INITIAL SUBMITTAL OF WRITTEN EXAMINATION

FOR THE LASALLE EXAMINATION - NOVEMBER 2000

general Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 1	295001	AK2.02	3.2/3.3	BOTH	040.00.05	Level:

Unit 2 is shutdown with the current conditions:

- 'A' RR pump running.
- All 'B' RR pump breakers are open.
- The total of 'A' loop indicated jet pump flows is 23 Mlb/hr.
- The total of 'B' loop indicated jet pump flows is 1.2 Mlb/hr.

Which of the following values should the total core flow recorder on 2H13-P603 indicate?

- A. 24.2 Mlb/hr
- B. 23.0 Mlb/hr
- C. 21.8 Mlb/hr
- D. 12.1 Mlb/hr

Answer:

Reference(s):

Question Reference(s): New

C Rx Vessel Inst, LP-040, Rev 0, pg. 19

Explanation: With a recirc pump breaker 'OFF,' the Forward/Reverse logic assumes that any flow sensed in this loop will be REVERSE flow. It will then subtract the flow from this loop from the other flow to determine core flow. Distractors are if flows are added, averaged, and low flow ignored.

832-7. -	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 2	295001	AA2.06	3.2/3.3	BOTH	040.00.05	Level:
							1

Which of the following nuclear boiler instrumentation indication becomes SIGNIFICANTLY MORE accurate as forced core flow circulation is reduced?

A. Narrow Range Reactor Water Level

B. Fuel Zone Reactor Water Level

C. Total Core Flow

D. Individual Jet Pump Flow

Answer: B Reference(s):

Question Reference(s):

Rx Vessel Instrumentation, pg. 14

New

Explanation: While all of the listed instrumentation utilizes dP from within the vessel, Fuel Zone Reactor Water Level instrumentation is adversely affected by the presence of jet pump flow. The remaining instrumentation would not be affected by an increase or decrease in core flow.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
#3	295003	2.1.28	3.2/3.3	BOTH	005.00.10	Level:
			. •			1

Unit 1 is at rated power with a normal electrical lineup.

If Bus 141Y voltage drops to 65% of its normal voltage

- A. the SAT feed to 141Y will trip and the UAT feed will automatically close to restore voltage to all loads on the bus.
- B. the UAT feed to 141Y will trip and the SAT feed will automatically close to restore voltage to all loads on the bus.
- C. the SAT feed to 141Y will trip and the 0 DG will start and pick up the bus to restore voltage to essential equipment.
- D. the UAT feed to 141Y will trip and the 0 DG will start and pick up the bus to restore voltage to essential equipment.

Answer:Reference(s):Question Reference(s):CLOR-1PM01J-A314 Rev 1New

Explanation: If Bus 141Y voltage <69%, ACBs 1412 will trip, the 0 DG will start and ACB 1413 will close. The normal electrical power supply to 141Y is the SAT. The under voltage signal will also trip multiple non-essential loads.

Confidential

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 4	295003	AA2.03	3.2/3.5	BOTH	006.00.16	Level:
						2

A loss of all Unit 1 125 DC battery chargers has occurred.

ASSUME equal loads of 25 amps are being supplied by each divisional battery.

Which of the following lists the expected relationship between the Unit 1 batteries' voltages?

- A. Div 1 and Div 2 battery voltages approximately equal and greater than Div 3 battery voltage because of the smaller capacity of the Div 3 battery.
- B. Div 2 and Div 3 battery voltages approximately equal and greater than Div 1 battery voltage because of the smaller capacity of the Div 1 battery.
- C. Div 1 and Div 3 battery voltages approximately equal and greater than Div 2 battery voltage because of the smaller capacity of the Div 2 battery.
- D. All battery voltages approximately equal because the capacity of the batteries are very close.

Answer:	Reference(s):	Question Reference(s):
Α	DC, LP 06, Rev 1, pg. 25.	New

Explanation: With equal load, .batteries of equal capacity would have equal voltages. Batteries with lower capacity would have lower voltage. The Div 1 and Div 2 batteries are each rated for 1128 amp hours. The Div 3 battery is only rated for 92.8 amp hours.

Confidential

193 Aust	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive	مِلا تتواريك و ا
-	#5	295005	AA1.02	3.6/3.6	BOTH.	049.00.10	Level:	
							3	

Unit 2 is starting up.

The turbine load is at 35% of rated capacity.

A short in the bypass jack causes the turbine bypass valves to sequentially open until all five bypass valves are open.

The turbine control valves throttle as designed reducing first stage pressure to 75 psig.

Which of the following describes the INITIAL plant response if a manual turbine trip were initiated at this time?

A. RPS will initiate a scram due to the turbine stop valves closing.

B. RPS will initiate a scram due to a collapse of the core voids.

C. PCIS will initiate an isolation due to elevated steam line flow.

D. PCIS will initiate an isolation due to reduced steam line pressure.

Answer:	Reference(s):	Question Reference(s):
В	LOA-EH-201, Rev 4 pg. 14	New

Explanation: When the bypass valves open, turbine load will decrease. The corresponding decrease in first stage pressure will bypass the TCV/TSV position scrams. With reactor power above the capacity of the turbine bypass valves, reactor pressure will increase. Reactor power will increase as core voids are collapsed. RPS will initiate a reactor scram due to the elevated pressure/flux. Steam line pressure/flow would not cause an isolation until after the reactor scrammed and pressure decreased below 854 psig with the Mode switch still in run.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive	
- #6	295006	AA1.01	4.2/4.2	BOTH	049.00.14	Level:	
						2	

The plant is operating at 100% power, when a spurious signal causes a scram signal on RPS channel 'A' ONLY.

Which of the following responses correctly completes the following:

•

	The 'A' scr valves (11'	<u>am pilot solenoid</u> 7's) are:	The 'B' scram pilot solenoid valves (118's) are:
A.	Energized		Energized
B.	Energized		DE-energized
C.	DE-energi:	zed	Energized
D.	DE-energi:	zed	DE-energized
Ansv	ver:	Reference(s):	Question Reference(s):
С	1	RPS, LP 49, Rev 0, pg. 1	3 049.00.14 001

Explanation: RPS 'A' powers the 'A' scram pilot solenoids, and the scram pilot solenoids are deenergized on a trip. The 'B' scram pilot solenoid valves are unaffected by the 'A' RPS System.

049.00.14 001 (1 Point) The plant is operating at 100% power, when a spurious signal causes a scram signal on RPS channel 'A' only. Which one of the following responses correctly completes the following: The 'A' scram pilot solenoid valves (117's) are ______ and The 'B' scram pilot solenoid valves (118's) are ______. •A. DE-energized; energized B. energized; DE-energized C. energized; energized

D. DE-energized; DE-energized

RPS 'A' powers the 'A' scram pilot solenoids, and the scram pilot solenoids are de-energized on a trip. The 'B' scram pilot solenoid valves are unaffected by the 'A' RPS System.

Reference: LP-49 Section III.F

Q_ID	System:	K/A:	Importance		Objective:	Cognitive
# 7	295007	AK2.01	3.5/3.7	BOTH	074.00.05	Level:
						2

Unit 1 conditions are as follows:

- Rx power: 28 %
- T-G Load: 365 MWE
- Load Set 390 MWE
- Bypass position: 0 %

The operator withdraws a control rod which increases Rx power to 29 %.

Which of the following describe the expected response of the Turbine EHC Control System?

- A. The Bypass Valves will open by whatever amount is required to maintain RX pressure.
- B. The Turbine Control Valves will open by whatever amount is required to maintain RX pressure.
- C. The Bypass Valves will close by whatever amount is required to maintain RX pressure.
- D. The Turbine Control Valves will close by whatever amount is required to maintain RX pressure.

Answer:	Reference(s):	Question Reference(s):
and the second second	ومتحاجة والمربوعين أكاكم الأأأ المتحدية كالتكرية المراجع	
В	EHC Elec, LP 74, Rev 1, pg.4 & 5	INPO EB No. 762

Explanation: Load demand is greater than current load. As reactor power increases, turbine control valves will open to offset the increased steam production.

KaNumber	QuestionId	Exam	Туре	ExamDa	le			-	
295007.AK2.01		762 ILO		03/27/19	98				
AbbrevLocName	NSS	SVendor	NSSS	БТуре					
GRAND GULF 1			BWR						1999 - 1990 - 1997 - 19
CognitiveLevel E	ExamLevel F	RefMateria	I Pare	entQuesti	onid	an an the second states and a second s			
	2								n an an tha an
KaSegment1 Ka	Segment2 K	aSegmen	t3 Ka	Segment4	KaS	egment5	KaRevisio	on	
lucog		95007	AK	2	01				
QuestionStem	ج أ عد و يعتب عد يعد							<u> </u>	
Plant conditions a	are as follow	s:							
MODE:	N	Aode 1							
Rx power: 28 %									
T-GLoad:	365 MW	Έ							
Load Demand 39									
Bypass position:	0%			•					
All other parame	tona ano mor -	Jant desig	n						
All other parame	ters are per p	nam desigi							
The operator witl	hdraws a con	trol rod w	hich ir	ncreases R	x pov	ver to 29 9	<i>.</i>		
The operator with					•			· · ·	
QuestionComm	ent								· · · · · · · · · · · · · · · · · · ·
									· · · · · · · · · · · · · · · · · · ·
Answer							8-1925-96-10-10-10-10-10-10-10-10-10-10-10-10-10-		
Answer The Turbine Con	trol Valves	will open b	y wha	atever amo	unt is	required	to maintai	n Rx pres	sure.
		*							
						<u></u>			
Distract1							• • •	DV	
The Bypass Cont	trol Valves v	vill open by	y wha	tever amo	unt is	required	to maintair	1 KA	
pressure.									
	<u>2</u>						·····		
Distract1Comm	ent							······································	
	an a							CONTRACTOR OF THE	
Distract2								DW	
The Bypass Con	trol Valves v	vill close b	y wha	itever amo	unt is	required	to maintai	n RX	
pressure.						•			
									<u></u>
Distract2Comm	nent								
Distract3		·				•			
The Turbine Co	ntrol Valves	will close	by wh	natever am	ount	is require	to mainta	nin Rx	
pressure.						-			
Distract3Comm	nent								
								· · · · · · · · · · · · · · · · · · ·	
•••••	urumnu da astaar mu		··:			। ।	en server i statu i Stratori e statu e	and a second second	an ann a Shiran Alf Friday an An Shiran Anna An Anna An

محفا ويفسانك

بهنهبون وحجرت

Ð

Q ID	System:	K/A:			Objective:	Cognitive
# 8	295007	AA2.02	4.1/4.2	BOTH	074.00.21	Level:

Unit 1 reactor is operating at 100% power with the following conditions:

- The turbine throttle pressure signal to the selected EHC pressure regulator fails low (sends 0 psig signal).
- All other equipment functions as designed.
- No operator actions are taken

Which of the following describes the reactor power/pressure response?

A. Increases until scram conditions met.

B. Increases and stabilizes at slightly higher value.

C. Decreases until isolation conditions met.

D. Decreases and stabilizes at slightly lower value.

Answer: B

Question Reference(s): New

LOA-EH-101, Rev 4, pg. 13 EHC Elec, LP 74, Rev 1, pg. 29

Reference(s):

Explanation: Given the described EHC malfunction, the backup pressure regulator would assume control (its output would exceed the controlling output) and power/pressure would stabilize at only a slightly higher level..

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
#9	295008	AA1.09	3.3/3.3	BOTH	027.00.03	Level:

Unit 2 is in Condition 4.

- Reactor water level is being controlled between 70 and 90 inches.
- A plant operator discovered a leak on reactor water cleanup suction line.
- The leak was stopped by closing the RWCU inboard and outboard isolation valves (2G33-F001 and 2G33-F004).
- Reactor water level is increasing due to CRD cooling flow.
- A RHR is running in the shutdown cooling mode.

Which of the following flow paths could be utilized to drain the vessel to MAINTAIN the desired reactor water level?

- A. Main Steam Line drains (2B21-F016 and 2B21-F019) to the main condenser.
- B. Reverse flow from the RT return header to the main condenser via the RWCU blowdown valve (2G33-F033).
- C. A RHR Vent Downstream/ Upstream Valves (2E12-F073A and 2E12-F074A) to the suppression pool.
- D. Safety Relief Valves (2B21-F013H/K/P) to the suppression pool.

