		1
Facility: <u>Vogtle 1 & 2</u> Examination Level: RO ☑	SRO	Date of Examination:08/31/2015 Operating Test Number:2015-301
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	R, D	a. V-NRC-JP-19200-HL20: Evaluate Critical Safety Function Status Trees (CSFSTs) with an Inoperable Integrated Plant Computer (IPC)
		Description: Unit 1 reactor tripped from full power, and the crew transitioned from 19000-C, "Reactor Trip or Safety Injection." The applicant will be directed to monitor and evaluate all CSFSTs, identify the highest priority critical safety function, and determine any required procedure transition using 19200-C, "Critical Safety Function Status Trees." With the IPC not available, the applicant will be given data for multiple parameters to be used in the evaluation. G2.1.7 RO 4.4
Conduct of Operations	R, D	b. V-NRC-JP-14005-HL20: Determine k _{eff} for All Shutdown Rod Banks Withdrawn in Preparation for Reactor Startup
		Description: Unit 2 is performing a reactor startup following a trip from steady state, 100% reactor power. Prior to commencing shutdown rod bank withdrawal, the applicant will be required to calculate $k_{\rm eff}$ for the given conditions using 14005-2, "Shutdown Margin and $K_{\rm eff}$ Calculations," and determine if $k_{\rm eff}$ will remain less than 0.99 with all shutdown rod banks withdrawn.
		G2.1.43 RO 4.1
Equipment Control	R, M	c. V-NRC-JP-14915-HL20: Perform Axial Flux Difference (AFD) Surveillance for Inoperable DELTA FLUX DEVIATION Alarm
		Description: The Unit 1 DELTA FLUX DEVIATION (AFD) alarm was inoperable when a 30% turbine load rejection occurred from full power. With data provided (pictures of control board meters), the applicant will be required to determine AFD using 14915-1, "Special Conditions Surveillance Logs," Data Sheet 6. The applicant will then determine if the surveillance is completed satisfactorily by comparing the results to the acceptance criterion.
		G2.2.12 RO 3.7

Radiation Control	R, M	d. V-NRC-JP-00930-HL20: Select Correct RWP, Calculate Projected Dose, and Determine if a Task can be Performed Within Limits of the RWP Description: A Unit 1 valve requires manipulation. The applicant will be given the valve name and location, a room map with the radiological conditions, and two different operations department RWPs. The applicant will be required to determine the location of the valve on the map and choose the correct RWP to be used based on the radiological conditions in the room. The applicant will then calculate the projected dose for the valve manipulation and will determine if the projected dose is within the limits of the selected RWP. G2.3.7 RO 3.5
Emergency Plan	N/A	N/A
NOTE: All items (five total) are retaking only the adm	equired for ninistrativ	or SROs. RO applicants require only four items unless they te topics (which would require all five items).
	(D)irect fr (N)ew or	room, (S)imulator, or Class(R)oom rom bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (M)odified from bank (≥ 1) s 2 exams (≤ 1; randomly selected)

Facility: Vogtle 1 & 2 Examination Level: RO SF	80 2	Date of Examination: 08/31/2015 Operating Test Number: 2015-301
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	R, D	a. V-NRC-JP-19200-HL20: Evaluate Critical Safety Function Status Trees (CSFSTs) with an Inoperable Integrated Plant Computer (IPC)
		Description: Unit 1 reactor tripped from full power, and the crew transitioned from 19000-C, "Reactor Trip or Safety Injection." The applicant will be directed to monitor and evaluate all CSFSTs, identify the highest priority critical safety function, and determine any required procedure transition using 19200-C, "Critical Safety Function Status Trees." With the IPC not available, the applicant will be given data for multiple parameters to be used in the evaluation.
		Same as RO Admin JPM a.
		G2.1.7 SRO 4.7
Conduct of Operations	R, D	b. V-NRC-JP-14005-HL20: Determine k _{eff} for All Shutdown Rod Banks Withdrawn in Preparation for Reactor Startup
		Description: Unit 2 is performing a reactor startup following a trip from steady state, 100% reactor power. Prior to commencing shutdown rod bank withdrawal, the applicant will be required to calculate k _{eff} for the given conditions using 14005-2, "Shutdown Margin and K _{eff} Calculations," and determine if k _{eff} will remain less than 0.99 with all shutdown rod banks withdrawn.
		Same as RO Admin JPM b.
		G2.1.43 SRO 4.3
Equipment Control	R, M	c. V-NRC-JP-14915-HL20: Perform and Evaluate Axial Flux Difference (AFD) Surveillance for Inoperable DELTA FLUX DEVIATION Alarm
		Description: The Unit 1 DELTA FLUX DEVIATION (AFD) alarm was inoperable when a 30% turbine load rejection occurred from full power. With data provided (pictures of control board meters), the applicant will be required to complete 14915-1, "Special Conditions Surveillance Logs," Data Sheet 6, to determine AFD and then evaluate the data. The surveillance will be unsatisfactory, so the AFD Tech Spec LCO Required Action Statement will be entered.
		G2.2.12 SRO 4.1

		1 01111 E0-301-1
Radiation Control	R, M	d. V-NRC-JP-91301-HL20: Assess Radiological Conditions in an Emergency and Approve Emergency Exposure Permits
		Description: During a General Emergency, three operators are to be dispatched to operate vital equipment. The applicant will be given the equipment location, a room map with the radiological conditions, and three completed Emergency Exposure Permits for the operators. The applicant will be directed to determine the appropriate Emergency Exposure Limit for the task, calculate the projected dose to the operators, and review and approve the Emergency Exposure Permits. One of the Emergency Exposure Permits will be completed incorrectly and should not be approved. G2.3.4 SRO 3.7
Emergency Plan	R, M	e. V-NRC-JP-NMP-EP-110-HL20: Classify an Emergency Event and Complete the Emergency Notification Form
		Description: Using the conditions given for a plant event, the applicant will be directed to determine the highest emergency classification level for the event using NMP-EP-110, "Emergency Classification Determination and Initial Action." WebEOC will not be available, which will require the applicant to manually complete NMP-EP-111-F10, "SNC Emergency Notifications Form (ENF)."
		G2.4.41 SRO 4.6
NOTE: All items (five total) are are retaking only the ad	required for ministrative	SROs. RO applicants require only four items unless they topics (which would require all five items).
* Type Codes & Criteria:	(D)irect from (N)ew or (N)	oom, (S)imulator, or Class(R)oom m bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) //iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii

Facility: Vogtle 1 & 2 Date of Examination: _08/31/2015 Exam Level: RO SRO-I SRO-U SRO-U Operating Test Number: 2015-301 Control Room Systems:* 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U System / JPM Title Type Code* Safety Function a. V-NRC-JP-13009-HL20: Initiate Emergency Boration to Clear A. M. S 1 **ROD BANK LO-LO LIMIT Alarm Description:** Unit 1 completed a rapid power reduction that resulted in a valid ROD BANK LO-LO LIMIT alarm. The applicant will be directed to initiate emergency boration using 13009-1, "CVCS Reactor Makeup Control System," to clear the alarm. One Boric Acid Transfer Pump (BATP) is tagged out, and the available BATP will not start when its handswitch is taken to START. This will require the applicant to initiate the emergency boration from the RWST through the normal charging flow path instead of using the BAST. (RO / SRO-I / SRO-U) 024AA1.20 RO 3.2* SRO 3.3 b. V-NRC-JP-19013-HL20: Align the Containment Spray System D, EN, L, S 3 to the Recirculation Mode **Description:** Unit 1 reactor trip and SI occurred due to a large break LOCA. Following alignment of ECCS pumps to the cold leg recirculation mode, the crew has returned to 19010-C, "Loss of Reactor or Secondary Coolant." RWST level lowers to 8%, so the applicant will be directed to align the Containment Spray System to the recirculation mode using 19013-C, "Transfer to Cold Leg Recirculation." (RO / SRO-I / SRO-U) 011EA1.12 RO 4.1 SRO 4.4 c. V-NRC-JP-13830-HL20: Establish Main Generator Field M, S 6 **Excitation Using Automatic Voltage Regulation** Description: Unit 1 is starting up following a refueling outage. The main turbine is at 1800 rpm and the main generator and its excitation system have been prepared for startup. The applicant will be directed to use 13830-1, "Main Generator Operation," to establish main generator field excitation using automatic voltage regulation. (RO / SRO-I / SRO-U) 062A4.01 RO 3.3 SRO 3.1

d.	V-NRC-JP-13006-HL20: Raise Normal Letdown Flow Rate from 75 gpm to 120 gpm	N, S	2
	Description: Unit 1 is at 100% reactor power. Normal letdown has been returned to service at 75 gpm following a system outage. With charging and letdown conditions stable, the applicant will be directed to raise letdown flow rate from 75 gpm to 120 gpm using 13006-1, "Chemical and Volume Control System."		
	(RO / SRO-I)		
	004A4.05 RO 3.6 SRO 3.1		
e.	V-NRC-JP-19231-HL20: Establish RCS Bleed and Feed Following a Loss of Secondary Heat Sink	A, D, L, S	4P
	Description: Unit 1 reactor was manually tripped following a low suction pressure trip of both MFPs. No AFW was available, so the crew entered 19231-C, "Response to Loss of Secondary Heat Sink." The applicant will be directed to establish bleed and feed for RCS heat removal. When establishing the bleed path, one pressurizer PORV will not open, so the reactor vessel head vent valves must be opened to provide an additional bleed path.		
	(RO / SRO-I)		
	WE05EA1.1 RO 4.1 SRO 4.0		
f.	V-NRC-JP-19020-HL20: Identify and Isolate a Faulted Steam Generator	A, D, L, S	48
	Description: Unit 1 reactor trip and SI occurred due to a SG secondary fault. The applicant will be directed to identify and isolate the faulted SG using 19020-C, "Faulted Steam Generator Isolation." After isolating the main steam lines, all SGs will continue to depressurize, which will require a transition to 19121-C, "Uncontrolled Depressurization of All Steam Generators," to minimize the uncontrolled cool down.		
	(RO / SRO-I)		
	WE12EA2.1 RO 3.2 SRO 4.0		

g.	V-NRC-JP-19251-HL20: Respond to High Containment Pressure	M, EN, L, S	5
	Description: Unit 1 reactor trip and SI occurred due to a large break LOCA. An orange path develops on the CSFSTs due to containment high pressure, so the applicant will be directed to perform the actions of 19251-C, "Response to High Containment Pressure." During procedure performance, the applicant will be required to manually actuate Containment Isolation Phase A, manually start Containment Spray pumps, and open Train 'A" Containment Cooler isolation valves, which will not operate automatically as expected. (RO / SRO-I) WE14EA1.1 RO 3.7 SRO 3.7		
h.	V-NRC-JP-13301-HL20: Manually Actuate Control Room Isolation Due to Smoke in the Outside Air Intake	D, S	8 RO ONLY
	Description: Unit 1 is at 100% power when a large brush fire causes smoke to enter the control room through the outside air intakes. The applicant will be directed to manually actuate Control Room Isolation and close the outside air supply dampers using 13301-C, "CBCR Normal HVAC and Emergency Filtration System," to limit smoke intake.		NOUNLT
	(RO)		
	067AA1.05 RO 3.0 SRO 3.1		

