

Facility: Dresden																	Date of Exam: June 2020									
Tier	Group	RO K/A Category Points													SRO-Only Points											
		K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G*	Total	A2		G*		Total								
1. Emergency and Abnormal Plant Evolutions	1	3	3	4	N/A			4	3	N/A			3	20	4		3		7							
	2	1	1	1				1	2				1	7	2		1		3							
	Tier Totals	4	4	5				5	5				4	27	6		4		10							
2. Plant Systems	1	2	2	2	2	3	3	2	2	3	3	2	26	2		3		5								
	2	1	1	1	1	1	1	1	1	2	1	1	12	1	1	1		3								
	Tier Totals	3	3	3	3	4	4	3	3	5	4	3	38	4		4		8								
3. Generic Knowledge and Abilities Categories					1		2		3		4		10	1	2	3	4	7								
					3		2		2		3			2	2	1	2									

- 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 outline sections (i.e., except for one category in Tier 3 of the SRO-only section, the "Tier Totals" in each K/A category shall not be less than two). (One Tier 3 radiation control K/A is allowed if it is replaced by a K/A from another Tier 3 category.)
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 outline. Systems or evolutions that do not apply at the facility should be deleted with justification. Operationally important, site-specific systems/evolutions that are not included on the outline should be added. Refer to Section D.1.b of ES-401 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. 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. Refer to Section D.1.b of ES-401 for the applicable K/As.
8. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' 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 a category 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.
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.

G* Generic K/As

- * These systems/evolutions must be included as part of the sample (as applicable to the facility) when Revision 3 of the K/A catalog is used to develop the sample plan. They are not required to be included when using earlier revisions of the K/A catalog.
- ** These systems/evolutions may be eliminated from the sample (as applicable to the facility) when Revision 3 of the K/A catalog is used to develop the sample plan.

ES-401		BWR Examination Outline Emergency and Abnormal Plant Evolutions—Tier 1/Group 1 (RO)						Form ES-401-1	
E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G*	K/A Topic(s)	IR	#
295001 (APE 1) Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4			05				AK3.05 – Knowledge of the reasons for the following responses as they apply to PARTIAL OR COMPLETE LOSS OF FORCED CORE FLOW CIRCULATION: Reduced loop operating requirements: Plant-specific. (CFR: 41.5 / 45.6)	3.2	1
295003 (APE 3) Partial or Complete Loss of AC Power / 6				03			AA1.03 – Ability to operate and/or monitor as they apply to PARTIAL OR COMPLETE LOSS OF AC POWER: Systems necessary to assure safe plant shutdown. (CFR: 41.7 / 45.6)	4.4	2
295004 (APE 4) Partial or Total Loss of DC Power / 6					01		AA2.01 – Ability to determine and/or interpret the following as they apply to PARTIAL OR COMPLETE LOSS OF DC POWER: Cause of partial or complete loss of DC power. (CFR: 41.10 / 43.5 / 45.13)	3.2	3
295005 (APE 5) Main Turbine Generator Trip / 3						01.20	G2.1.20 – Ability to interpret and execute procedure steps. (CFR: 41.10 / 43.5 / 45.12)	3.5	4
295006 (APE 6) Scram / 1	02						AK1.02 – Knowledge of the operational implications of the following concepts as they apply to SCRAM: Shutdown margin. (CFR: 41.8 to 41.10)	3.4	5
295016 (APE 16) Control Room Abandonment / 7		03					AK2.03 – Knowledge of the interrelations between the CONTROL ROOM ABANDONMENT and the following: Control Room HVAC. (CFR: 41.7 / 45.8)	2.9	6
295018 (APE 18) Partial or Complete Loss of CCW / 8			04				AK3.04 – Knowledge of the reasons for the following responses as they apply to PARTIAL OR COMPLETE LOSS OF COMPONENT COOLING WATER: Starting standby pump. (CFR: 41.5 / 45.6)	3.3	7
295019 (APE 19) Partial or Complete Loss of Instrument Air / 8				01			AA1.01 – Ability to operate and/or monitor the following as they apply to PARTIAL OR COMPLETE LOSS OF INSTRUMENT AIR: Backup air supply. (CFR: 41.7 / 45.6)	3.5	8
295021 (APE 21) Loss of Shutdown Cooling / 4					02		AA2.02 – Ability to determine and/or interpret the following as they apply to LOSS OF SHUTDOWN COOLING: RHR/shutdown cooling system flow. (CFR: 41.10 / 43.5 / 45.13)	3.4	9
295023 (APE 23) Refueling Accidents / 8						04.31	G2.4.31 – Knowledge of annunciator alarms, indications, or response procedures. (CFR: 41.10 / 45.3)	4.2	10
295024 High Drywell Pressure / 5	01						EK1.01 – Knowledge of the operational implications of the following concepts as they apply to HIGH DRYWELL PRESSURE: Drywell integrity: Plant-specific. (CFR: 41.8 to 41.10)	4.1	11
295025 (EPE 2) High Reactor Pressure / 3		02					EK2.02 – Knowledge of the interrelations between HIGH REACTOR PRESSURE and the following: Isolation condenser: Plant-specific (CFR: 41.7 / 45.8)	4.2	12
295026 (EPE 3) Suppression Pool High Water Temperature / 5			05				EK3.05 – Knowledge of the reasons for the following responses as they apply to SUPPRESSION POOL HIGH WATER TEMPERATURE: Reactor Scram. (CFR: 41.5 / 45.6)	3.9	13

