containment Temperature (Mark III Containment Only). Not applicable to facility. (Mark I containment).
T1G2	NA	295011 High Containment Temperature (Mark III Containment Only). Not applicable to facility. (Mark I containment).
T2G1	NA	203000 RHR/LPCI: Injection Mode (Plant Specific). Not applicable to facility design.
T2G1	NA	209002 High Pressure Core Spray System (HPCS). Not applicable to facility design.
T2G1	NA	217000 Reactor Core Isolation Cooling System (RCIC). Not applicable to facility design.
T2G2	NA	210004 Rod Sequence Control System (Plant Specific). Not applicable to facility design.
T2G2	NA	201005 Rod Control and Information System (RCIS). Not applicable to facility design.
T2G2	NA	215002 Rod Block Monitor System. Not applicable to facility design.
T2G2	NA	230000 RHR/LPCI: Torus/Suppression Pool Spray Mode. Not applicable to facility design.
T2G2	NA	239003 MSIV Leakage Control System. Not applicable to facility design.
Per ES-401, Attachment 2 #5: Except as noted in Es-401, Attachment 2, Item 1, all KA statements that are eliminated after they are have been randomly selected to fill an examination outline shall be documented on Form ES-401-4, "Record of Rejected KAs," or equivalent. They are:		
T1G1	295005 AA2.02	Ability to determine and/or interpret the following as they apply to MAIN TURBINE GENERATOR TRIP: Turbine vibration. IR (2.4) is <2.5.
T1G1	295016 AK.1	KA listed as none. Randomly selected K/A AA1.09
T1G1	295019 AK.1	KA listed as none. Randomly selected K/A G 2.4.31.
T1G1	295024 EK2.11	Knowledge of the interrelations between HIGH DRYWELL PRESSURE and the following: Drywell spray (RHR) logic: Mark-I&II. Not applicable to facility design.
T1G1	295030 EK3.04	Knowledge of the reasons for the following responses as they apply to LOW SUPPRESSION POOL WATER LEVEL: HPCS operation. Not applicable to facility design.
T1G1	600000 AK.3	Selected AK3.04 because it is the only K/A in this area with an importance rating at 2.5 or above. AK3.01 (IR 2.0), AK3.02 (IR 2.2), AK3.03 (IR 2.0) rejected based on IR <2.5.
T2G1	206000 K4.05	Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following: Preventing water hammer in turbine exhaust line (procedural control). Not applicable to facility design (no turbine).
T2G1	206000 K4.14	Knowledge of HIGH PRESSURE COOLANT INJECTION SYSTEM design feature(s) and/or interlocks which provide for the following: Control oil to turbine speed controls. Not applicable to facility design (no turbine).
T2G1	209001 K1.04	Knowledge of the physical connections and/or cause-effect relationships between LOW PRESSURE CORE SPRAY SYSTEM and the following: condensate transfer system (IR 2.3) is <2.5.
T2G1	215004 K2	Selected K2.01 because it is the only K/A in this area with an importance rating at 2.5 or above. K2.02 (IR 2.1), K2.03 (IR 2.0) rejected based on IR <2.5.
T2G1	223002 K2.01	Knowledge of electrical power supplies to the following: Logic power supplies. Only K/A is K2.01 whose IR (2.4) is <2.5. Randomly selected K/A A3.01.
T2G1	262002 K2	KA listed as none. Randomly selected K/A A3.01.
T2G2	201001 K5.04	Knowledge of the operational implications of the following concepts as they apply to CONTROL ROD DRIVE HYDRAULIC SYSTEM: Indications of pump cavitation. IR (2.4) is <2.5.
T2G2	201001 K5.07	Knowledge of the operational implications of the following concepts as they apply to CONTROL ROD DRIVE HYDRAULIC SYSTEM: Air operated control valves. IR (2.3) is <2.5.
T2G2	216000 K5.05	Knowledge of the operational implications of the following concepts as they apply to NUCLEAR BOILER INSTRUMENTATION: Vessel vibration measurement (loose parts monitor). IR (2.3) is <2.5.
T2G2	290002 A3	KA listed as none. Randomly selected A4; K/A listed as none. Randomly selected K3.07.
T3	2.1	Rejected K/As with IR <2.5 from selection: 2.1.4 (IR 2.3), 2.1.5 (IR 2.3), 2.1.6 (IR 2.1), 2.1.13 (IR 2.0), 2.1.15 (2.3), 2.1.26 (IR 2.2), 2.1.34 (IR 2.3). No site-specific priorities related to K/As with IR <2.5.