In-Plant Systems:* 3 for RO; 3 for SRO-I; 3 or 2 for SRO-U		
i. V-NRC-JP-18007-HL20: Locally Control Charging Flow	D, E, R	2
Description: On Unit 2, the charging flow controller, 2FIC-121, has malfunctioned and charging flow cannot be adjusted from the main control room. The applicant will be directed to establish local control of charging using 2FHC-121 and establish 75 gpm charging flow using 18007-C, "Chemical and Volume Control System Malfunction," Attachment 'C'.		
(RO / SRO-I / SRO-U)		
022AA1.01 RO 3.4 SRO 3.3		

j.	V-NRC-JP-18038-HL20: Establish Local Control of Train 'A' and Train 'B' 4160 VAC Switchgears Following a Control Room Evacuation	A, D, E, L	8
	Description: The Unit 2 control room has been evacuated and local control has been established at Shutdown Panel 'A' and Shutdown Panel 'B'. The applicant will be required to establish local control of the Train 'A' and Train 'B' 4160 VAC switchgears and check ACCW pump status. The ACCW pumps will not be operating, so stopping the RCPs and isolating letdown will be required.		
	(RO / SRO-I / SRO-U)		
	068AA1.21 RO 3.9 SRO 4.1		
k.	V-NRC-JP-13610-HL20: Locally Operate the TDAFW Pump in Manual Following a Loss of Remote Control	D, L	48
	Description: Following a Unit 1 trip, the TDAFW pump was supplying AFW to all SGs when it failed to respond to the Unit Operator's AFW flow adjustment. The TDAFW pump was tripped and, subsequently, reset. The applicant will be required to establish local manual control of the TDAFW pump and raise its speed using 13610-1, "Auxiliary Feedwater System."		
	(RO / SRO-I)		
	061A2.05 RO 3.1* SRO 3.4*		

* All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all five 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 / ≥ 1 / ≥1 (control room system)
(L)ow-Power / Shutdown	≥1/≥1/≥1
(N)ew or (M)odified from bank including 1(A)	≥2/≥2/≥1
(P)revious 2 exams	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)
(R)CA	≥1/≥1/≥1
(S)imulator	

Facility: VOGTI	E						Date	e of I	Exan	า:	AUC	aus	T 2015					
					F	во к	/A C	ateg	ory F	Point	s				SR	O-On	ly Poin	ts
Tier	Group	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.	1	3	3	3				3	3			3	18	3			3	6
Emergency & Abnormal	2	1	1	2		N/A		2	2	N.	/A	1	9	2			2	4
Plant Evolutions	Tier Totals	4	4	5				5	5			4	27	5			5	10
	1	3	2	2	2	3	3	3	3	2	3	2	28	3			2	5
2. Plant	2	1	1	1	1	1	1	1	0	1	1	1	10	0	L		2	3
Systems	Tier Totals	4	3	3	3	4	4	4	3	3	4	3	38	4			4	8
	(nowledge and	Abil	ities		-	1	2	2		3	4	1	10	1 2	2	3	4	7
	Categories				3	3		2	2	2	3	3		2		2	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 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/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 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. 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' 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	EV 9		116	T1G1 PWR EXAMINATION OUTLINE	빌	FORM ES-401-2
KA KA	NAME / SAFETY FUNCTION:	=	뜨	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4	A4 G	TOPIC:
		RO	SRO			
007EK1.05	Reactor Trip - Stabilization - Recovery / 1	3.3	3.8			Decay power as a function of time
008AA1.03	Pressurizer Vapor Space Accident / 3	2.8	2.6			Turbine bypass in manual control to maintain header pressure
009EA1.06	Small Break LOCA / 3	ო	3.3			Plant computer
011EK3.01	Large Break LOCA / 3	4.	3.5			Verifying main steam isolation valve position
015AA2.11	RCP Malfunctions / 4	3.4	8.8			When to jog RCPs during ICC
022AK1.03	Loss of Rx Coolant Makeup / 2	ო	မ် 4.			Relationship between charging flow and PZR level
025AK2.02	Loss of RHR System / 4	83. 23.	3.2			LPI or Decay Heat Removal/RHR pumps
026AG2.4.46	Loss of Component Cooling Water / 8	4. 2.	2.		>	Ability to verify that the alarms are consistent with the plant conditions.
029EA2.05	ATWS / 1	3.4	3.4			System component valve position indications
038EK1.02	Steam Gen. Tube Rupture / 3	3.2	3.5			Leak rate vs. pressure drop
054AK3.04	Loss of Main Feedwater / 4	4.4	9.			Actions contained in EOPs for loss of MFW AMDのA ED がん



ES-401, REV 9	6 /	F	T1G1 PWR EXAMINATION OUTLINE	FORM ES-401-2
KA	NAME / SAFETY FUNCTION:	뜨	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRO	0	
056AA2.20	Loss of Off-site Power / 6	3.9 4.1		AFW flow indicator
057AG2.4.35	Loss of Vital AC Inst. Bus / 6	3.8 4.0		Knowledge of local auxiliary operator tasks during emergency and the resultant operational effects
062AK3.01	Loss of Nuclear Svc Water / 4	3.2 3.5		The conditions that will initiate the automatic opening and closing of the SWS isolation valves to the nuclear service water coolers
065AA1.04	Loss of Instrument Air / 8	3.5 3.4		Emergency air compressor
WE04EK2.1	LOCA Outside Containment / 3	3.5		Components and functions of control and safety systems, including instrumentation, signals, interlocks, failure modes and automatic and manual features.
WE05EK2.2	Inadequate Heat Transfer - Loss of Secondary Heat Sink / 4	3.9 4.2		Facility's heat removal systems, including primary coolant, emergency coolant, the decay heat removal systems and relations between the proper operation of these systems to the operation of the facility.
we12EG2.4.2	Steam Line Rupture - Excessive Heat Transfer / 4	3.8 4.3		Knowledge of operational implications of EOP warnings, cautions and notes.



ES-401, REV 9	6 / 3	T	1G2 PWR EXAMINATION OUTLINE	FORM ES-401-2
₹	NAME / SAFETY FUNCTION:	뜨	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	a TOPIC:
7.5		RO SR	SRO	
024AA1.23	Emergency Boration / 1	3.3 3.3		CVCS centrifugal charging pump switches and indicators
036AK3.03	Fuel Handling Accident / 8	3.7 4.1		Guidance contained in EOP for fuel handling incident
059AG2.1.23	Accidental Liquid RadWaste Rel. / 9	4.3 4.4	4·	Ability to perform specific system and integrated plant procedures during all modes of plant operation.
074EA1.17	Inad. Core Cooling / 4	4 4.1		S/G pressure and level indicators
WE01EK2.1	Rediagnosis / 3	3.3 3.5		Components and functions of control and safety systems, including instrumentation, signals, interlocks, failure modes and automatic and manual features.
WE03EA2.2	LOCA Cooldown - Depress. / 4	3.5 4.1		Adherence to appropriate procedures and operation within the limitations in the facility's license and amendments.
WE13EK3.4	Steam Generator Over-pressure / 4	3.1	.3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	RO or SRO function within the control room team as appropriate to the assigned position, in such a way that HAVO 170 procedures are adhered to and the limitations in the facilities license and amendments are not violated.



Normal, abnormal and emergency operating procedures associated with (High Containment Pressure).

>

3.7

3.2

Loss of CTMT Integrity / 5

WE14EK1.2

Adherence to appropriate procedures and operation within the limitations in the facility's license and amendments.

3.0 3.3

High Containment Radiation / 9

WE16EA2.2

ES-401, REV 9	EV 9	F	2G1 PWR EXA	T2G1 PWR EXAMINATION OUTLINE	FORM ES-401-2
\$	NAME / SAFETY FUNCTION:	뜨	K1 K2 K3 K	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		ROS	SRO		
003K5.02	Reactor Coolant Pump	2.8	3.2		Effects of RCP coastdown on RCS parameters
003K6.04	Reactor Coolant Pump	2.8 3.	3.1		Containment isolation valves affecting RCP operation ?
004K2.06	Chemical and Volume Control	2.6 2.	2.7		Control instrumentation
004K5.30	Chemical and Volume Control	8.8	4.2		Relationship between temperature and pressure in CVCS components during solid plant operation
005K2.01	Residual Heat Removal	3.0	3.2		RHR pumps
006A3.03	Emergency Core Cooling	4.1 4.	4.1		ESFAS-operated valves
007A3.01	Pressurizer Relief/Quench Tank	2.7 2.	2.9	□ > □	Components which discharge to the PRT
008G2.4.4	Component Cooling Water	4.5	4.7		Ability to recognize abnormal indications for system operating parameters which are entry-level conditions for emergency and abnormal operating procedures.
008K1.01	Component Cooling Water	3.1			SWS
)10K4.02	Pressurizer Pressure Control	3.0	3.4		Prevention of uncovering PZR heaters
112A1.01	Reactor Protection	2.9 3.	3.4	>	Trip setpoint adjustment