Answer:	- Reference(s):	Question Reference(s):
С	LOP-RH-07, Rev 45, pg. 10	New
	LOP-FC-09, Rev 10, pg. 4	

Explanation: Only RHR is available to reduce vessel level from the choices provided. The upper level band is below the Main Steam Lines so MSL drains and SRVs would not be able to drain water without exceeding the level band. RWCU returns to the feedwater header upstream of two in-series check valves (1B21-F010A/B & 1B21-F032A/B) so reverse flow would not be possible.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 10	295009	AK3.01	3.2/3.3	BOTH	023.00.10	Level:

Which of the following interlocks is designed to reduce reactor power in response to a trip of an operating feedwater pump from 100% power?

A. Low RR Pump NPSH Runback

B. Low Feed Flow Downshift

C. Loss of Feed Flow Runback

D. Low Reactor Water Level Downshift

Answer:

Reference(s):

Question Reference(s): New

C RR Flow Control; LP 23, Rev 1, pg. 15

Explanation: The output of the loop flow controller function generator is applied to the valve position limiter. Normally, this limiter is bypassed, but if less than two reactor feed pumps are operating and reactor vessel level drops to the low level alarm point (31.5") the contact bypassing valve position limiter will operate to close the flow control valve to the 15% (U2 18%) position. The limiter functions as a loss of feed flow runback. If one feed pump trips and the remaining pump is unable to maintain level, the limiter will reduce recirc flow and thereby reduce reactor power to a value where the remaining turbine driven reactor feed pump can restore level before the reactor scrams on low level.

e in mig	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 11	295010	AK2.04	2.6/2.8	BOTH	093.00.12	Level:

Unit 1 is at rated conditions.

Nitrogen makeup is aligned to the drywell with the pressure controller in automatic set for +0.2 psig.

The controller fails such that the regulating valve slowly opens fully.

With NO operator action, which of the following will be the first to terminate the nitrogen flow to the drywell?

A. High nitrogen flow isolation of the makeup regulating valve.

B. Low temperature outlet isolation of the makeup regulating valve.

C. High drywell pressure isolation of the nitrogen makeup flowpath.

D. Excess flow check valve closure in the nitrogen makeup flowpath.

Answer:	Reference(s):	Question Reference(s):
С	LOA-PC-201, Rev 02, pg.16 LOP-VQ-04, Rev 12, pg.44	New

Explanation: The nitrogen makeup isolation valves will close when drywell pressure reaches 1.69 psig. There is no high nitrogen flow isolation of the regulating valve. Low temperature is an alarm only.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 12	295010	AK3.03	3.2/3.5	BOTH	092.00.05	Level:

Following a loss of primary containment cooling, the crew is preparing to perform non-emergency containment venting to control drywell pressure.

While venting the drywell in this condition, the operator is directed to monitor the Standby Gas Treatment or Stack WRGM to ...

A. maintain sufficient dilution flow.

B. stay below the toxic gas release limits.

C. maintain sufficient stack flow.

D. stay below radiation release limits.

Answer:	Reference(s):	Question Ref	erence(s):	

D LOP-VQ-04, Rev 12 pg.40 New

Explanation: Per the referenced procedure, the operator would monitor vent stack release rate to ensure that limits are not exceeded.

Q ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
# 13	295014	AK1.01	3.7/3.8	BOTH	769.00.01	Level.

Unit 2 is starting up with the following conditions:

• Coolant temperature is 165°F.

÷

Which of the following describes expected crew response if the reactor were to become prompt critical at this time?

The crew would . . .

A. Ensure the reactor has scrammed and power has turned.

B. Insert the last one or two control rods withdrawn to turn reactor power.

C.- Wait for Alpha-T to turn reactor power before withdrawing any more control rods.

D. Wait for Alpha-V to turn reactor power before withdrawing any more control rods.

Answer:	Reference(s):	Question Reference(s):
Α	Rx Theory	New

Explanation: Prompt criticality would cause a reactor scram (as the IRMs reached scram setpoint) due to the very short reactor period.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 14	295015	AK1.02	3.9/4.1	BOTH	400.00.14	Level:

During an ATWS, the operator is directed NOT to cool down until the reactor is shutdown without boron injection or the cold shutdown weight of boron has been injected.

The reason for this requirement is ...

- A. Positive reactivity will be added due to the water in the reactor being cooler and more dense.
- B. Core flow may become restricted due to the cooler water causing the boron to come out of solution and deposit on core surfaces.
- C. Higher reactor pressure helps mixing of the boron due to the higher steaming rates and minimizes the time to complete the shutdown.

LP LGA010, pg.14

D. Lowering reactor pressure would cause the water in the reactor to "swell", thus lowering the boiling boundary and increase the chance to damage fuel.

Answer: Reference(s): Question Reference(s):

Α

LaSalle 9501 ILT Exam Question #119

Explanation: Boron plating on core surfaces is not a threat to adequate core flow. Elevated reactor pressure does not improve boron mixing. RPV "level swell" is not considered to impact core cooling.

119. 295015AK1.02 001

During an ATWS, why is the operator directed NOT to cool down until the reactor is shutdown without boron injection or the cold shutdown weight of boron has been injected?

A. Cooling down the reactor with an ATWS in progress will add positive reactivity due to the water in the reactor being cooler and more dense.

B. Core flow may become restricted due to the cooler water causing the boron to come out of solution and depositing on core surfaces.

C. Higher reactor pressure helps mixing of the boron due to the higher steaming rates and minimizes the time to complete the shutdown.

D. Lowering reactor pressure would cause the water in the reactor to "swell", thus lowering the boiling boundary and increase the chance to damage fuel.

REF: L.P. LGA-10 Failure to Scram Rev. 3 page 26 Answer: A

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 15	295015	AK3.01	3.4/3.7	BOTH	045.00.05	Level:

During performance of LGA-NB-01, Alternate Rod Insert, Single Rod Insertion, the operator is directed to place the MODE SELECT switch in BYP for the Rod Worth Minimizer.

The above action bypasses . . .

A. Nuclear Instrumentation rod blocks to allow all rod motion.

B. Rod insert blocks to allow inward rod motion.

C. The settle function to speed the rate of rod insertion.

D. The single notch function to speed the rate of rod insertion.

Answer:Reference(s):Question Reference(s):BLGA-NB-01 Rev 5 pg.10New

Explanation: Placing the MODE SELECT switch in BYP will bypass the Rod Worth Minimizer bypassing all insert rod blocks. Response A is incorrect because rod withdraw blocks could still be generated by nuclear instrumentation. The RWM has no impact on the settle or single notch functions (of RMCS).

9997) 	Q_ID	System:	K/A:	Importance	Exam:	Objective:	
-	# 16	295016	AA1.01	3.8/3.9	BOTH	049.02.20	Level:

A severe fire with thick smoke forced an immediate evacuation of the control room. The reactor was not scrammed prior to exiting.

Which of the following is the PREFERRED method of scramming the reactor from outside of the control room?

A. Open and reclose the IRM supply breakers at the DC distribution panels.

B. Open and reclose the RPS output breakers at the RPS distribution panel.

C. Activate the ARI system in the Auxiliary Equipment Room.

D. Vent the scram air header in the Reactor Building.

-

Answer:	Reference(s):	Question Reference(s):
В	LOA-RX-101, Rev 3, pg. 5	LaSalle 9501 ILT Exam Question #87 Modified

Explanation: Distracters are credible but are not in accordance with the procedure.

87. 295016AA1.01 001

A severe fire with thick smoke forced an immediate evacuation of the control room. The reactor was not scrammed prior to exiting.

Which of the following is the preferred method of scramming the reactor outside of the control room?

A. Open the RPS feeder breakers at the RPS distribution panels.

B. Trip both RPS motor-generator sets locally.

110

C. Vent the scram air header in accordance with LGA-NB-01.

D. Open the ARI system feeder breakers at 111Y and 112Y.

REF: LaSalle abnormal operating procedure, LOA-RX-01, page 2, Subsequent Operator Actions.

Answer:

Α

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 17	295017	AK2.08	2.8/3.3	BOTH	050.00.05	Level:

A failure of the RHR heat exchanger has resulted in an offsite release above the alarm setpoint. With NO operator action, the SPDS RADIATION RELEASE box letters will ...

A. change from green to red.

B. change from green to yellow.

C. change from cyan to red.

D. change from cyan to yellow.

Answer:

Reference(s):

Question Reference(s):

A CX, LP 50, pg. 8

New

Explanation: The radiation release box is normally green and will change to flashing red when the alarm setpoint has been exceeded. The box will change from flashing red to solid red after the alarm is acknowledged. The box will change to blue if insufficient inputs are valid.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
- # 18	295017	AK3.01	3.6/3.9	BOTH	118.00.05	Level:

Unit 1 has been operating with a known leaking fuel assembly.

An increase in the assembly leakage rate results in an Off Gas System automatic isolation.

Which of the following describes the purpose of the isolation and the initial plant response without operator action?

- A. Prevent explosions due to ignitable concentrations of hydrogen; main generator output will decrease.
- B. Prevent explosions due to ignitable concentrations of hydrogen; main generator output will increase.
- C. Prevent radiation release to the environs in excess of short-term limits; main generator output will decrease.
- D. Prevent radiation release to the environs in excess of short-term limits; main generator output will increase.

Answer:

wer: Reference(s):

Question Reference(s):

New

C LaSalle UFSAR Section 7.7.14.1.1.1.c

Explanation: A leaking fuel assembly will cause radiation levels to increase. The OG Post Treatment Monitor causes an isolation to prevent radiation release to the environs in excess of short-term limits

With OG isolated, noncondensibles will collect in the main condenser causing pressure to increase. This will cause the available work from the main turbine to decrease due to a lower differential pressure which will cause generator output to decrease.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 19	295020	AK1.02	3.5/3.8	BOTH	023.00.16	Level:

Unit 1 is at 80% power.

A Group II isolation was caused by an invalid signal.

The Unit Supervisor directs a 10% power reduction to reduce the containment heat load.

Which of the following describes the method(s), if any, AVAILABLE to the Unit NSO to reduce reactor power by only 10%?

A. Control rod insertion only.

B. Flow control valve closure only.

-

C. Both flow control valve closure and control rod insertion.

D. Neither flow control valve closure nor control rod insertion.

Answer:	Reference(s):	Question Reference(s):
А	RRFC, LP 23, Rev 1, pg. 32	New

Explanation: One of the results of a Group II isolation is the isolation of the RR FCV hydraulic lines. This prevents RR FCV motion. There would be no restriction to control rod insertion. Only Answer A meets these conditions.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 20	295020	AK3.02	3.3/3.5	BOTH	090.00.05	Level:

Unit 2 is at 100% power.

Group 1 AND Group 10 isolations are caused by an instrument failure.

The failure requires extended operation aligned to the backup instrument air supply.

The operators should monitor ...

- A. Drywell pressure because instrument air is less dense than nitrogen and drywell pressure may go negative.
- B. Drywell oxygen concentration because use of drywell pneumatics or leaks in drywell pneumatic piping could raise oxygen levels.
- C. IN Receiver pressure because low receiver pressure would be a predictor of inboard MSIV closure.
- D. Bottle bank pressures because the bottles may depressurize due to leaks in 100 psig header piping.

Answer:

Question Reference(s):

New

B

LOA-IN-201, Rev1 pg.12

Reference(s):

Explanation: As referenced in LOA-IN-201, Continued use if Instrument Air to supply the Drywell Pneumatic System will gradually increase the Primary Containment atmosphere oxygen content and pressure. Bottle banks do not supply regulated head piping so leaks would not be a factor. The IA cross tie is after the IN receiver so it would not predict a loss of pressure.

	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 21	295021	AK1.04	3.6/3.7	BOTH	049.00.18	Level:

Unit 2 is in Condition 4 with the following conditions:

- Reactor water level is 40 inches on the Narrow Range.
- Reactor Recirculation pumps are off.

:

• A loss of shutdown cooling has occurred due to an erroneous signal.

The Unit Supervisor should direct the NSO to raise reactor water level to +75 inches on the Shutdown Range to ...

A. Utilize the most accurate level indication to assist in trouble shooting.

B. Lower the bulk temperature of the vessel to prevent inadvertent mode change.

- C. Limit temperature stratification by inducing natural circulation.
- D. Provide additional inventory in anticipation of steam production.

