

Facility:		Nine Mile Point Unit 2		Date of Exam:		November 2015											
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 & Plant Evolutions	1	4	4	3				3	3			3	20	4	3	7	
	2	2	1	1				1	1			1	7	2	1	3	
	Tier Totals	6	5	4				4	4			4	27	6	4	10	
2. Plant Systems	1	3	3	2	3	2	2	2	2	2	3	2	26	2	3	5	
	2	1	1	1	1	1	1	1	1	1	1	2	12	0	1	3	
	Tier Totals	4	4	3	4	3	3	3	3	3	4	4	38	3	5	8	
3. Generic Knowledge & Abilities Categories				1		2		3		4		10	1	2	3	4	7
				2		3		2		3			2	2	1	2	
<p>Note: 1. 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).</p> <p>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.</p> <p>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 section D.1.b of ES-401, for guidance regarding elimination of inappropriate K/A statements.</p> <p>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.</p> <p>5. Absent a plant specific priority, only those KAs 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.</p> <p>6. Select SRO topics for Tiers 1 and 2 from the shaded systems and K/A categories.</p> <p>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. Refer to Section D.1.b of ES-401 for the applicable K/A's</p> <p>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. 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.</p> <p>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 10CFR55.43</p>																	

Nine Mile Point Unit 2  
Written Examination Outline  
Emergency and Abnormal Plant Evolutions – Tier 1 Group 1

EAPE # / Name Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Q#
295021 Loss of Shutdown Cooling / 4					X		AA2.05 - Ability to determine and/or interpret the following as they apply to LOSS OF SHUTDOWN COOLING : Reactor vessel metal temperature	3.5	76
295004 Partial or Total Loss of DC Pwr / 6					X		AA2.01 - Ability to determine and/or interpret the following as they apply to PARTIAL OR COMPLETE LOSS OF D.C. POWER : Cause of partial or complete loss of D.C. power	3.6	77
295030 Low Suppression Pool Water Level / 5					X		EA2.02 - Ability to determine and/or interpret the following as they apply to LOW SUPPRESSION POOL WATER LEVEL : Suppression pool temperature	3.9	78
295019 Partial or Total Loss of Inst. Air / 8						X	2.4.18 - Emergency Procedures / Plan: Knowledge of the specific bases for EOPs.	4.0	79
295018 Partial or Total Loss of CCW / 8						X	2.2.42 - Equipment Control: Ability to recognize system parameters that are entry-level conditions for Technical Specifications	4.6	80
295038 High Off-site Release Rate / 9						X	2.4.8 - Emergency Procedures / Plan: Knowledge of how abnormal operating procedures are used in conjunction with EOP's.	4.5	81
295025 High Reactor Pressure / 3					X		EA2.05 - Ability to determine and/or interpret the following as they apply to HIGH REACTOR PRESSURE: Decay heat generation.	3.6	82
295018 Partial or Total Loss of CCW / 8	X						AK1.01 - Knowledge of the operational implications of the following concepts as they apply to PARTIAL OR COMPLETE LOSS OF COMPONENT COOLING WATER : Effects on component/system operations	3.5	39
700000 Generator Voltage and Electric Grid Disturbances	X						AK1.02 - Knowledge of the operational implications of the following concepts as they apply to GENERATOR VOLTAGE AND ELECTRIC GRID DISTURBANCES and the following: Over-excitation.	3.3	40
295006 SCRAM / 1	X						AK1.03 - Knowledge of the operational implications of the following concepts as they apply to SCRAM : Reactivity control	3.7	41
295021 Loss of Shutdown Cooling / 4		X					AK2.05 - Knowledge of the interrelations between LOSS OF SHUTDOWN COOLING and the following: Fuel pool cooling and cleanup system	2.7	42
600000 Plant Fire On-site / 8		X					AK2.01 - Knowledge of the interrelations between PLANT FIRE ON SITE and the following: Sensors, detectors and valves	2.6	43
295026 Suppression Pool High Water Temp. / 5		X					EK2.06 - Knowledge of the interrelations between SUPPRESSION POOL HIGH WATER TEMPERATURE and the following: Suppression pool level	3.5	44
295037 SCRAM Conditions Present and Reactor Power			X				EK3.08 - Knowledge of the reasons for the following responses as they apply to	3.6	45