ES-401, REV 9	EV 9	T2G1 PWI	T2G1 PWR EXAMINATION OUTLINE	FORM ES-401-2
ΑŽ	NAME / SAFETY FUNCTION:	IR K1 K	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRO		
012K6.03	Reactor Protection	3.1 3.5		Trip logic circuits
013A1.04	Engineered Safety Features Actuation	3.4 3.6		S/G level
013A4.02	Engineered Safety Features Actuation	4.3 4.4		Reset of ESFAS channels
022A1.04	Containment Cooling	3.2 3.3		Cooling water flow
026A4.05	Containment Spray	3.5 3.5		Containment spray reset switches
039A2.04	Main and Reheat Steam	3.4 3.7		Malfunctioning steam dump
039K5.08	Main and Reheat Steam	3.6 3.6		Effect of steam removal on reactivity
059G2.4.11	Main Feedwater	4.0 4.2		Knowledge of abnormal condition procedures.
061K6.01	Auxiliary/Emergency Feedwater	2.5 2.8		Controllers and positioners
062K1.04	AC Electrical Distribution	3.7 4.2		Off-site power sources
063K1.03	DC Electrical Distribution	2.9 3.5		Battery charger and battery

ES-401, REV 9	7EV 9	_	r2G1	T2G1 PWR EXAMINATION OUTLINE	FORM ES-401-2
₹ ¥	NAME / SAFETY FUNCTION:	뜨		K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		ROS	SRO		
064A4 01	Emergency Diesel Generator	4.0	4.3		Local and remote operation of the ED/G
073A2.02	Process Radiation Monitoring	2.7 3	3.2		Detector failure
076K3.01	Service Water	3.4 3	3.6		Closed cooling water
078K4.03	Instrument Air	3.1	3.3		Securing of SAS upon loss of cooling water
103A2.05	Containment	2.9	3.9		Emergency containment entry
103K3.03	Containment	3.7 4	1.4		Loss of containment integrity under refueling operations.

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ES-401, REV 9	EV 9	12	T2G2 PWR EXAMINATION OUTLINE	FORM ES-401-2
₹ ¥	NAME / SAFETY FUNCTION:	<u>Œ</u>	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G TOPIC:	
		RO SRO	0	
002K6.03	Reactor Coolant	3.1 3.6		Reactor vessel level indication
011K2.02	Pressurizer Level Control	3.1 3.2	PZR heaters	
015K5.09	Nuclear Instrumentation	2.5 2.9	in-core detector operation	tor operation
016A4.01	Non-nuclear Instrumentation	2.9 2.8		NNI channel select controls
033A3.01	Spent Fuel Pool Cooling	2.5 2.7		Temperature control valves
√ 034K1.04	Fuel Handling Equipment	2.6 3.5	SIN INS	
035K3.01	Steam Generator	4.4 4.6	RCS	
071A1.06	Waste Gas Disposal	2.5	Ventilation system	stem
079K4.01	Station Air	2.9 3.2	Cross-connect with IAS	at with IAS
086G2.2.22	Fire Protection	4.0 4.7		Knowledge of limiting conditions for operations and safety limits.

	┺	T3 PWR EXAMINATION OUTLINE	FORM ES-401-2
FUNCTION:	Œ	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G TOPIC:	

ES-401, REV 9	REV 9	_	T3 PWR EXAMINATION OUTLINE	FORM ES-401-2
KA A	NAME / SAFETY FUNCTION:	뜨	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRO	010	
G2.1.15	Conduct of operations	2.7 3.4		Knowledge of administrative requirements for temporary management directives such as standing orders, night orders, Operations memos, etc.
G2.1.17	Conduct of operations	3.9 4.0		Ability to make accurate, clear and concise verbal reports.
G2.1.27	Conduct of operations	3.9		Knowledge of system purpose and or function.
G2.2.42	Equipment Control	3.9 4.6		Ability to recognize system parameters that are entry- level conditions for Technical Specifications
G2.2.44	Equipment Control	4.2 4.4		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
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
G2.4.1	Emergency Procedures/Plans	4.6 4.8		Knowledge of EOP entry conditions and immediate action steps.
G2.4.14	Emergency Procedures/Plans	3.8 4.5		Knowledge of general guidelines for EOP usage.
G2.4.32	Emergency Procedures/Plans	3.6 4.0		Knowledge of operator response to loss of all annunciators.

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ES-401, REV 9	6 / 3	SRC) II	SRO T1G1 PWR EXAMINATION OUTLINE	FORM ES-401-2
\$	NAME / SAFETY FUNCTION:	뜨		K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO S	SRO		
007EA2.06	Reactor Trip - Stabilization - Recovery / 1	4.3 4	4.5		Occurrence of a reactor trip
009EA2.38	Small Break LOCA / 3	3.9	6.4		Existence of head bubble
027AA2.10	Pressurizer Pressure Control System Malfunction / 3	3.3	3.6		PZR heater energized/de-energized condition
040AG2.2.40	Steam Line Rupture - Excessive Heat Transfer / 4	3.4	4.7		Ability to apply technical specifications for a system.
057AG2.4.30	057AG2.4.30 Loss of Vital AC Inst. Bus / 6	2.7 4	1.4		Knowledge of events related to system operations/status that must be reported to internal orginizations or outside agencies.
062AG2.1.25	Loss of Nuclear Svc Water / 4	3.9	4.2		Ability to interpret reference materials such as graphs, monographs and tables which contain performance data.

ES-401, REV 9	6 A:	SRO T	SRO T1G2 PWR EXAMINATION OUTLINE	FORM ES-401-2
\$	NAME / SAFETY FUNCTION:	Œ	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRO		
003AG2.2.25	003AG2.2.25 Dropped Control Rod / 1	3.2 4.2		Knowledge of the bases in Technical Specifications for limiting conditions for operations and safety limits.
037AG2.1.20	037AG2.1.20 Steam Generator Tube Leak / 3	4.6 4.6		Ability to execute procedure steps.
067AA2.06	Plant Fire On-site / 8	3.3 3.6		Need for pressurizing control room (recirculation mode)
WE06EA2.1	Degraded Core Cooling / 4	3.4 4.2		Facility conditions and selection of appropriate procedures during abnormal and emergency operations.

ES-401, REV 9	EV 9	SRC	SRO T2G1 PWR EXAMINATION OUTLINE	FORM ES-401-2
ξ	NAME / SAFETY FUNCTION:	프	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO S	SRO	
004G2.1.23	Chemical and Volume Control	4.3	4.4	Ability to perform specific system and integrated plant procedures during all modes of plant operation.
006G2.1.7	Emergency Core Cooling	4.4	7.4	Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior and instrument interpretation.
013A2.03	Engineered Safety Features Actuation	4.4	4.7	Rapid depressurization
059A2.03	Main Feedwater	2.7 3.1		Overfeeding event
064A2.21	Emergency Diesel Generator	2.6 2.	2.9	Significance and interpretation of opening of ring bus during test

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ES-401, REV 9	6 A:	SRO T2G2 PWR EXAMINATION OUTLINE	FORM ES-401-2
ξ	NAME / SAFETY FUNCTION:	IR K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRO	
002G2.2.37	Reactor Coolant	3.6 4.6	Ability to determine operability and/or availability of safety related equipment
011A2.02	Pressurizer Level Control	3.2 3.2	Excessive charging
068G2.4.41	Liquid Radwaste	2.9 4.6	Knowledge of the emergency action level thresholds and classifications.

ES-401, REV 9	9EV 9	SRO	SRO T3 PWR EXAMINATION OUTLINE	FORM ES-401-2
\$	NAME / SAFETY FUNCTION:	뜨	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRO		
G2.1.13	Conduct of operations	2.5 3.2		Knowledge of facility requirements for controlling vital / controlled access.
G2.1.35	Conduct of operations	2.2 3.9		Knowledge of the fuel handling responsibilities of SRO's
G2.2.2	Equipment Control	4.6 4.1		Ability to manipulate the console controls as required to operate the facility between shutdown and designated power levels.
G2.3.14	Radiation Control	3.4 3.8		Knowledge of radiation or contamination hazards that may arise during normal, abnormal, or emergency conditions or activities
G2.3.6	Radiation Control	2.0 3.8		Ability to aprove release permits
G2.4.23	Emergency Procedures/Plans	3.4 4.4		Knowledge of the bases for prioritizing emergency procedure implementation during emergency operations.
G2.4.26	Emergency Procedures/Plans	3.1 3.6		Knowledge of facility protection requirements including fire brigade and portable fire fighting equipment usage.

K/A listed in column 2 is the rejected K/A

Tier / Group	Randomly Selected K/A	Reason for Rejection
T2G2 RO	033A3.01	Vogtle's Spent Fuel Pool Cooling System does not have any automatically controlled temperature control valves. All temperature control is done with manual valve alignments.
		NRC Chief Examiner randomly selected 033A3.02 as the replacement K/A.
T3 (generic) RO	G2.4.32	Vogtle does not have an AOP or EOP for responding to a loss of all annunciators. The only knowledge item associated with a loss of all annunciators is related to emergency classifications, which is SRO-only.
		NRC Chief Examiner randomly selected G2.4.37 as the replacement K/A.

