RO SkyScraper SRO Skyscraper RO System	stem/Evolution List SRO System/Ev	olution List Outline C	hanges		
Question Topic RO 1					
A dropped rod while critical on Unit 2 has result	ed in RCS Tavg lowering to 540.9°F, a	nd the Rx remains critical.			
Which of the following choices contains ONLY r Specs?	easons why Tavg must be raised to al	least 541° for the Rx to re	emain critical IAW	Salem Tech	
Raising Tavg to at least 541°F ensures					
 MTC is within its analyzed band. protective instrumentation is within its normal operating range. the P-12 interlock is above its allowable setpoint. minimum shutdown margin is maintained. that Heat Flux Hot Channel Factor does not exceed its limits in the lower region of the core. the PZR is able to be operable with a bubble established. 					
a. 1, 3, 5.					
b. 1, 4, 6.					
C C C C C C C C C C			•		
d . 2, 4, 5.					
Answer C Exam Level R Cogn	itive Level Memory Fa	cility: Salem 1 & 2	ExamDate:	9/26/2011	
KA: 000003K307 AK3.07 RO Valu	ie: 3.8* SRO Value: 3.9 Section	EPE RO Group:	2 SRO Group:	2 55.43	
System/Evolution Title Dropped Control Room	1			003	
KA Statement: Knowledge of the reasons for t Tech-Spec limits for T-ave	he following responses as they apply	o Dropped Control Rod:		<u> </u>	
Explanation of Answers: 55.41(5,10) The Tech Spec Minimum Temperature for Criticality limit of at least 541°F (TSAS 3.1.1.4) Bases states that: 1. the moderator temperature coefficient is within its analyzed band, 2- the protective instrumentation is within its normal operating range, 3-the P-12 interlock is above it allowable setpoint, 4-the pressurizer is capable of being in an operable status with a steam bubble, and 5- the reactor pressure vessel is above its minimum RTNDT temperature. Of the 2 incorrect choices, #4 is plausible if the candidate thinks about negative MTC and positive reactivity addition causing a loss of SDM, and #5 is plausible since the colder Tc.					
would tend to create higher power lower in the core, but Fq(Z) is a condition which is kept in its allowable range by maintaining acceptable power distribution limits as described in TSAS 3.2.2.					
Reference Title	Facility Reference Number	Reference Section	Page No. Revis	sion	
Salem Tech Specs	Salem Tech Specs	Bases	B3/4 1-2 Am 1	97	

alent rech specs	Salem Tech Specs	Dases
		·

L.O. Number

_

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List SRO System/Evo	olution List Outline C	hanges			
Question Topic	RO 2					1	
Given the follow	ving conditions:	la tra de la la la degradada en esta de la la degradada en esta de la degradada en esta de la degradada en esta					
 21 SGFP trip The Rx opera EOP-TRIP-1 While perforr Response, th 	 Unit 2 is operating at 100% power. 21 SGFP trips, and a manual Rx trip is initiated based on lowering SG levels. The Rx operator confirms the Rx trip during performance of the immediate actions of EOP-TRIP-1, Rx Trip or Safety Injection. While performing the RCS Temperature Control section of EOP-TRIP-2, Rx Trip Response, the RO reports Tavg is ~551° and stable. Which of the following describes why Tavg is ~551° F? 						
······································	Trip Breaker A failed to open.						
b. Reactor	Trip Breaker B failed to open.						
c. Main Ste	am Dump pressure setpoint is se	et too low on the control console.					
d. Main Ste	am Dump pressure setpoint is se	et too high on the control console.					
Answer b	Exam Level R Cogni	tive Level Application Fa	cility: Salem 1 & 2	ExamD	ate:	9/26/2011	
KA: 000007A20	3 EA2.03 RO Valu	e: 4.2 SRO Value: 4.4 Section	EPE RO Group:	1 SRO (Group:	1 55.43	
System/Evolutio	n Title Reactor Trip					007	
KA Statement:	Ability to determine and interpre	et the following as they apply to React	or Trip:				
	Reactor trip breaker position						
Explanation of Answers: 55.41(5,6,7) A manual Rx trip is initiated by the Rx Trip Handles. This sends a signal to BOTH Solid State Protection System Trains to open their respective reactor trip breakers. The P-4 signal is developed by the opening of each RTB. One of the functions of the P-4 signal is to arm the steam dumps (Train A) and place them in the Plant Trip mode of operation (Train B), to control RCS Tavg at 547°. Since the reactor trip was confirmed, at least one RTB opened. B is correct because the B P-4 signal not being present would result in the Main steam dumps controlling via the Load Reject Controller, which is designed to maintain Tavg ~ 5° above							
programmed Tavg of 547 at no load. A is incorrect because the load reject would arm the steam dumps, and Train B P-4 would place them in Plant Trip Mode and control at 547°. C and D are incorrect because steam dumps would have to be in MS Pressure Control mode for the setpoint on the control console to be the driving system signal. Both C and D are plausible if candidate does not know normal mode of steam dump operation at power, or function of Tavg Control.							
	Reference Title	Facility Reference Number	Reference Section	Page No.	Revision		
Reactor Trip Res	ponse	2-EOP-TRIP-2	Bases Doc	14	27		
Reactor Protection	on System Steam Dump Contro	221059			13		

L.O. Nümber

Objectives

TRP002E005 STDUMPE008

STDUMPE007

RO SkyScraper	SRO Skyscraper	RO System/Evolution List	SRO System/Evolution List	Outline Cha	nges	
Question Topic	RO 3			· · · · · · · · · · · · · · · · · · ·		
Given the followin	ng conditions:					
 Spent Fuel Pool Pool Manipula PZR spray den PZR level is ris The CRS enter The crew ident 	 Given the following conditions: Unit 1 is operating at 100% power. Spent Fuel Pool fuel moves are being performed IAW S1.OP-IO.ZZ-0010, Spent Fuel Pool Manipulations. PZR spray demand lowers. PZR level is rising very slowly. The CRS enters S1.OP-AB.PZR-0001, Pressurizer Pressure Malfunction. The crew identifies 1PR2, PZR Power Operated Relief Valve, is leaking. Of the following choices, which is REQUIRED to be performed FIRST IAW Salem Tech Specs? 					
a. Immediate	ly suspend movemen	t of irradiated fuel.	<u></u>			······
b. Within one	hour initiate action to	place the unit in Hot Shutdov	vn.			
c. Within one	hour close 1PR7, PC	ORV Block Valve, and maintain	n power to the valve.			
d. Within one	hour close 1PR7, PC	DRV Block Valve, and remove	power from the valve.			
Answer c	Exam Level R	Cognitive Level Applic	cation Facility:	alem 1 & 2	ExamD	ate: 9/26/2011
KA: 000008G239	2.2.39	RO Value: 3.9 SRO Valu	e: 4.5 Section: EPE	RO Group:	1 SRO 0	Group: 1 55.43
System/Evolution		Vapor Space Accident		, 		008
KA Statement:						
		an or equal to one hour Techn				1
Answers:	says stop moving fuel specific TSAS which a maintained to the bloc	ct because there is no require for any Abnormal Procedure applies, and fits with the other ck valve IAW TSAS 3.4.3 actionable from anything OTHER the	entry. B is incorrect but pla one hour requirements. C on a for excessive seat leak	usible, since it is t is correct, and D ir	he 3.0.3 a ncorrect, b	ection when there is no
R	eference Title	Facility Refere	ence Number	e Section	age No.	Revision
Salem Tech Spece	<u>ar han di ar di dina di ana di ana</u> S		3/4.3	u - dike solog retro aut di de [7] [beg		194
Pressurizer Pressu	ure Malfunction		001			15
Spent Fuel Pool M	lanipulations	S1.OP-IO.ZZ-0010				21
L.O. Number Objectives ABPZR1E002						
Material Required	for Examination					
Question Source:	New	Question Modificat	ion Method:	U	sed Durir	ng Training Program
Question Source	Comments					
Comment						,
				J		

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topic	RO 4
Given the followin	ng conditions:
 23 AFW pump A 1,000 gpm Li The Rx is trippe NO AFW pump Assuming that bo 	OCA occurs. ed and a Safety Injection initiated. os automatically start. th MDAFW pumps could be manually started if demanded, which of the following describes the MINIMUM required AFW pump
status, and the re	ason why that minimum is required IAW 2-EOP-LOCA-1, Loss of Reactor Coolant?
	FW pump must be started to ensure a secondary heat sink is available.
b. TWO MDA	FW pumps must be started to ensure a secondary heat sink is available.
C. ONE MDA	FW pump must be started to provide a static head of water to prevent primary to secondary leakage.
d. TWO MDA	FW pumps must be started to provide a static head of water to prevent primary to secondary leakage.
Answer	Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 000009K328	EK3.28 RO Value: 4.5 SRO Value: 4.5 Section: EPE RO Group: 1 SRO Group: 1 55.43
System/Evolution	Title Small Break LOCA 009
	Knowledge of the reasons for the following responses as they apply to Small Break LOCA: Manual ESFAS initiation requirements
Answers:	55.41(4,10) A is correct because one MDAFW pump will provide at least 22E4 lbm/hr flow which is the minimum required to satisfy he Heat Sink CFST until at least one SG NR level is restored. Additionally, for a small to intermediate sized LOCA, this flow is equired to ensure a secondary heat sink is available. The distracters all contain either 2 pumps or the incorrect reason, or both. The distracters which refer to the static head of water is the basis for a LBLOCA, not a SBLOCA. The distinction must be made that LSBLOCA is occurring, and apply that knowledge to arrive at the correct hasis for the correct flow required. TWO AEW pumps is plausible because two AFW pumps are required during FRSM when >44E4 lbm/hr AFW flow is required.
Re	eference Title Facility Reference Number Reference Section Page No. Revision
2.40 WHINT HAVE FILS \$ 49.70	Dolant Basis Document 2-EOP-LOCA-1 12 28
LOCA01E009	Objectives
Material Required	for Examination
Question Source:	Facility Exam Bank Question Modification Method: Concept Used Used During Training Program
Question Source	Comments Vision Q80803 Used the concept of "why" AFW flow is required, and added "how much" and made it an operational type question instead of a simple "Why isrequired?"
Comment	

RO SkyScraper RO Sys	tem/Evolution List Outline Changes
Question Topic RO 5	<u>.</u>
Which of the following validated conditions will, the Abnormality, without delay?	by itself, require tripping the affected RCP(s) IAW S1.OP-AB.RCP-0001, Reactor Coolant Pump
a. #1 Seal Water Leakoff flow >6 gpm.	
b . Seal Water Outlet temperature >160°F.	
c. ALL charging pumps out of service for >5	minutes.
d. OHA D-22, 13 RCP BRG CLG WTR FLO	LO, received 2 minutes ago.
Answer a Exam Level R Cogni	tive Level Memory Facility: Salern 1 & 2 ExamDate: 9/26/2011
KA: 000015K207 AK2.07 RO Valu	e: 2.9 SRO Value: 2.9 Section: EPE RO Group: 1 SRO Group: 1 55.43
System/Evolution Title Reactor Coolant Pum	p Malfunctions 015
KA Statement: Knowledge of the interrelations	between Reactor Coolant Pump Malfunctions and the following:
RCP seals	
Answers: barrier flow is still established.	the loss of charging pumps, and hence seal injection flow, is not a RCP trip criteria, since thermal AB.CVC will not direct stopping the RCPs either. A is correct because #1 Seal Leakoff flow of
greater than or equal to 6 gpm i direct entry into AB.RCP unless	is RCP trip criteria based on Att. 1 of AB.RCP. D is incorrect because the ARP for D-22 does not accompanied by rising temp. B is incorrect because the setpoint for high seal outlet temp is
190°F	
Reference Title	Facility Reference Number Reference Section Page No. Revision
Reactor Coolant Pump Abnormality	S1.OP-AB.RCP-0001 [15
Loss of Charging	S1.OP-AB.CVC-0001 7
L.O. Number	
ABRCP1E003 Objectives	
Material Required for Examination	II
Question Source: Facility Exam Bank	Question Modification Method: Editorially Modified Used During Training Program
Question Source: Facility Exam Bank	Question Modification Method: Editorially Modified Used During Training Program delay" to stem to ensure choice c is incorrect.
Question Source: Facility Exam Bank Question Source Comments Added "without of the second	delay" to stem to ensure choice c is incorrect.
Question Source: Facility Exam Bank	
Question Source: Facility Exam Bank Question Source Comments Added "without of the second	delay" to stem to ensure choice c is incorrect.
Question Source: Facility Exam Bank Question Source Comments Added "without of the second	delay" to stem to ensure choice c is incorrect.

RO SkyScraper	SRO Skyscraper RO Sys	em/Evolution List	olution List Outline Cha	anges	
Question Topic	RO 6				
During a total lo degrees?	oss of charging event, what is the	reason for closing the RCP seal injec	tion isolation valves if RCP	seal inlet temperature rises to 225	
a. To preve	nt runout of a charging pump whe	en a charging pump is started.			
b, The RCP	seals and shafts may be damage	ed due to thermal shock when a char	ging pump is started.		
c. To preve	nt steam binding of the charging	oumps due to RCP seal leakoff flashi	ng to steam when a chargin	ng pump is started.	
d. The RCP	thermal barrier heat exchangers	may rupture due to thermal shock an	d water hammer when a ch	arging pump is started.	
Answer b	Exam Level R Cogni	ive Level Memory Fa	cility: Salem 1 & 2	ExamDate: 9/26/2011	
KA: 000022K10	AK1.01 RO Value	2.8 SRO Value: 3.2 Section	EPE RO Group:	1 SRO Group: 1 55.43	
System/Evolutio	Don Title Loss of Reactor Cool	ant Makeup		022	
KA Statement:	Knowledge of the operational in Consequences of thermal shock	plications of the following concepts a	s they apply to Loss of Rea	ictor Coolant Makeup:	
Explanation of	Explanation of 55.41(10,7) AB.CVC provides guidance in Att 3 and CAS 5.0 to isolate RCP seal injection if any seal inlet temp is greater than or				
Answers:	Answers: equal to 225°F. This guidance is consistent with the guidance contained in LOPA-1, basis document, page 32, which states, "Isolating the RCP seal injection lines prepares the plant for recovery while protecting the RCPs from seal and shaft damage that may occur when a charging pump is started as part of the recovery. With the RCP seal lines isolated, a centrifugal charging pump				
	can be started in the normal cha	rging mode without concern for cold.	seal injection flow thermally	shocking the RCPs " A is incorrect	
	incorrect but plausible since the seal area, and the gas could be	irst pump in a system has potential for high temperature in the seal area on transported back to CVCS system, b er return is isolated for this reason du	an extended loss of seal co ut is not why the seals are	coling may cause flashing in the	
	Reference Title	Facility Reference Number	Reference Section	Page No. Revision	
Loss of Charging	The Associate in the control of the Association of the Association of the	S2.OP-AB.CVC-0001		9	
Loss of Power Ad	ccident	2-EOP-LOPA-1		26	

L.O. Number

ABCVC1E003

LOPA00E003

RO SkyScraper	SRO Skyscraper, RO System/Evolution List SRO System/Evolution List Outline Changes						
Question Topic	R0 7						
Given the follow	ng conditions:						
 The reactor f 23 RCP is in 21 RHR loop 22 RHR loop 22 RHR loop RHR HX inle RCS pressur ALL MS-10's 	 Unit 2 is in MODE 4 exiting a forced outage. The reactor has been shutdown for 96 hours. 23 RCP is in service. 21 RHR loop is in service supplying shutdown cooling. 22 RHR loop is aligned for ECCS. RHR HX inlet temperature is 290°F and stable. RCS pressure is 325 psig and stable. ALL MS-10's are set for 200 psig in AUTO. 						
With NO operat	RHR pump due to indications of cavitation. r action, determine how long it will take for MODE 3 will be reached? it added to RCS is decay heat.						
References pro-	ded.						
a.] < 15 min	ies.						
b . 15-19 mi	utes.						
c. 20-25 mi	utes.						
d . > 25 min	es.						
Answer b	Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011						
KA: 000025K10	AK1.01 RO Value: 3.9 SRO Value: 4.3 Section: EPE RO Group: 1 SRO Group: 1 55,43						
System/Evolution	Title Loss of Residual Heat Removal System 025						
KA Statement:	Knowledge of the operational implications of the following concepts as they apply to Loss of Residual Heat Removal System: Loss of RHRS during all modes of operation						
Explanation of Answers: 55.41(10)The HUR will be determined using Attachment 5 of AB.RHR-1, page 2, with PZR level (RCPs are running). The 96 hour mark is 4 days, and the HUR will be ~3.8- 3.9°/minute. 60/3.8=15.8 minutes. 4°/minute would yield 15 minutes, but 4°/ minute is clearly above where the lines intersect on the graph. If the after core reload line is used this was a forced outage, not a refueling outage per stem), then the HUR would be 2.7/2.8 deg/min, which would take 21.4-22.2 minutes. If page 3 HUR is used, then the HUR would be 3.0, which would give 20 minutes. If the candidate uses the first page of attachment without checking to see if it is for the right conditions as stated in the stem, then they would use ~0.31° which would give over 3 hours. Modified distracters to make all plausible. Provided Attachment 4 in addition to							
	correct Attachment 5 to make question harder.						
	eference Title Page No. Revision						
Loss of RHR	S2.OP-AB.RHR-0001 17						

L.O. Number ABRHR1E005

RO SkyScraper	SRO Skyscrape	er RO Syst	em/Evolution List	SRO System	Evolution Li	st Outline C	hanges		
Question Topi	RO 8								
Given the follow	ving conditions:								
- 21 charging	oump is in service. Imps trip due to a f	, C	n a refueling outage. relay which was repla	ced on all C	CW pumps				
Which of the fol reason it must b		n action that mu	ust be performed IAW	S2.OP-AB.	CC-0001, C	Component Coolin	g Abnormali	ty, and the c	orrect
a. Stop all I	RCPs to prevent se	eal package dar	mage.						
b. Isolate le	tdown and swap c	harging pump s	uction to the RWST to	o prevent the	e loss of RO	CP seal injection.			
c. Place 23	charging pump in	service since it	is cooled by SW and	both centrif	ugal chargir	ng pumps are coo	led by CCW	• 	
d. Initiate S	urge Tank makeup	as level drops	due to system pressu	ire decay to	ensure air	is not introduced t	o CCW pur	ip suction .	
Answer b	Exam Level	۲ Cognit	ive Level Memory		Facility:	Salem 1 & 2	ExamD	ate:	9/26/2011
KA: 000026G13	2.1.32	RO Value	3.8 SRO Value:	4.0 Sect	ion: EPE	RO Group:	1 SRO C	Group: 1	55.43
System/Evolutio	n Title Loss of	f Component Co	ooling Water						026
KA Statement:	Ability to ovalain	and apply all av	ntom limits and proce	utions					1
Explanation of			use while RCPs will b		t is becaus	e there is no hear	ing cooling f		
Answers:	cooling to the leto Exchanger) leads Coolant Pump Se PDP has CCW co because surge ta	down and seal we to a rising VCT eals <u>C is incorr</u> ooling, so no pu ink M/U is initiat	from charging system water return heat exch I temperature, which is rect hecause, the char imp swap would be re ted if a leak is present stem leak made them	angers (in a ultimately re ging pumps quired in thi t, not for a lo	ddition to the sults in the are reverse s case, but	he loss of cooling loss of RCP seal ed_the_centrifugal would be if the P	to the Thern injection, an <u>pumps have</u> DP (23) was	nal Barrier H nd failure of t SW cooling in service.	eat he Reactor <u>and the</u> D is incorrect
	Reference Title		Facility Reference	e Number	Refere	nce Section	Page No.	Revision	
Component Cool	ing Abnormality		\$2.OP-AB.CC-0001					14	
									-
L.O. Number ABCC01E004		ojectives							
	d for Examinatio		and and the second second second second			· · · · · · · · · · · · · · · · · · ·			
Question Source			uestion Modification	n Method:			Used Durin	ng Training	Program
Question Source	e Comments								
Comment						· · · ·			
Traditional and the second			<u></u>						

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topic	RO 9
Given the followin	g conditions:
 13 Main Turbin The PZR Masterna 	ing at 100% power. e Governor Valve fails shut. er Pressure Controller output fails as is at 2235 psig before any response r Valve closure occurs.
Which of the follow	wing will occur naturally in the Pressurizer to help limit the magnitude of the resulting pressure transient on the primary system?
a. An outsurg	e cools the PZR. This allows some steam to condense to water and limits the resulting pressure increase in the RCS.
b. An insurge	of hotter water heats the PZR. More liquid then flashes to steam helping to limit the resulting pressure drop in the RCS.
c. An outsurge the RCS.	e causes the steam space to expand in the PZR. This allows some liquid to flash to steam and limits the resulting pressure drop in
d. An insurge increase in	of cooler water compresses the steam space in the PZR. Steam is condensed to water helping to limit the overall pressure the RCS.
	Exam Level R Cognitive Level Memory Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 000027A103	AA1.03 RO Value: 3.6 SRO Value: 3.5 Section: EPE RO Group: 1 SRO Group: 1 55.43
System/Evolution	Pressurizer Pressure Control Malfunction 027
	Ability to operate and / or monitor the following as they apply to Pressurizer Pressure Control Malfunction: Pressure control when on a steam bubble
Explanation of Answers:	55.41() A is incorrect because the outsurge cause lower pressure in the PZR, which causes more flashing to restore pressure. B is incorrect because an outsurge occurs, and if an insurge occurs it would be of colder water, not hotter. C is incorrect because an insurge would occur, but the action is correct. D is correct because the governor valve closing would cause an insurge based on the ising RCS pressure from the load reject. The insurge compresses the steam bubble, which cause condensing of the steam in the 22R, which acts to limit the pressure rise.
Re	eference Title Facility Reference Number Reference Section Page No. Revision
PZR Pressure and	Level Control Lesson Plan NOS05PZRP&L-09 9
L.O. Number	Objectives
Material Required	for Examination
Question Source:	Facility Exam Bank Question Modification Method: Editorially Modified Used During Training Program
Question Source	Comments 7/17/02 Braidwood NRC Exam, Vision Q73426
Comment	
hei	
k	

RO SkyScraper	SRO Skyscraper RO S	System/Evolution List SRO Sys	stem/Evolution List Outline C	hanges	
Question Topic	C RO 10				
Given the follow	ving conditions:				
 13 charging A manual Rx 	rating at 100% power. pump is in service. : trip is initiated after 11BF19 fa not trip, and can NOT be tripp				
	llowing would be an expected e EOP-FRSM-1, Response to N	control console indication for the 0 uclear Power Generation?	Charging Pumps after the Rapid	Boration Initiation steps have be	en
Assume Safety	Injection is not actuated.				
11 CVCS Pump	12 CVCS Pump	13 CVCS Pump			
a. START,	STOP, STOP.				
b, STOP, S	TART, START.				
C. START,	START, STOP.				
d. START,	START, START.				
Answer d	Exam Level R Coo	mitive Level Memory	Facility: Salem 1 & 2	ExamDate: 9/2	26/2011
KA: 000029A20	AA2.04 RO Va	alue: 3.2* SRO Value: 3.3* S	Section: EPE RO Group:	1 SRO Group: 1 55.4	13 🗌
System/Evolution	Anticipated Transie	ent Without Scram		02	9
KA Statement:	Ability to determine and inter CVCS centrifugal charging p	pret the following as they apply to ump operating indication	Anticipated Transient Without S	Scram:	
Explanation of Answers:	three pumps will indicate ST, and stops the PDP. B is plat centrifugal charging pump in	se FRSM-1 has operator start 11 ART. A is plausible if the candida usible if the candidate sees 13 PD operation. C is plausible if the ca stopping 13 charging pump_Sto ABs.	te thinks the procedure starts O OP is in service and thinks the pl andidate thinks the procedure dir	NLY one centrifugal charging pur rocedure just needs at least one ects starting of either 11 AND 1	ump, e 2
	Reference Title	Facility Reference Numb	Der Reference Section	Page No. Revision	
Employees and the second states of the	clear Power Generation	1-EOP-FRSM-1	nan j di tatibi le interesta su cara anteresta su consensa en consensa en consensa en consensa en consensa en c		
,					1
L.O. Number	Objectives				
Material Require	ed for Examination	· · · · · · · · · · · · · · · · · · ·			
Question Sourc	e: New	Question Modification Metho	d	Used During Training Progra	im 🗌
Question Sourc	e Comments				
Comment					

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topic	RO 11
Given the follow	ing conditions:
The reactor is Control rods a No additional If a Source Range	is performing a Rx startup by control rods. s critical at 3000 cps in the source range. are withdrawn to raise power. operator action is taken and a reactor trip eventually occurs. ge Nuclear Instrument Discriminator voltage was lost immediately after the rod pull was complete, would a reactor trip occur sooner he loss of voltage did not occur, and why?
The Rx would tri	p
a. later. The	e recovery period of the instrument following the rod pull becomes longer.
b. sooner. T	The recovery period of the instrument following the rod pull becomes shorter.
c. sooner. T	he gamma level is added to the neutron level since it is not being discriminated out.
d. later. The	gamma level is deducted from the neutron level since it is not being discriminated out.
Answer c	Exam Level R Cognitive Level Application Facility: Salern 1 & 2 ExamDate: 9/26/2011
KA: 000032K10	AK1.01 RO Value: 2.5 SRO Value: 3.1 Section: EPE RO Group: 2 SRO Group: 2 55.43
System/Evolutio	In Title Loss of Source Range Nuclear Instrumentation 032
KA Statement:	Knowledge of the operational implications of the following concepts as they apply to Loss of Source Range Nuclear Instrumentation: Effects of voltage changes on performance
Explanation of Answers:	55.41(1,6) SR discriminator "screens out" gamma radiation at low power levels because it is not proportional to Rx power. If this voltage was lost, the SR NI would see all those extra gammas, and would indicate a higher power level. This would bring the SR NI to the trip level sconer than if the voltage had not been lost. D is incorrect because the gamma radiation is added, not deducted. A is incorrect because the trip would come sconer. The Pulse Amplifier has 3 functions: to amplify the signal output from the Preamp, to eliminate, or "discriminate against" upwanted poise and gamma pulses and to permit testing.
	The BF3 Proportional Counter used in the SR produces pulses proportional to the energy of the ionization reaction in the chamber. A neutron will react with the B10 in the BF3 gas, to produce a large pulse. A gamma will react with the gas to produce a smaller pulse. The Discriminator portion of the Pulse Amplifier acts as a gate, to pass the large magnitude neutron pulses, and to reject the smaller amplitude gamma pulses. Because of its design, it will eliminate any pulses smaller than a neutron pulse, and so removes noise pulses, too.
	Reference Title Page No. Revision
ENALGY TO DESCRIPTION OF	Instrumentation Lesson Plan

L.O. Number

Objectives

EXCOREE005

RO SkyScraper SRO Skyscraper & RO Sys	tem/Evolution List SRO System/	Evolution List Outline C	changes				
Question Topic RO 12							
Given the following conditions:							
 Unit 1 is performing a unit startup. Reactor power is 11%. The low power trips have NOT been blocked. Intermediate Range (IR) Channel I N35 previously failed and was removed from service IAW S1.OP-SO.RPS-0001, Nuclear Instrumentation Channel Trip / Restoration. Predict what will occur if the High Voltage Power Supply for IR Channel II N36 fails.							
				ĺ			
a. The reactor will trip on high IR flux.							
	and a second	······································					
b. The reactor will NOT trip, 1N36 indication	will drop to zero.						
c: The reactor will NOT trip, but OHA F-25 S	R FLUX HI will annunciate.						
d. Both Source Range channels will automa	tically energize, and the reactor will	trip on high SR flux.					
Answer b Exam Level R Cogni	tive Level Comprehension	Facility: Salem 1 & 2	ExamDate:	9/26/2011			
KA: 000033A201 AA2.01 RO Valu	e: 3.0 SRO Value: 3.5 Sect	on: EPE RO Group:	2 SRO Group: 2 5	5.43			
System/Evolution Title Loss of Intermediate	Range Nuclear Instrumentation			033			
KA Statement: Ability to determine and interpret	et the following as they apply to Los	s of Intermediate Range Nu	clear Instrumentation:				
	nge, intermediate-range, and powe						
Explanation of Answers: 55.41(7) This is a valid K/A match because the candidate is required to understand the relationship between where power is in the power range, the level at which automatic re-energization of the SR channels would occur from the IRNI's failing low and/or having their bistables tripped because of the channel failure, and what the significance of the 11% power in the power range has on NI automatic operation. This question requires knowledge of what levels in the 3 nuclear instruments would be present at 11% power range power i.e. that the SR will be above the trip setpoint if they were to re-energize, which is one of the distracters, what the IR							
will read if they fail low and how that affects the SR instrumentation, and the P-10 permissive, which automatically blocks SR energization with Rx power >10% in the power range. Loss of Instrument power (high voltage DC 300-1500) to N36 will cause its indication to go low. The rx will NOT trip, because the automatic energization of P-10 permissive at 2/4 PRNI at 10% will already have occurred. (Stem 11% power). This will prevent the SRNIs from automatically reenergizing when the second IRNI channel lowers less than 7x10-11Amps. F-25 will not annunciate, and if it did it would trip the Rx.							
Reference Title	Facility Reference Number	Reference Section	Page No. Revision				
RPS Nuclear Instrumentation Permissives and							
Nuclear Instrumentation Channel Trip / Restorati	S1.OP-SO.RPS-0001						
Dverhead Annunciators Window F S1.OP-AR.ZZ-0006 11							

L.O. Number EXCOREE007 EXCOREE009 EXCOREE010

RO SkyScraper	SRO Skyscraper	RO System/Evolution List	SRO System/Evoluti	on List C	Dutline Chang	les	
Question Topi	c RO 13						
Which of the for Rupture?	llowing identifies why th	e RCS is depressurized durir	ig the response to a S	GTR IAW 2-	EOP-SGTR-1,	Steam Gener	ator Tube
a. Allow m	ore rapid boron injection	and refill the PZR.	- 140		A.78.1.		
				······································			
b. Allow m	ore rapid boron injection	and minimize subcooling.					
c. Termina	te primary-to-secondary	leakage and refill the PZR.					
d. Termina	te primary-to-secondary	leakage and reduced secon	dary plant contaminati	on.			
Answer c	Exam Level R	Cognitive Level Mem	ory Facili	ty: Salem	1&2	ExamDate:	9/26/2011
KA: 000038K1		RO Value: 3.2 SRO Valu	P3702700		Group: 1	SRO Group:	1 55.43
System/Evoluti		erator Tube Rupture					038
KA Statement:		rational implications of the fo	llowing concepts as th	ney apply to S	Steam Genera	tor Tube Ruptu	ure:
	Leak rate vs. pressure		and the second diffe	rance hetus	an the DCS ar		LSC which stops
Explanation of Answers:	the primary to second RCS (PZR)from that s transport to the second	ressurization is done to elimin ary leakage. RCS pressure SG. While secondary plant c dary plant, it is not WHY the	is actually reduced to ontamination will be re depressurization is pe	LESS than ru educed by sto erformed. Th	uptured SG pre opping the leal e boron injecti	essure to allow kage into the S ion distracters	v backfill of the SG and its are plausible
	Ibecause as RCS pres	sure lowers. ECCS injection	flow capability rises a	and can provi	ide more horor	n injection to e	osure SDM
	Reference Title	Eacility Refer	ence Number	eference Sec	tion Pa	ge No. Revis	sion
Steam Generate	RT 7 7 7 9 glassiger	2-EOP-SGTR-1	M. 20 Phylophylic and Shift Links		40	27	
			[
L.O. Number	Object	ives					
SGTR01E007							
Material Requi	red for Examination					6 , 11, 21, 21, 21, 21, 21, 21, 21, 21, 21	1
Question Sour		Question Modifica	ition Method:		Use	ed During Trai	ining Program
Question Sour	ce Comments						
Comment		agely file and <u>provide state</u> . The second se					
····							