Answer:	Reference(s):	Question Reference(s):
С	LOA-RH-101 Rev 3, pg.7	New

Explanation: Per reference, level must be verified to be above +50 inches on shutdown range with no forced cooling to prevent excessive temperature stratification.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
# 22	295023	AK2.07	3.6/3.9	BOTH	095.00.01	1 and 1

During Unit-2 core reload, a fuel bundle is inadvertently dropped while attempting to place it in the core.

Bubbles are observed rising from the area of the dropped bundle.

Alarms are received for:

- Div I and II Fuel Pool Ventilation Radiation (PRM reading 23 mr/hr)
- Refuel Floor Area High Radiation (ARM reading 1200 mr/hr)
- Reactor Building Overhead Crane Area Radiation Monitor (reading 250 mr/hr)

The operators should verify the ...

- A. Control Room Ventilation System automatically shifts to "purge" and VC/VE Emergency Makeup train starts.
- B. Reactor Building Overhead Crane down motion stopped and automatically moves to South end of the refuel floor.
- C. Fuel grapple automatically retracts to the "full up" position and Refuel Bridge moves to South end of refuel floor.
- D. Reactor Building Ventilation System isolates and Standby Gas Treatment System auto starts.

Answer:	- Reference(s):	Question Reference(s):
D	LOP-VG-01, Rev 8. pg. 2	New
	LOA-FH-001, Rev 0., pg. 3,5	

Explanation: VC/VE have no automatic actions on FC rad or ARMs. Overhead crane upward movement, not lateral movement is halted. Fuel grapple and bridge have no automatic actions on FC rad or ARMs.

23. 295023G010 001

With a Unit-2 core reload in progress, a fuel bundle is inadvertently dropped while attempting to place it in the core. As a result, bubbles are rising from the dropped bundle. The Fuel Pool Ventilation HI-HI radiation alarms have been received in the control room.

What automatic actions are to be verified by the operator?

A. Reactor Building Ventilation System isolates and SBGT auto starts.

B. The overhead crane automatically moves toward the North or South end of the refuel

floor.

C. The fuel grapple automatically retracts to the "full up" position.

D. The Unit-2 refuel bridge automatically moves to the North end of the refuel floor.

REF: LOA ZZ-08, page 1. Answer: A

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 23	295025	EA1.01	2.9/3.0	BOTH	410.00.01	Level:
						3

Unit One is in Condition 3 with the following conditions:

- Reactor water level is 68".
- Reactor pressure is 645 psig and increasing very slowly.
- A rupture in the drywell has depressurized all low pressure IN piping and accumulators.

The operator should control reactor pressure by ...

A. Cycling SRVs using the hand switches on 1H13-P601.

- B. Cycling Main Steam Line drain valves on 1H13-P601.
- C. Controlling Main Turbine Bypass Valves using the bypass jack.

D. Placing Reactor Core Isolation Cooling in pressure control mode.

Answer:	Reference(s):	Question Reference(s):
В	LGA-001 Rev 00	New

Explanation: Only the MSL drains are available from the supplied list. With no low pressure IN available, the SRVs cannot be operated by the hand switches. The inboard MSIVs will close preventing use of the BPVs. RCIC is unavailable due to the high level.

	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
2	# 24	295026	EK1.01	3.0/3.4	BOTH	413.00.04	Level:

Which of the following conditions could be expected to cause RHR system damage? **Provide LGA Fig V**

	Suppression Chamber <u>Pressure (psig)</u>	Suppression Pool <u>Temperature (°F)</u>	
Α.	0	195	
В.	5	210	
C.	• 10	230	
D.	15	240	
Answer:	Reference	ce(s):	Question Reference(s):
С	LGA Fig	ure V	New

Explanation: Only C will be above the RR NPSH limit.

÷

Q ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive	
×			<u></u> ,	RO	400.00.14	Level:	
# 25	295028	2.4.18	Z. 1	RU	400.00.14	•	

Unit 1 has just scrammed due to a large LOCA.

Drywell Temperature has risen to 350 degrees Fahrenheit.

What are the concerns, if any?

A. Core flow instrumentation is no longer reliable.

B. Drywell temperature instrumentation is no longer reliable.

C. The MSIVs may not function.

D. The SRVs may not function.

Answer:	Reference(s):	Question Reference(s): 090.00.24 001 (modified)				
D	LP LGA-003, Rev 14, pg. 22					
Explanation:				الان المحمد المحمد محمد المحمد ال محمد المحمد ا		
A. Incorrect	Core flow instrumentation is not affected	by drywell temperatur	е.			
B. Incorrect	Drywell temperature instruments are not INOP at 340 Deg. F					

C. Incorrect MSIV's are not the limiting component.

D. Correct The

The design limit for the Drywell is 340 Deg F. The SRV solenoids are not environmentally qualified above these temperatures and may not function.

Tuesday, June 13, 2000 @ 12:28 PM

0LASAL~1.BNK



090.00.24 001

(\. Point) Unit 1 has just scrammed due to a large LOCA. Drywell Temperature has risen to 350 degrees Fahrenheit. What are the concerns, if any?

- ✓A. Drywell Temperature has exceeded the design limit of 340 degrees Farenheit and the SRV's may not function.
 - B. At 340 degrees Farenheit all drywell temperature monitoring becomes INOP.
- C. Drywell Temperature has exceeded the design limit of 135 degrees Farenheit and the MSIV's may not function.
- D. At 135 degrees Farenhiet the RPV level instrumentation becomes INOP.

A. Correct The design limit for the Drywell is 340 Degrees F. The SRV solenoids are not environmentally

qualified above these temperatures and may not function.

B. Incorrect Drywell temperature instruments are not INOP at 340 Deg. F

C. Incorrect 135 Deg F is not the design limit of the Drywell, and MSIV's are not the limiting component.

D. Incorrect RPV level instrumentation will not be INOP unless saturation conditions in the Dywell have been

reached.

Tech. Spec. 3.6.1.7 Basis

ANSWERS:		
Single	•	
	Points	1

Versio	n Ansv	vers:		
012	234	5678	9 Scramble Choice	es
AB	CDA	всра	B Scramble Range: A	۹ -

A -

D

	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-2	# 26	295030	EK1.03	3.8/4.1	BOTH	421.00.04	Level:

Which of the following conditions violates the Heat Capacity Temperature Limit Curve? **Provide Detail M from LGA-003 Heat Capacity Temperature Limit**

	Suppression Pool Level	Suppression Pool Temperature	Reactor Pressure	
A.	0 ft	180°F	300 psig	
B.	0 ft	200°F	500 psig	
C.	-10 ft	170°F	700 psig	
D.	-10 ft	1 90°F	600 psig	
Answer:		Reference(s):		Question Reference(s):
	D	LGA-003 Rev 0	I	New

Explanation: Only D will violate the HCTL. A & C are below both curves. B is below the NORMAL pool level curve.

z

	and the general difference of			and the state of the	and the second second second second	
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 27	295032	EA1.05	3.7/3.9	BOTH	418.00.02	Level:
						3

Unit 2 was at rated conditions.

The operators noted Main Steam Line Tunnel temperature had increased to 165°F.

The crew:

- Scrammed the reactor
- Closed all MSIVs and MSL drains.
- Closed the Feedwater Line Outboard Isolation Valves
- Started RCIC in level control mode.

The STA reports that tunnel temperature is NOT decreasing.

The Radwaste operator reports that the Aux. Bldg Floor Drain Sump 0DA01 is pumping down continuously.

Which of the following actions should be taken?

A. Cooldown at greater than 100°F/hr to reduce pressure boundary leakage.

B. Reset the reactor scram to stop potential leakage into the Steam Tunnel.

C. Shutdown and isolate RCIC to stop potential leakage into the Steam Tunnel.

D. Shutdown and isolate RWCU to stop potential leakage into the Steam Tunnel.

Answer:	Reference(s):	Question Reference(s):		
D	LGA-002 Rev 00	New		

Explanation: RWCU returns to the vessel via the feedwater line in the steam tunnel. RCIC and CRD could not discharge into this area. No area temperatures are above Max safe so exceeding 100°F/hr is not allowed by the EOPs.

•		System:	K/A:	Importance	Exam:	Objective:	
•	# 28	295033	EK3.05	3.6/4.5	BOTH	400.00.14	Level:

Why do radiation levels in the Secondary Containment in excess of Maximum Normal Radiation Levels require a GSEP Unusual Event be declared?

The radiation level would . . .

A. be indicative of a primary system leaking.

B. be indicative of a secondary system leaking.

C. impede plant operations.

D. impede system operation.

Answer:Reference(s):Question Reference(s):ALZP-1200-1, Rev 23, pg.38New

Explanation: Readings of greater than the maximum normal temperature or radiation levels are indicative of the primary system discharging into the reactor building. Radiation levels in excess of 40 R/hr are determined to impede plant/system operation.

· · ·	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
2	# 29	295034	EK2.06	3.9/4.2	BOTH	091.00.08	Level:

Unit 1 is starting up with the following conditions:

- Drywell inerting is in progress.
- Drywell pressure is 0.3 psig.

The 'DIV 2 RB VENT RAD HI-HI' alarm energizes due to both Division 2 Reactor Building Ventilation Radiation trip units reaching their trip setpoint.

What would the automatic response of Primary Containment Vent and Purge Valves be, if any? (Consider ONLY the actions associated with this alarm.)

A. Neither the Inboard nor the Outboard Isolation Valves close.

LOR-1H13-P601-E204, Rev 0.

B. Inboard Isolation Valves close.

C. Outboard Isolation Valves close.

D. Inboard and Outboard Isolation Valves close.

Answer: Reference(s):

B

53.00.15 001

Question Reference(s):

Explanation: With both C and D channels in the tripped condition, Reactor Building Ventilation System Inboard Isolation Dampers, 1(2)VR04YB and 1(2)VR05YA close, both Standby Gas Treatment System Trains start, and the Primary Containment Vent and Purge Inboard Isolation Valves close.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 30	295036	EK1.01	2.9/3.1	BOTH	121.00.20	Level:

Given a constant input of contaminated water to the Unit 1 RB Northeast Floor Drain Sump (1RE07) AND a failure of both associated sump pumps, contamination/radiation levels in the room will

A. increase because the sump will eventually overflow to the room floor.

:

- B. increase because the sump will eventually overflow to the RBEDT which has minimal shielding.
- C. not be affected because the sump will overflow to the RB raceway sumps before top of 1RE07 sump is reached.
- D. not be affected because the sump is sealed and excess input will backup to the source.

Answer:	Reference(s):	Question Reference(s):		
Α	LaSalle UFSAR Appendix J	New		
	LOR-1PM13J-A304 Rev 0			

Explanation: Per references, input to corner room floor drain sumps in excess of sump pump capacity will overflow to room floor. The RBEDT is above the elevation of the floor drain sumps. There is no overflow from the 1RE07 to the raceway sumps. The 1RE07 is not a sealed sump.

an an an a' an is an a' an a' an a' an	and the second second	o din program menya ke	a the second state of the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i e in de segund lighten de la	
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 31	295037	EK2.14	3.6/3.9	BOTH	047.00.06	Level:
						`

Unit 2 is experiencing an ATWS.

- RMCS has tripped.
- Actions were taken to rescram the reactor.

Which of the following can be utilized to determine if ALL control rods were inserted?

- A. Full Core Display AND Rod Worth Minimizer CRT
- B. Four-Rod Display AND Full Core Display

•

C. Rod Sequence Control Display AND Rod Worth Minimizer CRT

D. Rod Sequence Control Display AND Four-Rod Display

Answer:	Reference(s):	Question Reference(s):
A	LOA-RM-201 Rev 3, pg.18,19	New

Explanation: RPIS is still functional with RMCS tripped. Only the full core display and RWM CRT would be available for all control rod position determination. RSCS was recently abandoned in place. The Four-Rod display would only be able to show the currently selected four-rod group with RMCS tripped.

	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
:	# 32	295038	EA1.02	3.0/3.8	BOTH	721.02.20	Level:

The Shift Manager is filling out a NARS due to a High Off-site Release from the Unit 2 Reactor Building and has requested you to determine wind speed and wind direction.

Which of the following describes the control room panel(s) where the information must be obtained?