295027 (EPE 4) High Containment Temperature (Mark III Containment Only) / 5									
295028 (EPE 5) High Drywell Temperature (Mark I and Mark II only) / 5				02			EA1.02 – Ability to operate and/or monitor the following as they apply to HIGH DRYWELL TEMPERATURE: Drywell ventilation system. (CFR: 41.7 / 45.6)	3.9	14
295030 (EPE 7) Low Suppression Pool Water Level / 5					04		EA2.04 – Ability to determine and/or interpret the following as they apply to LOW SUPPRESSION POOL WATER LEVEL: Drywell/suppression chamber differential pressure. (CFR: 41.10 / 43.5 / 45.13)	3.5	15
295031 (EPE 8) Reactor Low Water Level / 2						02.44	G2.2.44 – 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. (CFR: 41.5 / 43.5 / 45.12)	4.2	16
295037 (EPE 14) Scram Condition Present and Reactor Power Above APRM Downscale or Unknown / 1	03						EK1.03 – Knowledge of the operational implications of the following concepts as they apply to SCRAM CONDITION PRESENT AND REACTOR POWER ABOVE APRM DOWNSCALE OR UNKNOWN: Boron effects on reactor power (SBLC). (CFR: 41.8 to 41.10)	4.2	17
295038 (EPE 15) High Offsite Radioactivity Release Rate / 9		05					EK2.05 – Knowledge of the interrelations between HIGH OFF-SITE RELEASE RATE and the following: Site emergency plan. (CFR: 41.7 / 45.8)	3.7	18
600000 (APE 24) Plant Fire On Site / 8			04				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. (CFR: 41.5, 41.10 / 45.5, 45.7, 45.8)	2.8	19
700000 (APE 25) Generator Voltage and Electric Grid Disturbances / 6				03			AA1.03 – Ability to operate and/or monitor the following as they apply to GENERATOR VOLTAGE AND ELECTRIC GRID DISTURBANCES: Voltage regulator controls. (CFR: 41.5, 41.10 / 45.5, 45.7, 45.8)	3.8	20
K/A Category Totals:	3	3	4	4	3	3	Group Point Total:		20