RO SkyScraper SRO Skyscraper Rt Question Topic RO 14 Rt	D System/Evolution List SRO System/Evolution List C	utline Changes
Which of the following identifies an automat the Main Turbine inlet with NO operator acti	ic action and its correct initiating coincidence which will occ on?	ur if a Main Steam piping rupture occurs at
a. Main Steamline Isolation. 1/2 High S	team Flow on 2/4 SGs, with 2/4 RCS loops <543°F.	
b. Main Steamline Isolation. 2/4 High S	team Flow on 2/4 SGs with 2/4 Steamline pressure <600 p	sig.
c. Safety Injection. 2/3 detectors on 1/	4 SG 100 psig lower than corresponding detectors on 2/3 r	emaining SGs.
d. Safety Injection. 2/3 detectors on 1/	4 SG 100 psig lower than corresponding detectors on 1/3 r	emaining SGs.
Answer a Exam Level R C	ognitive Level Application Facility: Salem 1	& 2 ExamDate: 9/26/2011
KA: 000040K201 AK2.01 RO	Value: 2.6* SRO Value: 2.5 Section: EPE RO	Group: 1 SRO Group: 1 55.43
System/Evolution Title Steam Line Rupt		040
KA Statement: Knowledge of the interrelat	ions between Steam Line Rupture and the following:	
Valves		
Answers: 2/4. C is incorrect because	solation occurs as described in A. B is incorrect because t e there will be no Safety Injection on SG D/P because the r ssure. C coincidence is correct. D is incorrect for the sam	upture is downstream of the MSIVs and ALL
Reference Title	Reference Number	tion Page No. Revision
RPS Steam Generator Trip Signals	221056	8
Licensed Operator Fluency List		
]]
LO. Number Objectives		
Material Required for Examination		
Question Source:	Question Modification Method:	Used During Training Program
Question Source Comments		
Comment		

RO SkyScraper SRO Skyscraper RO St	vstem/Evolution List SRO System/Evo	Dution List Outline C	hanges	
Question Topic RO 15				
Which of the following describes the reason Ma	ain Steam dumps will be blocked from o	pening if Main Condenser	r vacuum degrades to 20" Hg?	
KA: 000051K301 AK3.01 RO Val System/Evolution Title Loss of Condenser	nser vacuum. temperature. h can damage condenser tubes. hitive Level Memory Fa ue: 2.8* SRO Vatue: 3.1* Section		2 SRO Group: 2 55,43	/2011
	the following responses as they apply to y upon loss of condenser vacuum	o Loss of Condenser Vac	uum:	
Explanation of Answers: 55.41(4) All of the distracters Interlock C-9 blocking steam the steam dump system (as y	are things that can occur on a loss of va dump operation. The condensers are n rell as a Main Turbine trip) occur at 20"h with the condenser and it must be remo	ot designed to operate at Ig decreasing, since at th	any pressure, and steam flow fro	m
Reference Title	Facility Reference Number	Reference Section	Page No. Revision	
Loss of Condenser Vacuum	S2.OP-AB.COND-0001			
		J		
L.O. Number Objectives		·	· · · · · · · · · · · · · · · · · · ·	
Material Required for Examination				
Question Source: Other Facility	Question Modification Method:	Editorially Modified	Used During Training Program	
Question Source Comments Seabrook May	2003 NRC Exam			
Comment				

RO SkyScraper	SRO Skyscraper RO Sys	stem/Evolution List SRO System/Evo	olution List Outline C	hanges		
Question Topic	RO 16					
Given the follow	ing conditions:					
	rating at 35% power with both S6 s trip simultaneously.	GFPs in service.				
Which of the fo	lowing describes the actions rec	uired in S2.OP-AB.CN-0001, Main Fee	edwater/Condensate Syst	em Abnormality, and why?		
b. Trip the I	Rx to ensure only decay heat an	naximize SG inventory. pumps to maximize SG inventory. d RCP heat are being added to the RC ay heat and RCP heat are being added				
Answer c	Exam Level R Cogn	itive Level Memory Fa	cility: Salem 1 & 2	ExamDate: 9/26/2011		
KA: 000054K30	01 AK3.01 RO Valu	ie: 4.1 SRO Value: 4.4 Section	EPE RO Group:	1 SRO Group: 1 55.43		
System/Evolution	on Title Loss of Main Feedw	ater		054		
KA Statement:		he following responses as they apply t	o Loss of Main Feedwate	r:		
The second s	Reactor and/or turbine trip, ma	nual and automatic	nevel of stoors flow, the A	Asia Turking would be tripped if Du		
Explanation of Answers:	power is <49% (P-9). The Los removal of steam demand from RCS is decay and RCP pump to restore SG inventory. Addit	s of Main Feed is NOT one of those can the Main Turbine. For a loss of feed heat, which minimizes the amount of h onally. AEW numes will have auto state the procedure knows they will alread	ases, since SG inventory , the rx is tripped to ensur neat removal required from rted upon the trip of both	would quickly be depleted without the the only heat being added to the n the SG's, and allows AFW system		
	The possible nor required, since		FTTE watches a server a second of the second			
6.159(15m2.0) 5204112	Reference Title	Facility Reference Number	Reference Section	Page No. Revision		
Main Feedwater	Condensate System Abnormali	S2.OP-AB.CN-0001				
]						
ABCN01E003 Objectives						
Material Requir	ed for Examination					
Question Source	e: New	Question Modification Method:		Used During Training Program		
Question Source	e Comments					
Comment						

RO SkyScraper SRO Skyscraper RO Syst	em/Evolution List SRO System/Evolution List	Outline Changes				
Question Topic RO 17						
Given the following conditions:						
 Unit 1 is operating at 100% power. All 3 Chillers have power, and are operating as 12 chilled water pump is in service. A loss of all off-site power occurs. 	s expected for temperature conditions.					
Which of the following identifies how the loss of	off-site power will affect chiller and chilled water p	ump operation?				
Chillers will have their 460V breaker close	d by their respective SEC, and Chilled Wa	ter Pump(s) will be operating.				
a. ALL, 11 and 12.						
	•					
b. ALL, 12 ONLY.						
c. NO, 11 and 12.						
d. NO, 12 ONLY.						
	ive Level Application Facility: Sal	em 1 & 2 ExamDate: 9/26/2011				
KA: 000056A108 AA1.08 RO Value		RO Group: 1 SRO Group: 1 55,43 056				
System/Evolution Title Loss of Off-Site Powe						
KA Statement: Ability to operate and / or monitor HVAC chill water pump and unit	or the following as they apply to Loss of Off-Site F	?ower:				
Explanation of 55.41(7) The SECs will shed the	en reclose the chiller 460 volt breakers on a MOD	E II (Blackout) SEC initiation following the EDG				
Answers: start. The SEC will close the Cl permissive. This is unlike the EC	niller 460V breakers and start both Chilled Water CAC interlock start, where the standby pump (11)	Pumps sequentially to satisfy the Chiller start starts only if the dedicated pump (12) fails to start.				
Reference Title	Facility Reference Number Reference	Section Page No. Revision				
Chilled Water System Lesson Plan	NOS05CHLWAT	23,34 10				
No 1 & 2 Units Control Area AC Chilled Water P	228031					
Safeguards Emergency Loading Sequence	203668	6				
CHLWATE008						
Material Required for Examination						
Question Source: New	Question Modification Method:	Used During Training Program				
Question Source Comments						
Comment						
	지수는 것이 가지 않는 것이 가지 않는 것이 같은 것이 같은 것이 같이 많이 있는 것이 있다. 것이 가지 않는 것이 없는 것이 있는 것이 없는 것이 있는 것이 없는 것이 있는 것이 없다.					

RO SkyScraper	SRO Skyscraper RO Sys	stem/Evolution List	SRO System/Evolution	List Outline Cl	nanges			
Question Topic	RO 18							
Given the follow	ing conditions:							
- The 125 VDC - Prior to any a	ating at 100% power. control power normal supply br ction being taken in response to pond IAW the EOP network.							
Which of the foll	owing describes how this 125 V	DC breaker failure will at	fect the mitigation o	f the LOCA?				
	will have to locally trip 22 RCP or Safety Injection.	breaker at its cubicle to	stop forced RCS flo	w when RCS pressu	ure lowers to	1350 psig in EOP-TRIP-		
b. Operators Depressu	s will not be able to establish/ma rization.	aintain saturated PZR co	nditions if required ir	n EOP-LOCA-2, Pos	st LOCA Coo	oldown and		
c. Operators	will be required to adjust AFW	flow to 22 SG lower than	h that supplied to the	e remaining 3 SGs ir	EOP-TRIP	-1.		
d. Operators	will not be able to restore norm	nal charging and letdown	in EOP-LOCA-2.					
Answer c	Exam Level R Cogn	itive Level Application	n Facility:	Salem 1 & 2	ExamD	ate: 9/26/2011		
KA: 000058G40	6 2.4.6 RO Val i	ie: 3.7 SRO Value:	4.7 Section: EP	E RO Group:	1 SRO G	Group: 1 55.43		
System/Evolutio	n Title Loss of DC Power			· · · · · · · · · · · · · · · · · · ·		058		
KA Statement:		······						
	Knowledge of EOP mitigation s							
Answers:	Explanation of Answers: 55.41(10,4) Control power for operation of 4KV busses is supplied from the 125VDC system. A normal and emergency supply are provided, and must be manually transferred when the emergency supply is required. The 125VDC control power supplies power to the TRIP coils of the 4KV breakers, and the breaker cannot trip without that power. However, the 4KV group buses are supplied from the APT (Main Generator output) when the unit is operating at 100% power. The same lack of control power will prevent the 4KV Group Bus infeed breaker from tripping. With this breaker shut, the alternate power supply breaker from Station Power cannot shut, and the bus will become deenergized. This will cause 22 RCP to have no power, even though its 4KV breaker remains shut. Loss of forced flow in a RC loop cause less heat transfer in that loop, requiring less AFW flow to supply less steam flow. Distracter A is incorrect because forced flow has already been lost in 22 RC loop AND RCS pressure will not lower to 1350 requiring all RCPs to be tripped. B is incorrect because PZR heater busses are powered from E AND G 460V buses, and 1 group of backup heaters remains available if required for PZR heatup to saturation. D is incorrect because letdown is not restored in LOCA-2, although normal charging is. This is plausible if the correlation between PZR heaters/level/letdown is confused.							
R	Reference Title	Facility Reference	Number	rence Section	Page No.	Revision		
2 Unit 125 VDC C		223720				33		
Rx Trip or Safety	Injection	EOP-TRIP-1				27		
Post LOCA Coold	lown and Depressurization	EOP-LOCA-2				25		
L.O. Number	Objectives:							

.

RO SkyScraper	SRO Skyscraper RO Syst	em/Evolution List SRO System/Evo	olution List Outline Changes			
Question Topic	RO 19					
		0001, Abnormal Radiation, due to RM ntilation controls to HEPA PLUS CHAF				
	it describes the change, if any, in e Gas Decay Tank (WGDT)?	the release rate resulting from shifting	g the ventilation systems, if the proble	em is a stuck open relief		
a. None – th	e WGDT relief valves discharge	to the plant vent.				
b. The relea	se rate is reduced by passing thr	rough the Auxiliary Building Ventilation	n System.			
c. The relea	se rate is reduced by passing thr	ough the Fuel Handling Building Venti	ilation System.			
d. None – th	e WGDT relief valves discharge	to the Auxiliary Building Ventilation ex	chaust fan suction plenum.			
Answer a	Exam Level R Cognit	ive Level Comprehension Fac	cility: Salem 1 & 2 ExamD	Pate: 9/26/2011		
KA: 000060K20	2 AK2.02 RO Value	2.7 SRO Value: 3.1 Section:	EPE RO Group: 2 SRO C	Group: 2 55.43		
System/Evolutio	n Title Accidental Gaseous F	adwaste Release		060		
KA Statement:	CA Statement: Knowledge of the interrelations between Accidental Gaseous Radwaste Release and the following: Auxiliary building ventilation system					
Explanation of Answers:	Explanation of 55.41(13) The WGDT relief valves (205340 sheet 2, E-7) combine into a single header and go to (205322 sheet 1, G-3), which is					
	Reference Title	Facility Reference Number	Reference Section Page No.	Revision		
Waste Disposal -	Gas	205340-2	Lillian karlifa na ne 24 ajalan 35 i sefika - 1 ken 90. Benja i 199	36		
Aux Bldg, EDG R	oom, and Fuel Handling Bldg v	205322-1		25		
Auxiliary building	Ventilation	205337-1		40		
L.O. Number	Objectives					
Material Require	d for Examination					
Question Source	Facility Exam Bank	Question Modification Method:	Direct From Source Used Durin	ng Training Program		
Question Source	Comments Q78133					
Comment						

RO SkyScraper	SRO	Skyscraper	RO Syst	tem/Evolution List	SRO System/Evo	olution List	Outline Cl	nanges		
Question Topic	RO 2	0								
Given the follow	ing cond	itions:		<u>w</u> .		beat				
Bay Leak. - All #2 SW Ba	pump is i as been ly pumps	n service. isolated due trip.		ak IAW S2.OP-AB.S					0	
Vhich of the fol	lowing de	escribes an a	ction that w	ill be performed in S	S2.0P-AB.SW-000	J5, LOSS OF A	II Service Wa	iter, and why	<u> </u>	
a. Isolate C	VCS letd	own. This pr	events resi	n damage in the C\	/CS demineralizer	s when letdo	wn temperatu	ire exceeds	136°.	
b. Isolate C	VCS letd	own. This pr	events hea	ting of the fluid in th	ne VCT to a tempe	rature which	will cause a l	oss of NPSI	I to the char	ging pumps.
		23 charging p ed shutdown		available. This red	uces the heat load	on the CCW	/ system and	extends the	time availab	le to
				available. This mai				n allows suff	icient time to	install
Answer d	Exam			tive Level Mem			ern 1 & 2	ExamD	ate:	9/26/2011
KA: 000062A20	6	AA2.06	RO Valu	e: 2.8* SRO Valu	ie: 3.1* Section	EPE	RO Group:	1 SRO (Group: 1	55.43
System/Evolution	on Title	Loss of Nu	ıclear Servi	ce Water						062
KA Statement:				et the following as th						
Explanation of				rrect because while					e CCW svste	em to prolong I
Answers:	cooling 136°F. trip the	to the Therm C is incorrec Rx, there will	al Barriers t because a be no cont	and RCP seals. The swap to the PDP in rolled shutdown. Decause the PDP is of the PDP	ne CVCS deminera is made since it is is correct because	alizers are au cooled by Co e the basis d	tomatically b CW, and an in ocument stat	ypassed on mmediate ac es that the t	high tempera ction in AB.S ransfer to the	ature at W-005 is to Positive
Anna an				nporary cooling hos						
	Referenc	e Title		Facility Refere	ence Number	Reference	Section	Page No.	Revision	
Loss of All Service	e Water			S2.OP-AB.SW-00	005				4	
							· _			
					-10-10					
L.O. Number ABSW04E004	Objectives									
Material Require		amination								
Question Source	e: <u>Ne</u>	w	[Question Modifica	tion Method:			Used Duri	ng Training	Program
Question Source	e Comm	ents								
Comment					tigada, <u>astra</u> t					
		_	.			-	<u>_</u>			

RO	SkyScraper	SRO	Skyscra	per	RO S	/stem/Evolutio	n List 🖉 🧐 Si	RO System/Ev	olution L	ist	Outline C	hanges	9 9		
Ques	stion Topic	RO 2	21												
Give	n the follow	ing cond	litions:	·····											
- Ur	nit 2 is in M total loss o	ODE 3, I f all Cont	NOT and trol Air c	d NO	P. 8.										
Whic	h of the fol	lowing de	escribes	s the t	pasis for t	ransferring th	e charging pu	mp suction t	to the R	WST IA	W S2.OP	-AB.CA-0	001, Loss c	of Con	trol Air?
a.	The RCS faster rat		borate	d to C	CSD cond	itions, and RV	VST water is	at a higher c	oncentr	ation that	an the VC	T, so bord	on will be a	dded to	o RCS at a
b.	If a centri achieve (, its recirc line	e back to the	VCT will sho	rt circui	t any bo	ron additio	on and rai	ise the time	requi	red to
C.	CVCS let induction						navailable. T	his would ca	use a ra	apid dep	letion of V	CT level	and subsec	quent a	air
d.							, the minimum S inventory wi		ed at th	e low sp	eed stop	would not	t match the	flow Ic	ost to the
Answe	er a	Exam	Level	R	Cog	nitive Level	Memory	Fa	cility:	Salem	1&2	Exa	mDate:		9/26/2011
KA:	000065K30	8	AK3.08	8	RO Va	ue: 3.7 S	RO Value:	3.9 Section	i: EPE	RC	Group:	1 S R	O Group:	1	55.43
Syster	m/Evolutic	n Title	Loss	of Ins	strument	Air									065
KA St	atement:					the following loss of instrur	responses as nent air	they apply t	o Loss	of Instru	ment Air:				
6	Explanation of Answers: 55.41(10) AB.CA basis document states, "Prior to commencing a cooldown, the RCS must be borated to cold shutdown conditions. Without Control Air, there is no way to reduce RCS inventory. Thus, the amount of boron that can be added before the cooldown commences will depend on the available space in the PZR. Due to the slow rise in level, this may become limiting. Therefore, the charging pump suction is transferred to the RWST early in the event. This ensures that any addition to the RCS is at RWST concentration. C is incorrect because the charging pump suction will auto swap (MOV/s) to the RWST on Io io level in the VCT. B														
					while the on loss c		es go back to	the VCT, it	is not th	ne basis	for the tra	nsfer. [D is incorrec	ct beca	ause seal
		Referenc	e Title			Facilit	y Reference	Number	Refere	ence Se	ction	Page N	lo. Revisi	on	
Loss c	of Control A	ir				S2.OP-AE	3.CA-0001						16		
[
<u></u>	umber 01E002			Objec	ctives										
Materi	al Require	d for Ex	aminat	tion											
Quest	ion Source	e: Pre	evious 2	2 NRC	C Exams	Question M	lodification M	lethod:	Direct F	rom Sol	urce	Used D	uring Trair	ing P	rogram
Quest	ion Source	e Comm	ents	"J" IL	OT RO N	RC Exam Au	gust 2008								
Comm	ient									·: .:.]					
															1
										x					

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topic	RO 22
Given the following	g conditions:
2-EOP-FRCC- - The crew is una - All SG WR leve - NO AFW pump - All core exit the	rating crew is responding to an Inadequate Core Cooling condition IAW 1, Response to Inadequate Core Cooling. able to re-initiate ECCS flow. els are ~5%. s can be started. rmocouples indicate >1200F. me PZR PORVs in an attempt to lower CET temperatures, how should RCPs be utilized?
a. RCPs will N	IOT be started since possible rupture of hot SG tubes could occur.
b. RCPs will N	IOT be started at this point since they are required later in the procedure.
c. Start ONLY	one RCP in any RCS loop. Continue operation of ONLY one RCP until core exit thermocouples are less than 1200 deg.
	CP in an available RCS loop. If core exit thermocouples remain > 1200F, start another RCP in an available loop. Continue until all CPs are running or CETs are <1200 deg.
	Exam Level R Cognitive Level Memory Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 000074K201	EK2.01 RO Value: 3.6 SRO Value: 3.8 Section: EPE RO Group: 2 SRO Group: 2 55.43
System/Evolution	Title Inadequate Core Cooling 074
KA Statement: K	nowledge of the interrelations between Inadequate Core Cooling and the following:
	5.41(10) With SG WR levels at ~5%, there is no secondary heat sink. At step 13/14 of FRCC-1, no SG level and no AFW flow
Answers:	irects operators to step 23. Step 25 caution states that RCP's are only to be started in loops with SG NR levels >9%, of which here are none. No RCPs can be started. It is NOT because that they will be needed later in procedure.
Re	ference Title Facility Reference Number Reference Section Page No. Revision
Response to Inade	quate Core Cooling 2-EOP-FRCC-1 22
L.O. Number	Objectives
Material Required	for Examination
Question Source:	Facility Exam Bank Question Modification Method: Editorially Modified Used During Training Program
Question Source (Comments VISION Q 73445. Choices modified to remove extraneous info. Removed RVLIS level in stem. Added AFW pp status and SG WR levels in stem.
Comment	

RO SkyScraper	SRO Skyscraper RO St	vstem/Evolution List SRO Syste	m/Evolution List Outline	Changes
Question Topic	RO 23			
ONE Charging F		he actions of 2-EOP-LOCA-2, Pos ng, PZR level is stabilized at RCS		essurization are being performed. With CS subcooling at 9°F, the operator
Which of the foll	lowing describes the result of tu	urning on the backup heaters?		
Break flow	ECCS flow		- 11.	
a. rises. ris	Ses.			
b. rises. lov	vers.			
c. lowers. ri	ises.			
d. lowers. I	owers.			
Answer b	Exam Level R Cogr	Comprehension	Facility: Salem 1 & 2	ExamDate 9/26/2011
KA: 00WE03K1	01 EK1.1 RO Val	ue: 3.4 SRO Value: 4.0 Se	ction: EPE RO Group:	2 SRO Group: 2 55.43
System/Evolutio	n Title LOCA Cooldown an	d Depressurization		E03
KA Statement:		implications of the following conce nction of emergency systems.	pts as they apply to LOCA Co	ooldown and Depressurization:
Explanation of Answers:	55.41(8,5) With subcooling inc cause break flow to rise, and I	dicated in stem, turning on the PZF ECCS flow will lower as the pumps	Reaters will cause PZR presented by the second s	ssure to rise. Increased pressure will her head.
	Reference Title	Facility Reference Numbe	r Reference Section	Page No. Revision
Post-LOCA Coold	down and Depressurization	2-EOP-LOCA-2		
L.O. Number	Objectives			
Material Require	d for Examination			
Question Source	Facility Exam Bank	Question Modification Method	Editorially Modified	Used During Training Program
Question Source	Comments Vision Q73852			
Comment				
##				

RO SkyScraper SRO SkyScraper RC	D System/Evolution List SRO System/Evolution List Outline Changes										
Question Topic RO 24											
Given the following conditions:											
 Unit 2 is attempting to identify and isolate a LOCA outside containment. 2-EOP-LOCA-6, LOCA Outside Containment, has just been entered. The source of the water is backleakage from the 23 cold leg injection line. 											
Assuming that any valves required to be ope while using 2-EOP-LOCA-6?	erated during LOCA-6 operate correctly, which of the following leak locations would NOT be isolated										
a. On the valve inlet flange on 22SJ49,	RHR DISCH TO COLD LEGS.										
b. On the valve outlet flange on 21SJ49	, RHR DISCH TO COLD LEGS.										
C. Between the 2RH20, RHR HX BYP V	ALVE and the 2RH26, HOT LEG ISOL VALVE.										
d. Between the 2RH2, RHR COMMON	SUCT VALVE, and 22RH4, RHR PMP SUCT VALVE.										
Answer b Exam Level R C	ognitive Level Comprehension Facility: Salem 1 & 2 ExamDate: 9/26/2011										
KA: 00WE04A102 EA1.2 RO	Value: 3.6 SRO Value: 3.8 Section: EPE RO Group: 1 SRO Group: 1 55.43										
System/Evolution Title LOCA Outside C	ontainment E04										
	nonitor the following as they apply to LOCA Outside Containment:										
Operating behavior charact Explanation of 55.41(3,8) 2-EOP-LOCA-6	teristics of the facility. closes/checks closed the following valves: 2RH1 OR 2RH2, 21 and 22RH19s, 2RH26, 21 and										
Answers: 22SJ49s. Using drawing 2 valves closed. The only log	05332-SIMP, it shows that any leak between the RH1/2 and the SJ49s will be isolated with the above cation which wouldn't be affected by those valve being closed in the downstream/outlet side of the SJ49 int of proper valve operation was inserted to preclude a candidate from assuming a leaking valve may not										
Reference Title	Facility Reference Number Reference Section Page No. Revision										
LOCA Outside Containment	2-EOP-LOCA-6										
RHR Simplified Drawing	205332-SIMP 2										
L.O. Number Objectives											
Material Required for Examination											
Question Source: Facility Exam Bank	Question Modification Method: Direct From Source Used During Training Program										
Question Source Comments J-ROC21											
Comment											
a service a construction of the second s											

	RO 25								
Given the follow	ing conditions:								
	0								
	perienced a LBLOCA. p is C/T electrically by		aker only.						
 RWST level i 	s 14.8', and operators			3, Transfer to Col	d Leg				
Recirculation.									
Which of the fol	lowing conditions will p	prevent trans	fer to CL recirc, a	nd cause the crev	v to go to 1-EOP-LO	CA-5, I	_oss of Em	ergency Re	circulation?
							_		
a. 12SJ44, 0	Cont Sump Suct Valve	e, does NOT	op en when its Su	imp Auto Arm PB	is depressed.				
b. 1RP4 Loc	ckout Switch for 12RH		n Suption is stu	ak in "Lookod Out"					
		14, KAK PUII	p Suction, is slue						
c. 12SJ44 o	pen PB is depressed l	before the 12	2RH4 close PB is	depressed.					1
								·	
d. 12RH4 ca	an NOT be closed from	n control roo	m OR locally.						
nswer d	Exam Level R	Cognitiv	e Level Appli	cation Fa	cility: Salem 1 &	2	Exam	Date:	9/26/2011
									1 55.43
KA: 00WE11K2		RO Value:	lisinan tisinan katarata	enteri 1 Etters an Albe	1: EPE RO Gro	oup:		Group:	
System/Evolutio	Title Loss of Em	nergency Co	plant Recirculation)					E11
CA Statement:	Knowledge of the inte								
	Components, and fur automatic and manua		ntrol and safety s	ystems, including	instrumentation, sigr	nals, in	terlocks, fa	ilure modes	s, and
Explanation of	r								
	I A IS IIIUUII EUL DECAUS	~ 1 init 1 C 1/	A values do not b	ava auto ewan fur	ction like unit 2 bas	Cir	incorrect h	ocauso the	
1411-161230 St. S. String and 7 (14,485) - A	will remain to the SJ4	44 even thou	gh it is interlocked	d to not open until	ction like unit 2 has. the RH4 is shut, and	i there	is no locko	out to prever	nt it
1411-161230 St. S. String and 7 (14,485) - A	will remain to the SJ4 opening. B is incor	44 even thou rrect because	gh it is interlocked there is no locke	d to not open until out switch for RH4	the RH4 is shut, and s on RP5. D is corr	there ect be	is no locko cause if the	out to prever e 12RH4 car	nt it
Harden States and States and	will remain to the SJ4	44 even thou rrect because	gh it is interlocked there is no locke	d to not open until out switch for RH4	the RH4 is shut, and s on RP5. D is corr	there ect be	is no locko cause if the	out to prever e 12RH4 car	nt it
Answers:	will remain to the SJ4 opening. B is incor	44 even thou rrect because	gh it is interlocked there is no locke	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr	l there ect be lirects	is no locko cause if the	out to prever e 12RH4 car	nt it nnot be
Answers:	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c	44 even thou rrect because cannot be ope	gh it is interlocked e there is no lockd ened, and recirc c	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	but to prever e 12RH4 car to LOCA-5.	nt it nnot be
Answers:	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title	44 even thou rrect because cannot be ope	gh it is interlocked e there is no locko ened, and recirc o Facility Refere	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can to LOCA-5.	nt it nnot be
Inswers:	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title	44 even thou rrect because cannot be ope	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers:	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title	44 even thou rrect because cannot be ope	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1	44 even thou rrect because cannot be operative internet in the operative internet in the operative internet internet in the operative internet internet inte	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 .O. Number	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title	44 even thou rrect because cannot be operative internet in the operative internet in the operative internet internet in the operative internet internet inte	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Inswers: Fransfer to Cold No. 1 Unit 12SJ .O. Number .CA3U1E004	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1	44 even thou rrect because cannot be operative internet in the operative internet in the operative internet internet in the operative internet internet inte	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Inswers: Fransfer to Cold No. 1 Unit 12SJ .O. Number .CA3U1E004	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1	44 even thou rrect because cannot be operative internet in the operative internet in the operative internet internet in the operative internet internet inte	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 O. Number CA3U1E004	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1	44 even thou rrect because cannot be operative internet in the operative internet in the operative internet internet in the operative internet internet inte	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 O. Number .CA3U1E004 RHR000E006	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1	44 even thou rrect because cannot be ope	gh it is interlocked e there is no locked ened, and recirc c Facility Referent I-EOP-LOCA-3	d to not open until out switch for RH4 annot be establis	the RH4 is shut, and s on RP5. D is corr ned, and procedure o	l there ect be lirects	is no locko cause if the transition t	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 .O. Number .CA3U1E004 RHR000E006 Material Require	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Reference I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section		is no locko cause if the transition t	Revision 28 35	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 .O. Number .CA3U1E004 RHR000E006 Material Require Question Source	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	e 12RH4 can but to prever 12RH4 can but LOCA-5. Revision	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 .O. Number .CA3U1E004 RHR000E006 Material Require Question Source	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	Revision 28 35	nt it nnot be
Answers: Transfer to Cold No. 1 Unit 12SJ4 O. Number CA3U1E004 RHR000E006	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	Revision 28 35	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ4 .O. Number .CA3U1E004 RHR000E006 Material Require Question Source	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	Revision 28 35	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ .O. Number .CA3U1E004 RHR000E006 Material Require Question Source Question Source	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	Revision 28 35	nt it nnot be
Answers: Fransfer to Cold No. 1 Unit 12SJ .O. Number .CA3U1E004 RHR000E006 Material Require Question Source	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	Revision 28 35	nt it nnot be
Inswers: Fransfer to Cold No. 1 Unit 12SJ .O. Number .CA3U1E004 RHR000E006 Material Require Question Source	will remain to the SJ4 opening. B is incor closed, the 12SJ44 c Reference Title Leg Recirculation 44, 12RH4, and 1RH1 Objec	44 even thou rrect because cannot be ope () () () () () () () () () ()	gh it is interlocked there is no locked ened, and recirc of Facility Referent I-EOP-LOCA-3 211507-1	d to not open until but switch for RH4 annot be establist ence Number	the RH4 is shut, and s on RP5. D is corr ned, and procedure of Reference Section	there ect be- directs	is no locko cause if the transition t Page No.	Revision 28 35	nt it nnot be

RO SkyScraper SRO Skyscraper RO Sys	tem/Evolution List SRO System/Evolution Lis	t Outline Changes
Question Topic RO 26		1
Given the following conditions:		
 Unit 2 has experienced an event which has re A MSLI has been performed. 	esulted in 24 SG pressure rising to 1115 psig.	
How many SG Safety Valves will be open on 24	SG if pressure remains at 1115 psig, and all sa	afety valves operate when expected?
		· · · · · ·
a. 5		
b. 4		
c. 3		
d.] 2		
Answer c Exam Level R Cogn	tive Level Memory Facility:	Salem 1 & 2 ExamDate: 9/26/2011
KA: 00WE13A102 EA1.2 RO Valu	e: 3.0 SRO Value: 3.2 Section: EPE	RO Group: 2 SRO Group: 2 55.43
System/Evolution Title Steam Generator Ov	erpressure	E13
KA Statement: Ability to operate and / or moni Operating behavior characteris	tor the following as they apply to Steam Genera tics of the facility.	ator Overpressure:
	ties, with lift setpoints of 1070, 1100, 1110, 112	20, and 1125 psig.
Reference Title	Facility Reference Number Referen	ce Section Page No. Revision
Main, Reheat, and Turbine Bypass Steam	205303-2	61
][]	
L.O. Number Objectives FRHS00E009 STMGENE008		
Material Required for Examination		
	Question Modification Method:	Used During Training Program
Question Source Comments		
Comment		