Written Examination Quality Checklist

Form ES-401-6

	Facility: Vogtle 1 & 2	Date of E	Exam: 08/31/20	15		Exam Level:	RO 🗹	SRO	7
		Item Description						Initial	
							a	b*	c*#
1.	Questions and answers are tech	nically accurate and	applicable to the	e facility	y.		Ju	945	100
2.	a. NRC K/As are referen						du	Taxo	100
_	b. Facility learning object						1	~()	114
3.	SRO questions are appropriate in						gu	CHAS	pop
4	The sampling process was rando repeated from the last two NRC	•			-		Ju	94	Nos
5.	Question duplication from the lice (check the item that applies) and	_		ntrolled	as indic	ated below			
	The audit exam was systema	tically and randomly	developed; or						
	the audit exam was complete			ed; or			Our	our	(تعما
	the examinations were develor _x the licensee certifies that the						gu		1
	other (explain)	o to tro dapitodation,	. .						
6.	Bank use meets limits (no more from the bank, at least 10 percer	•	Bank	Mod	dified	New			
	rest new or modified); enter the a	actual RO / SRO-	32 (43%) / 10 (40%)		32%) / 16%)	19 (25%) / 11 (44%)	gu	ORSY	plap
7.	Between 50 and 60 percent of the the RO exam are written at the control of the co		Memory			C/A			
	analysis level; the SRO exam ma	ay exceed 60							
	percent if the randomly selected higher cognitive levels; enter the question distribution(s) at right.		35 (47%) / 9 (36%)	40 (53	%) / 16 (64%)	Ju	cun	100
8.	References/handouts provided d	o not give away ans	wers or aid in th	e elimir	nation of	distractors.	Su	MAG	INS
9.	Question content conforms to sp outline and is appropriate for the		•				Do	Paro	146
10.	Question psychometric quality a						Dev	CAR	INL
11.	The exam contains the required	number of one-poin				I is correct	gov	SANS.	INL
	and agrees with the value on the						1000	-	دما
		Prir	ited Name / Sign	ature	,			Date	
a.	Author Jos	eph C. Cra	ine, in	/_	L. l	rome	1111	7-23-1	5
b.	Facility Reviewer (*)	n Jenkin	s /	(C)L	NA		0	7/24/19	5
C.	NRC Chief Examiner (#)	My S. BALOW	and / Reg	4	Dul			8/12/2	25
d.	NRC Regional Supervisor	ere Cruth	rie / E	Z	Shil	l/W		8/20/15	•
Note	e: * The facility reviewer's initia # Independent NRC reviewe	-							

					Question distribution:		0# 1. 2.	8. At a minim	7. Based o		5. Check of	4. Checkt		3. Check t	2. Enter th	1. Enter th	Instructions [Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]	(F/H)(1-5)	1.	ES-401
					on:	5	2 2	At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met)	n the reviev	Enter question source:	uestions th	Check the appropriate box if a job content error is identified: The question is not linked to the job requirem. The question requires the recall of knowledge The question contains data with an unrealistic The question requires reverse logic or applicat	The The The One	Check the appropriate box if a psychometric flaw is identified:	Enter the level of difficulty (LOD) of each question using a $1-5$ (easy – difficult) rating scale (questions in the $2-4$ range are acceptable).	Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level	01 and App	-5) Stem Focus	2 5	
	z	<u> </u>	8				3. Ps	any "U" ra	ver's judgn	ce: (B)ank	at are sam	ate box if a question is question re question or question re	stem lacks stem or dis stem or cho answer cho distractors or more di	ate box if a	fficulty (LO	nowledge (endix B for	n Cues	3. Ps	
Nun	New	Modified	Bank				ychome	tings (e.g.,	nent, is the	, (M)odifie	pled for cor	job conter not linked quires the ontains dat quires rev	sufficient f tractors co pices are a l are not cre atractors is	psychome	D) of each	LOK) of eac	additional	s T/F	ychome	
Numbered comments by R. Baldwin		23 (16 r NRC e. wi	34 (9 pi which a		_		3. Psychometric Flaws	how the Ap	question a	d, or (N)ew	nformance	nt error is ic to the job I recall of kn a with an u erse logic o	ocus to elic ntain cues collection o edible; singl	tric flaw is	question u	ch question	Informatio	Cred. Dist.	3. Psychometric Flaws	
omment	18	23 (16 modified from previous NRC exams, 11 of which are within last 2 exams)	34 (9 previous NRC exam, 4 of which are within last 2 exams)	RO	Key/Summary		Š	pendix B p	s written (L	. Check tha	with the ap	dentified: requiremen rowledge th nrealistic le	it the corre (i.e., clues, of unrelated le implausik le improcrect	identified:	sing a 1 – 5	as either (I	ın regarding	. Partial	S	
ts by R. E		from prev of which a exams)	RC exam, last 2 exa		nary			sychometr	J)nsatisfact	at (M)odifie	proved K/A	nts (i.e., the nat is too sp evel of accu	ct answer (specific de l true/false ble distracto (e.g., if the		(easy – dif	F)undamen	geach of th	Link		
8aldwin					ė		4. Job Content Flaws	c attributes	ory (requiri	(B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.	and those	opriate box if a job content error is identified: The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content). The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be k The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be k The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in The question requires reverse logic or application compared to the job requirements.	The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information). The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc). The stem conflicts are a collection of unrelated true/false statements. The stem conflicts are a collection of unrelated true/false statements. The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable. The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable. One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).		ficult) rating	tal or (H)igh	e following	Minutia	4. Job Content Flaws	Vogtle 2015-301 – Written Examination Review Worksheet
		(3 of whi	1 (4 previ				ntent Fla	are not be	ng repair o	s meet crite	that are de	as a valid K ne closed re insistent ur requireme	r intent, m ohrasing, le s. se repaired, an make u		scale (que	ner cognitiv	concepts.]	a #/ units	ntent Fiz)15-301
	10	4 (3 of which are within last 2 exams)	11 (4 previous NRC exam, 1 of which are within last 2 exams)	SRO			SWI	ing met).	r replacem	ria of ES-4	signated SI	/A but, as v ference tea its (e.g., pa ints.	ore informangth, etc). more than stated ass		stions in th	e level.		Back- ward	SWI	- Writte
		hin last 2	exam, 1 o t 2 exams				5. Other		ent), in nee	01 Section I	RO-only (K/	vritten, is n st mode (i.e inel meter i	ation is nee one is una umptions t		e 2 – 4 ran			₹ ₽	5. Other	n Exami
		exams)	f which			B	her		d of (E)dite	D.2.f.	A and licen	ot operation, it is not r	ded, or too cceptable. hat are not		ge are acce			SRO B	her	nation F
_						B/M/N U/E/	6.		orial enhan		se level mi	onal in cont equired to with questi	much nee		ptable).			B/M/N U/E,	6	leview V
(pre) II	7	U/E n		m	S	J/E/S	7.		cement, o		smatches	tent). be known fror ion in gallons).	edless info					J/E/S	7.	Vorkshe
Indicates presubmitted question comments	7 SRO, 8 RO (initial submittal)	Indicates UNSAT/ENHANCEMENT (likely due to two non-plausible distractors that are the same, as in a 2x2, i.e., the same distractor counted 2x as non-plausible)	Indicates UNSAT: 7 SRO, 5 RO (initial submittal)	Indicates Enhancement: 8 SRO, 4 RO (initial submittal)	Indicates SAT: 3 SRO, 58 RO (initial submittal) ** SRO, ** RO SAT in final submittal	Explanation	òo		Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?		Check questions that are sampled for conformance with the approved K/A and those that are designated SRO-only (K/A and license level mismatches are unacceptable).	ropriate box if a job content error is identified: The question is not inked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content). The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory). The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons). The question requires reverse logic or application compared to the job requirements.	mation).					Explanation	òo	et Form ES-401-9

Un-numbered comments by A. Goldau

Appears to be ok.	Í															
06/23/2015 Licensee states, no the power supplies should not be named with the noun name. added to the power supply the word ONE.																
Should a noun name for the power supplies be provided?																
Question appears to be SAT. AG 5/13/15																004K2.06
Question appears to match the KA.	S	В								×				ω	I	4
Question appears to be SAT. AG 5/13/15	3														Ť	003K6.04
Question appears to match the KA.	S	D												2	П	ω
Replacement is OK.																
ROs are required to know the Bases for TSs. Bases is NOT capitalized. S																
 Could not make the question work as is so replaced. 	S															
06/23/2015																
How can loop delta T not changing be plausible? AG 4/13/15		HL18														003K5.02
Question appears to match the KA.	m	3								×				2	I	2
Question appears to be SAT. AG 5/13/15															\vdash	
Added the number sign before RCPs.	γI															002K6.03
Question appears to match the KA.	S	œ												2	п	ъ
 Be consistent through the exam with caps or bold for parameter directions i.e. detector failed HIGH. 																
 Be consistent with the which one of the following completes the following statement or statements. 																
marks, etc. The same for procedure titles.																
2. Ensure annunciator noun names are consistently written																San
Ensure there is an appropriate spread of questions between	т														-0	Generic to
Explanation	B/M/N U/E/S	B/M/N	SRO Only	⊼ Ω	Back- ward	#/ units	Minutia	Job- Link	Partial	Cred. Dist.	T/F	Cues	Stem Focus	(F/H)(1-5)	(F/H	
90		9	o, ouner	9.0	W.S		4. Job Collell Flaws			CAMPLL	5. Fayeronicule Flaws	J. F. Syc		10 XO	<u></u>	Q
٥	7	n	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	л	2/4/2	tont Els	loh Cont	4		Flaure	hometri	a Pevr		<u></u>	_	

ON ION ION ION ION ION ION ION ION ION I	Appears to be ok	Ī													
1															
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	06/23/2015	^		_											
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	6. Does "white" need to be emphasized or capitalized?7. Should the word "valves" be placed in the first part question title of 1HS8508A and B?														
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	The valves will respond automatically to changes in RCS WR pressure as it directly affects CCP discharge pressure. AG 5/13/15													8	006A3.0
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other (F/H)(1-5) Stem Cues T/F Cred. Partial Job- Minutia #/ Back- Q= SRO B/M/N U/E/S	Question appears to match the KA.	U/E	В						×	×			2	п	7
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	Appears to be ok.													_	
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	06/23/2015														
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	Should a noun name be provided for 1BA03?														
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	Question appears to be SAT. AG 5/13/15		HL18	_										21	005K2.0
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7. LOK LOD (F/H)(1-5) Stem Cues T/F Cred. Partial Job- Minutia #/ Back. Q= SRO B/M/N U/E/S **Record Focus Focus T/F Cred. Partial Job- Minutia #/ Units ward K/A Only B E Question a be added to b	Question appears to match the KA.	S	B										2	Ŧ	6
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.															
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other [6, 4] [10] [7] [7] [8] [8] [8] [8] [8] [8] [8] [8] [8] [8															
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other [6, 7] Content Content	06/23/2015	S													
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	AG 5/13/15														
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7. LOK LOD (F/H) (1-5) Stem (F/H) (1-5) Cues Focus T/F Cred. Dist. Partial Job- Link Minutia wirts #/ Back- Q= SRO W/A Only B/M/N Only B/M/N Only F 2 X X X E B E	5.What is the convention on capitalization of the word manual?														
1. 2. OK LOD LOK (F/H) (1-5) Stem (F/H) (1-5) Cues Focus T/F Cred. Dist. Partial Job- Link Minutia ward with wind units ward with ward	Basing plausibility of distractors on applicant not considering information that is directly given in the stem of the question seems to make them not plausible.														
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7. Content Flaws Focus Foc	No time frame is given. Could TV-130 eventually be unable to account for rising temperature and cause letdown to isolate? A time frame needs to be added to the stem.													8	004K5.3
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7. (F/H)(1-5) Stem Focus Flows Dist. Partial Job- Link Winutia #/ Back- Q= SRO B/M/N U/E/S	Question appears to match the KA.	Е	В						×				2	771	٠,
1. 2. 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6. 7.	Explanation	U/E/S						Job- Link	Partial	Cred. Dist.	T/F	Cues	1)(1-5	(F)	į
	000	7.	_	Other	5	nt Flaws	Job Conte	4.		c Flaws	chometr		2.	5 !	<u></u>