Nine Mile Point Unit 2  
Written Examination Outline  
Emergency and Abnormal Plant Evolutions – Tier 1 Group 1

EAPE # / Name Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Q#
Above APRM Downscale or Unknown / 1							SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN : ATWS circuitry: Plant-Specific		
295038 High Off-site Release Rate / 9			X				EK3.03 - Knowledge of the reasons for the following responses as they apply to HIGH OFF-SITE RELEASE RATE: Control room ventilation isolation: Plant-Specific	3.7	46
295025 High Reactor Pressure / 3			X				EK3.02 - Knowledge of the reasons for the following responses as they apply to HIGH REACTOR PRESSURE : Recirculation pump trip: Plant-Specific	3.9	47
295016 Control Room Abandonment / 7				X			AA1.02 - Ability to operate and/or monitor the following as they apply to CONTROL ROOM ABANDONMENT : Reactor/turbine pressure regulating system	2.9	48
295005 Main Turbine Generator Trip / 3				X			AA1.04 - Ability to operate and/or monitor the following as they apply to MAIN TURBINE GENERATOR TRIP : Main generator controls	2.7	49
295023 Refueling Acc Cooling Mode / 8				X			AA1.01 - Ability to operate and/or monitor the following as they apply to REFUELING ACCIDENTS : Secondary containment ventilation	3.3	50
295030 Low Suppression Pool Water Level / 5					X		EA2.04 - Ability to determine and/or interpret the following as they apply to LOW SUPPRESSION POOL WATER LEVEL : Drywell/ suppression chamber differential pressure: Mark-I&II	3.5	51
295001 Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4					X		AA2.06 - Ability to determine and/or interpret the following as they apply to PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION : Nuclear boiler instrumentation	3.2	52
295004 Partial or Total Loss of DC Pwr / 6					X		AA2.04 - Ability to determine and/or interpret the following as they apply to PARTIAL OR COMPLETE LOSS OF D.C. POWER : System lineups	3.2	53
295028 High Drywell Temperature / 5						X	2.4.1 - Emergency Procedures / Plan: Knowledge of EOP entry conditions and immediate action steps.	4.6	54
295003 Partial or Complete Loss of AC / 6						X	2.2.37 - Equipment Control: Ability to determine operability and/or availability of safety related equipment.	3.6	55
295024 High Drywell Pressure / 5						X	2.4.9 - Emergency Procedures / Plan: Knowledge of low power / shutdown implications in accident (e.g., loss of coolant accident or loss of residual heat removal) mitigation strategies.	3.8	56
295031 Reactor Low Water Level / 2	X						EK1.01 - Knowledge of the operational implications of the following concepts as they apply to REACTOR LOW WATER LEVEL : Adequate core cooling	4.6	57
295019 Partial or Total Loss of Inst. Air / 8		X					AK2.04 - Knowledge of the interrelations between PARTIAL OR COMPLETE LOSS OF INSTRUMENT AIR and the following: Reactor water cleanup	2.8	58

Nine Mile Point Unit 2  
 Written Examination Outline  
 Emergency and Abnormal Plant Evolutions – Tier 1 Group 1

EAPE # / Name Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Q#
K/A Category Totals:	4	4	3	3	3/4	3/3	Group Point Total:		20/7

Nine Mile Point Unit 2  
Written Examination Outline  
Emergency and Abnormal Plant Evolutions – Tier 1 Group 2