RO SkyScraper	SRO Skyscraper RO Sy	stem/Evolution List	RO System/Evo	lution Lis	Outline Ch	nanges							
Question Topic	RO 27												
Given the following	Given the following conditions:												
 Salem Unit 2 experienced a LOCA with failed fuel. Containment pressure peaked at 18 psig, and is currently 3 psig and slowly lowering. Containment radiation level is 1.1 E5 R/hr and rising very slowly. The TSC has not given the control room any direction on use of Adverse numbers while in the EOPs. 													
Which of the following describes how containment conditions will affect use of "Adverse" numbers while in the EOP's? Adverse numbers													
a. ARE; cont	ainment pressure rose above	4 psig.				*]					
b. ARE; radia	tion levels have reached the	ir threshold.											
c. ARE NOT;	the TSC has not provided a	ny direction yet.											
d. ARE NOT;	they reset on lowering conta	inment pressure and the r	adiation three	shold has	s not been reache	ed.							
Answer b I	Exam Level R Cogr	itive Level Comprehe	nsion Fa	cility:	Salem 1 & 2	ExamD	ate:	9/26/2011					
KA: 00WE16A202	EA2.2 RO Val	ue: 3.0 SRO Value:	3.3 Section	EPE	RO Group:	2 SRO 0	Group: 2	55.43					
System/Evolution	Title High Containment R	adiation						E16					
	bility to determine and interp dherence to appropriate proc												
Answers:	5.41(9,12,10) Adverse contai baches 1E5 R/hr. The Adver- idiation. The conditions in st eing exceeded.	se condition resets when c em are such that Adverse	containment p numbers hav	ve are in	lowers less than effect based on t	4 psig, but c he containm	loes NOT res	set on high 🛛 📋					
Use of Procedures	ference Title	CP-AA-101-111-1003	Number	Reterer	ice Section	Page No.	Revision 3						
]							
L.O. Number PROCEDE004	Objectives												
Material Required	for Examination]					
Question Source:	New	Question Modification I	Method:			Used Durin	ng Training	Program					
Question Source (Similar to NRC exam.	Exam questions from Sep	ot 2001 Coo <u>k</u>	exam,	Nov. 2002 Salem	n exam, Dee	c 2002 Beave	er Valley					
Comment													
, ,													

RO SkyScraper	SRO Skyscraper	RO System/Evolution List	SRO System/Evolution Li	t Outline C	hanges						
Question Topic	RO 28										
Given the followir	ng conditions:	1999									
 Unit 2 is operating at 100% power. A failure in the automatic Rod Control circuit cause Bank D Control rods to step in at 72 steps per minute. Control rods insert 20 steps before the RO places rod control in manual and rod motion stops. 											
Which of the following describes the effect of the rod insertion with NO other operator action?											
a. OHA E-8, ROD INSERT LMT LO will annunciate.											
b. Main Gene		ower and remain lower.									
c. RCS press	ure will lower and P	ZR Spray Valves will shut.									
d. RCS temp	erature will lower to	the RC Loops Tavg-Tref Devia	tion alarm setpoint of 1.5°l	<u></u>	-						
Answer C	Exam Level R	Cognitive Level Appl	cation Facility:	Salem 1 & 2	Exam	Date: 9/26/2011					
KA: 001000K302	K3.02	RO Value: 3.4* SRO Valu	Je: 3.5 Section: SYS	RO Group:	2 SRO	Group: 2 55.43					
System/Evolution	Title Control Ro	od Drive System				001					
	Knowledge of the eff	fect that a loss or malfunction of	of the Control Rod Drive Sy	vstem will ha∨e o	n the followi	ing:					
Answers:	not cause this alarm since the Governor v C is correct because	ct because the RIL for 100% p . B is incorrect because Main /alves will automatically open t the rod insertion will cause a due to maintaining one group.	Generator load will lower of o restore Turbine Steamlin lowering of RCS pressure	ue to lower stear e pressure to the sufficient to full c	n pressure, value corre lose the Spr	but it will not remain lower esponding to 100% power. ray valves, which are					
<u> </u>	ower, the setpoint o	f 1.5°F is wrong. 1.5° low Tav	g=Tref is when auto rod ou	tward motion wo	uld occur.						
R	eference Title	Facility Refer	ence Number Refere	nce Section	Page No.	Revision					
Continuous Rod M	lotion	S2.OP-AB.ROD-0	0003			21					
Overhead Annunc	iator Window E	S2.OP-AR.ZZ-00	05		11	19					
Control Console C	C2	S2.OP-AR.ZZ-00	12		36	35					
L.O. Number ABROD3E003 RODS00E019		ctives		-							
Material Required											
Question Source:		Question Modifica	tion Method:		Used Duri	ing Training Program					
Question Source	Comments										
Comment											
		<u> </u>									

RO SkyScra	per SRC) Skyscra	per	RO System	n/Evolution	List	SRO Syste	m/Evoluti	on List	Out	line Ch	anges			
Question To	opic RO	29													
Given the fo	llowing con	ditions:				· · · · · · · · · · · · · · · · · · ·									
- 2H 4KV 0 - 21 AFW t - SGBD flo	s operating Group bus d ripped imme w is zero to on monitors	eenergiz ediately all SGs.	ed upon upon sta	the Rx trip rting.).		caused a	Rx trip.							
During perfo	rmance of E	EOP-TRI	P-2, Re	actor Trip F	Response,	the RO re	ports that	21 SG N	VR lev	el is 8% h	igher th	an the oth	ier 3 stea	am ger	erators.
Whi <u>ch</u> of the	e following id	dentifies	what ha	s occurred	?										
a. A tub	e rupture ha	is occurr	ed on 2	1 SG.				······				4.4 4 -94			
b. Loss of 23 MAC Panel has caused SGFPs to supply uneven feed flow to the SGs.															
c. 21 SC	3 is steamin	g less th	nan the c	other gener	ators since	e its RCP	s no long	er runnin	ıg.						
d. The lo	oss of 21 AF	W pum	p has ca	used Pres	sure Overr	ide Protec	tion circui	t activati	ion on	22 AFW p	oump.				
Answer c	Exam	Level	R	Cognitiv	e Level	Compre	nension	Facili	ty:	Salem 1 &	2	Exam	Date:		9/26/2011
KA: 003000	K302	K3.02	F	RO Value:	3.5 SR	O Value:	3.8 Se	ction:	SYS	R0 Gr	oup:	1 SRO	Group:	1	55.43
System/Evol	ution Title	Read	tor Cool	ant Pump	System			-							003
KA Statemer	it: Knowle S/G	edge of t	he effect	that a los	s or malfur	nction of th	e Reacto	r Coolan	t Pum	p System	will hav	e on the f	ollowing:		
Answers:	no othe uncont the SG a differ circuit o	er reasor rolled, si TR distr ent Grou only affe	n for the nce it is acter if ti up bus, a cts 2 SC	level rise, the natura he candida and SGFP	as the diag I reaction o the does no flow has b case 21 an	pnostic ste of the redu of realize to een isolate	p asks if s ded stear de AEW p ed by FW	SG NR le ning rate ump aut at 554°	evel is a. SGI a star Tavg	rising und BD flow wa tisolated l following t	controlla as inclue alowedow he trip a	ibly. In th ded in the <u>vn 23 M/</u> anyway. T	is instan stem to AC pane he press	ce, it is lend s Lis now sure ov	upport to vered from
	Referen	woo itu usaal			.681.9282 . Zur 1	Referenc	e Numbe	r Re	eferen	ce Sectio	n	Page No.	Revis	lon	
1 Unit 4160V	Buses One	Line		2	03001							14	<u> 31</u>		
, and an	<u></u>		<u></u>			<u></u>		_		int interesting			<u> </u>		
L.O. Number	6	<u></u>	Objectiv	(CS)											
Material Req	uired for E	xaminat	ion												
Question So	<u></u>	ew		Qu	lestion Mo	odificatio	n Method	·				Used Dur	ing Trai	ning P	rogram
Question So	urce Comn	nents													
Comment									· · · · · · · · · · · · · · · · · · ·					,	

RO SkyScraper SRO Skyscraper RO Sy	stem/Evolution List	System/Evolution List Outline	Changes
Question Topic RO 30	· · · · · · · · · · · · · · · · · · ·		
Given the following conditions:		**************************************	
 Unit 2 is operating at 100% power. 2CC190, RCP THERM BAR CC OUTLET V, 	fails shut.		
Which one of the following describes the effect	on RCP temperatures, if any	y, as a result of this failure?	
ALL RCP			
a. lower motor bearing temperatures will ris	е.		
b. motor winding temperatures will rise.			
c. #1 seal leakoff temperatures will rise.			
d. bearing temperatures will remain the sar	ne.		
Answer d Exam Level R Cogr	itive Level Application	Facility: Salem 1 & 2	ExamDate: 9/26/2011
KA: 003000K604 K6.04 RO Val	ue: 2.8 SRO Value: 3	1 Section: SYS RO Group	1 SRO Group: 1 55.43
System/Evolution Title Reactor Coolant Pu	mp System		003
KA Statement: Knowledge of the of the effect Containment isolation valves a		the following will have on the Read	tor Coolant Pump System:
Answers: line inside containment splits, (inside containment) and 2CC upwards through the thermal b harrier would not affect any Ri	the CCW from the Thermal 131 (outside containment.) parrier upon a loss of seal in	Barriers has its own, separate retu The Thermal Barrier CCW flow act jection flow. With normal seal inject	A Thermal Barrier cooling. Once the Irrn line, which is isolated by the 2CC190 s to cool reactor coolant flowing tion, the loss of CCW to the thermal Page No. Revision
Reference Title			
L:0. Number Objectives RCPUMPE004 RCPUMPE015 RCPUMPE016 RCPUMPE016			
Material Required for Examination			
Question Source: Facility Exam Bank	Question Modification M	ethod: Direct From Source	Used During Training Program
Question Source Comments J-ROC30			
Comment	<u>te preze konte p</u>		

RO	SkyScraper	SRO	Skyscrap	er RO Sv	stem/Evolution List SRO S	vstem/Evol	ution List	Outline C	hanges			
Ques	tion Topic	RO 3	1]	
Whic	h of the fol	lowing wo	ould have	e the SMALLE	ST effect on CCW system hea	at load?						
a.	Terminat	ing RHR	during a	plant heatup.								
b.	b. Starting a RCP in MODE 4 while on RHR Shutdown Cooling.											
c.	1CV277,	Letdown	Isolation	n fails shut wit	n normal letdown in service in	MODE 2.						
d.	1CV132,	Excess L	etdown	FCV fails shut	with Excess Letdown in service	ce at maxi	mum flo	w in MODE 4.				
Answe	er d	Exam I	evel	R Cogr	itive Level Application	Fac	ility:	Salem 1 & 2	ExamD	Date:	9/26/2011	
	04000K62	1.2	K6.29	RO Val			455.42.1.1.9	RO Group:	. Tillior Walnut	Group: 1		
	n/Evolutio			Letents internie	ne Control System	<u></u>	2			·····	1 004	
1712 TANK 37.05	atement:	Ca. 27218.98.02.3			of a loss or malfunction on the	e following	will hav	e on the Chemic	al and Volu	me Control S		
		Reason	for exce	ss letdown an	d its relationship to CCWS							
Explar Answe	nation of ers:	55.41(3, auestion	5) The l	K/A match for porated both the	this was difficult as it seems to ne "effect of the malfunction" a	o be askin Ithough th	g for two ere isn't	o different things a malfunction lis	which woul sted, of an E	d make a ver Excess Letdov	y long wn (CVCS)	
10 m - 2 3 5 7	<u> - 10- 1983 - 19</u>	malfunct	tion and	its effect on th	he CCW system. B is incorrected em (bearing and winding coole	t because	the RC	P pump heat is a	a large load	on the RHR s	system AND	
		heat load	e seen a	s less than the	(max) 32 gpm Excess letdow	n flow los	s Aisi	ncorrect becaus	e it would ba	ave a large el	fect on total	
F. 47. 5 3.00. 63				2.4 St. 101 1978 ** C.1.5 **) 「ご見えこ」では日本日本日本の へんかく 4.2 でしておたが 5 Vero 、 く 、 」、 」、 一		* 2445. * 1 y m.	KARPE WROLD, AT THEN	- *** 2 # 5 ¥ 4	1 All March Street Barrier		
Chomi	12 45 4944 W 1 2004	Referenc	AT 51212 (11103)		Facility Reference Nur	nber	Referen	ce Section	Page No.			
	cal and Vo				205228-2					81 66,44,45		
						<u>- -</u> 				00,44,40		
]		
L.O. N			0	bjectives								
CVCS	00E015											
Materi	al Require	d for Ex	aminatio	on								
Questi	on Source	Nev	w		Question Modification Met	nod:			Used Duri	ng Training	Program	
Questi	on Source	Comme	ents								1	
Comm	ont						a (T. ag).					
		<u>a (a. 80) (a. 6</u>	4986 - 18 	i franciski se	<u> </u>		ta no seja					

RO SkyScraper SRO Skyscraper RO Sy	stem/Evolution List SRO System/Evolution List	Outline Changes
Question Topic RO 32		
Given the following conditions:		
 Unit 2 is operating at 100% power. 21 RHR pump is C/T to repair an oil leak. 22 SG Main Steamline ruptures in containme The crew trips the Rx, initiates a MSLI, and in 		
30 minutes after the Rx was tripped, which of t	he following locked in alarms would be consistent with	plant conditions?
a. OHA E-5, SR DET VOLT TRBL.		
b. OHA C-5, 21 CFCU WTRFLO TRBL.		
c. Console alarm RWST CH III (IV) LEVEL	LO.	
d. Console alarm CCW OUTLET FLOW LC	D for 21 RHR HX.	
Answer d Exam Level R Cogr	itive Level Comprehension Facility: Salem	1 & 2 ExamDate: 9/26/2011
KA: 005000G446 2.4.46 RO Val	ue: 4.2 SRO Value: 4.2 Section: SYS RO	Group: 1 SRO Group: 1 55.43
System/Evolution Title Residual Heat Remo	oval System	005
KA Statement:		
	are consistent with the plant conditions.	
Answers: shut, so the CCW lo flow alarr a trip. E-5 would be in alarm u	ise the CCW lo flow alarm would be present since the n will be locked in, as it normally is. A is incorrect becau intil the SR energized, then clear. B is incorrect becau wing a SEC signal. C is incorrect because RWST leve a containment	ause the SR will energize 20 minutes following ise it indicates the CFCU is running in low
Reference Title	Facility Reference Number	ction Page No. Revision
Overhead Annunciator Window E	S2.OP-AR.ZZ-0005	
Control Console 2CC1	S2.OP-AR.ZZ-0011	57
L.O. Number Objectives		
Material Required for Examination		
Question Source: New	Question Modification Method:	Used During Training Program
Question Source Comments		
Comment		
·		

RO	SkyScraper	SRO Skyscra	aper	RO System/Evolution I	ist SRO System	n/Evolution L	ist Outline Cl	nanges		
Que	stion Topi	C RO 33		······	neree to or tooono to don tabolio					
Unde	er which of	the following Un	it 2 condit	ions would an autom	natic start of the star	dby CCW p	oump be expected?	•		
a.	RWST le	vel reaches 15.2	2' while du	ring a LOCA.		······································				
b.	SW svst	em pumps in ser	vice are r	educed from 3 to 2.					1	
المستسا										
c.	CCW sys	stem is split duri	ng operati	ons in the EOP netw	vork.					
d.	2RH20, I	BYPASS VALVE	is opene	d to raise total RHR	system flow with 21	RHR loop o	perating in Shutdo	wn Cooling	mode.	
Answe	er a	Exam Level	R	Cognitive Level	Application	Facility:	Salem 1 & 2	ExamD	ate	9/26/2011
	005000K10			D Value: 3.2 SR		tion: SYS				1 55.43
ا اعتمر میں اور	m/Evolutio		i	Removal System						005
	atement:	I		al connections and/c	or cause-effect relati	onships bet	ween Residual He	at Removal	System and	
C		CCWS								
Explai Answe	nation of ers:	leg recirc. The	large (~8	level on Unit 2, the 2 ,000) gpm additional ould have been rese	CCW flow required	will auto st	art the CCW pump	in auto. By	the time th	nis level is
		pressure. B is	incorrect	but plausible if the re	educed SW flow wer	e though to	have a large impa	ct on CCW	system par	ameters. The
		through CCHX.	C is inco	prrect because the sp add to system flow	plitting of CCW syst	em headers	in LOCA-3 occurs	after the tra	ansfer to Cl	_R has been
				HR HX, so there wo						
	2	Reference Title		Facility	Reference Number	Refere	ence Section	Page No.	Revision	
Transf	fer to Cold	Leg Recirculatio	n	EOP-LOCA	-3				29	
]				
L.O. N	umber		Objective	s						_
ccwo	000E008									
RHR0	00E008									
Materi	al Require	d for Examinat	tion							
Questi	ion Sourc	e: New		Question Mo	dification Method:			Used Duri	ng Training	Program
Questi	ion Sourc	e Comments					**************************************			
Comm	ont .			n oppræssig solder						
501111										

RO SkyScraper RO Skyscraper RO Sky	tem/Evolution List SRO System/Evo	olution List Outline C	hanges								
Question Topic RO 34											
Given the following conditions:											
 During a SBLOCA in MODE 1, a Safety Injec RCS pressure is 2,000 psig and lowering slov 											
Which of the following describes how the Safety Injection pumps are prevented from overheating?											
a. A portion of discharge flow is recirculated back to the RWST.											
b. Injection flow from the RWST into the RC	S passes through the pump.										
c. Injection flow from the RWST into the RH	R system passes through the pump.										
d. A small portion of discharge flow is recirc	ulated to the suction of the pump throu	ugh a Recirculation Flow H	 IX.								
Answer a Exam Level R Cogn	tive Level Application Fa	cility: Salem 1 & 2	ExamDate:	9/26/2011							
KA: 006000K406 K4.06 RO Valu			1 SRO Grou								
System/Evolution Title Emergency Core Cod											
	Cooling System design feature(s) and	d or interlock(s) which pro	vide for the follow								
Recirculation of minimum flow		· · · · · · · · · · · · · · · · · · ·									
Answers: the pump cools it until the shut incorrect but plausible if the 2,0 shutoff bead of the pumps. C it	orificed 1 1/2" line off its pump discha normally open and deactivated MOVs off head for the SI pumps ~1560 psig 00 psig condition in the stem is ignore s incorrect but plausible if injection flor	s (SJ67 and SJ68) and ret is reaches as RCS pressu ed, as it is the normal flow whath is thought to join th	urn to the RWS1 ire lowers during path when RCS = RHR injection	Γ. The flow through the LOCA. B is pressure lowers to flow path, as it is							
	o join RHR system into RCS cold legs ically AFW) have recirculation coolers			s no recirculation							
Reference Title	Facility Reference Number	Reference Section	Page No. Re	vision							
Unit 2 Safety Injection	205334-1		58								
ECCS Simplified Drawing	205350-SIMP		4								
L.O. Number Objectives											
Material Required for Examination											
Question Source: New	Question Modification Method:		Used During T	raining Program							
Question Source Comments											
Comment											
	ан ул на на селото и протоко селото на с 2015 жива										

RO	SkyScrape	sRO	Skyscrap	ber	RO Sys	tem/Evolution L	ist	SRO Syste	n/Evolution I	ist C	outline Ch	anges		A 1001 MINUTE	
Que	stion Top	ROS	35												
Whi	ch of the f	ollowing re	elief valv	es liftin	g would a	ause a rise ir	Pressuri	zer Relief	Fank tempe	erature or	level?				
a.	RHR H	X outlet.													-
b.	SI pum	o discharg				<u> </u>									
	í						_								
c.	Seal W	ater Retur	n line.												
d.	Contain	ment Spra	ay Pump	discha	rge.										T
Answ	er c	Exam	Level	R	Cogni	tive Level	Memory		Facility:	Salem 1	1&2	 ExamDa	ate:	9/26/201	
KA:	007000A	301	A3.01		RO Valu	e: 2.7* SRC	D Value:	2.9 Se d	tion: SY	3 RO	Group:	1 SRO G	roup:	1 55.43]
Syste	m/Evolut	ion Title	Press	urizer F	Relief Tai	nk/Quench Ta	ank Syster	m						007	
KA St	atement:					rations of the the PRT	Pressuriz	er Relief	ank/Quend	h Tank S	ystem incli	uding:			Ţ
	nation of	55.41(3) The 3 (omponents w	hich used	to be dire	cted to the	PRT but v	were re-rou	uted to the c	containme	ent trench	壭
Answ	ers.	during a	a DCP.												
1-222-1			17 (Jack) 1971 - 101-	- nr. estrat. 74.1	21123000 4.1	Er		WY 1820 442	5 . 19 1				P 401311012778		ᅴ
	Init Reac	Reference tor Coolar	MARKED BOR . OCC.			205301-1	Reference	e Number	Refer	ence Sec	tion	Page No.	Revision	Ĩ	
						200001-1			<u>l</u>		.			-	
														j	
L.O. N	lumber) Dbjectiv	(Adapt										
1	RTE008	DY S. PER		Бјеси	ves										
PZRP	RTE003														
Mater	ial Requi	red for Ex	caminati	on	ļ										
	ion Sour		cility Exa		E	Question Mo	<u>den ban «</u>	<u>a en al de la compo</u> ne a	J	antly Mod	Là.	Used Durin	g Trainin	g Program [
Quest	ion Sour	ce Comm	ents	ision C	261390, i	nputs to PRT	, changed	l correct a	nswer and	all distrac	ters.				
Comn	nent				ni solon Recipient				Astak						1
	- <u></u>														

RO SkyScraper	SRO Skyscraper	RO System/Evolution List	SRO System/Evolu	ition List Outline C	hanges		
Question Topic	RO 36						
Given the following conditions:							
 Unit 2 is operating at 65% power. An intersystem leak develops between the CCW system and the Spent Fuel Pool Heat Exchanger. CCW Console Alarm SURGE TANK LEVEL HI-LO alarms on 2CC1. 							
Which of the following describes the action required IAW S2.OP-AR.ZZ-0011 Control Console 2CC1?							
a. Open local valves 2CC145 OR 2CC146, CC M/U VALVES to restore CC surge tank level.							
b. Open 2DR107, MAKE UP TO CC SURGE TANK from the Control Room to restore CC surge tank level.							
C Close 2CC149 CC SURGE TK VENT to prevent CCW from being introduced into the ventilation system.							
d. Drain the CCW surge tank from local drain valve to a 55 gallon drum to prevent overflowing tank to the in-service WHUT.							
Answer b Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011							
KA: 008000K408 K4.08 RO Value: 2.9 SRO Value: 2.7 Section: SYS RO Group: 1 S5.43							
System/Evolution Title Component Cooling Water System							
KA Statement: Knowledge of Component Cooling Water System design feature(s) and or interlock(s) which provide for the following:							
Operation of the surge tank, including the associated valves and controls							
Explanation of Answers: 55.41(7,8) The first thing that must be deduced is which way the leak will go. In this case, the SFP HX will be at a lower pressure than the CCW system, so the leak will be OUT of the CCW system. This causes surge tank level to go DOWN. The second part of the question requires the operator to know that CCW surge tank makeup is performed from the control console by opening the M/U valve. The local manual valves are normally aligned with one of them open so that remote operation can fill the CCW surge tank Actual K/A is K4.02 not 4.08 Wording is correct for 4.02 and that's what sample plan says							
R	eference Title	Facility Refere	ence Number 🔣 I	Reference Section	Page No.	Revision	
Component Cooling Water		205331-1				52	
Control Console 2CC1		S2.OP-AR.ZZ-00	11			57	
L.O. Number Objectives CCW000E008 CCW000E012							
Material Required for Examination							
Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program							
Question Source Comments VISION Q50370							
Comment							
1897 - ar - anno 1997 - ar - anno 1997 - ar - 1997 - anno 1997		age og de hjele slighe slevel angeles at som men men at som en		entra antico a constructiva a constructiva a constructiva a constructiva a constructiva a constructiva a constr			

RO SkyScraper	SRO Skyscraper RO Syst	em/Evolution List SRO System/Ev	olution List Outline C	hanges
Question Topic	RO 37			
Given the followin	g conditions:	in deserve and the second s		
 Both pressurize weeks due to s The PORVs are for the leaks cc Plant conditions RCS pressure i SI accumulator The RCS coold 	eat leakage past the PORVs (2 being maintained in MANUAL omplete. s develop which required a shut s being maintained at 800 psig rs. own continues to below 312°F.	, with ALL Tech Spec required action	IS	System (POPS) under these
	PR7 would OPEN; 2PR1 and 2	2PR2 would OPEN		
b. 2PR6 and 2	PR7 would OPEN; 2PR1 and 2	2PR2 would remain CLOSED		
c. 2PR6 and 2	PR7 would remain CLOSED; 2	2PR1 and 2PR2 would OPEN		
d. 2PR6 and 2	2PR7 would remain CLOSED; 2	2PR1 and 2PR2 would remain CLOS	ED	
	Exam Level R Cognit	ive Level Application	acility: Salem 1 & 2	ExamDate: 9/26/2011
real and the second				1 SRO Group: 1 55.43
KA: 010000A403 System/Evolution			Ko droup.	
	bility to manually operate and/ ORV and block valves			
	5.41(7) With pressure above 3 IANUAL selected for PR1 and	75 and temperature < 312, arming P 2.	OPS would cause the PR	1,2,5,6 to open, regardless of the
Re	ference Title	Facility Reference Number	Reference Section	Page No. Revision
PR1,2 PZR PORV	;	231357] <u></u>	
]
]]	·]]
L.O. Number	Objectives			
Material Required				
Question Source:	Facility Exam Bank	Question Modification Method:	Direct From Source	Used During Training Program
Question Source	Comments Vision Q87628			
Comment				
	<u></u>			

RO SkyScraper	SRO Skyscraper	RO Syst	em/Evolution List	SRO System/Evo	olution List Outline C	hanges	
Question Topic	RO 38						
With Unit 2 operation fail LOW, with no		% power, w	hat would be the e	ffect on RCS press	ure if the controlling PZR	pressure ch	nannel instrument were to
RCS pressure will							
b. lower until t	NE PORV opens. he Rx trips on OT / he Rx trips on Low	PZR pressu	ure.	0.2235 psig			
Answer a	Exam Level R	Cognit	tive Level Appl	ication Fa	cility: Salem 1 & 2	ExamD	
KA: 010000K301	K3.01	RO Value	e: 3.8 SRO Val	ue: 3.9 Section	: SYS RO Group:	1 SRO (Group: 1 55.43
System/Evolution	Title Pressurize	er Pressure	Control System				010
	nowledge of the eff	fect that a lo	oss or malfunction	of the Pressurizer	Pressure Control System	will have on	the following:
u 2 	ntil reaching the PZ 335. Since one of t orrect if pressure w	IR PORV set the channel rere to lower	etpoint of 2335 psig s is failed low, its f C is incorrect be	g. Only ONE POR PORV cannot open cause pressure we channel failure, ar	n response to the heaters V will open. PORV actua . B is incorrect because build rise, and OT/DT would ind be unable to respond to Reference Section	tion coincide pressure wo d.actuate.fir	ence is 2/2 channels > uld rise, but the trip is set to trip the Rx_D is pressure.
Pressurizer Pressu	re Malfunction	1000 032 11 50 50 53 80 20	S2.OP-AB.PZR-0	0001	Attachment 2	22	18
L.O. Number ABPZR1E001 Material Required		ctives					
Question Source:	Facility Exam B	Bank (Question Modifica	ation Method:	Editorially Modified	Used Duri	ng Training Program
Question Source		n Q80493, i ins the sam		cters so that all ch	oices did not include risin	g RCS press	sure. Correct answer
Comment							

Question Topic RO 39				
For each of the listed PZR heaters, identify	their 460V bus power supply.			
11 control group				
11 B/U group NORMAL				
11 B/U group EMERGENCY				
·				
12 B/U group NORMAL				
				
a. E, G, C, E, A.				
b. G, G, C, E, A.				
c. E, E, A, G, C.				
d. G, E, A, G, C.				
Answer b Exam Level R C	ognitive Level Memory	Facility: Salem 1 & 2	ExamDa	
KA: 011000K202 K2.02 RO	Value: 3.1 SRO Value: 3.2 S	ection: SYS RO Grou	o: 2 SRO G	roup: 2 55.43
System/Evolution Title Pressurizer Lev	el Control System			011
KA Statement: Knowledge of bus powers	upplies to the following:	·		
PZR heaters				
PZR heaters Explanation of 55.41(3,7)The distracters	upplies to the following:	n incorrect orders.		1
PZR heaters		n incorrect orders.		
PZR heaters Explanation of 55.41(3,7)The distracters		n incorrect orders.		
PZR heaters Explanation of 55.41(3,7)The distracters	all contain the possible busses, but in		Page No.	Revision
PZR heaters Explanation of Answers:	all contain the possible busses, but in Facility Reference Numb		Page No.	Revision 13
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont	all contain the possible busses, but in		Page No.	1 1 L 1 4 40 L 1 5 4 7 4 480
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1		Page No.	13
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup group	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1		Page No.	13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number Objectives	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1		Page No,	13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number Objectives	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1			13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup group	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1		Page No.	13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number Objectives	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1		Page No.	13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number Objectives	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1		Page No.	13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup group	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1	er Reference Section		13 9 3
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number PZRP&LE005 Material Required for Examination Question Source:	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1	er Reference Section		13 9
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number PZRP&LE005 Material Required for Examination Question Source:	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1	er Reference Section		13 9 3
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grouters CO. Number PZRP&LE005 Material Required for Examination Question Source: Facility Exam Bank Question Source Comments 0801 C39	All contain the possible busses, but in Facility Reference Numb colle 203347-1 203348-1 247992-1 Question Modification Metho	er Reference Section		13 9 3
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout L.O. Number PZRP&LE005 Material Required for Examination Question Source:	all contain the possible busses, but in Facility Reference Numb rolle 203347-1 203348-1 ps 247992-1	er Reference Section		13 9 3
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout O. Number PZRP&LE005	All contain the possible busses, but in Facility Reference Numb colle 203347-1 203348-1 247992-1 Question Modification Metho	er Reference Section		13 9 3
PZR heaters Explanation of Answers: 55.41(3,7)The distracters Reference Title No. 1 Unit 1GP 480V bus PZR heaters cont No 1 Unit Backup Group 11 No 1 & No 2 Units Group 12/22 backup grout O. Number PZRP&LE005	All contain the possible busses, but in Facility Reference Numb colle 203347-1 203348-1 247992-1 Question Modification Metho	er Reference Section		13 9 3

RO SkyScraper	SRO Skyscraper RO Sys	stem/Evolution List	SRO System/Evol	ution List	Outline Ch	nanges	
Question Topic	RO 40						
Which of the follo Safety Injection, f	wing identifies why a Safety In ollowing a LOCA?	jection signal on Un	it 2 is reset early in	the EOPs af	ter transition	out of EOP	-TRIP-1, Rx Trip or
SI is reset becaus	e						
a. the Phase criteria hav	A signal must be reset to allov e been met, and Phase A can	not be reset until the	suction valves to be e SI signal is reset.	realigned fr	om the RWS	I to the VC	Tatter SI termination
b. it allows op 15.2'.	erators to regain control over	plant equipment and	l prevents any equip	ment from a	automatically	repositionir	ng when RWST reaches
c. the Phase <i>i</i>	A signal must be reset to allow	v sampling of the SC	Gs and RCS, and Pr	nase A cann	ot be reset u	ntil the SI si	gnal is reset.
d it allows op	erators to regain control over	plant equipment and	l restore a sustained	d compresse	ed air supply	to containm	ent.
Answer d	Exam Level R Cogn	itive Level Mem	iory	ility: Sale	m 1 & 2	ExamD	9/26/201
KA: 012000G406	2.4.6 RO Valu	ie: 3.7 SRO Valu	ue: 4.7 Section:	SYS	RO Group:	1 SRO C	Group: 1 55.43
System/Evolution	Title Reactor Protection S	ystem			-		012
KA Statement:	nowledge of EOP mitigation s	trategies.					
Answers:	5.41(7)The Phase A signal C/ ocument states that the SI res llow control of air operated eq ecause the reason and the Pt thich will reposition the S1113	set function is so the uipment in containm nase A reset logic is	at equipment can be nent (e.g., charging incorrect. B is inco	aligned, an and letdown	d to restore a valves, PZR se it does not sautomatical	sustained, PORV's, e remove the	compressed air supply to tc.) A is wrong both e standing "S" signal
-a. moleck as within, end a - administration	Signal Safeguards actuation	221057		<u>avana, vasa mining</u> a	2 <u>0.100000.000</u>		22
Loss of Reactor Co	olant Bases Document	2-EOP-LOCA-1				18	28
	······································						
L.O. Number	Objectives						
Material Required	for Examination						
Question Source:		Question Modifica	tion Method:			Used Duri	ng Training Program
Question Source (Comments						
Comment							

RO SkyScraper SRO Skyscraper RO Syst	tem/Evolution List SRO System/Evo	olution List Outline C	nanges		
Question Topic RO 41	n anna an Ioddiddor a tha ann an 1997 ann an 1				
During a power ascension from an initial power le	evel of 4%, Permissive P-10 does not	actuate when expected.	A		
Which of the following describes the effect of this power?	s malfunction on the Reactor Protectio	n System if the power as	cension were	e to continue to	14% Rx
a. A valid OT/DT signal would NOT trip the F	Rx.			w	
					l
b. High Steam Flow Safety Injection will rem					
C. A Loss of Off-Site power would NOT initia	Ily cause the RPS to trip the Rx.				
d. The low power Rx trips could NOT be bloc	ked until P-13 energized during Main	Turbine startup.			
Answer C Exam Level R Cognit	tive Level Comprehension Fa	cility: Salern 1 & 2	ExamD	ate:	9/26/2011
KA: 012000K406 K4.06 RO Value	e: 3.2 SRO Value: 3.5 Section	SYS RO Group:	1 SRO 0	Sroup: 1	55.43
System/Evolution Title Reactor Protection Sy	vstem				012
	n System design feature(s) and or int	erlock(s) which provide fo	r the followin	ıg:	
Automatic or manual enable/dis	able of RPS trips the low power trips can NOT be block	cod upfil P 10 is potuated	C is corror	t bacques the "	
Answers: Rx trips (which are different from	n the "low power" trips) are not unbloc	ked until P-7 is actuated,	which gets i	ts input from eit	ther P-
pumps will have been secured,	(which is not actuated because the and while the loss of off site power wi	Il cause a loss of the SGF	Ps, the SGs	will not shrink	to the lo
unblocked >543 (P-12.)	rrect because OT/DT action is always	available. R is incorrect.	because the	hi Stm FIA Si is	، ا
Reference Title	Facility Reference Number	Reference Section	Page No.	Revision	
RPS logic	221053			8	
RPS logic	221054		J	10	
]		
L.O. Number Objectives					
RXPROTE028					
RXPROTE027					
Material Required for Examination					
Question Source: Facility Exam Bank	Question Modification Method:	Direct From Source	Used Durir	ng Training Pro	ogram
Question Source Comments 0801 C41					
Comment					
		<u></u>			

.