ES-401		BWR Examination Outline Emergency and Abnormal Plant Evolutions—Tier 1/Group 2 (RO)						Form ES-401-1	
E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G*	K/A Topic(s)	IR	#
295002 (APE 2) Loss of Main Condenser Vacuum / 3									
295007 (APE 7) High Reactor Pressure / 3									
295008 (APE 8) High Reactor Water Level / 2									
295009 (APE 9) Low Reactor Water Level / 2					03		AA2.03 – Ability to determine and/or interpret the following as they apply to LOW REACTOR WATER LEVEL: Reactor water cleanup blowdown rate. (CFR: 41.10 / 43.5 / 45.13)	2.9	21
295010 (APE 10) High Drywell Pressure / 5									
295011 (APE 11) High Containment Temperature (Mark III Containment only) / 5									
295012 (APE 12) High Drywell Temperature / 5						04.01	G2.4.1 – Knowledge of EOP entry conditions and immediate action steps. (CFR: 41.10 / 43.5 / 45.13)	4.6	22
295013 (APE 13) High Suppression Pool Temperature. / 5									
295014 (APE 14) Inadvertent Reactivity Addition / 1									
295015 (APE 15) Incomplete Scram / 1	02						AK1.02 – Knowledge of the operational implications of the following concepts as they apply to INCOMPLETE SCRAM: Cooldown effects on reactor power. (CFR: 41.8 to 41.10)	3.9	23
295017 (APE 17) Abnormal Offsite Release Rate / 9									
295020 (APE 20) Inadvertent Containment Isolation / 5 & 7									
295022 (APE 22) Loss of Control Rod Drive Pumps / 1		03					AK2.03 – Knowledge of the interrelations between LOSS OF CRD PUMPS and the following: Accumulator pressures. (CFR: 41.7 / 45.8)	3.4	24
295029 (EPE 6) High Suppression Pool Water Level / 5			01				EK3.01 – Knowledge of the reasons for the following responses as they apply to HIGH SUPPRESSION POOL WATER LEVEL: Emergency depressurization. (CFR: 41.5 / 45.6)	3.5	25
295032 (EPE 9) High Secondary Containment Area Temperature / 5									
295033 (EPE 10) High Secondary Containment Area Radiation Levels / 9				03			EA1.03 – Ability to operate and/or monitor the following as they apply to HIGH SECONDARY CONTAINMENT AREA RADIATION LEVELS: Secondary containment ventilation. (CFR: 41.7 / 45.6)	3.8	26
295034 (EPE 11) Secondary Containment Ventilation High Radiation / 9									
295035 (EPE 12) Secondary Containment High Differential Pressure / 5					01		EA2.01 – Ability to determine and/or interpret the following as they apply to SECONDARY CONTAINMENT HIGH DIFFERENTIAL PRESSURE: Secondary containment pressure: Plant-specific. (CFR: 41.8 to 41.10)	3.8	27

295036 (EPE 13) Secondary Containment High Sump/Area Water Level / 5									
500000 (EPE 16) High Containment Hydrogen Concentration / 5									
K/A Category Point Totals:	1	1	1	1	2	1	Group Point Total:		7

BWR Examination Outline Plant Systems—Tier 2/Group 1 (RO)													Form ES-401-1	
System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G*	K/A Topic(s)	IR	#
203000 (SF2, SF4 RHR/LPCI) RHR/LPCI: Injection Mode						08						K6.08 – Knowledge of the effect that a loss or malfunction of the following will have on the RHR/LPCI: INJECTION MODE (Plant-specific): ECCS room cooling. (CFR: 41.7 / 45.7)	2.9	28
										04		A4.04 – Ability to manually operate and/or monitor in the control room: Heat exchanger cooling flow. (CFR: 41.7 / 45.5 to 45.8)	3.6	29
205000 (SF4 SCS) Shutdown Cooling							03					A1.03 – Ability to predict and/or monitor changes in parameters associated with operating the SHUTDOWN COOLING SYSTEM (RHR SHUTDOWN COOLING MODE) controls including: Recirculation loop temperatures. (CFR: 41.5 / 45.5)	3.3	30
206000 (SF2, SF4 HPCIS) High-Pressure Coolant Injection								16				A2.16 – Ability to (a) predict the impacts of the following on the HIGH PRESSURE COOLANT INJECTION SYSTEM; and (b) based on those predictions, use procedures to correct, control or mitigate the consequences of those abnormal conditions or operations: High drywell pressure: BWR-2,3,4 (CFR: 41.5 / 45.6)	4.0	31
										08		A3.08 – Ability to monitor automatic operations of the HIGH PRESSURE COOLANT INJECTION SYSTEM including: Condensate storage tank level: BWR-2,3,4 (CFR: 41.7 / 45.7)	3.7	32
207000 (SF4 IC) Isolation (Emergency) Condenser									01			A3.01 – Ability to monitor automatic operations of the ISOLATION (EMERGENCY) CONDENSER including: Isolation condenser level: BWR-2,3 (CFR: 41.7 / 45.7)	3.5	33
209001 (SF2, SF4 LPCS) Low-Pressure Core Spray										01		A4.01 – Ability to manually operate and/or monitor in the control room: Core spray pump (CFR: 41.7 / 45.5 to 45.8)	3.8	34
209002 (SF2, SF4 HPCS) High-Pressure Core Spray														
211000 (SF1 SLCS) Standby Liquid Control											01.31	G2.1.31 – Ability to locate control room switches, controls, and indications, and to determine that they correctly reflect the desired plant lineup. (CFR: 41.10 / 45.12)	4.6	35
212000 (SF7 RPS) Reactor Protection	06											K1.06 – Knowledge of the physical connections and/or cause-effect relationships between REACTOR PROTECTION SYSTEM and the following: Control rod drive hydraulic system. (CFR: 41.2 to 41.9 / 45.7 to 45.8)	3.5	36
					02							K5.02 – Knowledge of the operational implications of the following concepts as they apply to REACTOR PROTECTION SYSTEM: Specific logic arrangements. (CFR: 41.5 / 45.3)	3.3	37
215003 (SF7 IRM) Intermediate-Range Monitor		01										K2.01 – Knowledge of electrical power supplies to the following: IRM channels/detectors. (CFR: 41.7)	2.5	38