T3	2.1.16	Ability to operate plant phone / paging system / and two-way radio. Better evaluated during the operating test (simulator scenarios).
T3	2.1.21	Ability to obtain and verify controlled procedure copy. Better evaluated during the operating test (simulator JPMs).

Facility: **Nine Mile Point Unit 1** Date of Exam: **2005 RE-EXAM**

T3	2.1.22	Ability to determine Mode of Operation. This K/A was on the 2004 Audit Exam. Rejected to avoid any overlap between the Audit exam and the NRC re-exam.
T3	2.1.27	Knowledge of system purpose and or function. LOD = 1. Low cognitive level.
T3	2.1.30	Ability to locate and operate components / including local controls. Better evaluated during the walkthrough examination (JPMs).
T3	2.1.33	Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. Rejected to avoid over sampling Tech Specs. See 295026 2.1.33 and 207000 2.1.33.
T3	2.2	Rejected K/As with IR <2.5 from selection: 2.2.5 (IR 1.6), 2.2.6 (IR 2.3), 2.2.7 (IR 2.0), 2.2.8 (IR 1.8), 2.2.9 (IR 2.0), 2.2.10 (IR 1.9), 2.2.14 (IR 2.1), 2.2.15 (IR 2.2), 2.2.16 (IR 1.9), 2.2.17 (IR 2.3), 2.2.18 (IR 2.3), 2.2.19 (IR 2.1), 2.2.20 (IR 2.2), 2.2.21 (IR 2.3), 2.2.29 (IR 1.6), 2.2.31 (IR 2.2), 2.2.32 (IR 2.3). No site-specific priorities related to K/As with IR <2.5.
T3	2.2.23	Ability to track limiting conditions for operations. Rejected based on SRO Only.
T3	2.2.27	Knowledge of the refueling process. Rejected to avoid over sampling in the Refueling area. See 234000 K6.04 and G 2.2.30.
T3	2.3	Rejected K/As with IR <2.5 from selection: 2.3.3 (IR 1.8), 2.3.5 (IR 2.3), 2.3.6 (2.1), 2.3.7 (2.0), 2.3.8 (2.3). No site-specific priorities related to K/As with IR <2.5.
T3	2.3.1	Knowledge of 10 CFR: 20 and related facility radiation control requirements. This K/A was on the 2004 Audit Exam. Rejected to avoid any overlap between the Audit exam and the NRC re-exam.
T4	2.4	Rejected K/As with IR <2.5 from selection: 2.4.28 (IR), 2.4.30 (IR), 2.4.33 (IR), 2.4.36 (IR), 2.4.37 (IR), 2.4.38 (IR), 2.4.40 (IR), 2.4.41 (IR), 2.4.42 (IR), 2.4.44 (IR). No site-specific priorities related to K/As with IR <2.5.
T3	2.4.34	Knowledge of RO tasks performed outside the main control room during emergency operations including system geography and system implications. Better evaluated during the walkthrough examination (in Plant JPMs).
T3	2.4.39	Knowledge of the RO's responsibilities in emergency plan implementation. This K/A was on the 2004 Audit Exam. Rejected to avoid any overlap between the Audit exam and the NRC re-exam.
T3	2.4.46	Ability to verify that the alarms are consistent with the plant conditions. Better evaluated during the operating test (simulator scenarios).
Per ES-401 D.1.d. After completing the outline, check the selected K/As for balance of coverage within and across the three tiers. Ensure that every applicable K/A category is sampled at least twice within each of the three tiers.		
T1, T2, T3	NONE	No change required since each applicable K/A category is sampled at least twice within each of the three tiers.
OPERATIONS/FACILITY OUTLINE REVIEW / CHANGES		
T1G1	295003 AK2.03	Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF A.C. POWER and the following: A.C. electrical distribution system. Rejected based on double jeopardy with 262001 K1.03. 262001 K1.03 is Knowledge of the physical connections and/or cause-effect relationships between A.C. ELECTRICAL DISTRIBUTION and the following: Off-site power sources. Randomly selected which of the two K/As to be changed which was 295003, then randomly selected a new K/A in the K2 category.
T2G1	400000 A1.02	Ability to predict and/or monitor changes in parameters associated with operating the CCWS controls including: CCW temperature. Rejected based on double jeopardy with 400000 A2.03. 400000 A2.03 is Ability to (a) predict the impacts of the following on the CCWS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: High/low CCW temperature. Randomly selected A1.03, CCW Pressure.
POST NRC OUTLINE REVIEW CHANGES		
POST NRC EXAM REVIEW CHANGES		