RO SkyScraper	SRO Skyscraper RO Syst	em/Evolution List SRO System/Ev	volution List Outline Changes
Question Topi	c RO 42		
Given the follow	ving conditions:	Mala	
- 11 SGFP is i - 12 SGFP is l	wer is 8.1%. ng raised slowly in preparation for n service supplying FW to SGs. atched and at idle speed. Imps are aligned for normal stand	Ū.	
11 SGFP trips.			
1	llowing describes the effect, if any	this will have on the AFW pumps v	with NO operator action?
a. The MD/	AFW pumps and the TDAFW pum	np will start when SG levels drop to th	he lo lo level setpoint.
b. The MD/	AFW pumps will start when 11 SG	FP trips. The TDAFW pump will star	rt when SG levels lower following the Rx trip.
c. ALL AFV SGFP.	V pumps will remain in standby.	Sufficient steam will be supplied throu	ough the 11-14MS18s, MS STOP BYP VALVES to supply 12
	V pumps will remain in standby.	12 SGFP will remain in service since	e at this power level it is being supplied with steam from the
Answer a	Exam Level R Cogni	and the construction of th	acility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 013000A10	04 A1.04 RO Value	e: 3.4 SRO Value: 3.6 Section	
System/Evolution		atures Actuation System	013
KA Statement:	Ability to predict and/or monitor controls including: S/G level	changes in parameters associated w	with operating the Engineered Safety Features Actuation System
Explanation of Answers:	step 5.4.10), and 12 SGFP will a operator action so speed will no the source of FW is lost, and the	not provide sufficient discharge press t be raised. A is correct because th e SGs continue to steam. C is incor r, but the speed will not rise on 12 S(aced on Main steam supply prior to exceeding 5% power (IOP-3, sure at 1100 rpm (idle speed), and the stem states with no the MDAFW pumps and TDAFW will start on Io Io level in SGs as prect because the MS18s could provide sufficient steam flow to SGEPB is incorrect because the auto start signal for the
	Reference Title	Facility Reference Number	Reference Section Page No. Revision
RPS AFW Pump	U. L. L. L. N. 1991 C. M. Brenzerkov, S. L. M	221064	
L.O. Number	Objectives		
Material Requir	ed for Examination		
Question Source	e: Facility Exam Bank	Question Modification Method:	Editorially Modified Used During Training Program
Question Source		Modified stem from MSLI to trip of o ne. Enhanced distracters.	operating SGFP with other SGFP latched. Correct answer
Comment			

Question	Topic RO	43				_							
Given the	following cor	ditions:				-							· · · · · · · · · · · · · · · · · · ·
	0												
	s operating at leak causes				p. lower rapidly	•							
 The ope 	erating crew i	nitiates a	Rx trip	and Safe	ty Injection.								
	ne SI is initial			·									
	e after the lo if no further o				of the followi	ng describes a	a condition wh	ich in	idicates a failure	of equipme	ent to actu	late as	
chpoolou, i													
												<u></u>	
a. NO	CCW pumps	are runn	ung.										
b. 24 S	SW pump rur	ning and	23 SV	V pump sto	opped.								
L						territ territoria							
c. Cha	arging System	is SI Flov	wmeter	reads 100) gpm.								
d. 21 A	ABV Supply I	an runni	ng, 22	ABV Sup	ply Fan NOT	running.							
nswer	Exam	Level	R	Cognit	ive Level	Comprehensio	on Facilit	y; [Salem 1 & 2	Exam	Date:		9/26/2011
(A: 01300	00A401	A4.01		RO Value	4.5 SRC	Value: 4.8	Section:	SYS	RO Group:	1 SRO	Group:	1	55.43 🗌
vstem/Evo	olution Title	Enair	neered	Safety Fe	atures Actuat	ion System	-						013
A Stateme	·······												
A Statem		to manus		arato and/c	r monitor in f	the control roo	m·						
					or monitor in t h fails to actu	the control room uate	m:						
xplanatio	ESFA	S-initiateo	d equip	ment whic	h fails to actu	uate	W.g	ackou	it). 24 SW pum	p is designa	ited as the	e Lead	SW pump
kan Kambalahatan Kabupatén	ESFA n of 55.41(on B 4	S-initiatec 7) CCW KV bus, a	d equip pumps and on	ment whic s are not s ly one pun	h fails to actu tarted during np per bus is	uate MODE III (Acc started, 23 rec	cident plus Bla	from I	it). 24 SW pum B bus also. 22	ABV Supply	/ Fan is ad	dminist	ratively
k ma Maadonbelo taalidatiin.	ESFA	S-initiated 7) CCW KV bus, a out, and	d equip pumps and on is wha	ment whic s are not s ly one pun at causes t	h fails to actu tarted during np per bus is he B bus seq	MODE III (Acc started, 23 rec uence not con	cident plus Bla ceives power nplete to occu	from l ir on e	B bus also. 22 every SI initiatio	ABV Supply n. The Cha	/ Fan is ad	dminist tems S	ratively
kan Kambalahatan Kabupatén	ESFA n of 55.41(on B 4 locked flown	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the	d equip pumps and on i is wha T flow.	ment whic s are not s ly one pun at causes t 2 centrifu would be si	h fails to actu tarted during np per bus is he B bus seq gal charging phificantly big	uate MODE III (Acc started. 23 rec juence not con pumps should pher. Either th	cident plus Bla ceives power nplete to occu have started, were is a probl	from for ir on e and e am.wi	B bus also. 22 every SI initiatio even if RCS pre ith the flownath.	ABV Supply n. The Cha ssure were <u>i.e. S.112 a</u>	/ Fan is ad irging syst normal, v nd S.I13 F	dminist tems S vhich it SIT_out	tratively I s not, the let valves
kan Kambalahatan Kabupatén	ESFA on of 55.41(on B 4 locked flown flown did no	S-initiated 7) CCW KV bus, a out, and eter is BI rough the t stroke fu	d equip pumps and on l is wha T flow. BIT w ull oper	ment whic s are not s ly one pun at causes t 2 centrifu could be si n, or less t	h fails to actu tarted during np per bus is he B bus seq gal charging goificantly big han 2 chargir	MODE III (Acc started. 23 rec juence not con pumps should ober. Either th ng pumps start	cident plus Bla ceives power nplete to occu have started, were is a probl	from for ir on e and e am.wi	B bus also. 22 every SI initiatio even if RCS pre	ABV Supply n. The Cha ssure were <u>i.e. S.112 a</u>	/ Fan is ad irging syst normal, v nd S.I13 F	dminist tems S vhich it SIT_out	tratively I s not, the let valves
kan Kambalahatan Kabupatén	ESFA on of 55.41(on B 4 locked flown flown did no	S-initiated 7) CCW KV bus, a out, and eter is BI rough the t stroke fu	d equip pumps and on l is wha T flow. BIT w ull oper	ment whic s are not s ly one pun at causes t 2 centrifu could be si n, or less t	h fails to actu tarted during np per bus is he B bus seq gal charging phificantly big	MODE III (Acc started. 23 rec juence not con pumps should ober. Either th ng pumps start	cident plus Bla ceives power nplete to occu have started, were is a probl	from for ir on e and e am.wi	B bus also. 22 every SI initiatio even if RCS pre ith the flownath.	ABV Supply n. The Cha ssure were <u>i.e. S.112 a</u>	/ Fan is ad irging syst normal, v nd S.I13 F	dminist tems S vhich it SIT_out	tratively I s not, the let valves
hun Kasistalu tahukia	ESFA n of 55.41(on B 4 locked flow th did no A show	S-initiated 7) CCW KV bus, a out, and eter is BI rough the t stroke fu	d equip pumps and on l is wha T flow. BIT w ull oper	ment whic s are not s ly one pun at causes t 2 centrifu could be si n, or less t	h fails to actu tarted during np per bus is he B bus seq gal charging <u>chificantly bio</u> han 2 chargir ackout loads	MODE III (Acc started. 23 rec juence not con pumps should ober. Either th ng pumps start	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre ith the flownath.	ABV Supply n. The Cha ssure were i.e. <u>S.112 a</u> age 2 flowc Page No	v Fan is ac Irging sys normal, v nd S.113 F harts, pag	dminist tems S which it SIT out ge 1, e	tratively I s not, the let valves
nswers:	ESFA n of 55.41(on B 4 locked flow th did no A show	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on l is wha T flow. BIT w ull oper	ment whic s are not s ly one pun at causes t 2 centrifu could be si n, or less t	h fails to actu tarted during np per bus is he B bus seq gal charging <u>chificantly bio</u> han 2 chargir ackout loads	MODE III (Acc started. 23 rec juence not con pumps should her. Either th ig pumps start respectively.	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e S 112 a age 2 flowo	v Fan is ac Irging sys normal, v nd S.113 F harts, pag	dminist tems S which it SIT out ge 1, e	tratively I s not, the let valves
nswers:	ESFA n of 55.41(on B 4 locked flowm flow th did no A show Referer Safety Injectio	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on l is wha T flow. BIT w ull oper	ment whic s are not s ly one pun at causes t 2 centrifu could be si n, or less t	h fails to actu tarted during pp per bus is he B bus seq gal charging golficantly hig han 2 chargir ackout loads	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i.e. <u>S.112 a</u> age 2 flowc Page No	v Fan is ad rging sys: normal, v nd S.113 F sharts, pag	dminist tems S which it SIT out ge 1, e	tratively I s not, the let valves
Answers:	ESFA n of 55.41(on B 4 locked flowm flow th did no A show Referer Safety Injectio	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on l is wha T flow. BIT w ull oper	ment whic s are not s ly one pun at causes t 2 centrifu could be si n, or less t	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S which it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res	ESFA n of 55.41(on B 4 locked flown th did no A show Referent Safety Injection sponse	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on is wha T flow. BIT w ull oper ent Loa	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Ax Trip or S Ax Trip Res	ESFA n of 55.41(on B 4 locked flown th did no A show Referent Safety Injection sponse	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on l is wha T flow. BIT w ull oper	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res .O. Numbe	ESFA n of 55.41(on B 4 locked flowm flowm flow flow did no A shoo Referent Safety Injection sponse er	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on is wha T flow. BIT w ull oper ent Loa	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res .O. Numbe	ESFA n of 55.41(on B 4 locked flowm flowm flow flow did no A shoo Referent Safety Injection sponse er	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on is wha T flow. BIT w ull oper ent Loa	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res .O. Numbe	ESFA n of 55.41(on B 4 locked flowm flowm flow flow did no A shoo Referent Safety Injection sponse er	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu ws Accide	d equip pumps and on is wha T flow. BIT w ull oper ent Loa	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00	ESFA n of 55.41(on B 4 locked flowmth did no A show Referer Safety Injection sponse er	S-initiated T) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide on CE Title	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00	ESFA n of 55.41(on B 4 locked flowm flowm flow flow did no A shoo Referent Safety Injection sponse er	S-initiated T) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide on CE Title	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ment which s are not s ly one pun t causes t 2 centrifu would be si n, or less t uds and Bla	h fails to actu tarted during np per bus is he B bus seq gal charging gnificantly hig han 2 chargir ackout loads Facility I 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a probl ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	r Fan is ac rging sys normal, v nd S.113 F charts, pac Revisi	dminist tems S vhich it SIT out ge 1, e	tratively I s not, the let valves
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00 Material Re	ESFA nof 55.41(on B 4 locked flowma flow th did no A show Referer Safety Injection sponse er 04	S-initiated T) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide on CE Title	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during per bus is he B bus sequencies of the sequence of the sequenc	MODE III (Acc started. 23 rec juence not con pumps should ober Either th ng pumps start respectively. Reference Nu	cident plus Bla ceives power nplete to occu have started, here is a problect ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i e. S.112 a age 2 flowc Page No. F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the let valves ach Table
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00 SEC000E00 Material Re Question S	ESFA nof 55.41(on B 4 locked flowma flow th did no A show Referer Safety Injection sponse er 04	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide nce Title on	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during per bus is he B bus sequencies of the sequence of the sequenc	MODE III (Acc started. 23 req juence not con pumps should <u>yher Either th</u> ig pumps start respectively. Reference Nui 2-1 2-2	cident plus Bla ceives power nplete to occu have started, here is a problect ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i.e. S.112.a age 2 flowc Page No F1 F1 F1 F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the let valves ach Table
Rx Trip Res O. Numbe SEC000E00 Material Re Question S	ESFA nof 55.41(on B 4 locked flowm flow th did no A shou Referen Safety Injection sponse er 04	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide nce Title on	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during per bus is he B bus sequencies of the sequence of the sequenc	MODE III (Acc started. 23 req juence not con pumps should <u>yher Either th</u> ig pumps start respectively. Reference Nui 2-1 2-2	cident plus Bla ceives power nplete to occu have started, here is a problect ted. TRIP-1 p	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath 1, and TRIP-2 p	ABV Supply n. The Cha ssure were i.e. S.112.a age 2 flowc Page No F1 F1 F1 F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the let valves ach Table
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00 SEC000E00 Material Re Question S	ESFA nof 55.41(on B 4 locked flowm flow th did no A shou Referen Safety Injection sponse er 04	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide nce Title on	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during he per bus is he B bus seq golficantly hig han 2 charging ackout loads 2-EOP-TRIF 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not com pumps should her. Either th ng pumps start respectively. Reference Nui 2-1 2-2	thod:	from f r on e and i age 1 feren	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath, 1, and TRIP-2 p rce Section	ABV Supply n. The Cha ssure were i.e. S.112.a age 2 flowc Page No F1 F1 F1 F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the let valves ach Table
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00 Material Re Question S Question S	ESFA nof 55.41(on B 4 locked flowm flow th did no A shou Referen Safety Injection sponse er 04	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide nce Title on	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during he per bus is he B bus seq golficantly hig han 2 charging ackout loads 2-EOP-TRIF 2-EOP-TRIF	MODE III (Acc started. 23 req juence not con pumps should <u>yher Either th</u> ig pumps start respectively. Reference Nui 2-1 2-2	thod:	from for and for and for and for and for and for any formation of the second se	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath, 1, and TRIP-2 p rce Section	ABV Supply n. The Cha ssure were i.e. S.112.a age 2 flowc Page No F1 F1 F1 F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the let valves ach Table
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00 Material Re Question S Question S	ESFA nof 55.41(on B 4 locked flowm flow th did no A shou Referen Safety Injection sponse er 04	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide nce Title on	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during he per bus is he B bus sequences golficantly hig han 2 charging ackout loads 2-EOP-TRIF 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not com pumps should her. Either th ng pumps start respectively. Reference Nui 2-1 2-2	thod:	from f r on e and i age 1 feren	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath, 1, and TRIP-2 p rce Section	ABV Supply n. The Cha ssure were i.e. S.112.a age 2 flowc Page No F1 F1 F1 F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the <u>let valves</u> ach Table
Answers: Rx Trip or S Rx Trip Res O. Numbe SEC000E00 Material Re Question S Question S	ESFA nof 55.41(on B 4 locked flowm flow th did no A shou Referen Safety Injection sponse er 04	S-initiated 7) CCW KV bus, a out, and eter is BIT rough the t stroke fu vs Accide nce Title on	d equip pumps and on is wha flow. BIT w ull oper ent Loa	ives	h fails to acturate during he per bus is he B bus sequences golficantly hig han 2 charging ackout loads 2-EOP-TRIF 2-EOP-TRIF	MODE III (Acc started. 23 rec juence not com pumps should her. Either th ng pumps start respectively. Reference Nui 2-1 2-2	thod:	from f r on e and i age 1 feren	B bus also. 22 every SI initiatio even if RCS pre- ith the flownath, 1, and TRIP-2 p rce Section	ABV Supply n. The Cha ssure were i.e. S.112.a age 2 flowc Page No F1 F1 F1 F1	/ Fan is ad rging sysimormal, word SU13 F charts, page Revising 27 27 27	dminist tems S vhich it 31 out ge 1, e	tratively s not, the <u>let valves</u> ach Table

RO SkyScraper	SRO Skyscraper RO	System/Evolution List	SRO System/Evolution I	ist Outline	Changes	
Question Topic	RO 44					
Given the following	g conditions:					
- A small LOCA (operating at 100% power. 300 gpm) occurs, and a R e power occurs when the N FCUs start in Low Speed.	x trip and Safety Injecti /ain Turbine trips.	on are initiated.			
How will the failure	e of the CFCUs affect cont will be reading				in consider	
a. Pressure; I			would be expected to read			
b. Radiation;	higher.		annan an an Anna an Ann		an an ann an san san san san san san san	·]
c. Dew Point;	lower.		111			
·						
d. CFCU Leak	Detection; higher.					
Approve		gnitivo Lovol	Facility:	- Salem 1 & 2	ExamDate: -	9/26/2011
KA: 022000K302	K3.02	/alue: 3.0 SRO Val	Je: 3.3 Section: SY	B RO Group	SRO Group:	1 55.43
System/Evolution	Title Containment Coo	ling System				022
	nowledge of the effect tha containment instrumentation		of the Containment Coolir	ig System will ha	we on the following:	
Answers: p la h	5.41(5,7)The CFCU HEPA articulate matter from the ick of cooling function provi gher temperature in conta pils during an accident no	atmosphere so that offs vided by the CFCU will inment. D is incorrect	site doses do not exceed t cause the pressure to rise	he limits set by 1 e. C is incorrect l	10CFR100. A is incorrect because the Dew Point v	t because the will rise due to
Re	ference Title	Facility Refer	ence Number Refer	ence Section	Page No. Revision	ı,
Containment and S	upport Lesson Plan	NOS05CONTMT				Ī
Containment Ventil	ation Operation	S2.OP-SO.CBV-0	0001		32	<u> </u>
						Ĵ
L.O. Number	Objectives					
Material Required	for Examination	-				
Question Source:	New	Question Modifica	tion Method:		Used During Trainin	g Program
Question Source (Comments				•	
Comment						

RO SkyScraper SRO Skyscraper RO Syst	em/Evolution List SRO System/Evo	lution List Outline Ch	anges
Question Topic RO 45			
Given the following conditions:	and an		
 Unit 1 has experienced a LOCA. Control room operators have progressed to the Containment pressure was 4.5 psig when the 			
Which of the following describes the containmen accident?	t spray system response should a hi-h	i containment pressure si	gnal be generated at this point in the
CS system valves			
		· · · · · · · · · · · · · · · · · · ·	
a. would realign for spray, the CS pumps wo	uid be started by the SEC.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
b. would realign for spray, the CS pumps wo	uld have to be manually started.		
c. must be manually realigned for spray, the	CS pumps would be started by the SE	EC.	
d must be manually realigned for spray, the	CS pumps would have to be manually	v started.	
Answer b Exam Level R Cognit	ive Level Application Fa	cility: Salem 1 & 2	ExamDate: 9/26/2011
KA: 026000A301 A3.01 RO Value	e: 4.3 SRO Value: 4.5 Section	SYS RO Group:	1 SRO Group: 1 55.43
System/Evolution Title Containment Spray S	ystem		. 026
	rations of the Containment Spray Sys	tem including:	
Pump starts and correct MOV p Explanation of 55.41(7) The SEC controller ope	ositioning erates the CS pumps at 2 different po	int in the sequence UNITI	the SEC is reset. The SEC ONLY
Answers: controls the CS pumps, not the	CS valves. The valves realign on the CS pumps since the sequencer is no	hi-hi cont pressure signal	whenever it is received, but once the
Reference Title	Facility Reference Number	Reference Section	Page No. Revision
RPS Safeguards Actuation Signal	221057		22
Safeguards Emergency Loading Sequence	203668		6
SEC Lesson Plan (CS pump start seq explanati	NOS05-SEC000		17 6
L.O. Number CSPRAYE008 CSPRAYE009			
Material Required for Examination		·	
	Question Modification Method:	Direct From Source	Used During Training Program
Question Source Comments VISION Q80567			
Comment			
	<u>n en populari no esta en en la sun ora a populari se pa</u>		

RO S	kyScraper	SRO	Skyscra	per	RO Syst	em/Evolutio	n List	SRO System/I	volution Lis	t Outl	line Cha	anges		<u></u>
Quest	ion Topic	RO 4	6											
Which	n of the foll	owing id	entifies	the coi	ncidence	required fo	r manual Co	ontainment S	pray actuat	ion?				
a.	1/2 keysv 2/2 keysv													
b.	2/2 KeySv			T Saley										
c.	1/2 keysw	vitches o	n EITH	ER safe	eguards tr	ain.								
d.	2/2 keysv	vitches o	n EITH	ER safe	eguards tr	ain.								
Answe	r d	Exam	Level	R	Cogni	tive Level	Memory		acility	Salem 1 &	2	Exam	Date:	9/26/2011
KA: 0	26000A40	1	A4.01		RO Valu	e: 4.5 S	RO Value:	4.3 Secti	on: SYS	RO Gr	oup:	1 SRO	Group:	1 55.43
System	n/Evolutio	on Title	Cont	ainmen	t Spray S	ystem								026
KA Sta	tement:	Ability to CSS co		ally ope	erate and/	or monitor	in the contro	ol room:						
Explan Answe	nation of rs;	kevswit	ches tu ccur if	irned sir it were i	multaneou inadverter	usly to the o	operate posi	hich perform tion to activa being require	te containn	nent spray	, due to eguards	the sever will perfor	e conseque m actuatio	ences which
134644	1111178 <u>- 100 S</u>	Referenc	Charles warring and			1114 - 10 11031 - 20 1113 - 60	ty Referenc	e Number	Referer	nce Sectio	n	Page No.		
RPS S	afeguards	Actuatio	on Sign	ai		221057		·····	<u>_</u>		.		22	<u>_ </u>
<u></u>	umber AYE008			Object	ives		t							
Materia	al Require	d for E	kamina	tion										
Questi	on Sourc	e: Fa	cility E	xam Ba	nk	Question M	Modification	n Method:	Concept	Used		Used Dur	ing Trainir	ng Program
Questi	on Source	e Comm	ients	VISIO	N 61822 c	concept use	ed.							
Comm	ent													

RO SkyScraper	SRO	Skyscraper	RO Sys	tem/Evolution List	SRO System/Evo	lution List	Outline C	hanges		
Question Topic	RO 4	7	_							
Of the following, Spent Fuel Pool		ne describe	s how the S	pent Fuel Pool level will	I be lowered if re	equired, l	AW S1.0P-SO.	SF-0001, Fi	II and Transfe	er of the
b. Pumped	with Spe with Refu	ueling Water	Cooling pur	mp to RWST.		rice CVCS	S HUT.			
Answer	Exam	Level	Cogni	tive Level Memory	Fac	ility: S	alem 1 & 2	ExamD)ate:	9/26/2011
KA: 033000K10	5	K1.05	RO Valu	e: 2.7* SRO Value:	2.8* Section:	SYS	RO Group:	2 SRO (Group: 2	55.43
System/Evolutio	n Title	Spent Fu	el Pool Cool	ing System	-					033
KA Statement:	Knowled	dge of the p	hysical conr	ections and/or cause-e	effect relationshi	ps betwe	en Spent Fuel F	Pool Cooling	System and	the following:
Explanation of	RWST			al level is ~41'. The pu		W ^A				
Answers:	RWST i the RW	s done by n ST. The oth uel Pool sys ed by proce	nanipulating her method i tem_but it c	hough it will work comin valves within the SFP s to drain it to the CVC ould physically dischar would drain to the Fuel	Cooling system S HUT. The Re oe to the SEP s I Handling Bldg	, and pun fueling W ystem _ F sump, no	ping the water ater Purificatior raining via the	with the Spe n pump canr SEP Skimm	ent Fuel Pool not take a sue	pumps to
Fill and Transfer	of the Sp	ent Fuel Po	ol	S1.OP-SO.SF-0001					19	
Unit 1 Spent Fue	Cooling			205223					26	
Tank Capacity Da	ata			S1.OP-TM.ZZ-0002					8	
L.O. Number		Obje	ctives							, ,
Material Require	d for Ex	amination								
Question Source	e: Ne	W		Question Modification	n Method:			Used Duri	ng Training	Program
Question Source	e Comm	ents								
Comment										

RO SkyScraper SRO Skyscraper RO Syst	em/Evolution List SRO System/Ev	olution List Outline C	hanges		
Question Topic RO 48					
Unit 1 is performing a plant startup to full power.			1. 1. 1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
Which of the following identifies how SG NR leve	l is programmed?	1			
a. From 0-20% power NR level will rise from	33% to 44%. From 20-100% power,	NR level will rise to 48%.			
b. From 0-20% power NR level will rise from	33% to 44%. From 20-100% power,	NR level will remain at 44	%.		
From 0-40% power NR level will rise from	33% to 44%. From 40-100% power,	NR level will rise to 48%.			
d. From 0-40% power NR level will rise from	33% to 44%. From 40-100% power,	NR level will remain at 44	%.		
Answer a Exam Level R Cognit	ive Level Memory	salem 1 & 2	ExamD	ate:	9/26/2011
KA: 035000A101 A1.01 RO Value	: 3.6 SRO Value: 3.8 Section	n: SYS RO Group:	2 SRO 0	Group: 2	55.43
System/Evolution Title Steam Generator Sys	tem				035
	changes in parameters associated w I during startup, shutdown, and norm		enerator Sys	stem controls	including:
Explanation of 55.41(4) There are 2 parts to the	Unit 1 SG NR level program. 0-20		100 it rises fr	rom 44-48. C	n Unit 2, it
Answers rises from 33-44% as described	above, then remains at 44%.				1
Reference Title	Facility Reference Number	Reference Section	Page No.	Revision	
Main Feedwater/Condensate System Abnormalit	S1.OP-AB.CN-0001		21	18	
Main Feedwater/Condensate System Abnormalit	S2.OP-AB.CN-0001		21	26	
			<u>_</u>	<u>_</u>	
L.O. Number					
STMGENE007					
ADFWCSE015					
			ĩ		
Material Required for Examination]
Question Source: Facility Exam Bank	Question Modification Method:	Concept Used	Used Duri	ng Training F	Program
Question Source Comments					1
Comment					
		L			
•					

RO SkyScraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topic RO 49
Given the following conditions:
 Unit 2 is operating at 50% power. 24MS167, Main Steam Isolation Valve Fast Close PB is depressed on the control console.
Assuming the reactor does NOT trip, which of the following describes the initial response of RCS Delta-T and SG pressure in the AFFECTED loop?
a RCS Delta-T rises and SG steam pressure rises.
b. RCS Delta-T rises and SG steam pressure lowers.
C. RCS Delta-T lowers and SG steam pressure rises.
d RCS Delta-T lowers and SG steam pressure lowers.
Answer c Exam Level R Cognitive Level Comprehension Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 039000A106 A1.06 RO Value: 3.0 SRO Value: 3.1 Section: SYS RO Group: 1 SRO Group: 1 55.43
System/Evolution Title Main and Reheat Steam System 039
KA Statement: Ability to predict and/or monitor changes in parameters associated with operating the Main and Reheat Steam System controls including: Main steam pressure
Explanation of 55.41(5) The unaffected SG's and therefore RCS loops provide the same amount of energy to the turbine - raising RCS D/T and Answers: Iowering SG steam pressure. In the affected loop, RCS D/T lowers to zero and SG steam pressure rises because heat removal is minimal. At least one of the conditions is incorrect in each distracter is wrong.
Reference Title Facility Reference Number Reference Section Page No. Revision
L.O. Number Objectives MSTEAME015
Material Required for Examination
Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program
Question Source Comments Vision Q80672
Comment

RO SkyScraper SRO Skyscraper RO	System/Evolution List SRO Syst	em/Evolution List Outlin	e Changes
Question Topic RO 50			
Which of the following describes why Main St	eam lines are drained prior to adm	itting steam into the headers	3?
			I
a. Ensures a vacuum pathway to the Main	Condenser is available free of po		
b. Removes any collected corrosion prod	ucts or impurities to ensure Main T	urbine blading is not imping	ed.
		them to full sustam tompora	furo
c. Preheats susceptible components such	t as steam traps prior to exposing		luie.
d. Prevents pressurized steam from forci	ng residual water in the piping to ca	ause water hammer on dowr	nstream components.
Answer d Exam Level R Co	nitive Level Memory	Facility: Salem 1 & 2	ExamDate: 9/26/2011
		ection: SYS RO Grou	
KA: 039000K501 K5.01 RO V System/Evolution Title Main and Reheat			
	Market Contraction Contraction	ante de they apply to the Me	
KA Statement: Knowledge of the operational Definition and causes of stea	I implications of the following conc am/water hammer	epts as they apply to the Ma	and Reneat Steam System.
Explanation of 55.41(4,10) The steam lines	are designed to pass 99.25% qua	ality steam at full power. Wa	ater which has accumulated in the piping
incorrect because the vacuu	m path would be from the condens	er back through turbine con	Is and turbine blades if not removed. A is trol and stop valves which would be
shut. B is incorrect because	while it remove anything in the co lines are drained, and would be co	ndensed steam in the piping	g, it is not the reason why. C is incorrect
		er Reference Section	Page No. Revision
Main, Reheat, Turbine bypass Steam Warmu	Eacility Reference Numb		Page No. Revision
L.O. Number Objectives			
MSTEAME013			
WATHAME006			
Material Required for Examination			
Question Source: New	Question Modification Metho	d:	Used During Training Program
Question Source Comments			
Comment			
]	
I			

RO SkyScraper	SRO Skyscraper RO Syst	em/Evolution List SRO System/Ev	olution List Outline Cl	hanges	
Question Topic	RO 51				
Given the following	ng conditions:				
- Main Steam D	ating at 100% power. Jumps are in MS Pressure Contr In Turbine Steamline Inlet Pressu				
Which of the follo	owing identifies how the Main St	eam Dumps will respond to this failu	e prior to any Reactor Prot	tection Syste	m response?
Main Steam Dur	np valves will				
a. remain sh	ut throughout the event.				
b. ALL trip of	pen and then modulate in the clo	osed direction in response to lowering	g Tavg.		
			to 542 %		
C. ALL trip of	pen and remain open until they a	automatically shut when Tavg lowers	to 543 °F.		
d. initially rer	nain shut, then modulate open a	as steam pressure rises from the loa	d reduction.		
Answer a	Exam Level R Cogni	tive Level Application	acility; Salem 1 & 2	ExamDa	ate: 9/26/2011
KA: 041000K603			P I C S END	2 SRO G	Froup: 2 55.43
System/Evolution		and Turbine Bypass Control			041
		f a loss or malfunction on the followi	ng will have on the Steam	Dump Syster	m and Turbine Bypass
	Control: Controller and positioners, inclu				
Answers:	respond to a deviation from its a different steam pressure detect the steam dumps will remain clo	eam Dumps are placed in MS Pressusetpoint, which in the stem is stated a or (PT-507, Steam Header Pressure osed. 100% power steam pressure in this causes automatic rod insertion a steam pressure.	as 1005 psig. That is, until , not PT-505 Steamline Inle s ~ 800 psig, and it would I	Steam Pres et Pressure) r rise as a load	sure as sensed by a rises above 1005 psig, reduction occurred.
RPS Steam Dum	eference Title	Facility Reference Number	Reference Section	Page No.	Revision 13
L.O. Number STDUMPE007 STDUMPE008	Objectives				
Material Require	d for Examination				
Question Source		Question Modification Method:		Used Durin	ng Training Program
Question Source	Comments				
Comment					