215004 (SF7 SRMS) Source-Range Monitor			01								K3.01 – Knowledge of the effect that loss or malfunction of the SOURCE RANGE MONITOR (SRM) SYSTEM will have on following: RPS. (CFR: 41.7 / 45.4)	3.4	39
215005 (SF7 PRMS) Average Power Range Monitor/Local Power Range Monitor			01								K4.01 – Knowledge of AVERAGE POWER RANGE MONITOR/LOCAL POWER RANGE MONITOR SYSTEM design feature(s) and/or interlocks which provide for the following: Rod withdrawal blocks. (CFR: 41.7)	3.7	40
217000 (SF2, SF4 RCIC) Reactor Core Isolation Cooling													
218000 (SF3 ADS) Automatic Depressurization				01							K5.01 – Knowledge of the operational implications of the following concepts as they apply to AUTOMATIC DEPRESSURIZATION SYSTEM: ADS logic operation. (CFR: 41.5 / 45.3)	3.8	41
223002 (SF5 PCIS) Primary Containment Isolation/Nuclear Steam Supply Shutoff					04						K6.04 – Knowledge of the effect that a loss or malfunction of the following will have on the PRIMARY CONTAINMENT ISOLATION SYSTEM/NUCLERA STEAM SUPPLY SHUT-OFF: Nuclear boiler instrumentation. (CFR: 41.7 / 45.7)	3.3	42
239002 (SF3 SRV) Safety Relief Valves						06					A1.06 – Ability to predict and/or monitor changes in parameters associated with operating the RELIEF/SAFETY VALVES controls including: Reactor power. (CFR: 41.5 / 45.5)	3.7	43
259002 (SF2 RWLCS) Reactor Water Level Control	02						02				K1.02 – Knowledge of the physical connections and/or cause-effect relationships between REACTOR WATER LEVEL CONTROL SYSTEM and the following: Main steam flow. (CFR: 41.2 to 41.9 / 45.7 to 45.8) A2.02 – Ability to (a) predict the impacts of the following on the REACTOR WATER LEVEL CONTROL SYSTEM: and (b) based on those predictions, use procedure to correct, control, or mitigate the consequences of those abnormal conditions or operations: Loss of any number of reactor feedwater flow inputs. (CFR: 41.5 / 45.6)	3.5 3.3	44 45
261000 (SF9 SGTS) Standby Gas Treatment								01			A3.01 – Ability to monitor automatic operations of the STANDBY GAS TREATMENT SYSTEM including: System flow (CFR: 41.7 / 45.7)	3.2	46
262001 (SF6 AC) AC Electrical Distribution									02		A4.02 – Ability to manually operate and/or monitor in the control room: Synchroscope, including understanding of running and incoming voltages. (CFR: 41.7 / 45.5 to 45.8)	3.4	47
262002 (SF6 UPS) Uninterruptable Power Supply (AC/DC)									01. 29		G2.1.29 – Knowledge of how to conduct system lineups, such as valves, breakers, switches, etc. (CFR: 41.10 / 45.1 / 45.12)	4.1	48
263000 (SF6 DC) DC Electrical Distribution	04										K1.04 – Knowledge of the physical connections and/or cause-effect relationships between DC ELECTRICAL DISTRIBUTION and the following: Ground detection. (CFR: 41.2 to 41.9 / 45.7 to 45.8)	2.6	49