EAPE # / Name Safety Function	K1	K2	K3	A1	A2	G	K/A Topic(s)	Imp.	Q#
295033 High Secondary Containment Area Radiation Levels / 9					X		EA2.03 - Ability to determine and/or interpret the following as they apply to HIGH SECONDARY CONTAINMENT AREA RADIATION LEVELS : Cause of high area radiation	4.2	83
295036 Secondary Containment High Sump/Area Water Level / 5						X	2.4.41 - Emergency Procedures / Plan: Knowledge of the emergency action level thresholds and classifications.	4.6	84
500000 High CTMT Hydrogen Conc. / 5					X		EA2.02 - Ability to determine and / or interpret the following as they apply to HIGH PRIMARY CONTAINMENT HYDROGEN CONCENTRATIONS: Oxygen monitoring system availability	3.5	85
295020 Inadvertent Cont. Isolation / 5 & 7	X						AK1.01 - Knowledge of the operational implications of the following concepts as they apply to INADVERTENT CONTAINMENT ISOLATION : Loss of normal heat sink	3.7	59
295012 High Drywell Temperature / 5		X					AK2.02 - Knowledge of the interrelations between HIGH DRYWELL TEMPERATURE and the following: Drywell cooling	3.6	60
295010 High Drywell Pressure / 5			X				AK3.01 - Knowledge of the reasons for the following responses as they apply to HIGH DRYWELL PRESSURE : Drywell venting	3.8	61
295009 Low Reactor Water Level / 2				X			AA1.04 - Ability to operate and/or monitor the following as they apply to LOW REACTOR WATER LEVEL : Reactor water cleanup	2.7	62
295029 High Suppression Pool Water Level / 5					X		EA2.03 - Ability to determine and/or interpret the following as they apply to HIGH SUPPRESSION POOL WATER LEVEL : Drywell/containment water level	3.4	63
295035 Secondary Containment High Differential Pressure / 5						X	2.2.39 - Equipment Control: Knowledge of less than one hour technical specification action statements for systems.	3.9	64
295034 Secondary Containment Ventilation High Radiation / 9	X						EK1.0 - Knowledge of the operational implications of the following concepts as they apply to SECONDARY CONTAINMENT VENTILATION HIGH RADIATION : Radiation Releases	4.1	65
K/A Category Totals:	2	1	1	1	1/2	1/1	Group Point Total:	7/3	

Nine Mile Point Unit 2  
Written Examination Outline  
Plant Systems – Tier 2 Group 1

System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A2	A 3	A 4	G	Imp	Q#
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203000 RHR/LPCI: Injection Mode								X				A2.14 - Ability to (a) predict the impacts of the following on the RHR/LPCI: INJECTION MODE (PLANT SPECIFIC) ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Initiating logic failure	3.9	86
211000 SLC								X				A2.04 - Ability to (a) predict the impacts of the following on the STANDBY LIQUID CONTROL SYSTEM ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Inadequate system flow	3.4	87
217000 RCIC											X	2.1.23 – Ability to perform specific system and integrated plant procedures during all modes of plant operation.	4.4	88
262002 UPS (AC/DC)											X	2.2.40 – Ability to apply Technical Specifications for a system.	4.7	89
300000 Instrument Air											X	2.1.20 – Conduct of Operations: Ability to interpret and execute procedure steps.	4.6	90
300000 Instrument Air	X											K1.04 - Knowledge of the connections and / or cause effect relationships between INSTRUMENT AIR SYSTEM and the following: Cooling water to compressor	2.8	1
263000 DC Electrical Distribution	X											K1.04 - Knowledge of the physical connections and/or cause- effect relationships between D.C. ELECTRICAL DISTRIBUTION and the following: Ground detection	2.6	2
215004 Source Range Monitor		X										K2.01 - Knowledge of electrical power supplies to the following: SRM channels/detectors	2.6	3
209001 LPCS		X										K2.03 - Knowledge of electrical power supplies to the following: Initiation logic	2.9	4
218000 ADS			X									K3.01 - Knowledge of the effect that a loss or malfunction of the AUTOMATIC DEPRESSURIZATION SYSTEM will have on following: Restoration of reactor water level after a break that does not depressurize the reactor when required	4.4	5

Nine Mile Point Unit 2  
Written Examination Outline  
Plant Systems – Tier 2 Group 1

System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A2	A 3	A 4	G	Imp	Q#
203000 RHR/LPCI: Injection Mode			X									4.6	6
211000 SLC				X								3.4	7
209002 HPCS				X								3.4	8
215003 IRM					X							2.6	9
264000 EDGs					X							3.4	10
212000 RPS						X						2.8	11
217000 RCIC						X						3.5	12
259002 Reactor Water Level Control							X					3.6	13
400000 Component Cooling Water							X					2.8	14

Nine Mile Point Unit 2  
Written Examination Outline  
Plant Systems – Tier 2 Group 1