A. 1PM10J for both parameters.

B. 2PM10J for both parameters.

C. 1PM10J or 2PM10J for both parameters.

Ξ

D. 1PM10J for Wind Direction and 2PM10J for Wind Speed.

Answer:	Reference(s):	Question Reference(s):
Α	LOS-AA-S101, Rev 4, pg. 16	New

Explanation: The indications are only available on Unit 1 control room panel 1PM10J. This question addresses a difference between the units and the ability to determine meteorological data.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
÷ # 33	295038	EA2.04	4.1/4.5	BOTH	427.00.01	

A transient has occurred causing Unit 2 reactor fuel failure.

- The crew closed the MSIVs and MSL drains due to elevated steam line radiation ten minutes ago.
- Groups II, IV, VII, and X isolations initiated and were verified to be complete ten minutes ago.
- The STA reports that the SBGT WRGM value has increased in the last ten minutes to 7E6 μCi/sec.

The most likely source of the increasing release rate is leakage FROM the ...

A. Reactor Coolant Pressure Boundary TO the Primary Containment.

Reference(s):

- B. Primary Containment TO the Secondary Containment.
- C. Reactor Coolant Pressure Boundary TO Primary Containment Cooling System.
- D. Secondary Containment TO the Auxiliary Building.

Answer:

в

LOP-PC-03, Rev 12 pg.15

Ouestion Reference(s):

New

Explanation: The isolations that occurred are all actuated by elevated containment pressure. Leakage from the primary containment to the secondary containment (reactor building) would be expected. In order to be indicated on the SBGT WRGM, the leakage must be discharged into the reactor building. Neither answer A nor C meet this criteria. There would be no likely source of radiation entering the secondary containment from the Auxiliary Building.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 34	500000	EA1.03	3.4/3.2	BOTH	094.00.05	Level:

The procedure for Operation of the Post-LOCA Combustible Gas Control System provides a precaution that "during a LOCA Environment, flows may be increased up to 200 scfm."

Which of the following is the reason for this restriction on system flow?

=

- A. Higher flow rates may result in excessive reaction chamber shell temperatures and an automatic shutdown of the HG System.
- B. The electric heaters are sized to produce the temperatures necessary for recombination only at flow rates of 200 scfm or less.
- C. Higher flow rates entrains moisture droplets in the gas steam, reducing the amount of hydrogen recombination that occurs.
- D. The residence time of the gases in the reaction chamber may not be sufficient to provide proper recombination of the hydrogen.

Answer: Reference(s):		Question Reference(s):
D	LOP-HG-02, Rev 8, pg. 2	094.00.20 002

Explanation: Flows should not exceed 200 scfm such that the gas residence time in the reaction chamber remains sufficient.

• •		System:	K/A:	Importance	Exam:	Objective:	
	# 35	600000	AK3.04	2.8/3.4	BOTH	125.00.20	Level:

Which of the following identifies the individual(s) and location to which they should be dispatched in response to a Unit 1 Red NON-CO2 fire panel alarm?

D	Reference(s): LOA-FP-101, Rev 3, pg.6 & 51		125.02.20 001 (modified)
Answer:			Question Reference(s):
D.	fire brigade	Turbine Building Fire Cage	
C.	operator	affected area	· · · :
: B.	operator	Turbine Building Fire Cage	
А.	fire brigade	affected area	
	<u>Individual(s)</u>	Location	

Explanation: Only Answer D meets the requirements of LOA-FP-101.

-

(35	$\Big)$
	Page: 1	

Tuesday, June 20, 2000 @ 09:02 AM

125.02.20 001

المادي ويدار مار خور ووثا الأو مز

The operator response to a fire panel alarm that is coded red is which of the following?

OLASAL~1.BNK

- \checkmark A. Dispatch the fire brigade to the affected area.
 - B. Declare equipment in the affected area inop.
 - C. Dispatch an operator to the affected area to investigate.
 - D. Declare an unusual event.

Dispatch the fire brigade to the affected area.

125.02.20 validated erv, 3/29/00

ANSWERS:

Single Points 1

Version Answers:									
0	1	2	3	4	5	6	7	8	9
A	A	c	в	в	A	А	с	D	D

Scramble Choices

D

QID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 36	600000	AA1.08	2.6	RO	125.00.01	Level:

Which of the following Unit 2 fire alarms would indicate that a Halon system had an initiation signal present?

- A. H2 Seal Oil Unit Deluge Trouble
- B. MPT 2E Deluge Trouble

C. QA Archives Room Deluge Trouble

D. Turb Brg Area Deluge Trouble

Answer: C

Question Reference(s):

LOA-FP-201, Rev 3 pg.63,81,83,84

Reference(s):

New

Explanation: The three distracters listed are all lube oil fire concerns. Only the archives room is a class A fire concern. Of the alarms listed, only the QA Archives room is protected by a Halon fire suppression system. All others listed are water systems.

Confidential

Last printed 08/04/00 1:16 PM

Q_ID	System:	K/A:	Importance	Exam:	Objective:	
# 37	201001	K1.10	2.8/2.8	BOTH	024.00.16	Level:
		•				1

Following a reactor scram, the pressure equalization valves associated with the CRD Hydraulic system function to ...

- A. Repressurize the scram discharge volume to minimize introduction of air and foreign materials into the system.
- B. Equalize pressure between the scram supply header and the cooling water header to ensure cooling flow is not lost during a scram.
- C. Equalize pressure between the drive water header and scram discharge volume to prevent inadvertent rod movement.
- D. Repressurize the CRD HCU exhaust header to prevent excessively high control rod velocity during subsequent normal rod movement.

Answer:	Reference(s):	Question Reference(s):
D	RD Hyd LP-25, pg. 6	25.00.05 006

Explanation: D is correct per the reference. Answer A is incorrect as the valves only allow water into the exhaust header. Answer B and C are incorrect as these valves have nothing to do with scram supply header, drive water header or SDV pressure.

O ID	System:	K/A:	Importance	Exam:	Objective:	•
# 38	202002	K2.02	2.6/2.6	BOTH	023.00.16	Level:

Given that a Backup Subloop is available, which of the following conditions will cause the reactor recirc hydraulic system to be shutdown with the FCV hydraulically locked in position?

A. Loss of Control Signal to the Servo Controller

Reference(s):

LOP-RR-03, Rev 8, pg.5

B. Loss of pump outlet pressure

C. Loss of DC power

D. Low Low Reservoir Level

1

Answer:

С

Question Reference(s):

New

Explanation: Only a loss of DC power will result in a direct HPU shutdown and FCV lockup. The distracters listed will cause a transfer to the backup subloop.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
- # 39	202002	A2.07	3.3/3.3	BOTH	023.00.14	Level:

Unit 2 is at rated conditions when an electrician inadvertently disconnects the 2A TDRFP discharge valve open limit switch causing alarm 2H13-P603-A410, 2A/2B TDRFP NOT READY, to annunciate in the control room.

Which of the following describes the response of the RR FCVs to this event?

A. ONLY the 'A' RR FCV will run back to minimum position.

B. ONLY the 'B' RR FCV will run back to minimum position.

C. Both 'A' and 'B' RR FCVs will run back to minimum position.

D. Both 'A' and 'B' RR FCVs will remain at their present position.

Answer:	Reference(s):	Question Reference(s):
D	LOR-1H13-P603-A410	New

Explanation: The event would not cause a level transient. As such, the FCV runback circuit would not be energized and both FCVs would remain at their present position. The 2A TDRFP M/A station would transfer to manual but the transfer should be bumpless.

÷ .	Q_ID	System:	K/A:	Importance	Exam:	Objective:	
:	# 40	203000	A2.17	3.3/3.3	BOTH	064.00.21	Level:

Immediately following exercising of a 1A RHR system valve for post maintenance testing, a low pressure alarm is received for the 1A RHR system.

With respect to the 1A RHR system, which of the following actions is appropriate?

- A. The crew should wait until the water leg pump restores system pressure and should make an entry in the unit log that the alarm was received and subsequently cleared.
- B. The crew should verify the water leg pump restores system pressure and should send an operator to check the high point vent to verify piping filled and vented.
- C. The crew should verify the 1A RHR pump is still operable by running it per the applicable portions of the quarterly surveillance.
- D. The crew should lineup the CY fill system to the 1A RHR injection line piping and keep system in this configuration until the water leg pump can be repaired.

Answer:	Reference(s):	Question Reference(s):
B	LOS-RH-Q2, Rev 30, pg.4	New

÷

Explanation: Per the reference procedure, if a LPCI low pressure alarm annunciates while exercising valves, system, shall be vented per applicable steps of LOS-RH-M1 to verify discharge piping to injection valve is filled.

	'	System:		Importance		Objective:	Cognitive
:	# 41	203000	A4.02	4.1	RO	064.00.14	Level:
							2

Unit 1 experienced a LOCA including the following:

- Drywell pressure reached 5 psig.
- The operator opened 1E12-F027B, B RHR SP Spray Isol.
- The operator throttled 1E12-F024B, B RHR Test to SP VIv until flow indicated 6000 gpm.
- Several minutes later Annunciator 1H13-P601- B405, DIV 2 RHR INJ VLV LO RX PRESS PERMISSIVE is received.

Which of the following statements describes the response of the RHR valves following receipt of the alarm?

В	LOR-1H13-P	601-B405	New
Answer:	: Referenc	e(s):	Question Reference(s):
D.	Remains Open	Remains Open	:
C.	Closes	Remains Open	
В.	Remains Open	Closes	
Α.	Closes	Closes	
	1E12-F024B <u>B RHR Test to SP Vlv</u>	1E12-F027B <u>B RHR SP Spray Isol</u>	• • • • • • • • • • • • • • • • • • •

RHR System Lesson Plan pg.29-31

Explanation: With an initiation signal present and the valve open, the 1E12-F024B would have the 'manual override' function of the logic present. The 1E12-F024B will remain "as is" until the operator repositions the valve. When the alarm is received, and the initiation signal present, the injection valve, 1E12-F042B, will open causing the 1E12-F027B to close. If the initiation signal was not present, the valve would remain open.

·	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
	# 42	204000	A3.03	3.6/3.6	BOTH	027.00.05	Level:

Regarding the Reactor Water Cleanup system, what automatic actions take place when reactor water level drops to -60 inches?

A. Two suction line valves close

B. Two discharge line valves close

÷

C. Two suction line AND two discharge line valves close

D. One suction line AND one discharge line valve close

Answer: Reference(s):

Question Reference(s):

A LP-27 Section IV.A New.

Explanation: Two suction valves, the 1G33-F001 and 1G33-F004 isolate (close) on a Low Reactor Water Level isolation of -50 inches.

	Q_ID # 43	System: 209001	K/A: K2.02	Importance 2.5/2.7	Exam: BOTH	Objective: 063.00.16	Cognitive Level:
• .	135 Y-2 has	tripped.			•		_
		e following val		cted?			
	A. 'C' RH	R Minimum Flo	ow Valve				
	B. HPCS	injection Valve					
	C. LPCS I	njection Valve					

D. RCIC Minimum Flow Valve

:

Answer:

Question Reference(s):

C LPCS LP pg.23

Reference(s):

New

:

Explanation: 135Y-2 is a Div 1 powered MCC. Only the LPCS Injection valve would be affected. HPCS is Division 3. 'C' RHR is Division 2. RCIC Minimum Flow valve is DC powered.

			LT Class	1999 NRC V	Written E	xam	
- - - - - - - - - - - - - - - - - - -	Q_ID # 44	System: 209001	K/A: A1.03	Importance 3.8/3.9	Exam: BOTH	Objective: 063.00.05	Cognitiv Level: 2
U1 • •	The reac RPV pre	perating at 100 tor has scramm ssure is 480 ps el is –140 inch	ned sig	ower when a L	OCA occur	rs resulting in the	following:
ch				ump is(1) and	d the LPCS inject	tion line
B. C.	(1) not r (1) runn	unning ing	(2) op (2) clo	en osed	•		
	(1) runn Answer:		(2) op Reference(FSAR Secti		From	Question Refer	
		LaSalle Sys	tems Descr	iption Manual ure Core Spra	Bai	nk Objective No.	

Explanation: LPCS will initiate and pump will start when RPV level is < -129 inches. The injection check valve will not open until RPV pressure falls below pump shutoff head of 440 psig.

e na seconda da second Na seconda da seconda d

abala da an

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 45	209002	K4.07	3.5/3.0	BOTH	061.00.05	Level:

Unit 2 has scrammed due to a LOCA.