RO SkyScraper	SRO S	kyscraper RO Sy	stem/Evolution List SRO System/Evo	olution List Outline Cl	nanges		
Question Topic	RO 52						
Which of the foll	owing ide	ntifies how a Main Tur	bine trip is confirmed in the EOP netw	ork IAW OP-AA-101-111-	1003, Use o	f Procedures'	>
c. ALL Main	Oil Press	Trip. sure <45 psig. Stop Valves shut.					
Answer c	Exam L	evel R Cogn	itive Level Memory Fa	cility: Salem 1 & 2	ExamD	ate:	9/26/2011
KA: 045000A40	6	A4.06 RO Val t	e: 2.8 SRO Value: 2.7 Section	SYS RO Group:	2 SRO (Group: 2	55.43
System/Evolutio	n Title	Main Turbine Genera	ator System				045
KA Statement:	Ability to	manually operate and	/or monitor in the control room:				
Explanation of		stop valves	use it is a result of the Turbine Trip, be				
	RP4 righ heen kee incorrect	t next to the Turbine S ping the stop values because speed less t	32 to alarm, it is not a TT confirmation. Stop Valve indication, it is not used to concern the same and the valves should be han 1800 rpm indicates the Main Gen an unloaded turbine, it is not the definit	confirm the TT. It only sho we shut <u>C is correct as p</u> erator is no longer connec	w that's the er OP-AA-1 ted to the gr	oil pressure v 01-111-1003	which has
F	Reference	• Title	Facility Reference Number	Reference Section	Page No.	Revision	
Use of Procedure	es		OP-AA-101-111-1003		13	3	
Overhead Window	w F		S2.OP-AR.ZZ-0006		37	14	
N							
L.O. Number		Objectives					
Material Require	d for Exa	amination					
Question Source	e: Nev	N]	Question Modification Method:		Used Duri	ng Training I	Program
Question Source	e Comme	ents					
Comment							

RO SkyScraper	SRO	Skyscraper RO Sys	tem/Evolution List SRO System/Evo	olution List Outline Ch	nanges		
Question Topi	c RO 5	3					
Given the follow	ving condi	tions:		***************************************			
- Power was r - 21 Condensa	educed 2 ate Pump	0% power, steady state days ago when 21 Cond remains O/S. her is in service with ful	densate Pump tripped.				
Which of the fo concern?	llowing ide	entifies the initial concer	n if 22 Condensate Pump were to trip	o, and the action which wou	uld be perfo	rmed in respo	onse to that
a. Lowering	SG NR I	evel. Open 21-23CN108	3 Polisher Bypass Valves.	ану на			
b. Lowering	SGFP st	uction pressure. Open 2	21-23CN108 Polisher Bypass Valves.				
c. Lowering	SGNRI	evel. Initiate rapid load	reduction at up to 5% / min to <49% p	power.			
d. Lowering	SGFP su	uction pressure. Initiate	rapid load reduction at up to 15% / m	nin to <30% power.			
Answer b	Exam I	evel R Cogni	tive Level Memory Fa	cility: Salem 1 & 2	ExamD	Date:	9/26/2011
KA: 056000A20)4	A2.04 RO Valu	e: 2.6 SRO Value: 2.8* Section	n: SYS RO Group:	1 SRO (Group: 1	55.43
System/Evolution	on Title	Condensate System					056
KA Statement:	correct,		of the following on the Condensate S consequences of those abnormal ope		nose predict	tions, use pro	cedures to
Explanation of Answers:	above, t and the the HP I	he power limitation is 30 BF19s will open, which heater strings are bypas	for 2 cond pump and 3 HDP's in serv 0%. SGFP suction pressure will rapid will tend to restore level but degrade used in an effort to restore suction pre <u>ait for tripping the MT vs_baving to trip</u>	Ily lower. SG NR levels wi SGFP suction pressure m ssure. A load reduction w the Rx and at up to 5% r	Il lower, but ore. The po Ill be perform	the SGFP w lisher is bypa med, but it wi	ill speed up ssed, then
	Referenc	THE LODGE & DEPARTMENT OF STREET, STREE	Facility Reference Number	Reference Section	Page No.	Revision	
Main Feedwater	Condens	ate system Abnormalit	S2.OP-AB.CN-0001		10	26	
		and a second					
L.O. Number ABCN01E004		Objectives					
Material Require	ed for Ex	amination				.* 	
Question Sourc			Question Modification Method:		Used Duri	ng Training	Program
Question Sourc	e Comm	ents					
Comment							
I							

RO SkyScraper	SRO Skyscraper	RO Syste	m/Evolution List	SRO Syste	m/Evolution Li	st Outline C	hanges		
Question Topic	RO 54								
Given the following	ng conditions:			. <u></u>					
- With turbine po the PO reports	ming a load reduction ower at 75%, OHA is 11BF19, SG FEED stion continues to 70	G-7, ADFCS DWATER CO	SWITCH TO MA	NUAL annunc swapped to ma	iates, and				
	owing describes how ensate System Abno		vill affect 11 SG N	IR water level,	and how will	it be corrected IA	AW S1.OP-A	B.CN-00	01, Main
11 SG NR level v									
a. lower than	all other SGs. Man	ually adjust 1	1BF19 in the OPI	EN direction to	lower 11 SG	SNR level.			
b, greater that	an all other SGs. Ma	anually adjus	t 11BF19 in the C	LOSED direct	ion to lower 1	11 SG NR level.		*- * -	
c. greater that and move	an all other SGs. Plain the open direction	ace SGFP M n to re-establ	aster Speed Cont ish equilibrium co	troller in MANU	JAL and lowe	r SGFP speed.	Unaffected S	GBF19	s will respond
d. lower than move in th	all other SGs. Place e closed direction to	e SGFP Mas re-establish	ster Speed Contro equilibrium cond	oller in MANUA itions.	L and raise S	SGFP speed. Ur	affected SG	BF19s v	vill respond and
Answer b	Exam Level R	Cogniti	ve Level App	lication	Facility:	Salem 1 & 2	Exam	Date:	9/26/2011
KA: 059000A212	A2.12	RO Value	3.1* SRO Val	ue: 3.4* Se	ction: SYS	RO Group:	1 SRO	Group:	1 55,43
System/Evolution	n Title Main Fee	dwater Syste	m						059
······································	Ability to (a) predict to correct, control, c Failure of feedwater	r mitigate the	e consequences o	n the Main Fee of those abnor	edwater Systemal operation	em and (b) based n:	l on those pr	edictions	, use procedures
Explanation of Answers: 55.41(5,7,10) OHA G-7 will swap the valve to manual, and control will still be available to the operator. AB.CN states that if a BF19 has swapped to manual, you are to establish control over the valve and stabilize SG NR level IAW SG Programmed Level (Att. 2). The valve failing as is at a higher power level that the other BF19s are currently controlling(75 vs 70 %) will cause 11 SG NR level to rise, since feed flow is > steam flow. Lowering SGFP speed would work as described, but it would not be done to pertubate the entire system to respond instead of using one valve in manual.									
R	eference Title		Facility Refe	rence Numbe	Refere	nce Section	Page No.	Revisi	on
Main Feedwater/C	Condensate system	Abnormalit	S1.OP-AB.CN-0	001			12	18	
]] ī [<u> </u>
					l				
L.O. Number ADFWCSE012	Obje	octives							
Material Require	d for Examination								
Question Source	New		uestion Modific	ation Method			Used Dur	ing Trair	ning Program
Question Source	Comments								
Comment				a section de					
			······						

RO SkyScraper RO Syst	em/Evolution List SRO System/Evo	lution List Outline Ci	nanges	_		
Question Topic RO 55			_			
Given the following conditions:						
 Unit 2 tripped from 100% power. Neither MDAFW pump started or could be started by a start						
Which of the following describes the effect on 23 FEED - S/G LEVEL CONTROL VALVES?	AFW pump when the PO lowers AFV	V flow to the SGs by thrott	tling shut the	e 21-24AF11, AUX		
23 AFW pump						
a. speed demand will lower to maintain stabl	e discharge pressure.					
b : speed demand will raise to maintain stable	e discharge pressure.					
c. discharge pressure will lower and remain I	ower.					
d. discharge pressure will rise and remain high	gher.					
Answer d Exam Level R Cognit	ive Level Comprehension Fa	cility: Salem 1 & 2	ExamD	······································		
KA: 061000K503 K5.03 RO Value	2.6 SRO Value: 2.9* Section	: SYS RO Group:	1 SRO (Sroup: 1 55.43		
System/Evolution Title Auxiliary / Emergency	Feedwater System			061		
	plications of the following concepts a	s they apply to the Auxilia	ry / Emerge	ncy Feedwater System:		
Pump head effects when control valve is shut Explanation of Answers: 55.41(5,4) 23 AFW pump Terry Turbine has its governor set to maintain a certain speed, not discharge pressure. As the AF11 valves are throttled shut, the discharge pressure of the pump will rise, and remain at the new higher pressure as less work is required of the turbine. A and B are incorrect because speed demand will remain constant, and discharge pressure will rise. C is incorrect because discharge pressure will rise.						
Reference Title	Eacility Reference Number	Reference Section	Page No.	Revision		
Auxiliary Feedwater System operation	S2.OP-SO.AF-0001		19	35		
In Service Testing - 23 AFW Pump	S2.OP-ST.AF-0003			48		
AFW System Lesson Plan	NOS04AFW0000	· · · · ·	38-39	9		
L.O. Number AFW000E004 AFW000E008						
Material Required for Examination						
Question Source: New	Question Modification Method:		Used Duri	ng Training Program		
Question Source Comments	, objective of the first official type in the second second second second second second second second second s					
Comment						

RO SkyScraper	SRO Skyscraper RO Sys	stem/Evolution List SRO System/Evolution List Outline Changes
Question Topic	RO 56	
Given the following	conditions:	
 Power is lost to 2 	g at 100% power. is aligned to 24SPT (breake C Vital 125 VDC Bus. power to the 2C DC Bus, 24	
Which of the following	ng describes the status of 20	C 4KV Vital Bus for these conditions?
a. Energized fro	m the 2C EDG.	
b. Deenergized	with all in-feed breakers tripp	pped.
c. Energized fro	m 23SPT (breaker 23CSD c	closed).
d. Deenergized	with in-feed breaker 24CSD) closed.
Answer d Ex	cam Level R Cogni	itive Level Comprehension Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 062000K103	K1.03 RO Value	ue: 3.5 SRO Value: 4.0 Section: SYS RO Group: 1 SRO Group: 1 55.43
System/Evolution Ti	A.C. Electrical Distrib	bution 062
	owledge of the physical conn distribution	nections and/or cause-effect relationships between A.C. Electrical Distribution and the following:
Explanation of Answers; 55. ED	41(7) DC power is required to nain "as is". The EDG breake G output breaker is both infe	to operate relays and contacts for the 4KV vital bus breakers. When DC power is lost, breakers will ker can not close onto the bus even though it is deenergized because one of the interlocks to shut the feed breakers open. The other (23) SPT cannot close its infeed breaker to the bus because it has an her SPT's in feed breaker to be open.
Refe	rence Title	Facility Reference Number Reference Section Page No. Revision
1C 4160 VAC Emerg	ency Diesel Generator	203036
L.O. Number	Objectives	
Material Required fo	r Examination	
Question Source:	Previous 2 NRC Exams	Question Modification Method: Editorially Modified Used During Training Program
Question Source Co	mments "J" ILOT RO NR with distracter c	RC Exam - August 2008. Added "breaker" and "closed" to original distracter b, and swapped places c due to its being longer now. Added words to lessen confusion and make it the same style as found
Comment		
······································		

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topic	R0 57
Which of the follo isolation IAW S2	owing choices identifies an adverse effect of a ground on a 125VDC bus/battery, and the method in which operators perform ground . .OP-SO.125-0004, 125VDC Ground Detection?
A ground	
	• •
	causes a higher level of current to flow in the system. Individually deenergize each load on the bus, then re-energize if that load is urce of the ground.
	tery associated with the bus causes a higher level of current to flow in the system. Transfer to the backup battery charger to if the I/S charger is the cause of the ground.
to determine	causes voltage reading on the bus to become unreliable due to the excessive current flow. Transfer to the backup battery charger ne if the I/S charger is the cause of the ground.
d. on the batt deenergize	tery associated with the bus causes voltage reading on the bus to become unreliable due to the excessive current flow. Individually e each load on the bus, then re-energize if that load is not the source of the ground.
Answer	Exam Level R Cognitive Level Memory Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 063000A201	A2.01 RO Value: 2.5 SRO Value: 3.2* Section: SYS RO Group: 1 SRO Group: 1 55.43
System/Evolution	Title D.C. Electrical Distribution 063
	Ability to (a) predict the impacts of the following on the D.C. Electrical Distribution and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal operation: Grounds
Answers:	55.41(7) The ground detection procedure has operators isolate individual loads. The ARP for low battery voltage has operators transfer to the standby battery charger if bus voltage is low, and battery current is present, so these are plausible distracters. The bus voltage is higher than the battery voltage, so a ground on the battery would not cause bus current to rise.
125VDC Ground I	
B Window Alarm F	
L.O. Number	Objectives
Material Required	I for Examination
Question Source	Previous 2 NRC Exams Question Modification Method: Editorially Modified Used During Training Program
Question Source	Comments New for "J" ILOT RO Exam - August 2008 Reordered distracters based on length of answer.
Comment	

RO SkyScraper SRO Skyscrap	er RO System/Evolution List SRO System/Evo	lution List Outline Cha	naes	
Question Topic RO 58				
Given the following conditions:				
	OT, NOP. ises a SEC MODE II actuation. nment, the 2A 4KV vital bus to 460VAC bus breaker t	rips.		,
Which of the following describes	how this will affect 2A EDG operation, if NO corrective	action is taken?		
2A EDG will				
a. run until 22 Diesel Fuel Oi	Storage Tank is empty.			
b. trip because its fuel oil sup	pply pressure was lost when the EDG Fuel Oil Pumps	lost power.		
c. trip because its lube oil su	pply pressure was lost when the EDG Lube Oil pumps	lost power.		
d. run until its Fuel Oil Day T	ank empties due to the loss of power to the Diesel Fue	el Oil Transfer Pumps.		
Answer a Exam Level	R Cognitive Level Application Fac	ility: Salem 1 & 2	ExamDate:	9/26/2011
KA: 064000K202 K2.02	RO Value: 2.8* SRO Value: 3.1 Section:	SYS RO Group:	1 SRO Group: 1	55.43
System/Evolution Title Emerg	gency Diesel Generators			064
	is power supplies to the following:			·]
Fuel oil pumps Explanation of 55.41(7,8) A is o	correct because there are 2 Diesel Fuel Oil Transfer pu	impo neurorad from A and		
Answers: supplies fuel oil operation as the the cross conne	to all three EDGs. The loss of power to 2A DFO xfer p second pump has power from 2B bus, and will start of ct is always shut. B is incorrect because the EDG Fue cause while there is an electric Pre-Lube pump which	pump, even if selected as the on lo level. The DFOSTs has I Oil Pumps are shaft mour	he Lead Pump, will not ave cross connect capa nted, mechanically driv	t affect EDG ability, but en pumps.
starting, the Lub	e Oil pumps for operation are shaft driven mechanical which will fill all the EDG Day tanks based on level signature of the state of	pumps. D is incorrect bec		
Reference Title	Facility Reference Number	Reference Section	Page No. Revision	
1 & 2 Units Diesel Engine Auxiliar	es 205241-1		42	
1 & 2 Units Diesel Generator Fuel	Oil 211306		11	
Fuel Oil	211307		22	
EDG000E013 EDG000E005	bjectives			
Material Required for Examinati	20			
Question Source: New	Question Modification Method:		Ised During Training	Program
Question Source Comments				
Comment				

RO SkyScraper	SRO Skyscraper RO Syst	em/Evolution List	SRO System/Evo	olution List	nanges		
Question Topic	RO 59						
Given the follow	ving conditions:						
the control ro - The NEO ser Disposal Gas - Local indicati	rating at 100% power when OHA nom. In to investigate reports local alarn s Analyzer PNL 110 is in alarm. Ion for in service Waste Gas Deca s, which choice describes what a	n B-3 OXYGEN HIGI ay Tank (WGDT) O2	H/LOW on Wast	4.1%.			
a. Place the	e Standby GDT in service and cor	nmence preparations	to release the a	ffected GDT.			
b. Place the below 2%	e second Waste Gas Compressor 6.	in service to raise th	e total volume o	f gas in the WGDT in orde	r to dilute th	e O2 concent	tration to
c. Reduce t	the oxygen concentration of the in DT.	service WGDT with	out delay to prev	ent potential releases of ra	adioactive m	aterials due te	o explosion
	tely suspend all additions to the ir th hydrogen.	n service WGDT sinc	e the O2 concen	tration is above the 2% re	quired to su	stain combus	tion when
Answer c	Exam Level R Cognit	ive Level Memor	yFa	cility: Salem 1 & 2	ExamD	ate:	9/26/2011
KA: 071000K50	04 K5.04 RO Value	2.5 SRO Value	3.1 Section	SYS RO Group:	2 SRO 0	Group: 2	55.43
System/Evolution	on Title Waste Gas Disposal	System					071
KA Statement:	KA Statement: Knowledge of the operational implications of the following concepts as they apply to the Waste Gas Disposal System: Relationship of hydrogen/oxygen concentrations to flammability						
Explanation of Answers:							
release. C is the correct answer because the Tech Spec REQUIRES the reduction of O2 from 2-4% to less that 2% without delay. Also, the bases section for this tech specs describes that a potential explosion and release of radioactive materials from this explosion would not be IAW GDC 60, 10CFR50 Appx.A. Distracter A is incorrect because the TS states to immediately stop additions to the WG HU system.							/. Also, the
	Reference Title	Facility Referen	ice Number	Reference Section	Page No.	Revision	
Salem Tech Spe	an ananana an anan an an an an an an an	uning and heit hour a state of a state of the		3.11.2.5	3/4 11-15	282	

Ī

L.O. Number

Objectives

WASGASE009

RO SkyScraper	SRO Skyscraper RO Sv	stem/Evolution List SRO System/Ev	olution List Outline Cl	nanges	
Question Topi	c RO 60				
Which of the fo setpoint?	llowing Area Radiation Monitors	(ARM) will cause a ventilation system	alignment change when it	reaches its	High Radiation Alarm
serpoint		Anna ann an Airte			
[]					
a. 2R1A, C	ontrol room.				
b. 2R9, Nev	w Fuel Storage				
c. 2R32A, 1	Fuel Handling Crane.			A	
	110400.0				
d. 2R52, Li	quid PASS Room.				
Answer b	Exam Level R Cogr	itive Level Memory Fa	cility: Salem 1 & 2	ExamC	2 (Sur 1 (S) (S)
KA: 072000K40		ue: 3.2* SRO Value: 3.6* Section	n: SYS RO Group:	2 SRO	Group: 2 55.43
System/Evolutio					072
KA Statement:	Knowledge of ARM system de Plant ventilation systems	sign feature(s) and or interlock(s) whic	h provide for the following:		
Explanation of	55.41(11) A is incorrect becau	use it has no automatic function. It is p			
Answers:	charcoal filters and starts both	room ventilation on high radiation. B i FHB Exhaust fans. C is incorrect but	plausible because its auto	function is	to prevent Fuel Crane
		ection. D is incorrect since it only has radiation levels which would be expect			
	Reference Title	Facility Reference Number	Reference Section	Page No.	Revision
S2.OP-AB.RAD-	0001	Abnormal Radiation	Attachment 5 RMS cha	16-18	28
L.O. Number	Objectives	- 442 - 5			
RMS000E005					
			•		
Material Require	ed for Examination				
Question Sourc	e: New	Question Modification Method:	inter	Used Duri	ng Training Program
Question Sourc	e Comments	a - na - differentia - anna - ann			
Comment	The distance of the second				

ROS	kyScraper	SRO Sky	scraper	RO Syst	em/Evolution l	ist SRC) System/E	volution Li	st	Dutline C	nanges			
Ques	tion Topic	RO 61												
Given	the follow	ing condition	ns:	to the summittee										
- 2R	 Both Salem Units are operating at 100% power. 2R1B-1, Unit 2 Intake Duct Rad Monitor Channel 1 loses power. BOTH Salem units Control Area Ventilation (CAV) systems remain in NORMAL Mode. 													
Which	of the fol	lowing identi	fies the sta	tus of the	CAV system	s, and how w	ill the Con	trol Room	ns respo	nd to the	loss of pow	/er?		
The C	AV syster	ns												
a.	a. are designed to remain in Normal Mode upon a loss of power to a single duct radiation monitor. No actions other than normal Corrective Action Program actions to troubleshoot and repair the power supply are required, with no specific time limitation.													
b.					oon a loss of CAV must be							e restor	ed to op	perable
C.		ave swapped rea Ventilatio			AP Mode of	operation by	depressir	g initiatin	g pushb	utton on 2	RP3 IAW S	S2.OP-S	SO.CAV	-0001,
d.		ave swapped DP-SO.CAV-		de. Initiate	AP Mode of	operation by	aligning i	ndividual	system	compone	nts to their	correct	position	s on 2RP3
Answe	r c	Exam Lev	el] (R	Cognit	ive Level 💈	Application		acility:	Salem	1&2	Exam	Date:		9/26/2011
KA: 0	73000A20	01 A2	.01	RO Value	2.5 SR	O Value: 2.9	• Sectio	n: SYS	RO	Group:	1 SRO	Group:	1	55.43
System	n/Evolutic	n Title P	rocess Ra	diation Mo	nitoring Syst	em								073
KA Sta	tement:		ures to cor	rect, contro	of the followi ol, or mitigate						nd (b) base	ed on the	ose prec	dictions,
Answe	rs:	plausible be Mode. C is incorrect be system	cause the correct bec cause indi	Tech Spe ause man	g power will a c for R1B sa nual initiation ponents are	ys if one char of AP Mode not aligned,	nnel is ino is accomp still plausi	perable, y lished by ble if the	ou have depress candida	e 14 days sing the A te thinks t	to restore b ccident pus he failure h	before p shbutton las affec	lacing C on RP3 ted the	AV in AP 3. D is
Control	CANTERNAL CONTRACT	Reference T	147.0200 (200 (41.310))		S2.OP-SO.	Reference N	umber	Refere	nce Sec	tion	Page No.	Revis	sion	
<u> </u>	Tech Spe		auon		52.0P-50.0	JAV-0001		3.3.3.1			6,23 3/4 3-38	282		
1	L.O. Number Objectives													
Materia	l Require	d for Exam	ination											
Questio	on Source	e: New		C	Question Mo	dification M	ethod:				Used Dur	ing Trai	ining Pi	rogram
Questic	on Source	e Comments	5											
Comme	ent													
	_		_											

RO S	SkyScraper	SRO Skyscraper	RO System/Evolution	List SRO System	n/Evolution I	ist Outline C	hanges		
Ques	tion Topic	RO 62							
Given	the followi	ng conditions:			-		<u> </u>		
- 1B - 13 - 1A	EDG is rur and 16 SW 4KV Vital t	ating at 25% power. ning in parallel with static pumps are in service, 11 pus becomes deenergized e 1A 4KV Vital bus deene	SW pump is in AU I due to a Bus Diffe	ITO. rential signal.	f the follow	ing contains ALL ti	ne SW pump	os which will b	e running?
			<u></u>						
a.	11, 13.								
b.	11, 15.								
C.	13, 16.								
d.	15, 16.								
Answe	r a	Exam Level R	Cognitive Level	Application	Facility:	Salem 1 & 2	ExamD	ate:	9/26/2011
KA: 0	76000K20	K2.01) Value: 2.7* SR	O Value: 2.7 Sec	tion: SY	S RO Group:	1 SRO 0	Group: 1	55.43
السنيتينية	n/Evolutio		System						076
KA Sta	itement:	Knowledge of bus power	supplies to the follo	owing:					1
<u> </u>		Service water 55.41(7) A bus powers 15							
Answe		loading. A bus is locked of to where the auto pump (SW pumps, one in auto, why it is not listed in any any of the choices. There would strip busses and lo	11) would start. Of and the rest in mar of the choices. 14 e can be confusion ad the primary SW	nly one SW pump is nual. 12 SW pump v SW pump would not about the running E	aligned for vould never start since DG and the	AUTO which is the start unless 11 pu B.bus never loses	normal at p mp did not c nower_which	ower configur on a SEC initia n is why it isn'	ation for the ation, that is t listed in
Service	e Water Pu	mp Operation	S1.OP-SO	27. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	L S S (10)	an arriver and the second second	N.B. P No State State	26	
Unit 1	4KV Vital E	uses One line	203002					34	
L.O. N	umber YSE005	Objective							
Materi	al Require	d for Examination							
Questi	on Source	Facility Exam Bank	Question M	odification Method:	Signific	antly Modified	Used Duri	ng Training F	rogram
Questi	on Source	Comments J-ROC61	Changed which p	ump is in auto (11 in:	stead of 15) and that makes a	different cho	bice correct.	
Comm	ent								
1									

Question Topic RD 63 [Siven the following conditions: - All 3 Station AC compressors have become unavailable. - All 3 Ration AC compressors have become unavailable. - Revention (ECAC) has been load. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the status of the Unit 1 ECAC. Describe the discontinue dural cooling water will automatically swap to Service Water through a check valve. E. must be discontinue dural cooling water can be manually aligned through a spool piece from Service Water. Imust be discontinue dural cooling water can be manually aligned through a spool piece from Service Water. d. must be discontinued unit cooling water on be manually aligned through a spool piece from Service Water. Imust be discontinued unit cooling water on a be manually aligned through a spool piece from Service Water. d. must be discontinued unit cooling water on a be manually aligned through a spool piece from Service Water. Imust be discontinue and unit cooling water on a service Water. KA Statiment! RO 6roup: 1 SR0 6 Group: 1 SR0 6 Group: 1 SR0 6 G	RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List SRO System/Evo	olution List Outline Change	ÐS		
All 3 Station Air Compressors have become unavailable. The NDRMAL cooling water supply to the Unit 1 Emergency Control Air Compressor (ECAC) has been lost. Describe the status of the Unit 1 ECAC. Operation of the Unit 1 ECAC. a. Can continue since cooling water will automatically swap to Service Water through a check valve. b. Can continue since cooling water will automatically swap to Demineralized Water through a check valve. c. must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. Answer: Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application Facility: Salem 18.2 Exam Level R Cognitive Level Application applied by MANUALLY installing a supply and a return spool piece. Demin water is plauable because it is as a backup cooling system to other system (S and charging pumps when normal cooling is los.) 	Question Topic	RO 63					
The NORMAL cooling water supply to the Unit 1 Emergency Control Air Compressor (ECAC) has been lost. Describe the status of the Unit 1 ECAC. Dearation of the Unit 1 ECAC. System/Evolution Title Instrument Air System Or78 KA Statement: Statement Discover of the Unit 1 Ecan be supplied by UANUALLY. Instrument Air System Cooling water to compressor Explanation District of District Ocoling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Answers: Dearation of District Ocoling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Answers: Dearation of District Ocoling water 205216-3 Dearation Dearation Dearation State Planation Dearation State Planation Dearation State Planation Dearation State Planation State Planation State Planation Dearation State Planation Dearation Dearation State Planation Dearation Dearatingeneric Dearation	Given the following	g conditions:					
Operation of the Unit 1 ECAC a. Can continue since cooling water will automatically swap to Service Water through a check valve. b. can continue since cooling water will automatically swap to Demineralized Water through a check valve. c. must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. Arisweri [0] Exam Level: [R Cognitive Level] Application [Facility: Salem 1 & 2 ExamDate:] 9/26/2011 KA: [07800X104] K1.04] [RO Value:] 2.6] SRO Value: [2.9] Section:] SYS [RO Group:] 1 [SRO Group:] 2 [Cooling water to compressor Explanation of [5 5.41(4)The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Answer: [6] Section: [S 5.41(4)The normal source of cooling system for other systems (Si and charging pumps when normal cooling is lost.) [7] Reference Title Facility Reference Number: [Reference Section.] Page No. [Revision No. 1 & 2 Unis Chilled Water 2005216-3 [S 6] [58] [10. Number: Objectives [58] [58] [Control Air System Operation SI .0P-SO CA-0001 [S 13] [3] [3	- The NORMAL o	- The NORMAL cooling water supply to the Unit 1 Emergency Control Air Compressor					
A. Can continue since cooling water will automatically swap to Service Water through a check valve. Can continue since cooling water will automatically swap to Demineralized Water through a check valve. Can continue since cooling water can be manually aligned through a spool piece from Service Water. Must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. Must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. Must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. Must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. Maswer Cooling water Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011 Kki [078000K104 K1.04 R0 Value;] 2.6] SRO Value; 2.9] Section; SYS R0 Group; 1] SRO Grou	Describe the statu	s of the Unit 1 ECAC.					
b. can continue since cooling water will automatically swap to Demineralized Water through a check valve. c. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. Arnswer c Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011 KA: (76000K104 K1.04 (RO Value: 2.6) (SRO Value: 2.9) Section: SYS RO Group: 1 System/Evolution Titie Instrument Air System 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: Cooling water to compressor Explanation off Ss.1(4)(The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Mater system, SERVICE WATER can be upplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other system (SI and charging pumps when normal cooling is lost.)	Operation of the U	nit 1 ECAC					
b. can continue since cooling water will automatically swap to Demineralized Water through a check valve. c. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. Arnswer c Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011 KA: (76000K104 K1.04 (RO Value: 2.6) (SRO Value: 2.9) Section: SYS RO Group: 1 System/Evolution Titie Instrument Air System 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: Cooling water to compressor Explanation off Ss.1(4)(The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Mater system, SERVICE WATER can be upplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other system (SI and charging pumps when normal cooling is lost.)							
must be discontinued until cooling water can be manually aligned through a spool piece from Service Water. d. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. Answer: c Exam Level: R Cognitive Level: Application Facility: Salem 1 & 2 ExamDate: 9/26/2011 KA: 078000K104 K1.04 RO Value: 2.6 SRO Value: 2.9 Section: SYS RO Group: 1 \$543 System/Evolution Title Instrument Air System 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: Cooling water to compressor Explanation of SA (14)The normal source of cooling water to the ECAC is the Ohilled Water system. Upon a loss or unavailability of the Chilled Water system. SERVICE WATER can be suppled by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other system SI and charging pumps when normal cooling is los1.) Reference Title Facility Reference Number Reference Section Page No. Revision No. 1 & 2 Units Chilled Water 205216-3 58 58 58 58 Control Air System Operation S1.0P-SO.CA-0001	a. can continu	a. can continue since cooling water will automatically swap to Service Water through a check valve.					
A. must be discontinued until cooling water can be manually aligned through a spool piece from Demineralized Water. Answer C Exam Level R Cognitive Level Application Facility: Salen 1 & 2 ExamDate: 9/26/2011 KA: 0778000K104 K1.04 RO Value: 2.6 SRO Value: 2.9 Section: SYS RO Group: 1 Stata 078 KA: 0778000K104 K1.04 RO Value: 2.6 SRO Value: 2.9 Section: SYS RO Group: 1 Stata 078 KA: System/Evolution Title Instrument Air System 078 078 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: Cooling water to compressor Explanation of S5.41(4)The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Water system. State: Page No. Revision Answers: Data Data State:		e since cooling water will auto	matically swap to Demineralized Wate	er through a check valve.			
Answer Cognitive Level Application Facilify: Salem 1 & 2 ExamDate: 9/26/2011 KA 078000K104 K1.04 RO Value; 2.9 Section: SYS RO Group: 1 55.43 System/Evolution Title Instrument Air System 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: 078 Cooling water to compressor Cooling water to chain be supplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other systems (SI and charging pumps when normal cooling is lost.) Reference Title Facility Reference Number Reference Section Page No. Revision No. 1 & 2 Units Chilled Water 205216-3 58 58 51.0P-SO.CA-0001 13 LO. Number Objectives Store Convalues Store Section Page No. Revision Material Required for Examination		continued until cooling water c	an be manually aligned through a spo	bol piece from Service Water.			
KA: 078000K104 K1.04 RO Value: 2.9 Section: SYS RO Group: 1 S5.43 System/Evolution Title Instrument Air System 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: 078 Explanation of Answers: S5.41(4)The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Water system, SERVICE WATER can be supplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other systems (SI and charging pumps when normal cooling is lost.) Reference: Title Facility Reference Number Reference Section Page No. No. 1 & 2 Units Chilled Water 205216-3 58 58 Control Air System Operation S1.0P-SO.CA-0001 13 13 LLO. Number Objectives 58 58 CONAIRE007 Objectives 58 58 Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program <td></td> <td></td> <td></td> <td></td> <td>ater.</td>					ater.		
System/Evolution Title Instrument Air System 078 KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: 078 Explanation of Answers: 55.41(4)The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Water system, SERVICE WATER can be supplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other systems (SI and charging pumps when normal cooling is lost.) Reference Title Facility Reference Number Reference Section Page No. No. 1 & 2 Units Chilled Water 205216-3 58 Control Air System Operation S1.0P-SO.CA-0001 13 LO. Number Objectives CONAIRE007 Objectives Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program Question Source Comments Vision Q80700 Vision Q80700 Direct From Source Used During Training Program	Answer c E	Exam Level R Cogni	tive Level Application Fa	cility: Salem 1 & 2			
KA Statement: Knowledge of the physical connections and/or cause-effect relationships between Instrument Air System and the following: Cooling water to compressor Cooling water to compressor Explanation of Answers: 55.41(4)The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Water system, SERVICE WATER can be supplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other systems (SI and charging pumps when normal cooling is lost.) Reference Title Facility Reference Number Reference Section Page No. Revision No. 1 & 2 Units Chilled Water 205216-3 58 58 Control Air System Operation S1.0P-SO.CA-0001 13 13 LO. Number Objectives Objectives CONAIRE007 Objectives Used During Training Program Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program Question Source Comments Vision Q80700 Nision Q80700 Nision Q80700 Nision Q80700	KA: 078000K104	K1.04 RO Valu	e: 2.6 SRO Value: 2.9 Section	: SYS RO Group: 1	SRO Group: 1 55,43		
Cooling water to compressor Explanation of Answers: 55.41(4)The normal source of cooling water to the ECAC is the Chilled Water system. Upon a loss or unavailability of the Chilled Water system, SERVICE WATER can be supplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other systems (SI and charging pumps when normal cooling is lost.) Reference Title Facility Reference Number Reference Section Page No. Revision No. 1 & 2 Units Chilled Water 205216-3 58 58 Control Air System Operation S1.0P-SO.CA-0001 13 L.O. Number Objectives CONAIRE007 Objectives Material Required for Examination Question Modification Method: Direct From Source Used During Training Program Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program	System/Evolution	Title Instrument Air System	n		078		
Answers: Water system, SERVICE WATER can be supplied by MANUALLY installing a supply and a return spool piece. Demin water is plausible because it is as a backup cooling system for other systems (SI and charging pumps when normal cooling is lost.) Reference Title Facility Reference Number Reference Section Page No. Revision No. 1 & 2 Units Chilled Water 205216-3 58 Control Air System Operation S1.0P-SO.CA-0001 13 LO. Number Objectives CONAIRE007 Objectives Material Required for Examination Question Modification Method: Direct From Source Used During Training Program Question Source Comments Vision Q80700 Sin Q80700 Direct From Source Used During Training Program			ections and/or cause-effect relationsh	nips between Instrument Air Sys	stem and the following:		
No. 1 & 2 Units Chilled Water 205216-3 58 Control Air System Operation S1.OP-SO.CA-0001 13 L.O. Number Objectives 13 CONAIRE007 Objectives 14 Material Required for Examination 15 15 Question Source: Facility Exam Bank Question Modification Method; Direct From Source Used During Training Program Question Source Comments Vision Q80700 15 15 15	Answers: W	ater system, SERVICE WATE	ER can be supplied by MANUALLY in	stalling a supply and a return sp	pool piece. Demin water is		
Control Air System Operation S1.OP-SO.CA-0001 13 LO. Number Objectives CONAIRE007 Objectives Material Required for Examination	Ref	ference Title	Facility Reference Number	Reference Section Page	e No. Revision		
L.O. Number Objectives CONAIRE007	No. 1 & 2 Units Chil	lled Water	205216-3	[]	58		
CONAIRE007 Material Required for Examination Question Source: Facility Exam Bank Question Source Comments Vision Q80700	Control Air System	Operation	S1.OP-SO.CA-0001	i	13		
CONAIRE007 Material Required for Examination Question Source: Facility Exam Bank Question Source Comments Vision Q80700							
Question Source: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program Question Source Comments Vision Q80700	Charles of the Star Poly of the Star	Objectives					
Question Source Comments Vision Q80700	Material Required	for Examination			[]		
	Question Source:	Facility Exam Bank	Question Modification Method:	Direct From Source	d During Training Program		
Comment	Question Source C	Comments Vision Q80700	, and an international standard of the standard standard standard standard standard standard standard standard s				
	Comment						