1. Changed from controller setpoint to controller demand set point. 2. No automatic not capitalized. 3. Meets the KA with this twist on the question. Appears to be ok. B S Question appears to match the KA. Question appears to be SAT. AG 5/19/15 M S Question appears to be SAT. AG 5/19/15 Ouestion appears to be SAT. AG 5/19/15 Of 23/2015 1. In the question the "A," One CCW Train 'A.' OK as changed. B Question appears to match the KA. Question appears to be SAT. AG 5/19/15 OK as changed.										ω	п	12 008K1.01
1. 2. 3. Appears to Question a Question a Question a Question a O6/23/201 1. OK as chan										ω	-m	12
1. 2. 3. Appears to S Question a Question a Question a Question a O6/23/201 1. OK as chan											T	
1. 2. 3. Appears to S Question a Question a Question a Question a Question a												
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1. 2. 3. Appears to Question a Question a								-				008G2.4.4
1. 2. 3. Appears to S. Question a										ω	Ξ	11
1. 2. 3. Appears to								_			<u></u>	008AA1.03
 Changed from controller setpoint to controller demand set point. No automatic not capitalized. Meets the KA with this twist on the question. Appears to be ok.										2	т	10
						_	_					
S 06/23/2015						_						
							_					
This question does not meet the KA. The question essentially asks how does a controller (any controller) work when in automatic.												
1. Should the word automatic be capitalized or bold?												
the controller to continue to keep Tayg stable. AG 5/13/15												
Three implausible distractors. Stem of question states that RCS Tavg is												007EK1.05
B Question appears to match the KA.	×					×	U			2	П	9
HL18 Question appears to be SAT. AG 5/13/15					_							007A3.01
B Question appears to match the KA.										2	П	00
			1	-	1	-	<u> </u>		-			
B/M/N U/E/S Explanation	Q= SRO	Back-	Minutia #/	Job- Min	Partial Jo	Cred. Pa	T/F Cr	Cues	Stem	(F/H)(1-5)	(F) [Ę
6. 7. 8.	5. Other	laws	4. Job Content Flaws	4. Job		swe	3. Psychometric Flaws	. Psycho		2.	-1)

		15 011EK3.01		010K4.02	14	009EA1.06	13	Ę	į
		п			I		I	(F/H)	1.
		2			2		ω	(F/H)(1-5)	1. 2.
								Stem Focus	
								Cues	3. Psyc
								T/F	3. Psychometric Flaws
								Cred. Dist.	c Flaws
								Partial	
								Job- Link	4.
								Minutia	4. Job Content Flaws
								#/ units	ent Flav
								Back- ward	SN
								₹ ₽	5. Other
								SRO	rer
		Z		HL 18	В		z	B/M/N U/E/S	6.
v		S			s		s	U/E/S	7.
06/24/2015 1. Changed all 4 distractors first part. See exam. "Prevents a return to criticality." And Distinguish between a primary and secondary break. This makes more of an RO question.	 Had the word Train on last sentence brought down to the last sentence so that it reads, Train "B" IS this RO knowledge requirement. ?? Ops representative states YES. This question may have two answers pointed out by NEWTON. This can be used if you use the E-1 procedure. Need to put in 19010 and then have the MSIVs isolated. Will need to return to this question so that we have ONLY one answer. 	Question appears to match the KA. Question appears to be SAT. AG 5/19/15 06/23/2015	 Looks like pressurizer pressure is too high based on the level change. Asking the licensee to use a different level change. And therefore a pressurizer level. So there for at 25%, level is approximately 30-30%! Below 2210 and above 2210. Need to make more operationally valid. Change 2100 to 2180. Then pressurizer level is 25% and slowly rising. Pressurizer pressure has returned to 2215 psig. May have time to run on the simulator. 	Question appears to be SAT. AG 5/19/15 06/23/2015	Question appears to match the KA.	Question appears to be SAT. AG 5/19/15 06/23/2015	Question appears to match the KA.	Explanation	ço

1. Bold WHITE.																
06/23/2015																
Question appears to be SAT. AG 5/19/15	l E					_									013A1.04	013
Question appears to match the KA.	S	œ												н	19	
Bolded high and low in each statement.					1											
06/23/2015	Į,															
Question appears to be SAT. AG 5/19/15															012K6.03	013
Question appears to match the KA.	S	B											2	エ	18	
 Distractors remain the same does not make sense or not as valid as if the question was done for a failure low. Changed remain the same to lower and or raise. See exam to identify what has changed. 																
06/23/2015	V										_					
Original question not provided.																
Question appears to be SAT. AG 5/19/15	Ŋ.	HL 18													012A1.01	012
Question appears to match the KA.	S	3											10	Н 2	17	
 Bold required in first sentence. Need to change this to make it two statements vice an and in the question. See the question in the exam, it is completely different than the initially submitted question. See exam. 																
06/23/2015	37															
Original question not provided.	H						_	_								
Question appears to be SAT. AG 5/19/15	B	HL 18													011K2.02	011
Question appears to match the KA.	S	Z												н 3	16	
Explanation	B/M/N U/E/S		sRO only	a ⊁ K/A	/ Back- its ward	utia #/ units	Minutia	tial Job- Link	d. Partial	Cred. Dist.	ıs T/F	m Cues	5) Stem Focus	(F/H)(1-5)		
go.	7.	6	5. Other	Ųn.	Flaws	4. Job Content Flaws	4. Job		NS.	tric Flav	3. Psychometric Flaws	3. P	9	1. 2.		
				1				1					1	_		٦

 Why include the statement "all control systems are in automatic"? With automatic outward rod motion permanently disabled at Vogtle, distractors for the first part question are implausible. Are there any cases where automatic outward rod motion will occur? No learning objective in lesson plan for Power Range instrument fails low. Could ask effect of PR high failure and the effect on QPTR as measured by in core instruments. Need to have all in auto because otherwise rods would not be in automatic. Changed as requested and then changed the answer. Added the procedure name in the second sentence so that this is required, vice used to confirm QPTR. Changed back to the original used vice required. So we do not get too close to the SRO knowledge. Removed the and, and added the procedure title. 	S S													.09
Question appears to match the KA. Question appears to be SAT. AG 5/19/15 06/23/2015 1. Add degree symbol to 1220 F 2. Bold minimum in the second sentence. 3. Bold normal in the first in the first sentence.	· ·	B										13	Ξ Ξ	21 015AA2.11
Question appears to match the KA. Question appears to be SAT. AG 5/19/15 06/23/2015 1. No changes.	9 8	M HL 19											F 2	20 013A4.02
Expla	B/M/N U/E/S		Q= SRO K/A Only	Back- (#/	Minutia	Job- Link	Partial	Cred. Dist.	T/F		5) Stem Focus	LOK LOD (F/H)(1-5)	Q Q
œ	7.	6.	5. Other		ent Flaw	4. Job Content Flaws	4.		ric Flaws	3. Psychometric Flaws	3. Ps		1. 2.	

 Changed to feet and inches. Changed to 187 feet. 	Ne e															
06/24/2015	À															
Question appears to be SAT. AG 5/19/15	H			_											(2.02	025AK2.02
Question appears to match the KA.	s	В												ω	7 н	27
1. Appears to be ok.																
06/24/2015	ii N															
Question appears to be SAT. AG 5/19/15															1.23	024AA1.23
Question appears to match the KA.	s	3												<u>.</u>		26
Bolded CLOSED. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/19/15		HL 14													(1.03	022AK1.03
Question appears to match the KA.	s	В										_		<u>۔</u> س	±	25
 Reactor cavity is isolated on an ŞI. So with SI, only containment. 																
06/23/2015	13															
Question appears to be SAT. AG 5/19/15														_	1.04	022A1.04
Question appears to match the KA.	S	z												υ ω	Ξ	24
 Added the word one, Also re arranged the and added the instrument number in distractors, Appears ok. 																
06/23/2015																
Question appears to be SAT. AG 5/19/15															4.01	016A4.01
Question appears to match the KA.	s	В		_										2	3 F	23
Explanation	B/M/N U/E/S		SRO Only	d ∩ CP	Back- s ward	a #/ units	Minutia	Link Pob-	Partial	Cred. Dist.	T/F	Cues	5) Stem Focus	(F/H)(1-5)		
ò	7.	6.	5. Other	5.	laws	ntent F	4. Job Content Flaws			ic Flaws	3. Psychometric Flaws	3. Ps	Ĭ	1. 2.		
				1										1		

The second part of the question is LOD=1 since the choices are clearly borated or non-borated water sources.																
The first part distractors are not plausible since the stem of the question directly states that the pump suction valve is closed, how will a candidate fail to recognize that the suction line is isolated?															8.02	033A3.02
Question appears to match the KA.	c	≤								×				-	I	31
1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/19/15															2.05	029EA2.05
Question appears to match the KA.	S	z												2	I	30
 Bolded LOW in first sentence. Appears to be ok. 																
06/24/2015																
Question appears to be SAT. AG 5/19/15	¥,	HL 13													.4.46	026AG2.4.46
Question appears to match the KA.	S	3												2		29
1. Appears to be ok.														_		
06/24/2015																
Question appears to be SAT. AG 5/19/15		HL 18													1.05	026A4.05
Question appears to match the KA.	S	3												2	I	28
Explanation	U/E/S	B/M/N U/E/S	SRO Only	- Ω	Back- ward	#/	Minutia	Link	Partial	Cred. Dist.	T/F	Cues	(F/H)(1-5) Stem Focus	H)(1-5		
òo	7.	6.	ther	5. Other	swa	itent Fla	4. Job Content Flaws	4		ic Flaws	3. Psychometric Flaws	3. Ps)	Ť	1. 2. LOK LOD		 Q
				1									1	+	-	