HPCS initiated on Level 2 and re-filled the RPV to a level above Level 8.

Level subsequently decreased to -25 inches and is stable.

Which of the following describes the action(s) the operator must take to re-establish HPCS flow to the RPV?

A. Arm and depress the HPCS System Manual Initiation Pushbutton.

B. Shutdown the HPCS Pump, then restart it and open the injection valve.

C. Depress the HPCS High Water Level Reset pushbutton, then open the Injection Valve.

D. Take the Injection Valve to close to break the seal in, then take the switch to open.

Answer:	Reference(s):	Question Reference(s):
С	HPCS Lesson Plan pp 10	061.00.05 006

Explanation: The injection valve will automatically close (if open) anytime a Reactor high water <u>level signal</u> is present. When Reactor water level increases to the high level setpoint, the high level signal seals itself in until it is either manually reset or another low level signal automatically resets it. The High Water Level Reset pushbutton resets the Reactor high water level interlock if level is

below the high level setpoint.

The manual initiation signal will not reset the high water level trip, only another level 2 signal will automatically reset it.

Stopping the pump will not break the High Water Level Seal-In.

Taking the control switch for the injection value to closed will not break the High Water Level Seal-In.

e de la composition de la comp			K/A:	Importance	Exam:	Objective:	Cognitive
: ·	# 46	211000	K5.06	3.0/3.2	BOTH	028.00.16	Level:
	" "						1

Unit 2 is shutdown with the following conditions:

• SBLC has been initiated.

Which of the following describes how SBLC will respond to a loss of Instrument Air?

Reference(s):

SBLC LP, pg.5, 18

- A. Remote tank level indication would be lost.
- B. Remote flow indication would be lost.
- C. The pulsation dampers would fail open.

D. The tank heaters would fail to energize.

Answer:

Question Reference(s): New

Last printed 07/17/00 3:21 PM

Explanation: Tank level indications will decrease as air pressure decreases. Flow indication is local only. Pulsation dampers do not require IA. Tank heaters are not interlocked with SBLC tank level.

Confidential

n n Anton A	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 47	211000	K3.02	3.0	RO	028.00.18	. Level:

A manufacturing defect provides a flow path between the outer tube of the SBLC injection line and the bottom head area. **Provide Figure 28-08 w/o labels.**

Which of the following describes the consequences of this failure?

A. RWCU Bottom Head Drain Flow indication would be inaccurate.

B. CRD Drive Water flow indication would fail downscale.

C. SBLC solution will not inject into the proper vessel area.

D. HPCS Line Break detection would be unavailable.

Answer: Reference(s):

Question Reference(s): New

D SBLC LP pg.18-19

Explanation: HPCS line break detection utilizes the outer tube of the injection line. A failure in the line would cause a failure of the detection. RT bottom head drain flow would still be accurate since it utilizes the inner tube pressure for its input. SBLC solution is injected through the inner tube and would not be affected. CRD drive water flow may be slightly (less than a 10% change) inaccurate but would not fail downscale as the change in pressure sensed would only be the dP across the core plate.

	l		alle County 1999 NRC V		xam Angelanis		
Q_ID + 48	System: 212000	K/A: K1.10	Importance 3.2/3.4	Exam: BOTH	Objective: 049.00.10	Cognitive Level: 2	
	erating at 35% slowly drifted		er with the follo	owing cond	itions:		
Which one	of the followin a ¹ / ₂ scram, no	g describes t	he effect of the		ns on the RPS log	sic?	
	ram on 'A' RPS						
	ram on 'B' RPS				an a	n Andrea a stranovni se na se se se na na se	
	scram is receive						
Answer:		Reference(s):		Question Refer	ence(s):	
В		RPS LP pg IG-W1 Rev RP-M5, Re	30, pg.13		NEW		•.

any RPS trip since a minimum of TWO MSVs must close to give a ½ scram.

Q_ID System: K/A: Importance Exam: Objective: Cognitiv Level:			an an an the state of the state	 Alata and an an an an a	and a second		
						and the second	
# 49 212000 K4.02 3.5/3.7 BOTH 049.00.14	BOTH 049.00.14	BOTH	3.5/3.7	K4.02	212000	# 49	•

Unit 2 is starting up.

Which of the following would occur if the 'A' IRM were to fail upscale?

RPS will generate...

A. a half scram due to the shorting links being installed.

B. a full scram due to the shorting links being installed.

C. a half scram due to the shorting links being removed.

D. a full scram due to the shorting links being removed.

•_

Answer:

A

RPS Lesson Plan pg.26 & 35

Reference(s):

Question Reference(s): New

Explanation: RPS will generate a half scram only. The shorting links are normally installed. Removal of the shorting links would cause RPS to generate a full scram.

			والمتحد ومنهم والمراجع		en de la seconda de la sec New general de la seconda d	
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 50	214000	K5.01	2.7	RO	047.00.21	Level:
			54 C			

Unit 2 is at rated conditions.

A control rod is at its withdraw limit at position 46.

The control rod has a complete failure of its collet fingers.

Which of the following will FIRST indicate the condition to the operators?

RMCS, LP No. 47, pg. 25

A. The CRD OVERTRAVEL alarm will annunciate.

B. The ROD OUT BLOCK alarm will annunciate.

C. The associated ROD DRIFT light will illuminate.

D. The associated FULL-OUT light will illuminate.

Answer: Reference(s):

С

Ouestion Reference(s):

New

Explanation: Failure of the collet fingers will cause the rod to drift out of the core. The first indication will be a ROD DRIFT light (and alarm) as the odd reed switch is picked up with no rod motion selected. The ROD OUT BLOCK alarm would not be generated until the rod reached the next even reed switch. The FULL OUT light will not illuminate until the rod reaches position 48. The CRD OVERTRAVEL alarm will not come in until the rod exceeds position 48.

LaSalle County Station

ILT Class 1999 NRC Written Exam

X an a	Q ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
:	# 51	215002	K2.03	2.8/2.9	BOTH	045.00.16	Level:

Which of the following identifies the APRM channel and its power supply that can provide a reference power input to the 'A' RBM?

	APRM Channel	Power Supply			
А.	Α	A RPS			
В.	E	A RPS			
C.	Α	111Y			
D.	E	111 Y			
Answer:	Referenc	e(s):	Questi	on Reference(s):	
В	RBM LP pg.32; A	PRM LP pp22	New		

Explanation: RBM reference inputs are from APRM C or E (if C is bypassed). APRM E is powered from RPS Bus 'A'.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
# 52	215002	K2.01	2.5	RO	045.00.16	1
What is the	power supply to	the A and	B channels of t	he Rod Blo	ock Monitoring (l	RBM) system?
A. Channel	A from RPS B	Sus A and C	hannel B from	RPS Bus B		
B. Channel	A from RPS B	us B and C	hannel B from	RPS Bus A	••• ••	
C. Channel	A from Bus 1	1Y and Ch	annel B from B	us 112Y.	en en antigen de la companya de la c	
D. Channel	A from Bus 1	2Y and Ch	annel B from B	lus 111Y.	a a sua a sua sua sua sua sua sua sua su	And the second s
Answer:		Reference(s):		Question Refer	rence(s):
Α	LPN	lo.45, Secti	on V.C.		045.00.16	003

because they are not the power supplies to the RBM system.

•

Last printed 07/27/00 8:58 AM

•

LaSalle County Station ILT Class 1999 NRC Written Exam								
ini ini ini Stana Sel Sula Sta	Q_ID - # 53	System: 215003	K/A: A2.07	Importance 2.5/2.7	Exam: BOTH	Objective: 042.00.21	Cognitive Level: 2	
	Unit 1 is sta	rting up with	the following	conditions:				
		actor Operator is critical.	has just stop	ped withdrawin	ng control r	ods and determin	ned that the	
	• The 'A'	IRM / 'C' IR	M RECORD	ER is accident	ally de-ener	gized.		
		e following d the actions, if			' IRM alar	ns and trips are a	affected by this	
	The 'A' and	I 'C' IRM ala	ms and trips	are			· · ·	
	A. Functio	nal;	The startup ca	n continue wit	hout further	action.		
	B. Non-fu	nctional;	A manual scra	im must be ins	erted.	and the states of the states o	a Maria and Andrewson and A Andrewson and Andrewson and	
	C. Functio	nal;	Stop power cl	nanges until cau	use determi	ned.		
	D. Non-fu	nctional;	A half scram	must be inserte	d.	n an tha an t	· • •	
	Answer:		Reference((s):		Question Refe	rence(s):	
	С		IRM LP Fig	42-2		New		

LOA-NR-101, Rev 1, pg.9

4,2

and the second second second second second second

-Explanation: Recorders provides indication only. Other control room recorders provide alarm functions. All alarms and trip functions are provided by the logic modules contained within the IRM drawer. Operators are directed to check IRM indications on 1H13-P635/636.

1E-1-4210AP

والمسوق تبير تبيؤهم المتأو المستجنين والمنجلة تهره ويستعاله والترج

÷

4	Q ID .	System:	K/A:	Importance	Exam:	Objective:	Cognitive
1	# 54	215003	2.2.22	3.4	RO	042.00.22	Level:

Unit 1 is in Operational Condition 3.

An explosion occurs in the 1A 24/48 VDC battery that results in a loss of power to the distribution panel.

Which of the following Technical Specifications LCOs is affected?

Reference(s):

Technical Specification 3.3.1

A. 3.3.1 Reactor Protection System Instrumentation

B. 3.3.5 Reactor Core Isolation Cooling System Actuation Instrumentation

C. 3.8.2.3 D.C. Distribution - Operating

D. 3.8.2.4 D.C. Distribution - Shutdown

Question Reference(s):

A

Answer:

New

Explanation: The 1A 24/48 VDC batteries provide power to the A, C, E, & G IRMs. With the power supply gone, the IRMs would need to be declared inoperable and T.S. 3.3.1 LCO would not be met. The 1A 24/48 VDC batteries do not supply RCIC actuation instrumentation. T.S. 3.8.2.3 and 3.8.2.4 only address 250 VDC and 125 VDC distribution. RCIC was chosen as a distracter because of its reliance on DC power.

Confidential

Last printed 07/27/00 9:15 AM

•	Q_ID	System:	K/A:	Importance 3.2/3.2	Exam: BOTH	Objective: 041.00.15	Cognitive Level:
-	# 55	215004	A3.01				1
		actor startup, the		more closely m	onitor the S	RMs by	
	. •	ng the indicated					
	C. adjustir	ng the discrimin	ator voltage	•			
	D. selectin	ig the process co	mnuter scr	en.			

Reference(s):

LOP-NR-01, Rev 9, pg. 5

Answer:

A

Question Reference(s): New

÷

Explanation: Recorder speed is placed in fast during a startup. Only IRM ranges are selectable. Operators do not adjust the discriminator voltage. The process computer SRM readings are not utilized.

Q_ID ⁻ # 56	System: 215005	K/A: K5.04	Importance 2.9/3.2	Exam: BOTH	Objective: 043.00.14	Cognitiv Level: 2
Unit 2 is shu	utting down.					#
	driving a contro	ol rod from 4	8 to 00.			
The NSO sh positions	-	e B LPRM m	eters to noticea	bly decrea	se as the rod pas	ses through
	•					
A. 08 to 04	ł					
A. 08 to 04 B. 16 to 20					an an tha Tha tha tha tha tha tha tha tha tha tha t	
)					
B. 16 to 20C. 32 to 28)			 		
B. 16 to 20)	Reference(s	ð:		Question Refer	ence(s):

Ξ

Last printed 08/02/00 8:51 AM

:

a the state of the s

Q_ID # 5 7	System: 216000	K/A: K6.02	Importance 2.8/3.0	Exam: BOTH	Objective: 040.00.16	Cognitive Level:
						2
Unit 2 is at	100% power w	ith the follow	wing condition	s:	· .	
B Narro	w Range is sel	ected for RV	WLC.	•		
	s lost to the 'C				•	
	ter level will		-			
	e until two narr	ow range in	struments reach	n Level 8.		
B. decreas	e until restored	by HPCS a	nd RCIC.			
C. remain	stable and part	of the Leve	al 8 logic will b	e made up.		
D. remain	stable and part	of the Level	8 logic will N	OT function	n.	
Answer:		Reference(• .	· .	Question Refer	rence(s):
С	Λ.	B Inst LP	pg.30		New	
	1	RWLC LP	pg.30	•	and the second second	
	T (instrument	causes its trip fur	oction to fail s

remain stable.