RO SkyScraper SRO Skyscraper RO	System/Evolution List SRO System/Evolution List Outline Changes				
Question Topic RO 64					
Given the following conditions:					
 Salem Unit 1 is operating at 100% power. OHA A-15 FIRE PUMP 1/2 RUN, and OHA A-23 FIRE PUMP 1/2 TRBL alarm in the control room. NO other fire system alarms are received. An NEO dispatched to the Fire Pump House reports fire main header pressure is 132 psig, and both fire pumps are operating. Fire Protection reports there are NO fire system actuations. 					
Which of the following choices identifies the	cause of the condition described above?				
a. Trip of the Fire Protection Jockey Pur	np.				
b. Major fire protection header piping rup	ture.				
C. Loss of control power to BOTH Fire P	umps.				
d. Momentary (1 second) drop in Fire Pro	otection header pressure to 70 psig.				
Answer c Exam Level R Co	gnitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011				
KA: 086000A302 A3.02 ROV	'alue: 2.9 SRO Value: 3.3 Section: SYS RO Group: 2 SRO Group: 2 55.43				
System/Evolution Title Fire Protection System 086					
KA Statement: Ability to monitor automatic operations of the Fire Protection System including: Actuation of the FPS					
Answers: pressure will start the #1 pup pressure lowers, and the #2	TH auto start upon a loss of power to their battery chargers. Losing the power from the ATS, supplied anels will cause loss of both battery chargers. Distracter D is incorrect because a momentary drop in mp, and the #2 pump has a time delay. Distracter A is incorrect in that the #1 pump will start as header pump will not start. Distracter B is wrong because a major piping rupture will cause header pressure to ig given in the stem. Pumps are rated to 135 psig				
Reference Title	Eacility Reference Number Reference Section Page No. Revision				
Fire Pump House Diesel Engine Control	203776 9				
Alarm Response Window A	S1.OP-AR.ZZ-0001				
Fire Protection	205222-4 59				
L.O. Number Objectives FIRPROE007 FIRPROE008 FIRPROE009					
Material Required for Examination					
Question Source: Facility Exam Bank	Question Modification Method: Direct From Source Used During Training Program				
Question Source Comments Vision Q678	54				
Comment					

RO SkyScraper	SRO	Skyscraper	RO Syst	em/Evolution List SRO	System/Evo	lution List Outline Ct	anges		
Question Topic	RO 6	5							
Given the follow	ing condi	itions:				**************************************			
 Charging flov Computer tre The CRS ent Based on ele the crew det 	 Unit 1 is operating at 100% power. Charging flow rose 1 gpm in 5 minutes and is now steady at 88 gpm. Computer trends show the increased RCS leakage started 10 minutes ago. The CRS enters S1.OP-AB.RC-0001, Reactor Coolant System Leak. Based on elevated 1R11A indications coincident with the rise in charging flow, the crew determines a small RCS leak in containment is occurring. Which of the following describes an action that will be performed IAW S1.OP-AB.RC-0001 based on the determination of the leak location and size, 								
	CFCUs in	slow speed :	and 2 CFCL	Js in high speed to prevent	containme	ent pressure from rising to	the automa	tic Safety Injection	
setpoint.	entrifuca	L charging nu	mn in servi	ce to ensure sufficient charge	aina flow r	naroin is available to main	tain PZR lev	vel stable should th	ne leak
rate rise.									
c. Place 2 C elevated			and 2 CFCl	Js in high speed to minimize	e the rise i	n containment humidity a	nd prevent e	quipment damage	from
d. Place a c release fi			mp in servi	ce to allow additional flow th	hrough the	Mixed Bed Demineralize	rs to minimiz	e the potential off-	site
Answer a	Exam I	evel R	Cognit	ive Level Memory	Fa	cility: Salem 1 & 2	ExamD	ate: 9/2	26/2011
KA: 103000A10	1	A1.01	RO Value	3.7 SRO Value: 4.1	Section	SYS RO Group:	1 SRO G	Froup: 1 55.	43
System/Evolution	on Title	Containme	ent System					1	03
KA Statement:	KA Statement: Ability to predict and/or monitor changes in parameters associated with operating the Containment System controls including: Containment pressure, temperature, and humidity								
Explanation of Answers:	then pla Safety li the right service i incorrec	ce 2 CFCUs njection and t action, the r if PZR level c t because of	in slow and minimize th eason is wr cannot be m the wrong r	, Continuous Action Summa 2 in fast. The Technical B e potential for off-site releas ong. Distracter C is incorre- paintained stable or rising re- reason for CFCU operation. s, it is performed in AB.RC-	ases Doci ses when ect but place of as a pr . D is incor	ument, page 3, states that the leak is in Containmen usible, because a centrifu e-emptive action for possi rect as per B above, while	this is "to p t." B is inco gal charging ble future le	revent an automati rrect because while pump is placed in ak rate risesC is	ic e it has
	Referenc	e Title		Facility Reference Nu	imber	Reference Section	Page No.	Revision	
Reactor Coolant	System L	.eak		S1.OP-AB.RC-0001			13, BASE	9	
	_							1	
L.O. Number	CONTMTE003								
Material Require	d for Ex	amination							
Question Sourc	e: Fa	cility Exam B	ank	Question Modification Met	thod:	Concept Used	Used Durin	ng Training Progr	am
Question Sourc	e Comm	ents Visior	n Q85538						
Comment		1741 / L							
		_	. <u></u>						

	r SRO	Skyscraper	RO Syst	em/Evolution L	ist SRO Sys	stem/Evolut	tion List	Outline Ch	nanges		
Question Top	ic RO 6	6									
Of the followin	g, which w	ould be cor	nsidered a Co	ore Alteration	IAW S2.0P-IO.Z	Z-0007, C	Cold Shutdo	wn to Refue	ing?		
a. When the	a. When the first stud (during first pass of Reactor Head detensioning process) is detensioned.										
b. When the	ne RPV He	ad is lifted	(1-2') to chec	k for CRDM	drive dis-engagen	ment.					
Latin					·						
c. Insertion	n of a cam	era to the le	evel of the RF	V flange pric	or to fuel moveme	ent.					
d. Lifting o	f the first f	uel bundle i	in the RPV.								
		TARABAR TA						- 1 8 0			9/26/2011
Answer d	Exam I			ive Level	Memory	Facil		n 1 & 2	ExamD	6990003 L	
KA: 194001G1		2.1.36	RO Value	a: 3.0 SRC	D Value: 4.1 S	Section:	PWG	O Group:	1 SRO 0	sroup:	
System/Evolut											GENERI
KA Statement:		dge of proce	edures and lin	mitations invo	olved in core alter	rations.					
Explanation of Answers:	Compon MODE 6 C is inco	ents, within 6, Refueling prrect becau ation of dev	n the reactor v g, is officially o luse "Refuelin vices such as	vessel with th entered. B is g activities th <u>lights_mast</u>	TERATION shall e vessel head rer incorrect becaus hat would constitu	moved an se Core A ute a COR <u>vicing equi</u>	nd fuel in the Its cannot o E ALTERA	e vessel." A ccur until th TION do NC	is incorrect e vessel hea T include th <u>Reactor Pr</u>	because it i id has been e movemer essure Vess	s when removed. It or
			pt when these the Reactor I		uld result in the m	ovement	or manipula	ition of fuel,	sources, or	reactivity co	ontrol
	Referenc	e Title		Facility	Reference Numb	be r R	leference S	ection	Page No.	Revision	
				Refueling O	perations					16	
32.07-50.57-0	S2.OP-IO.ZZ-0007 COLD SHUTDOWN TO REFUELI			1							
S2.OP-10.ZZ-0				COLD SHU							
				COLD SHU	TDOWN TO REF					17 31	
S2.OP-IO.ZZ-00 SC.MD-FR.FH-				COLD SHU							
S2.OP-10.ZZ-0		Obje	ectives	COLD SHU							
S2.OP-IO.ZZ-00 SC.MD-FR.FH-		Obj	ectives	COLD SHU							
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012		Obje	ectives	COLD SHU							
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012	0004			COLD SHU							
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012 IOP007E004	0004	amination		COLD SHU		TOR			Used Durir	31	Program
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012 IOP007E004 Material Requir	0004	amination w		COLD SHU	ION FOR REAC	TOR			Used Durir	31	Program
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012 IOP007E004 Material Requi Question Sour	0004	amination w		COLD SHU	ION FOR REAC	TOR			Used Durin	31	Program
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012 IOP007E004 Material Require Question Sour	0004	amination w		COLD SHU	ION FOR REAC	TOR			Used Durin	31	Program
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012 IOP007E004 Material Requi Question Sour	0004	amination w		COLD SHU	ION FOR REAC	TOR			Used Durin	31	Program
S2.OP-IO.ZZ-00 SC.MD-FR.FH- L.O. Number REFUELE012 IOP007E004 Material Requi Question Sour	0004	amination w		COLD SHU	ION FOR REAC	TOR			Used Durir	31	Program

RO SkyScraper SRO Skyscraper RO St	stem/Evolution List SRO System/Evolu	lution List Outline Changes			
Question Topic RO 67					
Given the following conditions:					
 Unit 2 is operating at 66% power. Power was reduced when 22 SGFP tripped level for 2 days. 	- Power was reduced when 22 SGFP tripped 2 days ago, and has remained at this				
 Operators are preparing to start a Main Turb automatic rod control to maintain Tavg and Tavg-Tref deviation is 0°F. 	ine power ascension using dilution and AFD on program.				
IAW OP-AA-300, Reactivity Management, how	should the power ascension be started?	2			
Assume this is a normal power ascension with	all equipment available.				
a. The crew concurrently initiates the Main	Turbine load ascension and a RCS dilution	iion.			
b . The crew initiates a RCS dilution. As so	on as the dilution is in progress the Main T	Turbine load ascension is initiated.			
c. The crew initiates a RCS dilution and wa	its until a RCS temperature rise is detect	ted. Then the Main Turbine load ascension is initiated.			
d. The crew initiates the Main Turbine load	ascension and waits until a RCS tempera	rature lowering is detected. Then the RCS dilution is initiate	d.		
Anovior C Exam Loval P. Cog.	Him Lovel Momony Facil	ility: - Salem 1 & 2 - ExamDate: - 9/26/2	011		
KA: 194001G137 2.1.37 RO Va	ue: 4.3 SRO Value: 4.6 Section:	PWG RO Group: 1 SRO Group: 1 55.43			
System/Evolution Title		GENE	ERI		
KA Statement:					
No to Remark Street of Address	delines, or limitations associated with rea	activity management. page 8, 4.6.5, "Typically, during planned load changes wher			
Answers: dilution or boration is required	, start with the dilution or boration. The ini	racters have the correct actions in the wrong order.			
Reference Title	Facility Reference Number	Reference Section Page No. Revision			
Reactivity Management	OP-AA-300	8 4			
]			
C.O. Number RXOPERE018 RXOPERE020					
Material Required for Examination					
Question Source: New	Question Modification Method:	Used During Training Program] 🗆		
Question Source Comments					
Comment	Comment				

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List	SRO System/Ev	olution List	Outline Cha	inges		
Question Topi	RO 68							
Given the follow	ving conditions:	. 1999 - Angel State (1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999						
	 On your shift today, a component's normal monthly surveillance item is determined to have been scheduled incorrectly, and it has been 34 days since it was last performed. 							
Which of the fo	Which of the following statements describes the status of the affected component?							
	ponent must be declared INOPE has been exceeded.	RABLE at the time of	discovery beca	use the 24 ho	our time limit all	owed past	the normal s	urveillance
	ponent remains OPERABLE bec nce completion, which has not be		fications allow a	a 25% time e	xtension of the	normal surv	eillance inte	rval for
	ponent remains OPERABLE ON PERABILITY, otherwise the con				ich a SAT surv	eillance mu	ist be perfori	ned to
	ponent must be declared INOPE PERABLE for the system in whic					system, or	component	(SSC) is
Answer b	Exam Level R Cogn	tive Level Applica	ition Fa	acility: Sal	em 1 & 2	ExamDa	ate:	9/26/2011
KA: 194001G2	12 2.2.12 RO Valu	e: 3.7 SRO Value	4.1 Sectio	n: PWG	RO Group:	1 SRO G	roup: 1	55.43
System/Evolution	on Title							GENER
KA Statement:								
1	Knowledge of surveillance proc							
Explanation of Answers:							4.0.3 th the 4 hours or	
	Surveillance. If the Surveillance is not performed within the delay period, the Limiting Condition for Operation must immediately be declared not met and the applicable Actions must be entered." A is incorrect because the 25% "Grace Period" (which is 7.75 days for a 31 day monthly surveillance) has not been exceeded. C is incorrect (and different from Distracter A) because the 24 hour time limit is incorrect AND it says it would be applied from time of discovery, not added to the normal surveillance interval. D is incorrect because there is no requirement to check other SSC of that system with regards to how it affects the component which has exceeded its monthly surveillance interval.						race Period" cter A) nal	
	Reference Title	Facility Referen	ce Number	Reference	Section	Page No.	Revision	
Salem Tech Spe	VICE PARTY ACCOUNTS ACCOUNTS AND ACCOUNTS ACCOUN		1713 (1771) (1777) (1888) (1	i Bosseze <u>, S.I.I.E. A</u>	<u>2.1.20001014</u> 0	3/4 0-3	279	

L.O. Number TECHSPE014

Objectives

RO SkyScraper RO System/Evolution List SRO System/Evolution List Outline Changes					
Question Topic RO 69					
Given the following conditions on Unit 2:					
 Reactor power is 75%. A RCS leak rate surveillance indicates the following: Total Corrected Volume leak rate is 4.0 gpm. Leakage to PRT is 2.0 gpm. Leakage to the Reactor Coolant Drain Tank is 1.3 gpm. Total primary to secondary leakage is 0.125 gpm. Which one, if any, of the following Technical Specification leakage limits has been exceeded? 					
a. None.					
b. Identified.					
c. Unidentified.					
d. Primary-to-Secondary.					
Answer c Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011					
KA: 194001G222 2.2.22 RO Value: 4.0 SRO Value: 4.7 Section: PWG RO Group: 1 SRO Group: 1 55.43					
System/Evolution Title					
KA Statement:					
Knowledge of limiting conditions for operations and safety limits. Explanation of Answers: 55.41(5,10) Modified stem conditions to make a distracter (primary-to-secondary)correct, and the former correct (unidentified) answer incorrect. Salem TSAS 3.4.7.2 states the limits on RCS leakage to be 1 gpm for unidentified leakage, 10 gpm for identified leakage, and 150 gallons per day through any one steam generator. The 0.125 gpm pri-to-sec leakage is 180 gpd. PRT leakage is identified, so while it is >1 gpm, its limit is 10 gpm. RCDT leakage is unidentified, so since it is >1 gpm, its limit is exceeded.					
Reference Title Facility Reference Number Reference Section Revision					
Salem Tech Specs 3.4.7.2 3/4 4-17 282					
L.O. Number Objectives TECHSPE015 Objectives					
Material Required for Examination					
Question Source: Facility Exam Bank Question Modification Method: Significantly Modified Used During Training Program					
Question Source Comments Salem 2002 RO NRC Exam (4 NRC Exams ago)					
Comment					

RO SkyScraper SRO Skyscraper RO Syst	tem/Evolution List SRO System/Evolution List Outline Changes
Question Topic RO 70	
Which of the following Unit 2 conditions will requi	ire entry into an ACTIVE Tech Spec LCO Action?
With Unit 2 in	
C. MODE 3, 21AF21 AUX FEED - S/G LEV d. MODE 4, 2PR3 PZR Code Safety Valve	Source Range NI control power supply fuses blow. /EL CONTROL VALVE is discovered in the jacked shut position. Is declared INOPERABLE with 2PR4 and 2PR5, PZR Code Safety Valves OPERABLE. Itive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011
System/Evolution Title	GENERI
	General
KA Statement: Ability to recognize indications f	for system operating parameters which are entry-level conditions for technical specifications.
Answers: are required. An OPERABLE S	E PZR Code Safety is required to be OPERABLE. 3.4.2 In MODE 1, 2 independent SW loops SW loop consists of one pump from each vital bus plus 2 pumps per bay. 3.7.4. SO.SW-0005, Att 2 only ONE SR is required. 3.3.1.1 Table 3.3-1.6.b. ALL 3 AFW pumps and flow paths are required -3. 3.7.1.2
Reference Title	Facility Reference Number Reference Section Page No. Revision
Salem Tech Specs	
Service Water System Operation	S2.OP-SO.SW-0005
L.O. Number Objectives	· · · · · · · · · · · · · · · · · · ·
Material Required for Examination	
Question Source: Facility Exam Bank	Question Modification Method: Direct From Source Used During Training Program
Question Source Comments J-ROC69	
Comment	

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List SRO System/Evo	olution List Outline C	hanges		
Question Topic	c RO 71					
Given the follow	ving conditions:					
 Unit 2 has ex A leak must I The general a In order to re high radiation The worker c 	n area for 2 minutes and return vie currently has an accumulated ann	Bldg. pipe tunnel. he repair is 600 mrem/hr. worker must transit through a 6 Rem/ a the same path.		DT exceed th	ne Current Ann	ual TEDF
	Dose Control Level at PSEG Nucl					
a. 70 minut	es.					
b. 120 minu	utes.					
c. 140 minu	ites.					
d. 160 minu	ites.					
		Fa				
			cility: - Salem 1 & 2	ExamD		9/26/2011
A: <u>194001G30</u>		e: 3.2 SRO Value: 3.7 Section	RO Group:	1 SRO (Group: 1	55.43
stem/Evolutio	on Title	<u>.</u>				GENERI
A Statement:	Knowledge of radiation exposur	e limits under normal or emergency c	onditions		_	
ISWERS	mrem = 800 mrem. ADL of 2000 Control Level. 1200 mrem /600 incorrect - Based on calculating Control Level (2000) and NO tra		wable before reaching the sed on using limit of 1500 correct - Based on using t	e Annual TE versus corre the Annual T	DE Administra ect ADL (2000 EDE Administ	ative Dose I); C is
LULY COURCE OF BODY COMPANY	Reference Title	Facility Reference Number	Reference Section	Page No.	Revision	1
(posure Contro	I and Authorization	RP-AA-203			5	
					· []	
O. Number	Objectives					
aterial Require	ed for Examination					
estion Source	e: Facility Exam Bank	Question Modification Method:	Direct From Source	Used Durin	ng Training P	rogram
Jestion Source	e Comments Vision Q44899					
omment						

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes					
Question Topic	RO 72					
Given the followir	ng conditions:					
 Unit 2 is at 100 All Unit 1 & 2 0 21,23 & 26 Set 21 CVCS Monit 	 Unit 1 is in Mode 2, with all Shutdown Banks withdrawn. Unit 2 is at 100% power All Unit 1 & 2 Circulating Pumps are in service 21,23 & 26 Service Water Pumps are running 21 CVCS Monitor Tank is being released via 22 CCW Hx to the Circulating Water System 					
a. Unit 1 Rx t	a. Unit 1 Rx trips.					
b. 21 CCW P	Pump trips.					
c. The 11A &	A 11B Circulators trip.					
d. 23 Service	e Water Pump trips and header pressure drops from 115 to 105 psig.					
Answer C	Exam Level R Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011					
KA: 194001G311	1 2.3.11 RO Value: 3.8 SRO Value: 4.3 Section: PWG RO Group: 1 SRO Group: 1 55.43					
System/Evolution	n Title					
KA Statement:						
	Ability to control radiation releases.					
Answers:	55.41(13) S2.OP-SO.WL-0001 states at step 5.5.9 that the released is to be terminated upon loss of dilution water flow. 22 SW header discharges into the outlet of 11A and 11B circulators. A Unit 1 trip does not constitute an "emergency", so the requirements of OP-SA-106-101-2001 Operating with an Emergency on the Opposite Unit is not applicable. Normal SW header pressure is 105-125, the SW flow from the remaining 2 pumps in service will maintain flow to the CCHX. Trip of an operating CCW pump would result in an auto start of the standby pump and the CCW system remains in service.					
L.O. Number WASLIQE012	Objectives					
Material Required	d for Examination					
Question Source:	Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program					
Question Source	Comments VISION Q119138					
Comment						

RO	SkyScraper	SRO S	Skyscraper	RO Syst	em/Evolution L	ist Si	RO System/E	volution Li	st Outline	Changes		
Ques	stion Topic	RO 73	3				_					
Give	n the follow	ing condit	tions:						Mana and a second s			
- Op	nit 2 has ex perators ha lock.	perienced ve entere	l a steam lir d 2-EOP-FF	ne break insi RTS-1, Res	ide containme ponse to Imm	nt. inent Press	surized The	rmal				
Why	Why will the operators be instructed to terminate SI and start a RCP if possible?											
,												
a.	The soak	required	by FRTS-1	requires SI	to be secured	and a RCF	P to be run	ning to pro	ovide ability to us	se spray to	depressuriz	e primary.
b.				requires SI in as the RC		. A RCP s	should be s	tarted to e	equalize boron c	oncentratio	n throughou	it the primary to
C.					outor to any co adient across			crease or	overpressure co	ondition and	d must be te	erminated. A
d.					outor to any co I and warm re			crease or	overpressure co	ondition and	d must be te	erminated. A
Answe	ər d	Exam L	evel R	Cogni	Con Properson and Action	Memory		acility:	Salem 1 & 2	Exa	mDate:	9/26/2011
KA:	194001G41	8	2.4.18	RO Value	e: 3.3 SRC	Value: 4	.0 Secti	on: PW	G RO Group:	1 SR	O Group:	1 55.43
Syster	m/Evolutio	n Title						-				GENERI
KA St	atement:	Knowled	an of the si	becific bases	s for EOPs							· · · · ·
Explai Answe		terminati the basis cold inco start is a	ing SI. B is s for RCP st oming ECCS ttempted."	a incorrect b tart is not co S water and Additionally	ecause the so prect. D is co the warm rea	oak is not th rrect becau ctor coolan ution is desi	ne basis foi use Basis E t water, an ired if inver	terminati Document d therefor	riority in FRTS-1 ng SI. 'C is inco states for step S e decrease the I subcooling are a n in RCS pressu	rrect becar starting a ikelihood o dequate be	use the SI b RCP…"in o f a PTS con	asis correct but rder to mix the dition, an RCP
5.2 7 57		Reference		eves tes tra nuñ	Facility	Reference	Number	Rofard	nce Section	Page N	o. Revisio	
Respo	energenergen die menige	dz lat. Alfgilenin I F.N.	Thermal Sh	ock	2-EOP-FRT	PARLEY PROFESSION	Mumber				25	
2.08/11.2/19.11	umber 00E007		Obje	ctives								· · · · · · · · · · · · · · · · · · ·
Materi	al Require	d for Exa	amination									
Quest	ion Source	e: Oth	er Facility		Question Mo	dification I	Method:	Editoria	lly Modified	Used D	uring Train	ing Program
Quest	ion Source	e Comme	nts 5/30,	/2003 Seabi	ook NRC exa	m		- 124				
Comm	ient											
[

RO SkyScraper SRO Skyscraper RO Sys	tem/Evolution List SRO System	n/Evolution List Outline C	Changes					
Question Topic RO 74								
Given the following conditions:								
Unit 2 is operating at 100% power. OHA A-7, FIRE PROT FIRE, annunciates. Panel 2RP5 is checked and indicates the followi - Zone 59 - Air and Water Deluge, Containm - Zone 74 - Smoke and Fire Detector, Contai Which of the following describes how the Contro	ent El. 100 Panel 335 is lit. inment El. 100 Panel 335 is lit.							
a. Verify OHA A-15, FIRE PUMP 1/2 RUN is in alarm signifying a Diesel Fire Pump has auto started to supply Fire Protection water to associated deluge valves in containment.								
b. Dispatch a NEO to open the associated d	eluge valves at their outside conta	ainment penetration location.						
Dispatch a NEO to open the 2FP147, FP	CONTAINMENT IV.							
d Open the 2FP147 from the control room.								
Answer d Exam Level R Cogni	itive Level Memory	Facility: Salem 1 & 2	ExamDate: 9/26/2011					
KA: 194001G427 2.4.27 RO Valu	e: 3.4 SRO Value: 3.9 Sec	tion: PWG RO Group:	1 SRO Group: 1 55.43					
System/Evolution Title			GENERI					
KA Statement:								
Knowledge of "fire in the plant"	procedures. states that if both zones 59 and 7							
Answers: control room on 2RP5. B is in	correct because the deluge valves rol room. A is incorrect because	are automatic and in contain	nment. C is incorrect because the auto started since the FP147 has to be					
Reference Title	Facility Reference Number	Reference Section	Page No. Revision					
No. 1 & 2 Units Fire Protection	205222-2		60					
Overhead Annunciators - Window A	S2.OP-AR.ZZ-0001		22 51					
		,						
L.O. Number FIRPROE004 FIRPROE008								
Material Required for Examination								
Question Source: Facility Exam Bank	Question Modification Method:	Editorially Modified	Used During Training Program					
	modified stem to make it what we ed choices and added valve identi		stead of what is the status of the FP					
Comment								
			•					

RO	SkyScraper	SRO Skyscraper	RO Syster	m/Evolution L	ist	SRO Sy	stem/Evo	olution List	Ou	tline C	hanges			
Ques	tion Topic	RO 75												
An Al	lert has be	en declared at Salem.												
New		lowing identifies the PRI d how long from the Aler												
a. b.	NETS ph	ones within 15 minutes. ones within 30 minutes. ones within 15 minutes.												
d.	ESSX ph	ones within 30 minutes.		nir Brote - Marke										
Answe	a a	Exam Level R	Cognitiv	ve Level	Memory		Fa	cility:	Salem 1 8	<u> </u>	Ex	amDa	ate:	9/26/2011
KA : 1	194001G44	3 2.4.43	RO Value:	3.2 SRC) Value:	3.8	Section	PWG	RO G	roup:	1 S	RO G	Froup: 1	55.43
Systen	n/Evolutio	n Title												GENER
KA Sta	atement:	-												
Explar Answe	hation of ers:	Knowledge of emergen 55.41(10) Salem ECG, Telecommunications S closed circuit system, v declaration of an Emerge	lists the co ystem) is t vhich is us	ommunication he primary of	ons syste	ems in o	order of	ation syst	em for of	f-site no	otificatio	ons. T	The ESSX i	
(Reference Title	evan i	Facility I	Referenc	e Num	ber	Referen	ce Sectio	on	Page	No.	Revision	
Salem	ECG - Att	a martin of the strategy of the strategy of		19.485-1 <u>9.2</u> .22.1		101 - 101 - 101		Minister in a star	<u> </u>				55	
Emerg	ency Prep	aredness Training Comr	nunicat	NEPCOMMI	DTYSC								04	
L.O. NI GENIS	umber SSE013	Objectiv	/és										L	
Materia	al Require	d for Examination												
Questi	on Source	New	Qu	lestion Mo	dification	n Metho	od:				Used I	Durin	ig Training	Program
Questi	on Source	Comments												
Comm	ent													