System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A2	A 3	A 4	G	Imp	Q#
261000 SGTS								X				3.2	15
239002 SRVs								X				4.1	16
262001 AC Electrical Distribution									X			3.1	17
215005 APRM / LPRM									X			3.5	18
223002 PCIS/Nuclear Steam Supply Shutoff										X		3.5	19
262002 UPS (AC/DC)										X		2.8	20
205000 Shutdown Cooling											X	4.0	21
300000 Instrument Air											X	4.2	22



Nine Mile Point Unit 2  
Written Examination Outline  
Plant Systems – Tier 2 Group 1

System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A2	A 3	A 4	G	Imp	Q#
215003 IRM	X											3.9	23
223002 PCIS/Nuclear Steam Supply Shutoff				X								2.7	24
262001 AC Electrical Distribution										X		3.2	25
212000 RPS		X										3.2	26
K/A Category Totals:	3	3	2	3	2	2	2	2/2	2	3	2/3	Group Point Total: 26/5	

Nine Mile Point Unit 2  
Written Examination Outline  
Plant Systems – Tier 2 Group 2

System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G	Imp.	Q #
241000 Reactor/Turbine Pressure Regulator								X				3.7	91
259001 Reactor Feedwater										X		4.1	92
219000 RHR/LPCI: Torus/Pool Cooling Mode										X		4.2	93
239001 Main and Reheat Steam	X											2.8	27
256000 Reactor Condensate		X										2.7	28
286000 Fire Protection			X									3.6	29
241000 Reactor/Turbine Pressure Regulator				X								2.5	30
245000 Main Turbine Generator and Auxiliary Systems					X							2.8	31
214000 RPIS						X						2.7	32

**Nine Mile Point Unit 2  
Written Examination Outline  
Plant Systems – Tier 2 Group 2**

System # / Name	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A2	A 3	A 4	G	Imp.	Q #
215001 Traversing In-core Probe							X					2.8	33
272000 Radiation Monitoring								X				3.4	34
233000 Fuel Pool Cooling/Cleanup									X			2.6	35
290001 Secondary CTMT										X		3.3	36
202001 Recirculation										X		4.2	37
201001 CRD Hydraulic										X		4.3	38
<b>K/A Category Totals:</b>	1	1	1	1	1	1	1	1/1	1	1	2/2	<b>Group Point Total: 12/3</b>	

Facility:		Nine Mile Point Unit 2		Date:		11/30/15	
Category	K/A #	Topic	RO		SRO-Only		
			IR	Q#	IR	Q#	
1. Conduct of Operations	2.1.43	Ability to use procedures to determine the effects on reactivity of plant changes, such as RCS temperature, secondary plant, fuel depletion, etc.			4.3	94	
	2.1.25	Ability to interpret reference materials, such as graphs, curves, tables, etc.			4.2	98	
	2.1.13	Knowledge of facility requirements for controlling vital / controlled access.	2.5	66			
	2.1.28	Knowledge of the purpose and function of major system components and controls.	4.1	67			
	Subtotal			2		2	
2. Equipment Control	2.2.38	Knowledge of conditions and limitations in the facility license.			4.5	95	
	2.2.23	Ability to track Technical Specification limiting conditions for operations.			4.6	99	
	2.2.2	Ability to manipulate the console controls as required to operate the facility between shutdown and designated power levels.	4.6	68			
	2.2.22	(Equipment Control: Knowledge of limiting conditions for operations and safety limits.	4.0	69			
	2.2.12	Knowledge of surveillance procedures.	3.7	74			
	Subtotal			3		2	
3. Radiation Control	2.3.5	Ability to use radiation monitoring systems, such as fixed radiation monitors and alarms, portable survey instruments, personell monitoring equipment, etc.			2.9	96	
	2.3.13	Knowledge of Radiological Safety Procedures pertaining to licensed operator duties, such as response to radiation monitor alarms, containment entry requirements, fuel handling responsibilities, access to locked high radiation areas, aligning filters, etc.	3.4	70			
	2.3.4	Knowledge of radiation exposure limits under normal or emergency conditions.	3.2	71			