 Ok as changed. 															
Do UO and SLI need to be spelled out? 06/24/2015	S														
Add a degree symbol.															
Clarification that the question is looking for reactivity impact on the reactor is necessary.															035K3.01
Question appears to match the KA.	т	В											×	F 2	33
 Changed the second part to remove the suspended with in. Ok with change. See change on the test. Removed minimum, from the stem. Used NO later than. 															
06/24/2015															
Is it possible to select audible indication from one detector to the control room and the other to containment?	S														
The first part distractors are not plausible since the stem of the question directly states that N31 is providing audible indication implying only one channel is required for the stated plant conditions.		HL 15													034K1.04
Question appears to match the KA.	U/E	Ζ								×				Н 2	32
 Question was swapped out. Second half was completely swapped out. New question changed from 2 pumps running to ALL pumps running with ALL bolded. Changed the way the SFP A pump to make sure that Unit 2 A was being used and leaking. Unit 2 Train A SFP cooling pump seal fails. 															
06/24/2015	S														
Note: Procedure 13719-1, caution above step 4.2.4.2, the first bullet has an error which has the inches portion of the level designated with a single and a double quote.															
Check the consistency of how SFP level is written. Is it feet comma inches, feet dash inches, or feet space inches?															
Explanation	U/E/S	B/M/N	SRO Only	\$Ω	Back- ward	units	Minutia	Job- Link	Partial	Cred. Dist.	1/F	Cues) Stem Focus	(F/H)(1-5)	-
òo	7.	6.	5. Other	5.0	SWI	itent Fla	4. Job Content Flaws	4		ic Flaws	3. Psychometric Flaws	3. Psy		1. 2.	

1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/19/15	Ų	HL 17													(5.08	039K5.08
Question appears to match the KA.	S	3												ω)7	37
1. Appears to be ok.														1		
06/24/2015															_	
Question appears to be SAT. AG 5/19/15															\2.04	039A2.04
Question appears to match the KA.	s	z												2	ъб П	36
2. The replacement question appears to be good.																
1. Completely redone.																
06/24/2015	7															
06/04/2015																
Also no information from the initial or current conditions is required to answer this question.	Щ															
is performed to minimize SG pressure rise? The second part distractors are also not plausible.																
For the second part, are there any other events in which an RCS cooldown																
The distractor for the first part is not plausible, it is not plausible that leak rate would remain the same as d/p changes.																
to answer the first part.	M														000001.02	OSOE
Question appears to match the KA.		z								×			×	2	5 5 F	35
1. Continue on.														+		
06/24/2015																
Question appears to be SAT. AG 5/19/15	À	HL 17													036AK3.03	036A
Question appears to match the KA.	S	0												ω	34 F	ω
Explanation	U/E/S	B/M/N U/E/S	only	\$ ₽	ward	#/units	Minutia	Link	Рапа	Dist.	Ş	cues	Focus	(+/H)(1-5)	Ŧ	
						\neg			?	2	1	_		LOK LOD	Q [[0	۵
8.	7.	6	5. Other	5.0	SWE	tent Fla	4. Job Content Flaws	4		ic Flaws	Psychometric Flaws	3. Psy		?		
				1										1	1	

41 F 2 B 5 Question appears to match t HL 14 Question appears to be SAT.	40 H 3 M S Question appears to match t 057AG2.4.35 HL 18 Question appears to be SAT. 06/24/2015 1. 120 Vital AC. Eag 2. Appears to be ok.	39 H 3 X X HL15 Congarated or set up in d/p mode Tmay n alignment, d/p mode Tmay n to roomponents used in the or set up in d/p mode Tmay n alignment, d/p mode Tmay n to roomponents used in the or set up in d/p mode Tmay n alignment, d/p	H 3 N S Question appears to match t Question appears to be SAT. 1. Make sure that th glance might have 2. OK as is.	Q# LOK LOD Stem Cues T/F Cred. Dist. Link Link	
	Question a Question a 06/24/201 1. 2.		Question a Question a 1.	. 8. Explanation	

	45 062K1.04		44 062AK3.01		061K6.01	43				059G2.4.11	42	Ę	
	1.04		3.01		5.01					.4.11			
	TI		П			Ξ					Ξ.	(F/H)(1-5)	4: 5
	ω		ω			ω					2		2 2
												Stem	
											×	Cues	3. Psychometric Flaws
												T/F	nometri
												Cred. Dist.	c Flaws
												Partial	
												Job- Link	4
												Minutia	4. Job Content Flaws
												#/ units	ent Flav
												Back- ward	NS SW
	×											\$Ω	5. Other
												SRO Only	her
	M HL 17		3		HL 17	≾					z	B/M/N U/E/S	6
v	c		S			v				24	S	U/E/S	7.
 Replaced the question Replaced the question Time frame of 1 minute, provided to give a base where they are. No 1E power UATS. This was done at approximately 38%, so the RCPs, Circ water pumps and condensate pumps are powered from the other power source or the UATS. LOSP signal starts the strips the bus of ACCW then restarts two ACCW pumps, one on A and one on B. Therefore, two pumps are running and it onlyl needs one. Appears to be ok. 	Does not match K/A . Diesel is not considered an off-site power source. Discuss with Licensee	 Changed the second part to read this method of repressurization is designed to limit. Changed from motor starting current to DG1A current. Appears to be ok. 	Question appears to match the KA based on unique NSCW system at Votgle. Question appears to be SAT. AG 5/19/15 06/24/2015	 On second question. Swapped the order of question. See test. Appears to be ok. 	Question appears to be SAT. AG 5/19/15 06/24/2015	Question appears to match the KA.	 Reference provided is. AOP 18016-C rev 228, page 31. Intention to provide the page as it is. Will be ok. 	06/24/2015	Question shows references provided but last page of section A.1 references provided: none.		Question appears to match the KA.	Explanation	çο

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06/24/2015 1. New question. Took the suggestion and made this a one part question. 2. System based question. 3. Appears to be ok.	S										_					
Awkward three possible answers to the second part. The question could be one part with four possible answers. The KA could be met with the second part question.		HL 19													.06	071A1.06
Question appears to match the KA.	т	3							×					ω	т,	49
1. Appears to be ok.	10															
06/24/2015																
Question appears to be SAT. AG 5/19/15	1 31														24	065AA1.04
Question appears to match the KA.	S	B												2	71	48
1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/19/15															.01	064A4.01
Question appears to match the KA.	S	z		_										ω	I	47
Appears to be ok.																
prese nted in the stem. remove and rewrite. 3. Re-wrote the stem. and made two statements rather than being connected to the stems information.																_
2. The way this question is written, the initial conditions, have NOTHING to do with the conditions in the stem of the question. These questions can be appropried without ago of the conditions.	Ne.															
1. Remove the 1AAO2, add the associated his	o k															
Control of the contro	n		_											_		
Ollection appears to be SAT AG 5/10/15	¥	H 18													22	063K1.03
Question appears to match the KA.	S	3												2	П	46
Explanation	B/M/N U/E/S		only	d ∧ K/A	s ward	units	Minutia	Link	Раппа	Dist.	Ş	cues	Focus	(F/H)(1-5)	Ē	
		_	_	+		-					ı i	,	$\overline{}$	LOK LOD	5	£
œ	7.	6	5. Other	'n	laws	ntent F	4. Job Content Flaws	4		c Flaws	3. Psychometric Flaws	3. Psy		2.		
															1	

1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/21/15															.22	086G2.2.22
Question appears to match the KA.	S	z												2	71	55
Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/21/15															1	079K4.01
Question appears to match the KA.	S	σ.												ω	¬¬	54
 Remove established and use supplied. Appears to be ok. 																
06/24/2015															_	
Question appears to be SAT. AG 5/21/15															<u>ت</u>	078K4.03
Question appears to match the KA.	S	В												2	Τ.	53
 Replacement does match KA Appears to be ok 																
06/24/2015	S															
This question does not match the KA. The question is merely asking which one of the following is coolebd by TPCCW. The question can be answered without the Initial Conditions and Final Conditions in the stem.	= =	8		×									×	2		52 076K3.01
1. Appears to be ok															-	
06/24/2015																
Question appears to be SAT. AG 5/19/15															17	074EA1.17
Question appears to match the KA.	U)	œ												w	П	51
1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/19/15		HL 18													2	073A2.02
Question appears to match the KA.	S	≾												2	I	50
Explanation	U/E/S	B/M/N U/E/S	sR0 Only	₹ Ω	Back- ward	#/ units	Minutia	Job- Link	Partial	Cred, Dist.	T/F	Cues	Stem Focus	(F/H)(1-5)	(F/F)	ţ
, ,	7.	ō.	5. Other	5.0	ws	tent Fla	4. Job Content Flaws	4.		c Flaws	3. Psychometric Flaws	3. Psy		1. 2.	4.5	2
				1											-	

1. Appears to be ok.														_		
06/24/2015	Ġ,					i.										
Question appears to be SAT. AG 5/21/15			-												G2.1.27	G2
Question appears to match the KA.	S	В												F 2	60	
1. Appears to be ok.				_												
06/24/2015																
Question appears to be SAT. AG 5/21/15															G2.1.17	G2
Question appears to match the KA.	S	z												F 2	59	
1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/21/15	ij														G2.1.15	G2
Question appears to match the KA.	S	3												F 2	58	
1. Appears to be ok.																
06/24/2015	7															
Question appears to be SAT. AG 5/21/15	Ġ														103КЗ.03	103
Question appears to match the KA.	S	В												-F -ω	57	
 Suggested to loss of all lighting. Changes appears to be ok. 																
2	S															
"Question was written this way based on discussion with Rick. JCC" what does this mean?																
Possible to ask if containment interlock failure is immediate or 1 hr TS action? Close door immediate or 1 hr. Take leak rate test action immediate or 1hr?																
How is not exiting containment when the lights are cycled multiple times plausible?															103A2.05	103
Question appears to match the KA.	U/E	≤		_						×				F 2	56	
Explanation	B/M/N U/E/S		SRO	d ↑ K\A	Back- ward	tia #/ units	Minutia	Link	Partial	Cred. Dist.	T/F	n Cues	5) Stem Focus	(F/H)(1-5)	- - -	
8.	7.	6	5. Other	5.	laws	ontent F	4. Job Content Flaws		,	ric Flaw	3. Psychometric Flaws	3. Ps		2 12		
				1									1	1		1