-

	LaSalle County Station ILT Class 1999 NRC Written Exam									
Q_ID # 58	System: 216000	K/A: A3.01	Importance 3.4/3.4	Exam: BOTH	Objective: 040.00.05	Cognitive Level: 3				
Unit 1 is scra	mmed with th	e following	conditions:		•					
• Feedy	water flow has	been lost.								
• Dryw	ell pressure is	2.5 psig.								
• React	or water level	is stable.	n an		. ₁					
• Wide	Range Level	instruments	are indicating -	-120 inches	•					
• Fuel	Zone Level in	struments are	e indicating -1	94 inches.						
• React	tor pressure is	510 psig and	l decreasing at	220 psig/h	•					
• 'A' a	nd 'B' RHR a	re aligned fo	r containment	cooling.						
When possib	ole, 'A' and 'B	' RHR shou	ld be	a na san na		e o a construction de la	and a second			
A. aligned f	for LPCI injec	tion because	adequate core	cooling is l	NOT assured.					
B. aligned f	for LPCI injec	tion because	initiation conc	litions have	been met.	د. الم محمد محمد المحمد المحمد الم				
C. left in co	ontainment coo	ling because	e adequate core	e cooling is	assured.					
D. left in co	ontainment coo	oling because	e initiation con	ditions have	e NOT been met.		genetiken: 			
Answer:	:	Reference(s):		Question Refer	rence(s):				
С		STG-01S08, LGA-001, R	Rev1, pg. 10 ev 0		New					

Explanation: Fuel zone indication can read up to 115 inches lower than actual level due to calibration. As such, Wide Range instrument should be used instead of an uncorrected Fuel Zone. Top of Active Fuel is -161". Initiating conditions for LPCI have been met with drywell pressure >1.69 psig.

A search and a low or

eli Succionation C		QID	System:		Importance	Exam:	Objective:	Cognitive
•	-	# 59	218000	2.1.28	3.2	RO	062.00.01	Level:

When the ADS system 9 minute timer times out, automatic initiation of ADS can occur without the...

A. Level 1 low water level signal.

B. ECCS pressure permissive.

C. high drywell pressure signal.

D. confirmatory low water level permissive.

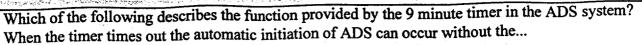
2

Answer: C Reference(s): ADS LP pg.10 Question Reference(s):

062.00.05D 001 (modified)

Explanation: The 9 minute timer allow the actuation of ADS without the drywell pressure signal. Answer C correctly identifies the signal that is bypassed. Answers A,B and D are all incorrect because these signals must be present for automatic actuation of ADS.

062.00.05D 001



✓A. high drywell pressure signal.

B. confirmatory low water level of +12.5.

C. low water level of -129".

D. ECCS pressure permissive.

The 9 minute timer allow the actuation of ADS without the drywell pressure signal. Answer A correctly identifies the signal that is bypassed. Answers B, C and D are all incorrect because these signals must be present for automatic actuation of ADS.

Reference: LP62 Section IV.B. Source: New

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 60	223001	K3.01	3.6	RO	94.00.20	Level:

Unit 2 has suffered a major accident with the following conditions:

- Containment pressure is 12 psig.
- HG system is in operation.
- Instrument air pressure in the reactor building has been lost.
- The STA reports that pressure spiked to 16 psig in the containment and then returned to 12 psig.
- Reactor building area radiation monitor values are now increasing.

Which of the following describes the probable cause for the increasing area radiation monitor values?

The pressure spike caused the

- A. BP 70 blowout panel to rupture.
- B. Hydrogen recombiner loop seal to be lost.

C. Primary Containment Vent and Purge ductwork to rupture.

HG LP pg.17

PC LP pg.27

D. Suppression Chamber manway seal to be lost.

B

Answer: Reference(s):

Question Reference(s):

New

Explanation: Containment pressure above 15.3 psig is sufficient cause the loop seal to be lost allowing the drywell atmosphere a direct path to the Reactor building. VQ would remain isolated if no IA pressure were available. The suppression chamber manway is the weakest component of the primary containment but is designed to withstand 45 psig. The BP 70 blowout panel would only rupture if Reactor Building pressure exceeded 1 psid relieving pressure to the Auxiliary Building roof area.

			F Class	1999 NRC \	Vritten E	Xam	an a
	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
2	# 61	223002	K6.06	2.8/2.9	BOTH	096.00.12	Level: 2

LaSalle County Station

Unit 2 is in STARTUP with the following conditions:

• Reactor pressure is 150 psig.

A . To . La Caller

• RWCU blowdown is open 25% to maintain level during the heatup.

The disk of the RBCCW inlet valve to the in-service non regenerative heat exchanger fails stopping flow.

Which one of the following describes the direct response of the listed valves to this failure?

	RWCU Inboard Isolation Valve <u>2G33-F001</u>	RWCU Outboard Isolation Valve <u>2G33-F004</u>	RWCU Blowdown Header Control Valve <u>2G33-F033</u>		
А.	Remains Open	Remains Open	Closes		
В.	Remains Open	Closes	Remains Open		
C.	Closes	Remains Open	Closes		
D.	Closes	Closes	Remains Open		
Answer:	Reference(s):		Question Reference(s):		
В	- RWCU LI	P pg. 22	027.00.21 001 (Significantly modified)		

Explanation: With a loss of RBCCW flow to the non-regenerative heat exchanger (NRHX), outlet temperature will increase. NRHX high outlet temperature will close the Outboard isolation valve.

027.00.21 001		(DT) sustan
(\. Point) Which one of the followi automatic isolation action or actions	ng correctly states the Reactor Wa	igh Non-Regenerative Heat
Exchanger Outlet Temperature trip?		ign 110h-10egenerative 11eat
NOTE: 1. G33-F001 is the Ir	board Isolation Valve.	
	utboard Isolation Valve.	
	lowdown Flow Control Valve.	
✓A. Closes the G33-F004 valve Of	NLY.	
B. Closes the G33-F001 valve Of	NLY.	
C. Closes BOTH the G33-F001 a	nd the G33-F004 valves.	
D. Closes the G33-F033 valve Of	NLY.	
The non-regenerative heat exchanger high	temperature trip will close only the Outb	oard isolation valve.
Reference: LP-27 Section IV.A		
ANSWERS:	Version Answers: 0 1 2 3 4 5 6 7 8 9	Scramble Choices
Single		Scramble Range: A -
Points 1	ABADDBCACB	

	QID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
•	# 62	226001	K3.01	3.6/3.7	BOTH	064.00.21	Level:

Unit 2 has experienced a LOCA with the following conditions:

- Reactor pressure is 175 psig.
- The condenser hotwell is empty.
- HPCS is OOS.
- RCIC and 'C' RHR are maintaining reactor water level at 36 inches.
- 'A' RHR is supplying Drywell and Suppression Chamber sprays.
- 'B' RHR is in Suppression Pool cooling.

Which of the following describe the primary concern if 241Y were lost?

- A. Reactor water level due to insufficient makeup.
- B. Suppression chamber pressure due to a bypass path.
- C. Drywell pressure due to the inability to re-establish drywell spray.
- D. Reactor pressure due to the loss of steam loads.

Answer:	Reference(s):	~
В	RH LP, Figure 64-05	New

T.S 4.5.1.b pg.³/₄ 5-4

Explanation: With a loss of 241Y, the 'A' RHR containment spray valves would remain open providing a bypass path from the drywell to the suppression chamber. 'C' RHR would be able to maintain reactor water level. 'B' RHR could be aligned for containment sprays. RCIC and SRVs would still be available for pressure control.

	O ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 63	230000	K1.05	3.2	RO	064.00.05	Level:
	π υσ	200000					3

Unit 1 is scrammed due to a LOCA with the following conditions:

- Containment pressure 5 psig
- Reactor pressure 250 psig
- '1A' RHR is aligned for Suppression Chamber Spray and Suppression Pool Cooling a grid transient causes a loss of off-site power.

How will the RHR Test To Suppression Pool valve and the Suppression Chamber Spray Isolation valve respond if 141Y is re-energized?

D	RHR I	LP	New
Answer:	= Reference	e(s):	Question Reference(s):
D.	Remains Open	Remains Open	
C.	Closes	Remains Open	
В.	Remains Open	Closes	
Α.	Closes	Closes	
·	RHR Test To Suppression Pool Valve <u>1E12-F024A</u>	Suppression Chamber Spray Isolation Valve <u>1E12-F027A</u>	

Explanation: Since initiation logic did not clear, nor did the logic power become de-energized, the valves will remain in their present position until manually closed.

	در کرد کا المرحمات کرد کند کند. محمو افغان چچکی از در دارد کرد از		، موجوع المتحدينية (الأسريانية) الارتباع الأحديث الحوار الألا			
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 64	230000	A1.10	3.7	RO	064.00.15	Level:
						2

RHR loop A has automatically initiated in the LPCI mode on a high drywell pressure condition.

It is injecting to the core through 1E12-F042A (RHR loop A injection valve).

Which one of the following describes the response when the 1E12-F027A control switch is placed in the OPEN position?

	A RHR Suppression Chamber Spray Isolation Valve <u>1E12-F027A</u>	A RHR Injection Valve <u>1E12-F042A</u>
А.	OPENS	Remains OPEN
B.	Remains CLOSED	Remains OPEN
C. 1	OPENS when E12-F042A gets full CLOSED	CLOSES
D .	OPENS	CLOSES when 1E12-F027A gets full OPEN
Answer	Reference(s):	Question Reference(s):
× B	RHR LP pg.31	064.00.014 007 (modified)

Explanation: 1E12-F027A can only be opened if 1E12-F042A is closed. The action will have no effect.

064.00.14 007

(1 Points) RHR loop A has automatically initiated in the LPCI mode on a high drywell pressure condition. It is injecting to the core through 1E12-F042A (RHR loop A injection valve). Under the present condition, which one of the following statements describes the response of 1E12-F027A (Suppression Pool Spray Valve) when its handswitch is taken to the OPEN position?

- ✓A. F027A will NOT move as long as F042A is OPEN.
- B. F027A will OPEN, and F042A will automatically CLOSE when the full open limit is reached on F027A.
- C. F027A and F042A will both OPEN and stay OPEN.
- D. F027A valve will open after a 10 minute time delay interlock is satisfied.

A. Correct F027A is closed during RHR standby mode and can be cycled for surveillance testing. F027A is

interlocked with the LPCI initiation logic and receives a close signal when an LPCI initiation occurs. With an LPCI initiation present, F027A can only be opened if the respective

F042 valve is closed.

Choices B,C, & D are all incorrect since they indicate that the E12-F027A will open, also there is no 10 min delay interlock associated with the E12-F027A.

RHR System Lesson Plan Section IV.I.1 & IV.I 2

Q ID	System:	K/A:	Importance	Exam:	Objective:	
# 65	233000	A1.01	2.6/2.9	BOTH	029.00.05	Level:

Which of the following describes the expected change in skimmer surge tank level if the first fuel pool cooling pump is started with the discharge valve full open AND the wier gate set at its highest position?

Skimmer surge tank level

A. increases until the tank overflows.

B. increases and then returns to the level that existed prior to starting the pump.

C. decreases and then increases to the level that existed prior to starting the pump.

D. decreases until the pump trips on low suction pressure.

Reference(s):

Answer:

FC LP pg.46

Question Reference(s): New

Explanation: Without throttling the pump discharge valve and the weir gate restricting the input to the skimmer surge tank, the level will lower down so low as to cause a low suction pressure trip.

	Q ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 66	239001	K4.02	3.1/3.2	BOTH	091.00.05	Level:

With the plant operating at power what effect, if any, would depressing the B Manual Isolation pushbutton, located on 1(2)H13P601, have on PCIS Group 1 valves?