	Subtotal			2		1
4. Emergency Procedures / Plan	2.4.47	Ability to diagnose and recognize trends in an accurate and timely manner utilizing the appropriate control room reference material.			4.2	97
	2.4.28	Knowledge of procedures relating to a security event.			4.1	100
	2.4.16	Knowledge of EOP implementation hierarchy and coordination with other support procedures or guidelines such as, operating procedures, AOP's and SAMG's.	3.5	72		
	2.4.28	Knowledge of procedures relating to a security event.	3.2	73		
	2.4.21	Knowledge of the parameters and logic used to assess the status of safety functions, such as reactivity control, core cooling and heat removal, reactor coolant system integrity, containment conditions, radioactivity release control, etc.	4.0	75		
	Subtotal			3		2
Tier 3 Point Total					10	7

Tier / Group	Randomly Selected K/A	Reason for Rejection
2/2	<p>Question 30 241000 Reactor/Turbine Pressure Regulator</p> <p>K4.16 Knowledge of REACTOR/TURBINE PRESSURE REGULATING SYSTEM design feature(s) and/or interlocks which provide for the following: Reactor Cooldown</p>	<p>An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.</p> <p>Randomly re-sampled KA 241000 K4.10 - Knowledge of REACTOR/TURBINE PRESSURE REGULATING SYSTEM design feature(s) and/or interlocks which provide for the following: Turbine Shell Warming: EHC Only</p>
2/2	<p>Question 36 209001 Secondary Containment</p> <p>A4.12 - Ability to manually operate and/or monitor in the control room: Surveillance testing: Plant-Specific</p>	<p>An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.</p> <p>Randomly re-sampled KA 209001 A4.01 - Ability to manually operate and/or monitor in the control room: Reactor building differential pressure: Plant-Specific</p>
2/1	<p>Question 6 218000 Automatic Depressurization System</p> <p>K3.03 Knowledge of the effect that a loss or malfunction of the RHR/LPCI: INJECTION MODE (PLANT SPECIFIC) will have on following: Automatic depressurization logic</p>	<p>Question concept overlaps with question #5 concept for the randomly sampled KA.</p> <p>Randomly re-sampled KA 203000 K3.04 - Knowledge of the effect that a loss or malfunction of the RHR/LPCI: INJECTION MODE (PLANT SPECIFIC) will have on following: Adequate core cooling</p>
2/1	<p>Question 22 300000 Instrument Air</p> <p>2.2.40 - Equipment Control: Ability to apply technical specifications for a system</p>	<p>An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.</p> <p>Randomly re-sampled KA 300000 2.2.44 - Equipment Control: Ability to interpret control room indications to verify the status and operation of a system, and understand how operator actions and directives affect plant and system conditions.</p>
2/2	<p>Question 31 201004 RSCS</p> <p>K5.03 - Knowledge of the operational implications of the following concepts as they apply to ROD SEQUENCE Group notch control limits and rod density: BWR-4,5</p>	<p>System has been retired, unable to write a question for the randomly sampled KA.</p> <p>Randomly re-sampled KA 203000 K5.02 - Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: INJECTION MODE (PLANT SPECIFIC): Core cooling methods</p>

2/2	<p>Question 37 202001 Recirculation</p> <p>2.4.41 - Emergency Procedures / Plan: Knowledge of the emergency action level thresholds and classifications</p>	<p>An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.</p> <p>Randomly re-sampled KA 202001 2.4.31 – Emergency Procedures / Plan: Knowledge of annunciator alarms, indications, or response procedures</p>
1/1	<p>Question 54 295028 High Drywell Temperature/5</p> <p>2.4.49 - Emergency Procedures / Plan: Ability to perform without reference to procedures those actions that require immediate operation of system components and controls.</p>	<p>An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.</p> <p>Randomly re-sampled KA 295028 2.4.1 – Emergency Procedures / Plan: Knowledge of EOP entry conditions and immediate action steps</p>
1/1	<p>Question 55 295003 Partial or Complete Loss of AC / 6</p> <p>2.2.3 - Equipment Control: (multi-unit license) Knowledge of the design, procedural, and operational differences between units</p>	<p>NMP2 is a standalone unit.</p> <p>Randomly re-sampled KA 295003 2.2.37 – Equipment Control: Ability to determine operability and/or availability of safety related equipment.</p>
1/2	<p>Question 65 295034 Secondary Containment Ventilation High Radiation / 9</p> <p>EK1.01- Knowledge of the operational implications of the following concepts as they apply to SECONDARY CONTAINMENT VENTILATION HIGH RADIATION: Personnel protection</p>	<p>An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.</p> <p>Randomly re-sampled KA 295034 EK1.02 – Knowledge of the operational implications of the following concepts as they apply to SECONDARY CONTAINMENT VENTILATION HIGH RADIATION: Radiation Releases.</p>
3	<p>Question 69 2.2.4 Suppression Pool High Water Temp. / 5</p> <p>2.2.4 - Equipment Control: (multi-unit license) Knowledge of the design, procedural, and operational differences between units</p>	<p>NMP2 is a standalone unit.</p> <p>Randomly re-sampled KA 295003 2.2.22 – Equipment Control: Knowledge of limiting conditions for operations and safety limits.</p>
2/2	<p>Question 31 201004 RSCS</p> <p>K5.03 - Knowledge of the operational implications of the following concepts as</p>	<p>Randomly sampled system does not exist at this facility</p>