1. Appears to be ok.																
Question appears to be SAT. AG 5/21/15															-	HT.+.70
Question appears to match the KA.	S	z												2	, 	66
1. Appears to be ok.														1	-	
06/25/2015	V.															
Question appears to be SAT. AG 5/21/15	ij														-	G2.4.1
Question appears to match the KA.	S	3												2	Ŧ	65
1. Appears to be ok.	15															
06/24/2015																
Question appears to be SAT. AG 5/21/15	ř.														2	G2.3.12
Question appears to match the KA.	S	В												ω	71	64
 Reworded, B and D, to remove "through the rupture." Appears to be ok. 																
06/24/2015	S														_	
Distractor for second part is not plausible. It is not credible to think that a steam generator could depressurize uncontrollably through a ruptured U tube into the RCS.	it.														ļ-s	G2.3.11
Question appears to match the KA.	U/E	D								×				2	Π	63
 Changed the order of the second question. Appears to be ok. Associated RESET SETPOINT. SEE test for actual wording. 	Pive															
06/24/2015																
Question appears to be SAT. AG 5/21/15		HL 18													4	G2.2.44
Question appears to match the KA.	S	Z												ω	I	62
1. Appears to be ok.																
06/24/2015																
Question appears to be SAT. AG 5/21/15															2	G2.2.42
Question appears to match the KA.	S	z												2	π	61
Explanation	B/M/N U/E/S	B/M/N	SRO Only	₹ Ω	Back- ward	#/ units	Minutia	Job- Link	Partial	Cred. Dist.	T/F	Cues	Stem	(F/H)(1-5)	(F) (F)	Ę
8.	7.	6.	5. Other	5, 0	SME	tent Fla	4. Job Content Flaws	.4		ic Flaws	3. Psychometric Flaws	3. Psy		2.	<u>;</u> +	2
				1												

 Replaced distractors and question. See the question for changes. Changed from bank to modified. Changes appear to make question ok. 	FAFFA														
Asked if can ask is or is not, for CCP and then the answer will be is not. Will look at the change. 06/25/201 5	JR 184														
reasonable that all ECCS systems would be addressed will find no reason to eliminate RHR and chose CCP. 06/17/2015															
U/E Question appears to match the KA. The distractors for the first part are not plausible. A candidate that finds it		В							×				ω	<u>2</u>	70 WE04EK2.01
 Added the degree symbol. Started at 557 T cold. Cannot go below 457 in an hour. Would exceed this Appears to be ok. 															
Question appears to be SA1. AG 5/21/15 06/25/2015	15, 15													- 5	WEUSEAZ.OZ
S Question appears to match the KA	- 3												ω	Ξ Ξ	69
1. Appears to be ok		\vdash	\vdash		-									-	
06/25/2015	S 15														
Question appears to be SAT. AG 5/21/15	a.													압	WE01EK2.01
S Question appears to match the KA		z.											ω	Ξ.	68
 Changed question to separate the two questions more. And changed the answer Rearranged the PER to put up in top, because it applies to both questions. 															
\$ 06/25/2015	10														
The second part question cues the correct answer for the first part question. The second part question makes the first part distractors not plausible.							(8)								G2.4.37
U/E Question appears to match the KA.		z							×		×		2	TI	67
U/E/S	/u/	iO B/M/N	sRO A Only	Back- Q= ward K/A	#/ B:	Minutia	Job- I	Partial	Cred. Dist.	T/F	Cues	Stem Focus	(F/H)(1-5)	(F.F. S	Ę
7.		6.	5. Other		ıt Flaws	4. Job Content Flaws	4		ic Flaws	3. Psychometric Flaws	3. Psyc		1. 2.	4 5	2

Q# LOK LOD Cles T/F Cred. Partial Job Minutia #/ Back Q= SRO B/M/N U/E/S Explanation Explana
71 H 3 B S Question appears to match the KA.
WE05EK2.02 Question appears to be SAT. AG 5/21/15
06/25/2015
1. Added degree symbol
2. Appears to be ok.
72 H 3 N S Question appears to match the KA.
WE12EG2.4.20 Question appears to be SAT. AG 5/21/15
06/25/2015
 Changed bus Appears to be ok.
73 H 3 M S Question appears to match the KA.
WE13EK3.04 Question appears to be SAT. AG 5/21/15
06/25/2015
1. Changed distractor see the exam. 2. B and D second part was changed. 3. Appears to be ok.
74 H 3 B S Question appears to match the KA.
WE14EK1.002 HL 19 Question appears to be SAT. AG 5/21/15
06/25/2015
 Changed path names to all caps. Appears to be ok.
75 H 3 N S Question appears to match the KA.
WE16EA2.02 Question appears to be SAT. AG 5/21/15
06/25/2015
1. Appears to be ok.

.2.25	777 H						002G2.2.37	76 F		Q# 1.
	ω						_	2	(F/H)(1-5)	1. 2.
	×								5) Stem Focus	
									Cues	3. Psyc
									T/F	nometri
									Cred. Dist.	3. Psychometric Flaws
									Partial	
									Job- Link	4
									Minutia	4. Job Content Flaws
									#/ units	ent Fla
									Back- ward	WS
									K/A	5. Other
;	8								sRO Only	ther
t	Б						HL 16	В	B/M/N U/E/S	ō.
05.51 VA (F.)	6	S						п	U/E/S	7.
 The first part of the question is confusing, should it start with the movement of the 3 steps like: Once Rod H-8 was withdrawn 3 steps from its current location (110 steps) per the bases of Tech Spec LCO 3.1.4, " "rod H-8Operable? I suppose it does not matter, however, I was not reading the question correctly. Discuss with licensee. Procedure 18003-C, step A11, tells the crew to reduce Thermal Power to less than 75% within 1 hour. While this is not TS it is an abnormal operating procedure. Not sure that I agree with the discussion of incorrect second part in distractor B. I knew that the power decrease was supposed to be below 75% and not sure why this is SRO ONLY. Discuss with 	Question appears to match the KA.	 Added all suggestions. 	06/22/2015	equal to. Discuss with licensee to make this clear if I am incorrect. 10.In question stem it is identified as "reactor core" however, the TS Note only discusses "core" should the question be changed to "core" vice "reactor core?"	9. The first part discussion in the analysis discusses >10°F, however, the TS states at least 10°F, is this the same? This may be cutting hairs but it appears that at least should be represented as greater than or	8. Need to add the degree symbol in the first question prior to the "F."	Question appears to meet SRO only guidance.	Question appears to match the KA.	Explanation	òo

06/22/2015 Not required by this convention ONLY the color or the CSFST.	E E I E															
Question appears to be SAT. AG 5/18/15																
 Is "integrity" supposed to be in all CAPS? 	W.															
Question appears to meet SRO only guidance.	9	HL 19													1.7	006G2.1.7
Question appears to match the KA.	S	3												ω	I	79
1. Second part was NOT the SRO 2. Did as requested in 1 above. OK as changed. Should not have been a Unsat to begin with. 1. In the Current conditions, should there be quotes around "Seal Injection Valves," are closed. 2. First part is RO system knowledge. Second part is SRO knowledge. Use of procedure, but based on the information provided not sure that the RO should also know this system knowledge. 3. Does the word CLOSED in the Current Conditions need to be in all CAPS? Ie. CLOSED. Discuss with licensee 4. Can for the second sentence use should or should not? 06/22/2015 1. Do not use that convention as suggested in #1 above 2. This is not a systems lesson plan, background knowledge. 3. Added should and should not.		HL 16									×		×	ω	н	78 004G2.1.23
06/22/2015	0		Ç İİ	-1-		S S S S S S S S S S S S S S S S S S S		E 5		201			1000			
;/S Explanation	N U/E/S	B/M/N		- · · Σ Ω	Back-		Minutia	Job-	Partial	Cred.	1/F	Cues		(F/H) (1-5)	(F) [5	ç
ço.	7.	6.	5. Other	'n	laws	ntent F	4. Job Content Flaws			ic Flaws	3. Psychometric Flaws	3. Psy		2.2	4.5	2

1. Should the answer for Site Area be Site Area Emergency?																
There are four Emergency Declaration questions on this exam, there is also an Emergency Declaration JPM. This item is being oversampled. Questions 81, 87, 92, and 95.	es profit															
Question appears to meet SRO only guidance.															8	009EA2.38
Question appears to match the KA.	U/E	z												2	I	81
New Question appears to be ok.																
KA appears to match Question as changed is ok																
Question was completely replaced.																
06/22/2015	s															
instrument malfunction that will show a trip but not be a warranted trip.	Į.															
06/17/2015																
Supplied reference (EAL) is not identified in stem and not necessary to answer this question.	F.															
Based on the initial conditions the applicants should be able to identify that a Rx Trip did occur.																
not to enter a particular procedure is not "selecting" a procedure. 1. The flow path of the AOP is shown in the supporting																
knowledge to recognize the reactor has tripped and arrive at the correct answer. The SRO only is tied to procedure selection, however to enter or																
system knowledge. If the first half of the question is answered "is" based on system knowledge, then the second half requires only system																
This question is not SRO only guidance. It can be answered using only		HL 19													90	007EA2.06
Question appears to match the KA.	U	В,	No											2	I	80
Explanation	0/ 5/0	D/W//W 0/ E/3	Only	S 4	ward	units		-		-		9		(1/11/12/	-	
T Company of the Comp	11/5/6	D /24 /N	ŝ	2	Rock-	#/	Minutia	<u>-</u>	Partial	C Par	1/5	CHAC	Stem	E/H/(1-E)	<u> </u>	Q
œ	7.	6	5. Other	5. C	SWI	tent Fla	4. Job Content Flaws	4.		c Flaws	Psychometric Flaws	3. Psy		2.	<u> </u>	! :
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		8	y laif		-		va _	U/E/S	7.
OK as changed.	2 1	Will look at 1 06/22/2015	Use the st some.	06/17/2015	Distractor on which service, he safety gra applicant would req	OK as is.	2. S b 06/22/2015 1. A 2. N 3. V 3. V 6. N		
nged.	Second part was changed so that the SRO has to select the procedure. This is better than the first question. Remove the reference to the extra temporary air compressor. This was important to the first revision of the question. This will be removed.	Will look at this and provide choice between the SRO 06/22/2015	Use the steps in AOP, but the AOP does not have all the steps but can get some.	15	Distractor analysis states plausibility for the second half distractor is based on which procedure contains guidance to put safety grade charging in service, however the way the question is worded is really asking whether safety grade charging will be put in service or not. If you are asking for the applicant to select between procedures, make those the choices. SRO only would require selection of the correct procedure.		Should minimum be bolded or underlined? Ask licensee what convention so we don't have the applicants make a mistake because of nomenclature. 15 Alert or Alert Emergency. This is the way they identify this. Alert Emergency. Newton asked why would they ever NOT have a void in the heard. Or would this be picked? Validated as 6 of 6 chose the correct answer. Need to change to a steam void in the reactor head. Or reactor head steam void. 63% pressurizer level is where uncover fuel. Newton pointed out that the 60 % hump looked funny to determine that the levels not look at. Changed 60 to 45%. Looks good this way.	Explanation	ço.