264000 (SF6 EGE) Emergency Generators (Diesel/Jet) EDG			01										K3.01 – Knowledge of the effect that a loss or malfunction of the EMERGENCY GENERATORS (DIESEL/JET) will have on the following: Emergency core cooling systems. (CFR: 41.7 / 45.4)	4.2	50
				05									K5.05 – Knowledge of the operational implications of the following concepts as they apply to EMERGENCY GENERATORS (DIESEL/JET): Paralleling AC power sources (CFR: 41.5 / 45.3)	3.4	51
300000 (SF8 IA) Instrument Air			01										K4.01 – Knowledge of (INSTRUMENT AIR SYSTEM) design feature(s) and/or interlocks which provide for the following: Manual/automatic transfers of control. (CFR: 41.7)	2.8	52
400000 (SF8 CCS) Component Cooling Water					04								K6.04 – Knowledge of the effect that a loss or malfunction of the following will have on the CCWS: Pumps. (CFR: 41.7 / 45.7)	3.0	53
510000 (SF4 SWS*) Service Water (Normal and Emergency)															
K/A Category Point Totals:	3	1	2	2	3	3	2	2	3	3	2	Group Point Total:			26

[illegible]

259001 (SF2 FWS) Feedwater						09						K6.09 – Knowledge of the effect that loss or malfunction of the following will have on the REACTOR FEEDWATER SYSTEM: Reactor feedwater pump lube oil system (CFR: 41.7 / 45.7)	2.8	62
268000 (SF9 RW) Radwaste														
271000 (SF9 OG) Offgas						13						A1.13 – Ability to predict and/or monitor changes in parameters associated with operating the OFFGAS SYSTEM controls including: Hydrogen gas concentration. (CFR: 41.5 / 45.5)	3.2	63
272000 (SF7, SF9 RMS) Radiation Monitoring								09				A2.09 – Ability to (a) predict the impacts of the following on the RADIATION MONITORING SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Low fuel pool level. (CFR: 41.5 / 45.6)	3.1	64
286000 (SF8 FPS) Fire Protection									02			A3.02 – Ability to monitor automatic operations of the FIRE PROTECTION SYSTEM including: Fire main pressure. (CFR: 41.7 / 45.7)	3.1	65
288000 (SF9 PVS) Plant Ventilation														
290001 (SF5 SC) Secondary Containment														
290003 (SF9 CRV) Control Room Ventilation														
290002 (SF4 RVI) Reactor Vessel Internals														
51001 (SF8 CWS*) Circulating Water														
K/A Category Point Totals:	1	1	1	1	1	1	1	1	2	1	1	Group Point Total:		12

[illegible]

700000 (APE 25) Generator Voltage and Electric Grid Disturbances / 6									
K/A Category Totals:					4	3	Group Point Total:		7

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E/APE # / Name / Safety Function	K1	K2	K3	A1	A2	G*	K/A Topic(s)	IR	#
295002 (APE 2) 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. (CFR: 41.10 / 43.5 / 45.13)	3.1	83
295007 (APE 7) High Reactor Pressure / 3									
295008 (APE 8) High Reactor Water Level / 2									
295009 (APE 9) Low Reactor Water Level / 2									
295010 (APE 10) High Drywell Pressure / 5									
295011 (APE 11) High Containment Temperature (Mark III Containment only) / 5									
295012 (APE 12) High Drywell Temperature / 5									
295013 (APE 13) High Suppression Pool Temperature. / 5						01.07	G2.1.7 – Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior, and instrument interpretation. (CFR: 41.5 / 43.5 / 45.12, 45.13)	4.7	84
295014 (APE 14) Inadvertent Reactivity Addition / 1									
295015 (APE 15) Incomplete Scram / 1									
295017 (APE 17) Abnormal Offsite Release Rate / 9									
295020 (APE 20) Inadvertent Containment Isolation / 5 & 7									
295022 (APE 22) Loss of Control Rod Drive Pumps / 1									
295029 (EPE 6) High Suppression Pool Water Level / 5									
295032 (EPE 9) High Secondary Containment Area Temperature / 5					02		EA2.02 – Ability to determine and/or interpret the following as they apply to HIGH SECONDARY CONTAINMENT AREA TEMPERATURE: Equipment operability. (CFR: 41.10 / 43.5 / 45.13)	3.5	85
295033 (EPE 10) High Secondary Containment Area Radiation Levels / 9									
295034 (EPE 11) Secondary Containment Ventilation High Radiation / 9									
295035 (EPE 12) Secondary Containment High Differential Pressure / 5									
295036 (EPE 13) Secondary Containment High Sump/Area Water Level / 5									
500000 (EPE 16) High Containment Hydrogen Concentration / 5									
K/A Category Point Totals:					2	1	Group Point Total:		3