A. Inboard MSIVs Close

B. Outboard MSIVs Close

C. MSL Drain Valve(s) Close(s)

D. No Valves reposition as only half the logic is tripped.

Reference(s):

Answer:

Question Reference(s):

С

PCIS LP pg.22

091.00.05B.1 002

Explanation: B Manual Isolation Arm and depress pushbutton, located on 1(2)H13P601, closes the outboard isolation valves for Groups II through VII, X and the MSL Drains. Inserts a half isolation (B1) for the MSIVs, initiates Division I Post LOCA H2/O2 Monitor and both units of Standby Gas Treatment. Answer C correctly identifies the only action that would occur for PCIS Group 1. Answers A and B are incorrect as neither the Inboard nor the Outboard MSIVs will close.

				en el existence		
O ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 67	and the second second	A1.05	3.7/3.8	BOTH	070.02.20	Level:

Unit 2 is shutdown with the following conditions:

- Reactor pressure 1000 psig
- MSIVs are closed.
- MDRFP is in single element control.
- Reactor water level is approximately 45" on the Narrow Range.

Which of the following describes the expected response if an SRV were opened?

Reactor water level will ...

A. increase causing a trip of the MDRFP.

- B. increase slightly and then return to near the original level.
- C. decrease slightly and then return to near the original level.
- D. decrease causing a Reactor scram.

Answer:

Reference(s): LPGP-PSTG-01S04A Rev 1

Question Reference(s):

New

Explanation: Level swell following SRV operation can cause RPV water level to exceed 55.5 in., resulting in loss of the MDRFP, RCIC, and HPCS. The level swell is greatest from no steam flow conditions at high pressures. If MSIVs were open and reactor at power, level would decrease slightly and then return to near the original level as RWLC and EHC would compensate.

) an an an ag	Q_ID	System:		(a) A second s second second se second second se second second sec	Exam:	Objective:	Cognitive
-	# 68	241000	K1.08	3.6/3.7	BOTH	074.00.05	Level:
							2

Unit 2 is in Run with the following conditions:

•	Reactor	power	-	30%
---	---------	-------	---	-----

• LOAD SELECT - 40%

If reactor power were increased by 20%, which of the following would occur?

2.6	Turbine Control <u>Valves</u>	Turbine Bypass <u>Valves</u>	
А.	Would open further	Remain closed	
B.	Would open further	Would open	
С.	Remain at their present position	Remain closed	
D.	Remain at their present position	Would open	
Answer:	Reference	e(s):	Question Reference(s):
B	EH LP #	‡74	New

Explanation: With a 20% increase in reactor power, TCVs would open until turbine load reached 40%. Bypass valves would then open to control reactor pressure.

Confidential

Last printed 07/15/00 8:42 AM

and the second second second second second second

Q_ID + 69	System: 245000	K/A: A4.07	Importance 2.9/2.9	Exam: BOTH	Objective: 071.00.10	Cognitive Level: 1
Which of th intermediate turbine trip?	e following identi control valves (I	fies the e CVs), and	xpected position d extraction stea	ns of the tu am dump va	rbine control val alves (ESDVs) fo	ves (TCVs), bllowing a
	TCVs		ICVs		ESDVs	
А.	Closed		Closed		Closed	
В.	Closed		Closed		Open	
C.	Closed		Open		Closed	· · · · :
D.	Open		Closed	n Mirak	Closed	
Answer:	R	eference(s):	• •	Question Refer	rence(s):
						1

Explanation: TCVs and ICVs close on a turbine trip. ESDVs open.

Saturday, July 15, 2000 @ 08:49 AM

OLASAL~1.BNK

Page: 1

	TCVs	ICVs	EDVs					
A.	closed	closed	closed					
B.	closed	open	closed					
C.	open	open	open	#				-
√ D.	closed	closed	open					
close	ed close	d open						
	00.14 dated by E. V	olling, 3/30/00						
	SWERS:	- ()		Ve	sion Answe	ers:	Scramb	

in F

-	# 70	259001	K5.03	2.8/2.8	BOTH	077.00.05	Level:
	O ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
	محمد المنازيف والمرجوبين	an a		n an an ann an Anna an	المراجع بمراجع والمراجع والمراجع	n an an an Araba an ann an Araba an Anna an Araba. An an Araba	

Unit 2 is at 20% Reactor Power conducting a normal Unit Startup.

- The MDRFP is not running.
- One Turbine Driven Reactor Feedwater Pump (TDRFP) is in automatic controlling reactor water level.
- The main turbine is on the line with all of the turbine bypass valves closed.
- The main turbine unexpectedly trips.

The TDRFP High Pressure control valve will

- A. CLOSE due to the increasing reactor pressure
- B. OPEN due to the loss of low pressure steam supply.
- C. OPEN due to the increased steam flow through the bypass valves.
- D. CLOSE due to the decreased low pressure steam flow without the main turbine running.

	Answer:	Reference(s):	Question Reference(s):
e Heren	B -	FW LP pp 14	77.00.14 001 (modified)

Explanation:

As a result of the loss of the LP steam supply (Crossover Steam), the TDRFP control valve must open to allow HP Steam to maintain the demanded TDRFP Speed.

Reactor pressure should remain not increase since reactor power is within the capacity of the BPVs.

The amount of Bypass Valve steam flow has no effect on the demanded position of the TDRFP control valve.

With the loss of LP Steam, the TDRPF Control valve must Open to maintain the demanded TDRFP speed.

077.00.14 001

(1 Point) The Unit is in Operational Condition 1 at 20% Reactor Power conducting a normal Unit Startup. The MDRFP had to be taken off line due to a lube oil system leak. One Turbine Driven Reactor Feedwater Pump (TDRFP) is now in automatic controlling reactor water level. The main turbine is on the line with all of the turbine bypass valves closed. The main turbine unexpectedly trips. The TDRFP High Pressure control valve will

 \checkmark A. OPEN due to the loss of low pressure steam supply.

B. OPEN due to the increased steam flow through the bypass valves.

C. CLOSE due to the decreased low pressure steam flow without the main turbine running.

D. CLOSE due to the reduced steam flow to the main turbine.

- 02001	
A. Correct	As a result of the loss of the LP steam supply (Crossover Steam), the TDRFP control
	valve must open to allow HP Steam to maintain the demanded TDRFP Speed.
B. Incorrect	The amount of Bypass Valve steam flow has no effect on the demanded position of
	the TDRFP control valve.
C. Incorrect	With the loss of LP Steam, the TDRPF Control valve must Open to maintain the
	demanded TDRFP speed.
D. Incorrect	In automatic control the TDRFP Control vale would continue to Open in attemps to maintain demanded TDRFP speed.

Feedwater System Description Section III.C.5.d



	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitiv
-	# 71	259001	A1.06	2.7/2.7	BOTH	079.00.05	Level:
		rated conditions					2

The high high level switch for the 11C heater fails in the tripped condition.

In fifteen seconds the running feed pump _____ will be MUCH lower.

- A. differential pressure
- B. speed
- C. suction pressure

D. suction temperature

Answer: C

Question Reference(s):

New

HD LP pg.38 & 52

Reference(s):

Explanation: After ten seconds, the high high level switch will cause an isolation of the C low pressure heater string by closing the Condensate Booster Inlet and Outlet valves (1CB005C & 1CB006C), the associated Heater Drain Pump forward valve 1HD045C, and the 12C normal drain valve. This will reduce the flow to the reactor feed pumps causing their suction pressure to decrease. As the suction pressure decreases, the feed pump's speed, and differential pressure, will increase in order to maintain feedwater flow. Suction temperature will not be changed greatly since the other LP-heater strings are still in operation and the LP Heater String Bypass does not automatically open.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
: # 72	259002	K3.07	3.4/3.4	BOTH	031.00.21	Level:
π /#						2

Unit 2 is at 40% power with the following conditions:

- 'B' Turbine Driven Reactor Feedwater Pump (TDRFP) is operating in Single Element Automatic control
- One of the Main Steam Line Flow inputs to the Reactor Water Level Control (RWLC) system fails low.

At a later period of time, the final reactor water level will be ...

Reference(s):

RWLC LP pg.34

A. dependent upon the initial steam flow rate.

B. higher than the reference tape setpoint.

- C. lower than the reference tape setpoint.
- D. the same as the reference tape setpoint.

Answer:

D

Question Reference(s):

031.00.21 002

Explanation: The failure of the steam line flow input to the RWLC system when in single element control would have no effect on operation. When in single element control only reactor water level is used.

Answer D is correct as it indicates that the reactor water level will remain at the level set on the setpoint tape.

Answer C is incorrect because a reduction in water level is not expected for this failure when in single element control as steam flow is not used to control level.

Answer B is incorrect because again the steam flow is not used in when in single element and therefore would not effect level.

Answer A is incorrect because the initial steam flow will have no effect on level for this failure. Since the failure does not effect any inputs to the system when in single element control.

-	# 73	262001	A4.05	3.3/3.3	BOTH	001.00.07	Level:	
	Q_ID	System:	K/A:	Importance	Exam:	Objective:		
i i i i i	en simpler and a state give to the set of	an an an a sur an	and prove the second second second	e - provinský skála stalovana s	an a	a na sana ang sana sana		

A trainee is synchronizing the '0' DG to bus 141Y.

While synchronizing the generator the following indications are present:

- The incoming voltage is slightly HIGHER than the running voltage.
- The synchroscope is rotating slowly (45 seconds beat) in the FAST (clockwise) direction.
- The trainee turns the '0' DG output breaker to the close position when the synchroscope is at the 3 o'clock position.

Which of the following describe the expected breaker response?

The '0' DG output breaker will ...

Sector 2

- A. close and then trip due to overspeed as the DG shifts pole alignment.
- B. close and then trip due to overcurrent as the DG shifts pole alignment.
- C. remain open due to the sync-check relay sensing excessive phase differential.
- D. remain open due to the sync-check relay sensing excessive voltage differential.

Answer:	Reference(s):	Question Reference(s):
C	DG LPNo. 11, pg. 52	005.00.20 001 (modified)

Explanation: The breaker will not attempt to close due to the sync-check relay sensing $>7^{\circ}$ phase differential. The voltage differential is within the 5% limit of the sync-check relay.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
# 74	262002	K6.01	2.7/2.9	BOTH	012.00.16	2
he station i	s experiencin	g a station bla	ackout.			
/hich of the	e following is	energizing th	e U-1 process	computer?		
. 111Y						
211Y						
. 121Y						
. 221Y						
Answer:		Reference(s):		Question Refer	rence(s):
С		UPS LP pg	.22		New	
ower supply	1: The proces y is 135X-3 f ut is from 121	ed from 141Y	supplied by th 7. 141Y would	e U-1 Proce be de-ener	ess Computer UP gized with the gi	S. The normal ven conditions.

÷

, kasese	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
-	# 75	262002	K1.02	2.8	RO	078.00.16	3

Unit 1 is at rated conditions.

A fire in the TSC UPS caused it to de-energize.

Which of the following describe the effect this will have on TDRFP operation?

The TDRFP's ...

A. flow instrumentation will fail low resulting in a level transient.

B. remote trip will not function requiring a local manual trip.

C. vibration instrumentation will de-energize tripping the TDRFPs.

D. speed control will transfer to its redundant power supply.

Answer:	Reference(s):	Question Reference(s):	
D	TDRFP Speed Control LP, pg.25	New	

Explanation:

The TSC UPS is the primary source of power for the TDRFP Speed Control system power supplies.

MCC 136Y-3(236Y-3) is provided as the redundant power supply.

TDRFP flow instrumentation is powered by 135X-3. The TDRFP trip logic is 125 VDC. Vibration instrumentation is supplied by the main turbine TSI which is not supplied by the TSC UPS.

しかんり しかい かねしもう かたか かたかう	きょうかぬ こうせい みいうがいい	e e proprese de la construcción de	na hinaria (mangéré), a p da panari sa sasirité set padaga sa		a de la como carre da la carre La mediminação como portação	and a second
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 76	263000	K5.01	2.6/2.9	BOTH	006.00.05	Level:
	and the second					1

LOP-VX-01, "Switchgear Heat Removal System Startup" has a precaution which states in part that "the Battery Exhaust Fans should be operated continuously."

Which of the following describes the reason for this precaution?

- A. Exhaust fan operation ensures that the room temperature is maintained above 50 degrees F, even during winter months.
- B. Operation of the exhaust fans prevents the buildup of hydrogen gas which is generated as the batteries are charged.
- C. Without fan operation, room temperature would exceed 104 degrees F due to the heat load generated by the switchgear.
- D. The RPS MG Set cooling requirements cannot be met without continuous operation of the battery exhaust fans.