06/22/2015 1. Just bold the high as is in the question. 2. BTI, bypass test instrumentation interlock.	S														
Does the noun name for COT need to be spelled out or do all applicants clearly understand what this means?	Way.														
Does the second question give away the answer to the first? ie " <u>When</u> the COT is performed" if the COT was not allowed, why would the second part say when it is performed?															
 Should the word "high" bolded in the initial conditions be all caps as well? 															
Question appears to meet SRO only guidance.														027AA2.10	027,
Question appears to match the KA.	U/E	z									×		Н 3	84	
 Ok as is, no changes warranted. 13503 is the normal procedure to reset but due to the inability to reset SI train B, need to do it in the procedure. Remove the identification of the procedure in the last statement so that it does not look like cueing. Add to the first statement from the main control room. 	Maria Pis														
06/22/2015	s														
 I do not understand why 13503B-1 is a reasonable distractor. I need to understand better why someone would think this is reasonable. If I didn't know I would guess that the attachment is the better of the two answers. Is there an example of an SOP being directed out of an EOP for performance? Discuss with licensee to better understand or select something else to select to drop the slave relays. Potentially two distractors not a plausible distractor. 															
Question appears to meet SRO only guidance.														013A2.03	013,
Question appears to match the KA.	U/E	В							×				Н 3	83	~
Explanation	U/E/S	B/M/N U/E/S	= SRO A Only	rd K/A	#/ Back- units ward	Minutia	Job- Link	Partial	Cred. Dist.	T/F	Cues) Stem Focus	(F/H)(1-5)	(F) E	
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037AG2.1.20													HL 19	4	Question appears to meet SRO only guidance.
															Distractors for first half are not plausible with the inclusion of the statement "under the stress of a LOCA or MSLB"; reword this question without teaching or leading.
															 Would suggest that the word "NOT" in the first statement be capitalized so the applicants do not miss it. Can we change the time in the second time frame from 1020 to
														Ū. 1	that of 1045? Something other than the 20 min interval from the procedure. 3. Why don't we change the answer so that the leak rate is greater than 75 but less than 150 gpm so that the other answer of
														S	בליטיליר שטמות שב נטוופרני טוארמאא שומו וורפוואפבי. 190/22/2015
														Ě	 Removed the first, stress of MSLB or LOCA. Capitalized NOT,
															procedure step 7 we have two parallel paths. This then provides the applicant to go to step 8. Have to know what is going to drive to rapid power reduction. Greater than 30 gpd/hr. computer screen in the control room radiation monitor. Rate of change. ROC, rate of change.
86 Н	2				×								3	т	Question appears to match the KA.
040AG2.2.40													HL 19		Question appears to meet SRO only guidance.
															 Should the noun name for the Alarm be in quotes? The question states REFERENCES PROVIDED, there is ONLY one reference, change to REFERENCE PROVIDED.
															question? Discuss with licensee. 4. Is 10 gpm a valid distractor? WE are looking for UNIDENTIFIED leakage, there is a 1 gpm unidentified leakage but not 10 gpm. There is 10 gpm for identified leakage. Discuss with licensee.
														S	06/22/2015
															 References. Will be used. REFERENCES. Ok with the 10 gpm.;

 Provide the paper. VSC auditorium. Will take the examination. 					9								-			
06/22/2015															_	
we have for the applicants. This has to be done for the RO and the SRO examinations. WE will use this instead of actually putting the entire submittal of documents the applicants need to use for the exam. Only the table of contents goes with the FINAL exams.	s											=				
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Question appears to meet SRO only guidance.															<u> </u>	059A2.03
Question appears to match the KA.	ш	æ												ω	I	80
Ok as changed.																
 Changed Emergency DG1A is now supplying its associated panel. 																
06/22/2015	S															
Question 81 referenced an "Alert" this question, an "Alert Emergency" what is the Vogtle nomenclature? Be consistent through the exam.																
 Is it necessary to provide the respective bus that the DG1A is supplying? Just say it started and powered its respective electrical bus. 																
There are four Emergency Declaration questions on this exam, there is also an Emergency Declaration JPM. This item is being oversampled. Questions 81, 87, 92, and 95.																
Question appears to meet SRO only guidance.															1.30	057AG2.4.30
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Question appears to match the KA. Question appears to meet SRO only guidance. Question appears to be SAT. AG 5/18/15 1. Does the word inoperable, need to be in CAPS based on TS? 2. Is it necessary to use "were" closed vice just closed? Remove were. 3. There is NO safe guards information associated with this Security Threat procedure that we have to worry about is there? Ask licensee. 4. While this question is kind of basic, the level of difficulty is not very high. 06/22/2015 1. No inoperable is NOT capitalized. 2. This is security sensitive. WE need to REMOVE this from putting this in the examination file. 3. HOW is this going to be handled. Is this CONFIDENTIAL	Question appears to match the KA. Question appears to meet SRO only guidance. The distractor "is NOT" is not plausible for the second part of this question. Both 'within 24 hrs' and 'within 4 hours' are bound by 'within 24 hours'. This is a subset issue. The analysis would support offering either 4 hr delay or 24 hr delay for the two options for the second part. 1. While this question tests the 24 hour requirement it really appears to be not very discerning. We provide the applicant the 24 hour time. I believe it would be better to test the B.3 idea for the 4 hour requirement. Discuss with licensee. 06/22/2015 1. Used the above suggestion. 2. Have not validated with the new version. Will validate. 3. Ok as changed.	Explanation	φ

Question appears to match the KA. The second part of this question is a direct lookup from the supplied reference. The second part is RO level.	E	z										×		ъ	2 н	95 G2.2.2
Question appears to match the KA. Question appears to meet SRO only guidance. 1. Add to the stem what procedure is being followed for the core reload. Number as well as the noun name of the procedure. And for fuel movement in the FHB. Distractor D does not make sense for SRO to authorize fuel unlatch in SFP. Discuss with licensee. Is the procedure for fuel movement in the FHB the same as the one for core reload? 06/23/2015 1. Licensee states, at this time, there are approximately 6 procedures in force so if they use this procedure there are no other procedures that will conflict. 2. D, looks ok OK as is. No changes necessary.	т	В				,				×				N	, and the state of	94 62.1.35
2. Second part is SRO knowledge but not very discerning. I think that it be changed to who has to be informed. The answer would be the SSM or responsible department manager. Not sure this will work. Discuss with licensee the changes if they will or will not work. I think that the second part may not work 1. Done better than before. 2. Has to now use two keys. 3. Reevaluate as a 2-3.	o .	- 1						-		Dist.			- Creati			
Explanation		B/	SRO		Back-	ia #/	Minutia	j ob	Partial	Cred.	T/F	Cues	Stem	===	(F) (G)	¥
χα.	7.	6	5. Other	رب رب	laws	ontent i	4. Job Content Flaws			ic Flaws	3. Psychometric Flaws	3. Psy		. 2.	i,	

J/E
19
Replacement question appears to be ok. Replacement question appears to be ok.
1. Replaced question.
06/23/2015
There are four Emergency Declaration questions on this exam, there is also an Emergency Declaration JPM. This item is being oversampled. Questions 81, 87, 92, and 95
SRO B/M/N U/E/S Only
6. 7.

Should "Integrity" and "Core Cooling" be all caps?																
Procedure title and noun name for 19241-C needs to be listed.																
Question appears to meet SRO only guidance.		HL 17													.01	WE06EA2.01
Question appears to match the KA.	т	В												ω	Π	100
Question appears to be SAT. AG 5/18/15	lai															
Question appears to meet SRO only guidance.	H															2.4.26
Question appears to match the KA.	s	z												ω		99
 Orange will bounce in, due to feed, or instrumentation spiking for a positive SUR. Ok as changed. 																
06/23/2015	S															
IR SUR needs to be positive to make 19211-C a plausible distractor.																
stem? This may not be operationally valid.																
The distractor for the second part may not be plausible. Is it possible to have, Subcriticality, ORANGE with the condition "reactor tripped" in the																
Question appears to meet SRO only guidance.																G2.4.23
Question appears to match the KA.	U/E	B								×				ω	I	98
Nothing has to be changed. Appears to be ok as is.	4															
 HP has nothing to do with releases, ONLY chemistry department. Removed the , "In addition to the Shift Supervisor," now trying to decide how to ask this in the question. Decided to add procedure 13216-1, Per the procedure the chemistry manager, Now this reads , see the exam for the changes. 																
06/23/2015	S														_	
Explanation	U/E/S	B/M/N U/E/S	SRO Only	₹ Ω	Back- ward	units	Minutia	Job- Link	Partial	Cred. Dist.	Ş	Cues	Focus	(F/H)(1-5)	(F/	
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		LOK LOD (F/H)(1-5) Stem	1
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2. V 06/23/2015 1. / 2. I 3. F 5. 4	۲		
What does asterisk on step numbers 12 through 14 in 19222-C mean? 5 Added procedure title as requested. More knowledge of procedures than CFSTs usage. Removing the word completion in distractors A and C. NO to capitalize as above. * is to be continuous action steps. The RCPs should or are required to be. Will be	How is this question different than Q98? Both are asking the same concept whether to complete or immediately transition to another FRP?	Explanation	çο