	they apply to ROD SEQUENCE Group notch control limits and rod density: BWR-4,5	Randomly re-sampled KA 245000 K5.02 – Knowledge of the operational implications of the following concepts as they apply to MAIN TURBINE GENERATOR AND AUXILIARY SYSTEMS: Turbine operation and limitations
1/1	Question 80 295018 Partial or Total Loss of CCW / 8  2.2.39 - Equipment Control: Knowledge of less than one hour technical specification action statements for systems.	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA. Knowledge of less than one hour technical specification action statements is RO level of knowledge per NUREG1021 ES401, attachment 2.  Randomly re-sampled KA 295018 2.2.42– Equipment Control: Ability to recognize system parameters that are entry-level conditions for Technical Specifications
1/1	Question 81 295038 High Off-site Release Rate / 9  2.4.20 - Emergency Procedures / Plan: Knowledge of operational implications of EOP warnings, cautions, and notes.	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.  Randomly re-sampled KA 295038 2.4.8 – Emergency Procedures / Plan: Knowledge of how abnormal operating procedures are used in conjunction with EOP's.
2/1	Question 88 217000 RCIC  2.1.27 - Conduct of Operations: Knowledge of system purpose and / or function.	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA. The question can be answered solely by knowing “systems knowledge”, i.e., how the system works, flowpath, logic, component location per NUREG1021 ES401, attachment 2.  Randomly re-sampled KA 217000 2.1.23 – Ability to perform specific system and integrated plant procedures during all modes of plant operation.
2/1	Question 90 300000 Instrument Air  2.1.30 - Conduct of Operations: Ability to locate and operate components, including local controls.	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA. The question can be answered solely by knowing “systems knowledge”, i.e., how the system works, flowpath, logic, component location per NUREG1021 ES401, attachment 2.  Randomly re-sampled KA 300000 2.1.20 – Conduct of Operations: Ability to interpret and execute procedure steps.
3	Question 98 2.1.44  2.1.44 - Conduct of Operations: Knowledge of RO duties in the control room during fuel handling such as responding to alarms from the fuel	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA.



	handling area, communication with fuel storage facility, systems operated from the control room in support of fueling operations, and supporting instrumentation.	Randomly re-sampled KA 2.1.25 – Ability to interpret reference materials, such as graphs, curves, tables, etc.
1/2	Question 89 262002 UPS (AC/DC)  2.4.46 - Emergency Procedures / Plan: Ability to verify that the alarms are consistent with the plant conditions.	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA. There is not enough of a direct tie between the UPS system and the Emergency Procedures / Plan.  Randomly re-sampled KA 262002 2.2.40 – Ability to apply Technical Specifications for a system.
2/2	Question 91 241000 Reactor/Turbine Pressure Regulator  A2.23 - Ability to (a) predict the impacts of the following on the REACTOR/TURBINE PRESSURE REGULATING SYSTEM ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Turbine high eccentricity	An operationally relevant question at the appropriate license level could not be written for the randomly sampled KA. Resampled by Chief Examiner direction.  Randomly re-sampled KA 241000 A2.07 - Ability to (a) predict the impacts of the following on the REACTOR/TURBINE PRESSURE REGULATING SYSTEM ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Loss of Condenser Vacuum