263000 (SF6 DC) DC Electrical Distribution																			
264000 (SF6 EGE) Emergency Generators (Diesel/Jet) EDG																			
300000 (SF8 IA) Instrument Air																			
400000 (SF8 CCS) Component Cooling Water																			
510000 (SF4 SWS*) Service Water (Normal and Emergency)																			
K/A Category Point Totals:									2				3	Group Point Total:					5

BWR Examination Outline Plant Systems—Tier 2/Group 2 (SRO)													Form ES-401-1		
ES-401															
System # / Name	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G*	K/A Topic(s)	IR	#	
201001 (SF1 CRDH) CRD Hydraulic															
201002 (SF1 RMCS) Reactor Manual Control															
201003 (SF1 CRDM) Control Rod and Drive Mechanism															
201004 (SF7 RSCS) Rod Sequence Control															
201005 (SF1, SF7 RCIS) Rod Control and Information															
201006 (SF7 RWMS) Rod Worth Minimizer															
202001 (SF1, SF4 RS) Recirculation															
202002 (SF1 RSCTL) Recirculation Flow Control								04				A2.04 – Ability to (a) predict the impacts of the following on the RECIRCULATION FLOW CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Recirculation pump speed mismatch between loops (CFR: 41.5 / 45.6)	3.2	91	
204000 (SF2 RWCU) Reactor Water Cleanup															
214000 (SF7 RPIS) Rod Position Information															
215001 (SF7 TIP) Traversing In-Core Probe															
215002 (SF7 RBMS) Rod Block Monitor															
216000 (SF7 NBI) Nuclear Boiler Instrumentation															
219000 (SF5 RHR SPC) RHR/LPCI: Torus/Suppression Pool Cooling Mode															
223001 (SF5 PCS) Primary Containment and Auxiliaries															
226001 (SF5 RHR CSS) RHR/LPCI: Containment Spray Mode															
230000 (SF5 RHR SPS) RHR/LPCI: Torus/Suppression Pool Spray Mode															
233000 (SF9 FPCCU) Fuel Pool Cooling/Cleanup															
234000 (SF8 FH) Fuel-Handling Equipment									02			A3.02 – Ability to monitor automatic operations of the FUEL HANDLING EQUIPMENT including: Interlock operation. (CFR: 41.7 / 45.7)	3.7	92	
239001 (SF3, SF4 MRSS) Main and Reheat Steam															
239003 (SF9 MSVLCS) Main Steam Isolation Valve Leakage Control															
241000 (SF3 RTPRS) Reactor/Turbine Pressure Regulating															
245000 (SF4 MTGEN) Main Turbine Generator/Auxiliary															
256000 (SF2 CDS) Condensate															
259001 (SF2 FWS) Feedwater															
268000 (SF9 RW) Radwaste															
271000 (SF9 OG) Offgas															
272000 (SF7, SF9 RMS) Radiation Monitoring															
286000 (SF8 FPS) Fire Protection															
288000 (SF9 PVS) Plant Ventilation															
290001 (SF5 SC) Secondary Containment															

290003 (SF9 CRV) Control Room Ventilation											02. 25	G2.2.25 – Knowledge of the bases in Technical Specifications for limiting conditions for operations and safety limits. (CFR: 41.5, 41.7 / 43.2)	4.2	93
290002 (SF4 RVI) Reactor Vessel Internals														
51001 (SF8 CWS*) Circulating Water														
K/A Category Point Totals:	0	0	0	0	0	0	0	0	1	1	0	1	Group Point Total:	3