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List SRO System/Ev	olution List Outline C	hanges			
Question Topic	SRO 1						
Given the follow	ing conditions:		**************				
 Unit 2 is in MODE 4, performing a RCS heatup and pressurization IAW S2.OP-IO.ZZ-0002, Cold Shutdown to Hot Standby. RCS Tavg is 210°F. RCS pressure is 310 psig. 23 RCP is in service. 21 Charging pump is in service. 23 CCW pump is C/T. 2A and 2C 4KV Vital buses are powered from 24 SPT. 2B 4KV vital bus is powered from 23 SPT. 2A SPT loses power, and NEITHER 2A nor 2C 4KV vital buses transfer to alternate power due to faulty power available relay for 23 SPT. 2A vital bus locks out on bus differential. 2B EDG fails to start. 							
	owing describes now the control	Toont will respond !					
a. enter S2.	OP-AB RCP-0001 and trip 23 R	CP 5 minutes after the receipt of OHA	(s D20-D23 21(22,23,24)	RCP BRG CLO	3 WTR FLO LO.		
b. enter S2. to RCPs.	OP-AB.RCP-0001, Reactor Cool	ant Pump Abnormality, and trip 23 R	CP based on the loss of s	eal injection ar	d thermal barrier flow		
c. enter S2. RCP oper		ging, and check 22 charging pump ha	as started to supply adequ	ate seal inject	on to allow continued		
	OP-AB.CVC-0001, and take acti tion flow is prohibited and 23 RC	ons to start 22 charging pump prior to P trip is required.	o 23 RCP seal package te	mperature risir	ng to the point where		
Answer b	Exam Level S Cogni	tive Level Application Fa	acility: Salem 1 & 2	ExamDa	te: 9/26/2011		
KA: 000015A21	0 AA2.10 RO Valu	e: 3.7 SRO Value: 3.7 Section	n: EPE RO Group:	1 SRO Gr	oup: 1 55.43 🗸		
System/Evolutio	n Title Reactor Coolant Pum	p Malfunctions			015		
KA Statement:		et the following as they apply to Reac	tor Coolant Pump Malfund	tions:			
Explanation of Answers:							
	5 minutes of the alarms annunciating, go to Attachment 2, Tripping RCPs, the loss of both seal injection AND CCW directs RCP trip without any time delay. C is incorrect because while AB.CVC will be entered on the trip of 21 charging pump, 22 charging pump will not have auto started due to its power supply being C/T. D is incorrect because while the action will be taken to restore a charging to available status, the CAS action of AB.RCP will be the priority, and seal package temperature will not stop that action.						
Frank Province Provin	Reference Title	Facility Reference Number	Reference Section	Page No.	Revision		
1.2.2.3.8.1 <u>9.2015.5%2.2.2.2016-01</u>	Reactor Coolant Pump Abnormality S2.OP-AB.RCP-0001						
Loss of Charging		S2.OP-AB.CVC-0001			9		

L.O. Number

ABRCP1E003

Objectives

Question Topi	c SRO 2					
Given the follow	wing conditions:				· · · · · ·	
- Unit 2 is in M	ode 5 with 21 Residual Heat Rer	noval (RHR) pump and HX in service				
for cooling. - The RO report	rts that Pressurizer (PZR) level is	s slowly lowering unexpectedly.				
 NO Overhead 	Annunciator alarms have been ater Storage Tank (RWST) level	received.				
	Id Up Tank level is rising slowly.	3 3 4 5 6 .				
Which of the fol	llowing identifies the procedure v	which will be used and the action(s) ta	ken in that procedure whic	h will isolate	this leak?	
a. S2.OP-A	B.RHR-0001, Loss of RHR. Clo	se 2CV8, RHR Letdown.	an a			
b. S2.OP-A	B.LOCA-1, Shutdown LOCA. C	lose 2CV8, RHR Letdown.				
c. S2.OP-A	B.RHR-0001, Loss of RHR. Pla	ce 22 RHR pump and HX in service a	ind isolate 21 RHR loop.			
d. S2.OP-A	B.LOCA-1, Shutdown LOCA, P	lace 22 RHR pump and HX in service	and isolate 21 RHR loop.			B
	·	1999		270723		
nswer a			acility: Salem 1 & 2	ExamD		9/26/2011
A: 000025G40	2.4.6 RO Val i	ie: 3.7 SRO Value: 4.7 Sectio	n: EPE RO Group:	1 SRO G	Froup: 1	55.43 🗹
- 142.000 27.201	Don Title Loss of Residual Hea	at Removal System				025
- DECENTRATION - N. F.						025
XA Statement:	Knowledge of EOP mitigation s		A is applicable in MODE 3	with Accumu	ulators isolated	
A Statement: xplanation of	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s	strategies. acters are incorrect because AB.LOC, item, it is the wrong procedure, althou	igh it has the correct action	n in distracter	B. A is correct	or MODE
A Statement:	Knowledge of EOP mitigation s 55.43(5) The 2 AB LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong actio	strategies. acters are incorrect because AB.LOC, item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The actio	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo	in distracter to rise. Dist ove BOTH lo	r B. A is correct tracter C is inco ops from service	or MODE ot because
A Statement: xplanation of nswers:	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong actio isolate BOTH loops in an attem	acters are incorrect because AB.LOC, tem, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to t	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from service ak is	or MODE ot because
A Statement: xplanation of nswers:	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title	strategies. acters are incorrect because AB.LOC, item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action of the stop the leak, then continue to t Facility Reference Number	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo	in distracter to rise. Dist ove BOTH lo	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers:	Knowledge of EOP mitigation s 55.43(5) The 2 AB LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong actio isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers:	Knowledge of EOP mitigation s 55.43(5) The 2 AB LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong actio isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC, item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action of the stop the leak, then continue to t Facility Reference Number	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: oss of Residual	Knowledge of EOP mitigation s 55.43(5) The 2 AB LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong actio isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: oss of Residual hutdown LOCA	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: I oss of Residual hutdown LOCA	Knowledge of EOP mitigation s 55.43(5) The 2 AB LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong actio isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attern Reference Title Heat Removal	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: oss of Residual hutdown LOCA O. Number BRHR1E005 BRHR1E004	Knowledge of EOP mitigation s 55.43(5) The 2 AB LOCA distration 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action opt to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001	igh it has the correct action is causing the WHUT leve n in the AB.RHR is to remo the and identify specifically	in distracter to rise. Dist ove BOTH lo where the le	r B. A is correct tracter C is inco ops from servic ak is	or MODE ot because
A Statement: xplanation of nswers: oss of Residual hutdown LOCA 0. Number BRHR1E005 BRHR1E004 aterial Require	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001 S2.OP-AB.LOCA-0001	igh it has the correct action is causing the WHUT leven in the AB.RHR is to remo ry and identify specifically Reference Section	Page No.	Revision	or MODE t because prrect ce and
A Statement: xplanation of nswers: I oss of Residual hutdown LOCA O. Number BRHR1E005 BRHR1E004 aterial Require uestion Source	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives ed for Examination Facility Exam Bank	strategies. acters are incorrect because AB.LOC. item, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action to stop the leak, then continue to the Facility Reference Number S2.OP-AB.RHR-0001 S2.OP-AB.LOCA-0001	igh it has the correct action is causing the WHUT leven in the AB.RHR is to remo the and identify specifically Reference Section	Page No.	r B. A is correct tracter C is inco ops from servic ak is Revision 17 8 9 9 9 9 9 9 7 7 9 9 9 7 7 9 9 9 9	or MODE t because prrect ce and
A Statement: xplanation of nswers: I oss of Residual hutdown LOCA O. Number BRHR1E005 BRHR1E004 aterial Require uestion Source	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives ed for Examination Facility Exam Bank	Acters are incorrect because AB.LOC. tem, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action to stop the leak, then continue to t Facility Reference Number S2.OP-AB.RHR-0001 S2.OP-AB.LOCA-0001 Question Modification Method:	igh it has the correct action is causing the WHUT leven in the AB.RHR is to remo the and identify specifically Reference Section	Page No.	r B. A is correct tracter C is inco ops from servic ak is Revision 17 8 9 9 9 9 9 9 7 7 9 9 9 7 7 9 9 9 9	or MODE t because prrect ce and
A Statement: xplanation of nswers: oss of Residual hutdown LOCA O. Number BRHR1E005 BRHR1E004 aterial Require uestion Source uestion Source	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives ed for Examination Facility Exam Bank	Acters are incorrect because AB.LOC. tem, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action to stop the leak, then continue to t Facility Reference Number S2.OP-AB.RHR-0001 S2.OP-AB.LOCA-0001 Question Modification Method:	igh it has the correct action is causing the WHUT leven in the AB.RHR is to remo the and identify specifically Reference Section	Page No.	r B. A is correct tracter C is inco ops from servic ak is Revision 17 8 9 9 9 9 9 9 7 7 9 9 9 7 7 9 9 9 9	or MODE t because prrect ce and
A Statement: xplanation of nswers: oss of Residual hutdown LOCA O. Number BRHR1E005 BRHR1E004	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives ed for Examination Facility Exam Bank	Acters are incorrect because AB.LOC. tem, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action to stop the leak, then continue to t Facility Reference Number S2.OP-AB.RHR-0001 S2.OP-AB.LOCA-0001 Question Modification Method:	igh it has the correct action is causing the WHUT leven in the AB.RHR is to remo the and identify specifically Reference Section	Page No.	r B. A is correct tracter C is inco ops from servic ak is Revision 17 8 9 9 9 9 9 9 7 7 9 9 9 7 7 9 9 9 9	or MODE t because prrect ce and
A Statement: xplanation of nswers: I oss of Residual hutdown LOCA O. Number BRHR1E005 BRHR1E004 aterial Require uestion Source uestion Source	Knowledge of EOP mitigation s 55.43(5) The 2 AB.LOCA distra 4. With MODE 5 indicated in s the 2CV8 will be isolated and it because it has the wrong action isolate BOTH loops in an attem Reference Title Heat Removal Objectives ed for Examination Facility Exam Bank	Acters are incorrect because AB.LOC. tem, it is the wrong procedure, althou is the correct action for a leak which n, with the right procedure. The action to stop the leak, then continue to t Facility Reference Number S2.OP-AB.RHR-0001 S2.OP-AB.LOCA-0001 Question Modification Method:	igh it has the correct action is causing the WHUT leven in the AB.RHR is to remo the and identify specifically Reference Section	Page No.	r B. A is correct tracter C is inco ops from servic ak is Revision 17 8 9 9 9 9 9 9 7 7 9 9 9 7 7 9 9 9 9	or MODE t because prrect ce and

Question Topic SRO 3	scraper RO Sys	tem/Evolution List SRO System/Evo	olution List Outline C			
Given the following conditio - Unit 2 is operating at 219 - Turbine load is being rais - Operators observe the fo - OHA E-28 PZR HTR O - PZR level is 28% and l - Control Rods begin ste - OHA C-38 CFCU LK D - Rx power is rising at 0. Which of the following ident a. Enter S2.OP-AB-RC- and trip the Rx, confi b. Enter S2.OP-AB-RC- C. Enter S2.OP-AB-RC-	6 power. ed at 10% per hour. llowing: N PRESS LO alarms owering slowly. opping out in automati ET HI alarms. 35% per minute. fies how these cond 0001, Reactor Coola m the Rx trip, initiate 1-0001, Excessive S close all MSIVs.	ic at 8 spm.	1, Reactor Trip Response AFW, lower power to <5% Trip the Rx and initiate Saf	6 IAW S2.O	P-IO.ZZ-0005, , GO TO EOP	Minimum
		tive Lovel Application Fa	cility: - Salem 1 & 2		Astron	9/26/2011
				_ExamE		
	2.02 RO Valu	e: 4.6 SRO Value: 4.7 Section	n: EPE RO Group:	1 SRO	Group: 1	
System/Evolution Title	Steam Line Rupture					040
	etermine and interpre requiring a reactor tr	et the following as they apply to Steam	Line Rupture:			
Answers: while the tu described i the action i	Irbine load increase i n D above. A is inco s incorrect also. B is er was stable	the indications in the stem are of a ste is at 10% per hour. AB.STM states the prrect because only some of the indicates incorrect because the actions descri- mentations descriptions and the states of the Facility Reference Number	hat if Rx power is rising un ations present in stem wou	controllably, ild be prese	, take the action ent for aa RCS I were outside c	ns as eak, and
Excessive Steam Flow		S2.OP-AB.STM-0001		I age No.	9	
Reactor Coolant System Lea	k	S2.OP-AB.RC-0001			10	
			1			
.O. Number	Objectives					
ABSTM1E004	18-112-1-24 I					
ABSTM1E004						
ABSTM1E004 Material Required for Exam Question Source: New		Question Modification Method;		Used Duri	ng Training Pi	ogram
ABSTM1E004		Question Modification Method:		Used Duri	ng Training Pi	ogram

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List SRO System/E	volution List Outline C	hanges					
Question Topic	SRO 4								
Given the follow	ring conditions:								
- 21 CVCS Mo Liquid Radwa	 21 CVCS Monitor Tank is in recirc. 21 CVCS Monitor tank will be released via the Waste Discharge Cross Connection to Unit 1 Liquid Radwaste system IAW S2.OP-SO.WL-0001, Release of Radioactive Liquid Waste from 21 CVCS Monitor Tank. 								
	Which of the following describes an action which would result in an unmonitored Radioactive Liquid Release if it was performed AFTER the Liquid Release was started, and require operator action to stop the release?								
a. Unit 1 CF	RS authorizes a tagging request v	which results in the 1R18, Liquid Wa	ste Disposal Rad monitor I	losing its power source.					
b. Unit 2 CF	RS authorizes a tagging request v	which results in the 2R18, Liquid Wa	ste Disposal Rad monitor l	losing its power source.					
c. Unit 1 CF		which results in the 2FR1064, Rad V	/aste Liquid Monitor Pump	s Discharge flowmeter losing its					
d. Unit 2 CF		which results in the 2FR1064, Rad V	/aste Liquid Monitor Pump	s Discharge flowmeter losing its					
Answer d	Exam Level S Cogni	tive Level Memory	acility: Salem 1 & 2	ExamDate: 9/26/2011					
KA: 000059G23	36 2.2.36 RO Valu	e: 3.1 SRO Value: 4.2 Section	n: EPE RO Group:	2 SRO Group: 2 55.43 ✓					
System/Evolutio	n Title Accidental Liquid Rac	dwaste Release		059					
KA Statement:									
	Ability to analyze the effect of more analyze th	naintenance activities, such as degra	ided power sources, on the	e status of limiting conditions for					
Explanation of Answers:	were contained in Radiological 6.8.4.1.g.1, and Table 3.3-12 or so that if the R18 loses power, t	n page 19, the R18 and the FR1064 the WL51 will shut, preventing an ur	ed in the ODCM. Using OI required to be operable. monitored release, and no	DCM 3.3.3.8, IAW Salem Tech Specs The R18 is interlocked with the WL51 operator action would be required to					
	stop the flow of water overboard. The Flow recorders (ER1064) are also required for releases. There is no comparable interlock between the flow recoder and the WL51, so the release would be considered unmonitored based on the fact that a required component was not available, and the release is ongoing. Loss of the flow recorder during the release requires operators to close the 2WL51 IAW step 5.5.9. The Unit 1 distracters require knowledge of the flow path for a release which is directed through the cross connect line.								
	Reference Title	Facility Reference Number	Reference Section	Page No. Revision					
Salem ODCM									
RELEASE OF R	RELEASE OF RADIOACTIVE LIQUID WASTE S2.OP-SO.WL-0001								
Waste Disposal WL51 203679 18									

L.O. Number WASLIQE009

Objectives

RO SkyScraper	SRO Skyscraper	RO System/Evolution List	SRO System/Evolution List	Outline Changes	
Question Topic	SRO 5				
Given the following	g conditions:				······
 21, 24 and 26 S 21 and 22 SW I The following O B-13, 21 SV B-14, 22 SV B-15, TURE B-48, SW V The standby SW p Which of the follow 	W HDR PRESS LO W HDR PRESS LO & AREA SW HDR PI /LV RM FLOODED. pump starts automat wing describes the s	e 108 psig. hin 10 seconds of each other RESS LO. tically, and OHAs B-13, B-14, tatus of the SW system, and			
b. A SW leak	upstream of the 2ST	1901, TURB LO CLR ST RET	V has occurred. S2.OP-SO.SV	W-0001, Loss of Service	Water Header Pressure.
c. A SW leak i Header.	in the CFCU piping	in the 78' Mechanical Penetra	ation Area has occurred. S2.Of	P-AB.SW-0002, Loss of	Service Water-Turbine
d. A SW leak i Pressure.	in the CFCU piping	in the 78' Mechanical Penetra	ation Area has occurred. S2.OI	P-SO.SW-0001, Loss of	Service Water Header
Answer d f	Exam Level S	Cognitive Level Appl	lication Facility: Sal	em 1 & 2 Exam	Date: 9/26/2011
KA: 000062A202	AA2.02	RO Value: 2.9 SRO Val	ue: 3.6 Section; EPE	RO Group: 1 SRO	Group: 1 55.43 V
System/Evolution.	Title Loss of Nu	clear Service Water		<u> </u>	062
KA Statement: A	bility to determine a	nd interpret the following as t	hey apply to Loss of Nuclear S	ervice Water:	
T	he cause of possible	e SWS loss			
Answers: of ar pr	f where the SW value and depending on learno	re room and what piping is the ak size could cause a restorat used. Although AB.SW-1 is e	th the conditions in the stem ex ere is needed to answer questi- tion of header pressures. If the entered for all the conditions in the go to AR SW-2 for the TGA is	on. The 2ST901 would r leak is determied to be the stem, it does NOT pr	espond on a TGA leak, in the TGA, the AB.SW-2
Ret	ference Title	Facility Refer	rence Number Reference	Section Page No.	Revision
Loss of SW Header	w <u>1997 - 19</u> 3 - 295 Metrika (m. 1997 - 1997	S2.OP-AB.SW-0	CONTRACTOR AND A CALL MARKET AND A CALL AND A		
Loss of SW- Turbin	e Header	S2.OP-AB.SW-00	002		11
Overhead Annuncia	ator Window B	S2.OP-AR.ZZ-00	02		35
L.O. Number ABSW01E005	Objec	tives			
Material Required					
Question Source: Question Source C		Question Modifica	ation Method:	Used Dur	ing Training Program
			na na de mercana antifica de mante de de de la companya de la companya de la companya de la companya de la comp		
Comment					
444				nya tampa ana a filma kanana ang kala gila manang ang	

Question Topic SRO 6		
Given the following conditions:		
 Unit 2 is in MODE 6 entering a Refueling 4 No fuel assemblies have been removed fr Rx cavity level is 26' above the PRV flang 21 RHR loop is in service in Shutdown Co 22 RHR loop is O/S. Which one of the following would prevent init 	rom the Rx. le. poling.	
a. Loss of Control Air to containment.		
b. Loss of Plant Page capability in conta	inment.	
c. Racking down the 22 RHR pump 4KV	/ breaker.	
d. Only one of the two SRNI's can provid	de audible indication in the Control Room.	
Answer a Exam Level S Co	ognitive Level Memory Fac	ility: Salem 1 & 2 ExamDate: 9/26/2
KA: 000065G136 2.1.36 ROV	Value: 3.0 SRO Value: 4.1 Section:	EPE RO Group: 1 SRO Group: 1 55.43
System/Evolution Title Loss of Instrumer		065
CA Statement:		
	Ind limitations involved in core alterations.	
Answers: providing AUDIBLE indication containment would preclude loops are required to be OP	on in the control room. The manipulator cra e being able to perform core alts. Onlt ONE PERABLE when <23' level above the flange	
Reference Title	Facility Reference Number	Reference Section Page No. Revision 13 17
Reac Pene Area & Cont Control Air	205347-1,3	
L.O. Number Objectives		
	<u>.</u>	
REFUELE007		
REFUELE007	Question Modification Method:	Used During Training Program
IOP009E002 REFUELE007 Material Required for Examination Question Source: New Question Source Comments	Question Modification Method:	Used During Training Program
REFUELE007	Question Modification Method:	Used During Training Program

RO SkyScraper RO Syst	em/Evolution List SRO System/Ev	olution List Outline Cl	hanges	
Question Topic SRO 7				
Given the following conditions:		and and a second se		
 Unit 1 has experienced a large Main Steamline 100% power. Safety Injection was initiated. MSLI has failed to shut ANY MS167 and they 11 AFP is C/T. 12 and 13 AFP's tripped after starting. RCS pressure is 700 psig. ALL RCPs have been tripped. Containment pressure is 18 psig and rising. ALL Wide Range SG levels are 35% and dropping. RCS Tc's have dropped from 540°F to 230°F i Evaluate the data and select the procedure to be a. 1-EOP-FRHS-1, Response to Imminent Pressure is 18 prize to Loss of Sectors of Sectors and the sectors and the sectors of Sectors and the sect	remain open. ping. n 20 minutes. <u>entered and action to be taken upon</u> ressurized Thermal Shock Conditions conday Heat Sink; initiate feed and ble	transition out of 1-EOP-Ti ; shut all MS10's and stea eed immediately.		
d. 1-EOP-FRTS-1, reset Safeguards Actuation				
		cility: Salem 1 & 2	ExamDa	
KA: 00WE05G406 2.4.6 RO Value	e: 3.7 SRO Value: 4.7 Section	1: EPE RO Group:	1 SRO G	
System/Evolution Title Loss of Secondary He	eat Sink			E05
KA Statement:				
Answers: <a>	e conditions given in stem would trar eed initiation criteria are when S/G V ecause it is a lower priority RED path	VR levels are <36%(adver	se), NOT 32	% as in distracter c.
Reference Title	Facility Reference Number	Reference Section	Page No.	Revision
Response to Loss of Seconday Heat Sink	1-EOP-FRHS-1			24
Response to Imminent Pressurized Thermal Sh	1-EOP-FRTS-1			25
Critical Safety Function Status Trees	1-EOP-CFST-1			25
E.O. Number Objectives		<u></u>		

FRHS00E013

RO SkyScraper RO System/Evolution List SRO System/Evolution List Outline Changes							
Question Topic	SRO 8						
Given the follow	ing conditions:	2) t					
 A Rx trip and SI were initiated based on a LOCA 1 hour ago. Operators have transitioned out of EOP-TRIP-1, Reactor Trip or Safety Injection. RCS pressure is 350 psig and lowering very slowly. All RCPs are stopped. RCS highest CET is 290°F and lowering very slowly. Rx power is 300 cps and stable. RVLIS Full Range is 95% and stable. 21-23 SG NR levels are 33% and stable, and 24 SG NR level is 0%. Containment radiation levels are 500 mr/hr and stable. Containment pressure is 5 psig and lowering very slowly. Containment sump level is 46% and stable. Which of the following identifies the highest priority CFST for these conditions, and actions taken in that associated EOP? 							
Which of the fol	lowing identifies the highest prior	ty CFST for these conditions,	and actions taken in that associa	ated EOP?			
Reference provi							
a. Yellow P	ath Core Cooling. Isolate ECCS	accumulators, depressurize S	Gs to atmospheric pressure.				
b. Purple P	ath Containment Environment. Is	olate Containment Pressure I	Relief flowpath (2VC5, 2VC6) and	return to procedure in effect.			
		olate fluid sources from outsi	de containment which have corro	borating indications of lower than			
	ath Core Cooling, Check ECCS fi ind RPV Head Vents are shut.	ow for current RCS conditions	s as expected or start pumps and	align flow paths, and ensure PZR			
Answer d	Exam Level S Cognit	ive Level Application	Facility: Salem 1 & 2	ExamDate: 9/26/2011			
KA: 00WE07A2	01 EA2.1 RO Value	e: 3.2 SRO Value: 4.0	Section: EPE RO Group:	2 SRO Group: 2 55.43 ✓			
System/Evolution	n Title Saturated Core Coolir	ng		E07			
KA Statement:	Ability to determine and interpre Facility conditions and selection			perations.			
Explanation of Answers:							
	correct. FRCE-1 actions are pa conditions for entering FRCE-1	artially correct, in that you wou were never met so you would	uld isolate VC5 and 6 and return t n't be in procedure < 15 psig cont	o procedure in effect, but the t pressure.			
	Reference Title	Facility Reference Num	ber Reference Section	Page No. Revision			
Critical Safety Fu	Inction Status Trees	2-EOP-CFST-1		25			
Response to Sat	urated Core Cooling conditions	2-EOP-FRCC-3		20			

L.O. Number

FRCC00E002

Objectives

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List	SRO System/Evo	olution List	Outline C	hanges		
Question Topic	SRO 9							
 Given the following conditions: Unit 2 was operating at 15% power prior to synchronizing the Main Generator. A Main Steamline rupture occurred that resulted in multiple Steam Generators depressurizing in containment before 2 steam generators could be isolated from the 2 faulted SGs. The 2 faulted SGs Tcs are reading 270°F and lowering. The intact 2 SG Tcs are 330°F and stable. RCS pressure is 500 psig and slowly lowering. Containment pressure is 16 psig and slowly lowering. All SG NR levels are <9%. Total AFW flow is 24E4 lbm/hr. 								
Total AFW flow is 24E4 lbm/hr. Source Range NIs are NOT energized. Intermediate Range SUR is 0.0 DPM. With CFST's in effect, which of the following identifies the procedure entry required, and actions which will be performed in that procedure? a. 2-EOP-FRTS-1, Response to Imminent Pressurized Thermal Shock Conditions. Maintain AFW flow >22E4 lbm/hr until at least ONE intact SG NR level is >15%, stop all ECCS pumps except 21 or 22 charging pump.								
b. 2-EOP-FI	RSM-2, Response to Loss of Co	re Shutdown. Energ	ize Source Range	channels	and verify SR	SUR is 0 or	negative.	
c. 2-EOP-FI	RTS-1. Isolate any faulted SGs,	depressurize RCS	with ONE PORV to	o within 10	0°/hr Cooldown	Curve.		
d. 2-EOP-FI	RSM-2. Establish AFW flow >44	E4 lbm/hr, borate R	CS until IR SUR is	s negative.		u <u> </u>		
Answera	Exam Level S Cogni	tive Level Applie	cation Fa	cility: S	alem 1 & 2	ExamD	ate:	9/26/2011
KA: 00WE08A2	01 EA2.1 RO Valu	e: 3.4 SRO Valu	e 4.2 Section	: EPE	RO Group:	1 SRO (Group:	1 55.43 🗸
System/Evolutio	n Title Pressurized Thermal	Shock						E08
KA Statement:	Ability to determine and interpre Facility conditions and selection					erations.		
Explanation of Answers:	Explanation of 55.43(5) A is correct because the stem conditions result in a PURPLE path on FRTS. Actions for maintaining AFW flow (Step 3.5					withn the or PURPLE V flow > 22E4 sts for ERSM-		
	that procedure. D is incorrect b							
	Reference Title	Facility Refere	nce Number	Referenc	e Section	Page No.	Revision	
Critical Safety Fu	nction Status Trees	2-EOP-CFST-1					25	
Response to Imm	Response to Imminent Pressurized Thermal Sh 2-EOP-FRTS-1							
Response to Los	s of Core Shutdown	2-EOP-FRSM-2					20	

L.O. Number

FRTS00E002



RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes						
Question Topi	SRO 10						
Given the following:							
 Given the following: Unit 2 is in Mode 3 following a shutdown after a 200 day run. All RCP's are in operation. Main steam dumps are in MS PRESSURE CONTROL-AUTO @ 1005 psig. 21-24MS10 setpoints are 1015 psig. A transformer fault results in the total loss of off-site power. 15 minutes after the transformer fault, with NO operator action, the following indications are present: All RCS WR Thot's are 559°F and rising slowly. All RCS WR Tcold's are 549°F and stable. All SG NR levels are 39% and stable. PZR level is 23% and rising slowly. 							
a. Lower 21	-24MS10 setpoints to establish CET's stable or lowering IAW S2.OP-IO.ZZ-0008, Maintaining Hot Standby.						
	-24MS10 setpoints to establish CET's stable or lowering IAW S2.OP-AB.RC-0004, Natural Circulation.						
d. Lower Ma	in Steam Dump pressure setpoint to stabilize or reduce RCS Thots IAW S2.OP-IO.ZZ-0008.						
Answer b	Exam Level S Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011						
KA: 00WE09G4	11 2.4.11 RO Value: 4.0 SRO Value: 4.2 Section: EPE RO Group; 1 SRO Group: 1 55.43						
System/Evolution	n Title Natural Circulation Operations E09						
KA Statement:							
	Knowledge of abnormal condition procedures.						
Explanation of Answers: 55.43(5) The loss of off-site power will cause all RCPs and Circulators to stop. Loss of the circulators will cause a loss of Steam Dumps Permissive and all steam dump valves will shut. Steam dumping will transfer to MS10s at 1015 psig from Steam Dumps at 1005 psig. C and D are incorrect because steam dumps will have no effect. A is incorrect with right action but wrong procedure. Ab.RC-4 is entered on a loss of forced circulation in MODES 3 and 4. The stem shows nat cir is NOT present, so the correct answer has to be increase steam flow, but knowing how is required, with the correct procedure.							
	Reference Title Facility Reference Number Reference Section Page No. Revision						
Natural Circulation							
· · · · · · · · · · · · · · · · · · ·							
L.O. Number	Objectives						

L.O. Number ABRC04E001 Objectives

ABRCP1E004

RO SkyScraper SRO SkyScraper RO Syst	tem/Evolution List SRO System/Ev	olution List Outline Ch	anges			
Question Topic SRO 11						
Given the following conditions:						
 Salem Unit 1 is operating at 30% power, performing a shutdown at 30% per hour. The shutdown is being driven by Tech Spec 3.0.3 being entered when BOTH ECCS subsystems were declared inoperable. The unit is required to be in MODE 3 within the next 2 hours. 						
Which of the following describes the effect on the	e Rx if a loss of off-site power occurs,	and how will operators per	rform the required cooldown?			
The Rx						
a. WILL NOT trip. Operators will perform a r	apid cooldown IAW 1-EOP-TRIP-6, N	Natural Circulation Rapid C	ooldown with RVLIS.			
b. WILL trip. Operators will perform a rapid of	cooldown IAW 1-EOP-TRIP-6, Natura	al Circulation Rapid Cooldo	wn with RVLIS.			
c. WILL NOT trip. Operators will perform a r	normal cooldown IAW 1-EOP-TRIP-4	, Natural Circulation Cooldo				
d. WILL trip. Operators will perform a norma	Il cooldown IAW 1-EOP-TRIP-4, Natu	ral Circulation Cooldown.				
Answer b Exam Level S Cognit	tive Level Application Fa	cility: Salem 1 & 2	ExamDate: 9/26/2011			
KA: 002000A203 A2.03 RO Value	e: 4.1 SRO Value: 4.3 Section	1: SYS RO Group:	2 SRO Group: 2 55.43 🗸			
System/Evolution Title Reactor Coolant System	em	· · · · · · · · · · · · · · · · · · ·	002			
	of the following on the Reactor Coola e consequences of those abnormal of		on those predictions, use procedures			
Answers: 10 and < P-8. In order to preve in MODE 3. At the time MODE 6 hours, 197/6= 32.8°F/hr coole	loss of forced flow, based on any of t ent violating Tech Specs, the unit mus 3 is entered (on the Rx trip) Tavg is down required. TRIP-4 maintains a r th RVLIS as it is powered from 115.	st be cooled down to <350 547°F. 547-350=197° deg naximum cooldown rate of	°F (MODE 4) within 6 hours of being rees of cooldown required in the next			
Reference Title	Facility Reference Number	Reference Section	Page No. Revision			
Natural Circulation Rapid Cooldown with RVLIS	1-EOP-TRIP-6		22			
Natural Circulation Cooldown	1-EOP-TRIP-4		22			
RPS Primary Coolant System Trip Signals	221054		10			
L.O. Number Objectives RCS000E007						
Material Required for Examination						
Question Source:	Question Modification Method:		Used During Training Program			
Question Source Comments						
Comment						

Question Topic SRO 12 Given the following conditions: - - Salem Unit 1 has performed a Rx trip and SI based on rapidly lowering PZR pressure and level. - - The crew has transitioned to 1-EOP-LOCA-1, Loss of Reactor Coolant. - Which of the following describes why the first several steps of LOCA-1 check for reasons OTHER than a LOCA for being in LOCA-1? LOCA-1 actions assume					
 Salem Unit 1 has performed a Rx trip and SI based on rapidly lowering PZR pressure and level. The crew has transitioned to 1-EOP-LOCA-1, Loss of Reactor Coolant. Which of the following describes why the first several steps of LOCA-1 check for reasons OTHER than a LOCA for being in LOCA-1? 					
and level The crew has transitioned to 1-EOP-LOCA-1, Loss of Reactor Coolant. Which of the following describes why the first several steps of LOCA-1 check for reasons OTHER than a LOCA for being in LOCA-1?					
- The crew has transitioned to 1-EOP-LOCA-1, Loss of Reactor Coolant. Which of the following describes why the first several steps of LOCA-1 check for reasons OTHER than a LOCA for being in LOCA-1?					
a. a loss of RCS inventory. If the ECCS injection flow is due to a Loss of Secondary Coolant, the event could be terminated by raising AFW flow.					
b. a loss of RCS inventory. If the ECCS injection flow is due to a Loss of Secondary Coolant, the event could be terminated by isolating the faulted SG.					
a SGTR is NOT causing the LOCA condition. If the ECCS injection flow is due to a SGTR, an uneccesary transition to LOCA-3, Transfer to Cold Leg Recirculation would be made.					
d, a SGTR is NOT causing the LOCA condition. If the ECCS injection flow is due to a SGTR, the tube rupture must be addressed before returning to LOCA-1 to terminate ECCS flow.					
Answer b Exam Level S Cognitive Level Memory Facility: Salem 1 & 2 ExamDate: 9/26/2					
KA: 006000G422 2.4.22 RO Value: 3.6 SRO Value: 4.4 Section: SYS RO Group: 1 SRO Group: 1 55.43					
System/Evolution Title Emergency Core Cooling System 006					
KA Statement: Knowledge of the bases for prioritizing safety functions during abnormal/emergency operations.					
Explanation of Answers: 55.43(5) The Major Action Categories for LOCA-1 are : 1. Check for Subsequent Failure, 2. Monitor Plant Equipment for Optimal Mode of Operation, and 3. Determine optimal Method of Long-Term Plant Recovery. The first item checks that a faulted or ruptured SG is not the reason for ECCS injection, and either fixes it on the spot (faulted) or transitions to another more approriate procedure With a faulted SG being the cause of the ECCS flow, LOCA-1 has a "do loop" which will wait unril the SG has blown down to go to TRIP-3 SL Termination, vs. staying in LOCA-1 until the transition to LOCA-2 is made. A transition to SGTR is performed to do actions which will terminate the primary to secondary leakage, which is not performed in LOCA-1. Additionally, there is no transition from SGTR-1 to LOCA-1.					
Reference Title Facility Reference Number Reference Section Page No. Revision					
Loss of Reactor Coolant 1-EOP-LOCA-1 25					
Steram Generator Tube Rupture 1-EOP-SGTR-1 24					
Loss of Secondary Coolant 1-EOP-LOSC-1 20					
LOCA01E005 Objectives SGTR01E003 Objectives LOSC01E002 Objectives					
Question Source: New Question Modification Method: Used During Training Program					
Question Source Comments					
Comment					

			volution L	st Outline Ch	Second day to be an		
Question Topic	SRO 13						
Given the followin	g conditions:						
	ing at 100% power. and remains open.						
		ects the PZR Master Pressure Controller e crew IAW S2.OP-AB.PZR-0001, Press				nces, if an	y, are
a. MPC outpu	t will LOWER. The unit m	ay continue to operate indefinitely after the	he initial	nitigative actions a	re comple	ted.	
b. MPC outpu	t will RISE. The unit may	continue to operate indefinitely after the	initial mit	igative actions are	completed	l	
c. MPC output	will LOWER. A unit shu	tdown will be required if 2PR1 cannot be	restored	to operable status			
d. MPC output	will RISE. A unit shutdo	wn will be required if 2PR1 cannot be res	stored to	operable status.			
Answer c	Exam Level S Co	ognitive Level Application F	acility:	Salem 1 & 2	Exam	Date:	9/26/2011
KA: 010000A203	A2.03 RO V	Value: 4.1 SRO Value: 4.2 Section	n: SYS	RO Group:	1 SRO	Group:	1 55.43 🗸
System/Evolution	Title Pressurizer Press	sure Control System					010
Explanation of 5	se procedures to correct, ORV failures 5.43(2) This question is S	control, or mitigate the consequences of control, or mitigate the consequences of SRO level because of the Tech Spec kno while the question doesn't specifically as	those ab	normal operation:	actions TS	directs for	different PORV
ki Io B	nowledge of the actions IN wers. As pressure lowers lock valve is shut to isolat	N that procedure. The MPC raises output due to the open PORV, the output will lo the the PORV in AR PZR. Tech Spec 3.4.4 ion that DOESN'T require shutdown if no	ut when a ower to tu	ctual pressure rise rn on heaters and o <u>if the PORV is no</u>	s, and low close spray	ers as actu / valves. \ within 72.1	al pressure When the PORV
	ith power maintained to th						
Re	ference Title	Facility Reference Number	Refere	nce Section	Page No.	Revisio	n
S2.OP-AB.PZR-000)1	Pressurizer Pressure Malfunction				18	
Salem Tech Specs			3.4.5				
L.O. Number	Objectives	× .					
ABPZR1E002							
ABPZR1E002 PZRP&LE010							
	for Examination						1
PZRP&LE010	for Examination	Question Modification Method:			Used Duri	ng Traini	ng Program
PZRP&LE010	New				Used Duri	ng Traini	ng Program
PZRP&LE010 Material Required Question Source:	New				Used Duri	ng Traini	ng Program
PZRP&LE010 Material Required Question Source: Question Source C	New	Question Modification Method:			Used Duri	ng Trainii	ng Program
PZRP&LE010 Material Required Question Source: Question Source C	New	Question Modification Method:			Used Duri	ng Trainii	ng Program
PZRP&LE010 Material Required Question Source: Question Source C	New	Question Modification Method:			Used Duri	ng Trainii	ng Program

RO SkyScraper	SRO Sk	vscraper	RO Syst	em/Evolution List SRO System/Evo	olution List Outline C	hanges		
Question Topic SRO 14								
Given the following	Given the following conditions:							
 Unit 2 is opera 23 charging pu A control circu and cannot be 	ump is in s iit malfunct	service. tion has res		e 2CV3, 45 gpm Letdown Orifice oper	ning,			
Which of the follo	owing desc	cribes the ir	mpact this f	ailure will have on operation of the P2	ZR Level Control System,	and how wil	operators resp	ond?
a. 23 chargin	ng pump sp	peed will ris	se. Isolate	letdown and place Excess Letdown ir	n service IAW S2.OP-SO.	CVC-0003, I	Excess Letdown	Flow.
Flow.				Isolate letdown and place Excess L				
Control Co	onsole CC	2.		r to a centrifugal charging pump IAW				
d. 2CV55 will 0012, Con			n direction.	Transfer to a centrifugal charging pu	ump IAW PZR LEVEL LO	alarm respo	nse in S2.OP-A	R.ZZ-
Answer a	Exam Le	velS	Cognit	ive Level Application Fa	cility: Salem 1 & 2	ExamD	ate:	9/26/2011
KA: 011000A201	i A	2.01	RO Value	: 3.2 SRO Value 3.1 Section	RO Group:	2 SRO (Group: 2	55.43 🗸
System/Evolution	n Title	Pressurize	r Level Con	trol System				011
	Ability to (a procedure Excessive	s to correc	he impacts t, control, o	of the following on the Pressurizer Le r mitigate the consequences of those	evel Control System and (abnormal operation:	b) based on	those predictio	ns, use
Answers:	operation I maximum letdown flo	Excess Let flow of ~96 ow will be ~	tdown must 6 gpm. Nor -110 gpm.	tainment Isolation valves, and will re- be placed in service. The 23 charg mally, letdown flow is 75 gpm with or The Master Flow Controller controls 2 With a CCP O/S, the CV55 is in Ma	ging pump (PDP) is norma ne 75 gpm orifice in servic 23 charging pump speed	ally in service e. With the when in serv	e at power. It hat 45 gpm orifice ice, and the CV	as a
R	eference	Title		Facility Reference Number	Reference Section	Page No.	Revision	
Control Console C	CC2			S2.OP-AR.ZZ-0012			35	
Dbjectives								
Material Required			<u></u>					
Question Source				Question Modification Method:		Used Duri	ng Training Pr	ogram
Question Source	Commen	nts						
Comment								

Question Topic SRO 15 Given the following conditions:
 Unit 1 is operating at 100% power. 1PR5, PZR Safety Valve, fails open.
Which of the following identifies what will occur if NO operator action is taken until AFTER the Rx trips, and which procedure will be used upon the transition out of 1-EOP-LOCA-1, Loss of Reactor Coolant?
a. The Main Turbine will runback on OT/DT, then the Rx will trip on OT/DT. 1-EOP-LOCA-2, Post LOCA Cooldown and Depressurization.
b. The Main Turbine will runback on OT/DT, then the Rx will trip on OT/DT. 1-EOP-TRIP-3, Safety Injection Termination.
c. The Rx will trip on Low PZR Pressure. 1-EOP-LOCA-2, Post LOCA Cooldown and Depressurization.
d. The Rx will trip on Low PZR Pressure. 1-EOP-TRIP-3, Safety Injection Termination.
Answer a Exam Level S Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 013000A203 A2.03 RO Value: 4.4 SRO Value: 4.7 Section: SYS RO Group: 1 SSO Group: 1 55.43 ✓
System/Evolution Title Engineered Safety Features Actuation System 013
KA Statement: Ability to (a) predict the impacts of the following on the Engineered Safety Features Actuation System and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal operation: Rapid depressurization Rapid depressurization
Explanation of Answers: 55.43(5) The PZR Safety failing open will cause a SBLOCA. Pressure will rapidly lower, and an OT/DT runback will initiate before the OT/DT Rx trip. The Safety Injection will actuate, and pressure will stabilize ~ 985 psig. With no subcooling, the transition to TRIP-3 cannot be made, and LOCA-2 will initiate a cooldown. The distracters either contain the wrong procedure, the wrong Rx trip actuation signal, or both.
Reference Title Facility Reference Number Reference Section Page No. Revision
Post LOCA Cooldown and Depressurization 1-EOP-LOCA-2
L.O. Number ESF000E021
Material Required for Examination
Question Source: New Question Modification Method: Used During Training Program
Question Source Comments
Comment

RO SkyScraper RO Syst	tem/Evolution List SRO System/Evolution List Outline Changes
Question Topic SRO 16	
Given the following conditions:	
 Unit 2 is in MODE 6. Core off-load is in progress and is 2/3 complet A fuel assembly is in the transfer cart at the SI The mast tube of the manipulator crane is empletering cavity level begins to drop rapidly, a Radiation Protection reports flooding in the low Which of the following describes how the Fuel Transfer or Spent Fuel Pool Level, and the consequence of the second second	pent Fuel Pool. pty. approximately 6 inches per minute. wer elevations of containment. ransfer Tube Gate Valve should be operated IAW S2.OP-AB.FUEL-0002, Loss of Refueling Cavity
	nment, then shut the gate valve when the cart is clear. The fuel transfer cart will stop when the gate
b. START the transfer cart moving to contain reaches its normal travel stop on the contain	nment, then shut the gate valve when the cart is clear. The fuel transfer cart will continue until it ainment side.
Fuel Handling crane and place it into its de	
horizontal position to reduce any radiation	
Answer a Exam Level S Cognit	tive Level Memory Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 034000G435 2.4.35 RO Value	e; 3.8 SRO Value: 4.0 Section; SYS RO Group: 2 SRO Group: 2 55.43 🗸
System/Evolution Title Fuel Handling Equipm	nent System 034
KA Statement:	
	erator tasks during an emergency and the resultant operational effects.
Answers: pool gate valve at step 3.13 AF (2.4.C) states that the gate valve while the transfer cart may stop	TER starting the cart to the containment side. The discussion section of S2.OP-AB.FUEL-0002 re is not to be closed until the fuel handling cart is clear of the gate valve path. It also states that prior to reaching containment, it is acceptable because the water around the fuel with shield and
Reference Title	Facility Reference Number Reference Section Page No. Revision
Loss of Refueling Cavity or Spent Fuel Pool Lev	S2.OP-AB.FUEL-0002
	<u> </u>
	(]
ABFUE2E002 Objectives	
Material Required for Examination	
Question Source: Facility Exam Bank	Question Modification Method: Direct From Source Used During Training Program
Question Source Comments Vision Q71988	
Comment	

RO SkyScrape	r SRO Skyscraper RO Sk	stem/Evolution List SRO System/Evo	olution List Outline C	hanges			
Question Top	ic SRO 17						
Given the following conditions:							
 2B EDG is 2A and 2C 2A and 2C A CO2 actu 	2 is responding to a loss of all of supplying 2B 4KV vital bus. EDGs have tripped. SECs have been deenergized. ation occurs in 2B EDG room.	f-site power. CO2 actuation will have on 2B EDG ope	ration, and what action(s)	will be performed?			
2B EDG							
a. will auto	omatically trip. Deenergize 2B SI	EC IAW 2-EOP-LOPA-1, Loss of All AC	Power.				
b. will NO	f automatically trip. Deenergize	28 SEC IAW S2.OP-SO.DGV-0001, D	iesel Generator Area Vent	ilation Operation.			
EOP-LO	DPA-1.	el Generator Supply Fans Emerg Bypa					
	automatically trip. Place the 2E	B Diesel Generator Supply Fans Emerg	Bypass of CO2 Shutdow	n Switch at 2RP5 to	Emergency IAW		
Answer d	Exam Level S Cogr	itive Level Application Fa	cility: Salem 1 & 2	ExamDate:	9/26/2011		
KA: 064000A2	A2.22 RO Val	ue: 2.4 SRO Value: 2.8* Section	: SYS RO Group:	1 SRO Group:	1 55.43 🗸		
System/Evolut		Generators			064		
KA Statement:	procedures to correct, control,	ts of the following on the Emergency D or mitigate the consequences of those uences (water/CO2)and electrical dam	abnormal operation:	based on those pred	ictions, use		
Explanation of Answers:	Explanation of There is no automatic EDG trip on CO2 actuation, either in the EDG control room or the EDG area. The sEC does not control the						
	Reference Title	Facility Reference Number	Reference Section	Page No. Revis	ion		
Diesel Generate	or Area Ventilation Operation	S2.OP-SO.DGV-0001		5			
L.O. Number EDG000E008 							
	red for Examination						
Question Sour		Question Modification Method:		Used During Train			
Question Sour							
Comment							

RO SkyScraper	SRO Skyscraper RO Sys	tem/Evolution List SRO System/Evo	olution List Outline C	hanges				
Question Topic	SRO 18							
Given the follow	Given the following conditions:							
 25 SW pump The appropri OP-SA-108-1 23 SW pump 	strainer motor fails.	maintenance. IS 3.7.4 has been made in ht and Equipment Control Program. Id to be performed and the Bases for th	hat action?					
		0.00						
		SW pump, and enter TSAS 3.7.4 as a			-			
b. Exit the T	SAS Tracking statement for 25	SW pump, and enter TSAS 3.7.4 as a	IN ACTIVE entry due to 2 \$	SW pumps	being INOPERABLE.			
	econd, separate TSAS Tracking ILITY of the SW system.	entry for 23 SW pump. Each 4KV vit	al bus requires only one C	PERABLE	SW pump to ensure full			
		entry for 23 SW pump. IF ANY other nly one OPERABLE SW loop would r		lared INOP	ERABLE, THEN entry			
Answer d	Exam Level S Cogn	tive Level Memory Fa	cility: Salem 1 & 2	Exam	Date: 9/26/20			
KA: 076000G23	37 2.2.37 RO Valu	e: 3.6 SRO Value: 4.6 Section	: SYS RO Group:	1 SRO	Group: 1 55.43			
System/Evolution	on Title Service Water Syste	m			076			
KA Statement:		and/or availability of safety related equ						
Explanation of Answers:	Explanation of Answers: 55.43(2) Each SW pump must have its strainer operable for the SW pump to be operable. (SO.SW-005, page 97). With 2 SW pumps inoperable on different vital buses AND in different SW bays as described in stem, then BOTH SW loops remain operable. The requirement for 2 operable SW LOOPS are: One operable pump on A bus, One operable pump on B bus, One operable pump on C bus, and 2 operable pumps per bay. The requirement for ONE operable SW loop is 2 operable pumps powered from different vital buses. D is correct because any other SW pump inoperable would not meet the 2 pumps per bay operable requirement for 2 operable SW loops. C is incorrect because the bases is wrong. If there were only one pump per vital bus, then there would only be one operable SW loop. A and B are wrong because entry into an active Tech Spec is not required for 2 SW pumps inop on different vital buses in different SW bays.							
	Reference Title	Facility Reference Number	Reference Section	Page No.	Revision			
Salem Tech Spe	CS		3.7.4					
Service Water S	ystem Operation	S2.OP-SO.SW-0005	·		40			
L.O. Number	Objectives							
Material Require	d for Examination							
Question Sourc	e: Facility Exam Bank	Question Modification Method:	Significantly Modified	Used Duri	ng Training Program			
Question Sourc	e Comments Vision Q80615. section to each	Changed to a "2 and 2" question. Re choice.	eplaced 3 distracters with	new distrac	ters. Added bases			
Comment								

RO SkyScraper SRO Skyscrape	RO System/Evolution List SRO System/Evolution List Outline Changes							
Question Topic SRO 19								
Given the following conditions:								
 All RCPs in operation. Seal injection flow is 6.0 gpm to 	 A heatup is in progress on Unit 2 IAW S2.OP-IO.ZZ-0002, Cold Shutdown to Hot Standby. All RCPs in operation. Seal injection flow is 6.0 gpm to each RCP During the heatup, VCT gas pressure is lowered from 35 psig to 15 psig. 							
Which of the below describes the	effect on the plant of this evolution, and how will it be addressed?							
a. Flow to the No. 2 RCP seal Console 2CC1.	will lower. Fill the RCP standpipe when the low level alarm annunciates IAW S2.OP-AR.ZZ-0011, Control							
b. A high RCP standpipe level 2CC1.	alarm will actuate. Drain the RCP standpipe until the high level clears IAW S2.OP-AR.ZZ-0011, Control Console							
SO.CVC-0001.	alarm will actuate. If required, raise seal injection flow to maintain at least 6 gpm to each RCP IAW S2.OP-							
d. Flow to the No. 2 RCP seal	will lower. If required, raise seal injection flow to maintain at least 6 gpm to each RCP IAW S2.0P-SO.CVC-0001.							
Answer d Exam Level S	Cognitive Level Comprehension Facility: Salern 1 & 2 ExamDate: 9/26/2011							
KA: 194001G123 2.1.23	RO Value: 4.3 SRO Value: 4.4 Section: PWG RO Group: 1 SRO Group: 1 55.43							
System/Evolution Title	GENERI							
KA Statement:	specific system and integrated plant procedures during all modes of plant operation.							
Explanation of 55.43(5) Lowering Answers: number 2 seal wi	the VCT pressure reduces the backpressure forcing flow to the #2 seal. With less backpressure, flow to the lower (more of #1 seal leakoff is going to VCT) With less flow going to the #2 seal, number 2 seal leakoff will ipe level cannot rise. The RCP standpipe will not lower to the alarm setpoint as long as there is any flow from the							
Charging, Letdown, and Seal Inject								
L.O. Number CDDjectives DDjectives								
Material Required for Examinatio								
Question Source: Facility Exam	Bank Question Modification Method: Editorially Modified Used During Training Program							
Question Source Comments Vision Q85461								
Comment								

RO SkyScraper	SRO Skyscraper RO System/Evolution List SRO System/Evolution List Outline Changes
Question Topi	c SRO 20
Given the follow	wing conditions:
 Power is low The NCO the 	1 is operating at 100% power with equilibrium core xenon-135. vered to 75% over a 15 minute period using the control rods. en adjusts control rod height as necessary to maintain average reactor perature constant.
What will be the Reference prov	e rod position and directional trend 30 hours after the power change?
a. Below th	e initial 75% position and inserting slowly.
b. Above th	e initial 75% position and inserting slowly.
	e initial 75% position and withdrawing slowly.
d. Above th	e initial 75% position and withdrawing slowly.
Answer	Exam Level S Cognitive Level Application Facility: Salem 1 & 2 ExamDate: 9/26/2011
KA: 194001G1	
System/Evolution	on Title GENERI
KA Statement:	Ability to use procedures to determine the effects on reactivity of plant changes, such as reactor coolant system temperature,
	secondary plant, fuel depletion, etc.
Explanation of Answers:	55.43(6) As Xenon builds in following the power reduction, control rods will have to be withdrawn. After the Xenon peak, Xenon will be burning out, and control rods will be inserted to offset the less negative reactivity due to Xenon. Xenon will continue to burnout to establish a new equilibrium level at 75% power, and the control rods will continue to be inserted past where they were inserted at 75%.
	Reference Title Page No. Revision
Curve Book	S1.RE-RA.ZZ-0016 3
L.O. Number RXOPERE019	Cbjectives
Material Require	ed for Examination SRO 20 S1.RE-RA.ZZ-0016
Question Sourc	E: Facility Exam Bank Question Modification Method: Direct From Source Used During Training Program
Question Sourc	e Comments Vision 37077
Comment	

RO SkyScraper SRO Skyscraper RO Sys	tem/Evolution List	Evolution List	Changes				
Question Topic SRO 21							
Given the following conditions:							
 Unit 1 is operating at 100% power. Operators have just satisfactorily completed SC.OP-PT.DG-0001 DIESEL GENERATOR MANUAL BARRING on 1B EDG. The only Tech Spec entered was 3.8.1.1.b for the 1B EDG being declared INOPERABLE 							
when the LOCKOUT SW was C/T in the LOC							
Which of the following identifies when the 1B ED	G will be declared OPERABLE?						
a. When the Acceptance Criteria in SC.OP-f	PT.DG-0001 is reviewed and signed	off as SAT by the CRS.					
b. When the LOCKOUT SW is released to the	ne IN SERVICE position after succe	ssful completion of SC.OF	P-PT.DG-0001.				
C. When the NCO is directed by procedure to	o log the EDGs availability for opera	bility testing in the Control	Room Narrative L	_og.			
d. When the EDG has successfully met the is synchronized to the Vital Bus.	acceleration, voltage and frequency	Acceptance Criteria in the	ST procedure us	ed for the retest, and			
Answer d Exam Level S Cogni	tive Level Memory	Facility: Salem 1 & 2	ExamDate:				
KA: 194001G223 2.2.23 RO Valu	e: 3.1 SRO Value: 4.6 Section	on: PWG RO Group:	1 SRO Grou	p: 1 55.43 ✓			
System/Evolution Title				GENERI			
KA Statement:	ication limiting conditions for operati	ions					
Answers: during the performance of the b EDG, since it has been affected frequency requirements, AND b	operable when the Lockout Switch is arring. It cannot be declared operal by the barring operation. The requ eing synchonized to the vital bus.	ble until it has proved it me irements are successfully	eets the requireme reaching rated sp	ents for an operable eed, voltage and			
Reference Title Diesel Generator Manual Barring	Facility Reference Number	Reference Section	Page No. Re	vision			
Dieser Generator Manual Barning	SC.OP-PT.DG-0001						
L.O. Number EDG000E010 Comparison of the second s							
Material Required for Examination							
Question Source: Facility Exam Bank	Question Modification Method:	Direct From Source	Used During T	raining Program			
Question Source Comments							
Comment							
· · · · · · · · · · · · · · · · · · ·							

RO SkyScraper	SRO Skyscraper RO Sys	stem/Evolution List SRO System/Evolution	volution List Outline C	hanges				
Question Topic	SRO 22							
		900 mrem routine TEDE for the curre nal dose of 450 mrem on his current j		ope Creek Station.				
His lifetime exposu	His lifetime exposure is 5500 mrem.							
IAW RP-AA-203, Exposure Control and Authorization, and prior to performing the job, written approval for increasing his dose limit to 3000 mrem TEDE for the calendar year must be received from the work group supervisor and the								
a. RP Manage	a. RP Manager ONLY.							
b. Site Vice pr	esident ONLY.							
	r and Station Manager.							
d. Station Man	ager and Site Vice President.							
Answer a E	Exam Level S Cogni	itive Level Memory	acility: Salem 1 & 2	ExamDate: 9/26/2011				
KA: 194001G304	2.3.4 RO Valu	ue: 3.2 SRO Value: 3.7 Sectio	n: PWG RO Group:	1 SRO Group: 1 55.43 ✓				
System/Evolution	Title			GENERI				
KA Statement:								
[re limits under normal or emergency						
		the approval requirements are: Up to vice President. Distracters are all son						
Rel	ference Title	Facility Reference Number	Reference Section	Page No. Revision				
Exposure Control a	nd Authorization	RP-AA-203		4 5				
L.O. Number	Objectives							
Material Required	for Examination							
Question Source:	Previous 2 NRC Exams	Question Modification Method:	Direct From Source	Used During Training Program				
Question Source C	comments 08-01 Salem IL	OT SRO Exam May 2010	·					
Comment								
	e / de Welten wenners anne an anna an anna an Add Anna anna anna a							

RO SkyScraper SRO Sk	kyscraper RO Sys	tem/Evolution List	RO System/Evo	lution List	Outline Ch	anges		
Question Topic SRO 23	3							
Given the following condition	ons:							
 Unit 2 is operating at 100% power. The operating crew entered S2.OP-AB.RC-0002, High Activity in Reactor Coolant System, when RMS channel 2R31, Letdown Line Monitor, went into WARNING. 								
Which of the following is th	e reason that Radiatio	on Protection initiates su	rveys of plant	areas?				
a. Confirmation of 2R3	1 response.							
b. Radiation levels may	y have changed acces	s requirements.						
c. 2R31 reads in CPM	and therefore has no	correlation to dose level	changes.					
d. Determination of rad	liation type (gamma v	s. neutron) will narrow po	ossible source	s of the high	er radiation le	evels.		
Answer b Exam Le	vel S Cognit	ive Level Memory	Fac	ility; Sale	m 1 & 2	ExamDate	(d': 3	9/26/2011
KA: 194001G314 2	.3.14 RO Value	a: 3.4 SRO Value:	3.8 Section	PWG	RO Group:	1 SRO Gro	up: 1	55.43 🔽
System/Evolution Title								GENER
KA Statement:	e of radiation or conta	mination hazards that m	av arise durin	a normal ab	normal or an	ergency cond	itions or activ	itios
Explanation of Answers: 55.43(4) B is correct as described in S2.OP-AB.RC-002 basis, so that prompt identification and subsequent notification of plant personnel is ensured. A is incorrect because chemistry sampling confirms 2R31 readings, not survey results. C is incorrect because rising counts does indicate dose level changes. D is incorrect because the radiation type won't be determined, as neutrons won't be found.								
Reference High Activity in Reactor Coo	STATISTICS OF THE REPORT OF	Facility Reference		Reference S		Page No. R	evision	ĺ
ABRC02E003	Objectives							
Material Required for Examination								
Question Source: Facili	ity Exam Bank	Question Modification	Method:	irect From S	ource	Used During	Training Pro	gram
Question Source Commen	Vision Q80303							
Comment								

RO SkyScraper SRO Skyscraper RO S	System/Evolution List SRO System/Evolution List Outline Changes						
Question Topic SRO 24							
Given the following conditions:							
	 Unit 2 has received a FIRE alarm for Zone 69, Fuel Handling Building (FHB). An operator in the area reports a fire in a bin of Protective Clothing in the FHB truck bay. 						
Which of the following identifies the correct pr	rocedure for this event, and the actions required?						
a. S2.OP-AB.FIRE-0001, Control Room F Unit 1, and secure ALL Unit 2 ONLY F	Fire Response, place Control Room Ventilation in FIRE OUTSIDE CONTROL AREA on both Unit 2 and HB supply and exhaust fans.						
b, S2.OP-AB.FIRE-0001, Control Room F and secure BOTH units FHB supply far	Fire Response, place Control Room Ventilation in FIRE OUTSIDE CONTROL AREA on Unit 2 ONLY, ns ONLY.						
c, S2.OP-AB.FIRE-0002, Fire Damage M 1, and secure ALL Unit 2 ONLY FHB st	litigation, place Control Room Ventilation in FIRE OUTSIDE CONTROL AREA on both Unit 2 and Unit upply and exhaust fans.						
d. S2.OP-AB.FIRE-0002, Fire Damage M secure BOTH units FHB supply fans O	litigation, place Control Room Ventilation in FIRE OUTSIDE CONTROL AREA on Unit 2 ONLY, and INLY.						
Answer a Exam Level S Cog	gnitive Level Memory Facility: Salem 1 & 2 ExamDate: 9/26/2011						
KA: 194001G427 2.4.27 RO Va	alue: 3.4 SRO Value: 3.9 Section: PWG RO Group: 1 SRO Group: 1 55.43						
System/Evolution Title	GENERI						
KA Statement: Knowledge of "fire in the plan	of proceedures						
Explanation of Answers: 55.43(5) S2.OP-AB.FIRE-02 is the incorrect procedure because it is used for an uncontrolled fire in the Aux Bldg or 78 electrical pen, not for a fire in the Fuel Handling Building. Steps 3.12 and 3.13 of S2.OP-AB.FIRE-01 places BOTH Units in fire outside, and 3.94 and 3.95 direct stopping FHB supply and Exhaust Fans. A is correct because it is the correct procedure and action. The incorrect distracters are all a combination of either incorrect action, procedure, or both.							
Reference Title	Facility Reference Number Reference Section Page No. Revision						
Control Room Fire Response	S2.OP-AB.FIRE-0001						
L.O. Number Objectives							
Material Required for Examination							
Question Source: Facility Exam Bank	Question Modification Method: Direct From Source Used During Training Program						
Question Source Comments 07-01 SRO C	ERT Exam						
Comment							

RO SkyScraper	SRO Skyscra	nper. RO S	vstem/Evolution List	SRO Syste	em/Evolution List	Outline Ch	anges		
Question Topic	SRO 25								
Given the follow	ing conditions:								
 Salem Unit 2 is experiencing an event which has resulted in an ALERT EAL being exceeded and recognized by the operating crew. After 5 minutes, the actions taken by the control room crew result in this ALERT EAL no longer being met. Conditions for an UNUSUAL EVENT are present. No emergency declaration has been made yet. 									
Which of the fol	lowing identifies	the actions re	quired by the Eme	rgency Coordina	tor?				
a. Declare a	an ALERT, termi	inate the ALEF	T, declare an UN	USUAL EVENT.				na an an an an an an an Africa	
b. Declare a	an ALERT, then	reduce the Em	ergency Classifica	ation to an UNUS	SUAL EVENT.				
c. Declare a	IN UNUSUAL E	VENT, and ma	ake a non-emerge	ncy After-The-Fa	ict 1 hour report	to document the	ALERT EA	AL.	
d. Declare a Data She		VENT, and ens	sure the ALERT E	AL. which was pro	esent for the 5 m	inutes is comm	unicated to	the NRC via	the NRC
Answer	Exam Level	S Cog	nitive Level	lemory	Facility: Sa	alem 1 & 2	ExamD	ate:	9/26/2011
KA: 194001G43	2.4.38	RO Va	lue: 2.4 SRO	/alue: 4.4 Se	ection: PWG	RO Group:	1 SRO C	Broup: 1	55.43 🗸
System/Evolutio	n Title								GENER
KA Statement:	Ability to take a	ations called f	er in the facility on			na or acting as	omoranov	opordinator li	froquirod
Explanation of			or in the facility en						
Answers:									
	the emergency	is not being te	erminated. Since t	the UE is still be	ng met, the clas	sification will be	e reduced, n	ot terminated	<u> </u>
F	Reference Title		Facility Re	ference Numbe	Reference	e Section	Page No.	Revision	
Salem ECG					<u>i</u>			07	
EMERGENCY TE	ERMINATION -	REDUCTION	- NC.EP-EP.ZZ	-0405				6	
				_					
L.O. Number ELO_29.e		Objectives							
Material Require	d for Examinat	tion							
Question Source	: New		Question Modi	fication Method			Used Durin	ng Training F	Program
Question Source	Comments								
Comment									