Answer:	Reference(s):	Question Reference(s):
В	LOP-VX-01 Rev 7	119.00.20 001

Explanation:

B. is correct. Battery Room Exhaust Fans should be operated continuously to prevent the build-up of H2 gas due to charging the batteries.

A., C., and D. are incorrect. Adequate heat removal and temperature control is provided by supply fan operation, heat recovery fan operation, and damper control to use outside air or recirculated air.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
- # 77	264000	K1.04	3.2/3.3	BOTH	011.00.21	Level:
			1.1.1.1.1.1.1		and the second	2

The 1A DG Cooling Water pump trips while the 1A DG is running under load for a surveillance. Assuming no operator action, which of the following describes the expected impact on continued 1A DG operation?

- A. The 1A DG will trip on high cooling water temperature.
- B. The pump trip will directly actuate the DG lockout which will trip the 1A DG.
- C. The 1A DG will continue to heat up and eventually fail with possible damage due to lack of cooling.
- D. The 1A DG governor will runback the load limiter to 10%, which is within the DG's cooling capacity.

Answer:	Reference(s):	Question Reference(s):
Α	LOP-DG-01 Rev 25 pg. 5	011.00.21 004
		(slightly modified)

Explanation: With no ECCS signal present, the DG will heat up and trip on high cooling water temperature of 208 degrees F. There is no direct trip or runback associated with the cooling water _pump.

hursday, June 08,	2000 @ 11:44 AM	OLASAL~1.BNK	Page: 1
	0.21 004		·
surveil	nt) The 1A DG Cooling V lance. Assuming no opera- pected impact on continued	Water pump trips while the 1A DG is ator action occurs, which one of the d 1A DG operation?	s running under load for a following correctly describes
.А т	he 1 A DG will trip on high	h cooling water temperature.	
B. T C. T D. T	he pump trip will directly he 1A DG will continue to poling. he 1A DG governor will r	actuate the DG lockout which will t o heat up and eventually fail with po unback the load limiter to 10%, whi	ssible damage due to lack of
B. T C. T D. T LSCS	he pump trip will directly he 1A DG will continue to poling. he 1A DG governor will r apacity. NRC Exam 10/07/91 see	actuate the DG lockout which will t o heat up and eventually fail with po runback the load limiter to 10%, whi KW#4	ssible damage due to lack of
B. T C. T C. T D. T ca LSCS Refere	he pump trip will directly he 1A DG will continue to poling. he 1A DG governor will r apacity. NRC Exam 10/07/91 see nce: LOA-1DG03J-2-1, R	actuate the DG lockout which will t o heat up and eventually fail with po runback the load limiter to 10%, whi KW#4	ssible damage due to lack of
B. T C. T C. T D. T LSCS Refere LOP-I	he pump trip will directly he 1A DG will continue to poling. he 1A DG governor will r apacity. NRC Exam 10/07/91 see nce: LOA-1DG03J-2-1, R DG-02, Rev. 18	actuate the DG lockout which will t o heat up and eventually fail with po runback the load limiter to 10%, whi KW#4	ssible damage due to lack of
B. T C. T C. T D. T LSCS Refere LOP-I	he pump trip will directly he 1A DG will continue to poling. he 1A DG governor will r apacity. NRC Exam 10/07/91 see nce: LOA-1DG03J-2-1, R	actuate the DG lockout which will t to heat up and eventually fail with po runback the load limiter to 10%, whi KW#4 Rev.	ssible damage due to lack of
B. T C. T C. T D. T LSCS Refere LOP-I	he pump trip will directly he 1A DG will continue to poling. he 1A DG governor will r apacity. NRC Exam 10/07/91 see nce: LOA-1DG03J-2-1, R DG-02, Rev. 18 0K6.07 3.5/3.7	actuate the DG lockout which will t o heat up and eventually fail with po runback the load limiter to 10%, whi KW#4	ssible damage due to lack of the is within the DG's cooling

and the second secon

Stand Laboratory : E

. . . .

# 78	264000	A4.01	3.3	RO	011.00.14	1
Q_II) System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
17 - 17 1 - 17 18 - 18 - 17 - 17 19 - 18 - 17 - 17 - 17 - 17 - 17 - 17 - 17	ال موجع بالمراجع المراجع المراج المراجع المراجع					

The '0' Diesel Generator is paralleled to the SAT and Bus 141Y and loaded as follows: 1,000 kW 200 KVARS

Assuming the load on the system was constant, how would Real load (kW) and Reactive load (KVARS) be expected to respond if the '0' Diesel Generator Voltage control switch was momentarily placed in the 'Raise' position?

·
nce(s):
r

Explanation: With a constant load, real load would remain constant. Increasing the excitation of the generator would cause its reactive load to increase.

÷

tana ang kana ang ka Kana ang kana	ى بىرى ئەربىيە بىرىيى ئەربىيە يېرىيە يېرىيە ئەتتىپىيە بىرى بىرى ئەتتە ئەتتەر بىرى بىرى ئەربىيە بىرىيە	êr pîreşter k				
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 79	271000	A4.01	2.8	RO	080.00.12	Level:
						1

Unit 2 is at rated conditions.

The flow switch for the OG 2nd Stage Steam Flow fails resulting in an OG isolation.

The NSO has verified the isolation signal is invalid.

Which of the following describes the action necessary to re-open the valves that closed?

A. De-energize the valve's motor operator and open the valves manually.

B. Place the control switches for the affected valves in the OPEN position.

C. Turn the Low-Flow keylock bypass switch to BYPASS.

D. Place the control switches for the affected valves in the BYPASS position.

Answer:	Reference(s):	Question Reference(s):
В	• OG LP pg.21	New
	LOA-OG-101 Rev 1	

Explanation: On low 2nd Stage Steam flow, the 1N62-F300A/B will close. Placing the control switches in the OPEN position bypasses the low flow interlock and allows the valve to open. The valves are air operated. There is no keylock bypass switch. The BYPASS position is on the OG charcoal adsorber train control switch not the 1N62-F300A/Bs.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
- # 80	271000	A1.12	3.1	RO	080.00.05	Level:
and the second second second					and the second second second	1

Unit 1 is at rated condition.

Which of the following describe the listed valve's position if BOTH Unit 1 OG Post Treatment PRMs go downscale?

1	Off Gas Air Ejector Suction V (1N62-F300A an	alves Discharge Valve	
A.	Open	Open	
B.	Closed	Open	
		Closed	
C.	Open	Closed	· · · · · · · · · · · · · · · · · · ·
D.	Closed	Closed	
А	nswer:	Reference(s):	Question Reference(s):
	C	PRM LP #80 pg. 18.	New

Explanation: BOTH OG Post Treatment PRMs will cause an isolation of the 1N62-F057. The 1N62-F300A/B auto close on insufficient second stage steam flow.

Confidential

	D		alle County 1999 NRC V		xam	· · · · ·
Q_ID : #81	System: 286000	K/A: K3.02	Importance 3.2/3.4	Exam: BOTH	Objective: 125.00.05	Cognitive Level: 1
Automatic	ire suppression	is delayed	from activation	in the DG r	rooms to	
A. allow the	e fire brigade t	ime to extin	guish the fire w	vithout havi	ng to secure the l	DG.
B. allow p	ersonnel in the	DG room tii	me to exit prior	to activatio	n.	
C. ensure	hat a signal spi	ke would no	ot cause unneed	ed loss of the	ne DG.	
D. ensure	hat a signal spi	ke would no	ot cause unneed	led activatio	n	
Answer:		Reference(s):		Question Refer	ence(s):
В	·· · · · · · · · · · · · · · · · · · ·	FP LP pg.	44		New	tradition -

. .

÷

Lesson and the second second

Confidential

STANDARD DESERVICE

Last printed 07/15/00 12:00 PM

:

لېرىكىيە دىرىيا يېڭ ئېچىمىيە يېرىدىنىيە. ھۆلمە ئارىكى يېڭ ئۆرمىيە ھەدىرى ي		د این اور می این در این ا مراجع کا کیمانی مراجع			المراجع المراجع مراجع ما المراجع	an an an an Arthur Rhan an Arthur
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 82	288000	K1.06	2.7/2.7	BOTH	118.00.16	• Level:
and the second						· · · · · · · · · · · · · · · · · · ·

Unit 2 is in Run with the following conditions:

- Reactor Building Exhaust Air Flow has increased.
- Reactor Building to Outside Differential Pressure is -1"WC and getting more negative. (the pointer is moving toward the bottom of the meter).
- '2A' and '2B' VR Supply fans are running.
- '2A' and '2B' VR Exhaust fans are running.

Which of the following identifies the potential cause of this event?

Loss of Instrument Air pressure to the ...

- A. Supply Duct Isolation Dampers
- B. Exhaust Duct Isolation Dampers
- C. Exhaust Air Flow Control Dampers
- D. Supply Fan Check Dampers

	Answer:	Reference(s):	Question Reference(s):
	The Taylor Contract of the second s second second s second second sec		والمستعد والمعاولة والمتعاد والمتعاول والمتعاول والمتعاول والمتعاول والمتعاول والمتعاول والمتعاول والمتعاول وال
4	C	VR LP pg.9, 16, 17, 31	neliser dis deletes interester New

Explanation: On loss of air, the air modulating dampers, 2VR07YA/B/C/D, fail open. With the 2VR07YA/B/C/D dampers failing open, the running exhaust fans flow would increase. The exhaust fans design flow is 400 cfm more than the supply fans. The Supply Fan Check Dampers are not supplied by IA. The isolation dampers, 2VR04YA/B and 2VR05YA/B, fail closed on loss of IA. Closure of any isolation damper would cause a trip of the associated fans.

LaSalle County Station

ILT Class 1999 NRC Written Exam

	م المعادية المراجع الم المراجع المراجع	and a state of the s	and the second secon			Cognitive
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Level:
- # 83	290002	A2.05	3.7	RO	020.00.21	Level.
			an shering the		021.00.24	2

During a loss of feedwater heating transient MFLCPR exceeds a value of 1.003.

The number of fuel clad failures will ...

A. Increase significantly and reactor power must be reduced within the next fifteen minutes.

B. Increase significantly and all control rods must be inserted within the next 2 hours.

C. Remain relatively stable and reactor power must be reduced within the next fifteen minutes.

D. Remain relatively stable and all control rods must be inserted within the next 2 hours.

Answer:Reference(s):Question Reference(s):CTech Spec 3.2.3New

Explanation: With a value of 1.003, MFLCPR would be exceeding the T.S. LCO limit requiring initiation of corrective actions within fifteen minutes (reduce reactor power). The value is less than 1% over the limit so the safety limit would not be expected to be violated nor would fuel damage be expected.

	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
· ·	# 84	290002	K4.01	3.7	RO	020.00.01	Level:
	ποτ	2/0002					2

Unit 1 is in Run with the following conditions:

- The plant is operating at 40% power
- The Jet Pump operability surveillance indicates that one jet pump has failed
- Technical Specifications require the plant to be in hot shutdown within 12 hours

Which of the following describes why such a severe restriction is placed on continued operation for the given conditions?

- A. A jet pump failure at this low power level will significantly affect the core flows and result in unacceptable thermal limits (MCPR).
- B. A jet pump failure may limit reactor water level restoration capability during the reflood portion of a Loss Of Coolant Accident.
- C. A jet pump failure combined with the flow restricting orifices may adversely affect core flow to the higher power fuel bundles.
- D. A jet pump failure results in less conservative protective action setpoints for instrumentation using recirculation loop flow as an input signal.

4	п	5	w	CI.	•		

Reference(s):

Question Reference(s):

s B

LaSalle UFSAR, App G.3.2.2.3

Hope Creek 2/98 NRC exam

Explanation: Design bases: jet pump integrity is required to maintain a refloodable volume.

LaSalle County Station

ILT Class 1999 NRC Written Exam

	Q ID	System:	K/A:	Importance	Exam:	Objective:	
-	# 85	290003	K4.01	3.1/3.2	BOTH	117.00.08	Level:
1.16.1	an agus a tur a						1

The Control Room Ventilation System is aligned for normal operations (not in purge) and smoke is detected in the RETURN AIR supply duct.

Which of the following describes the response of the VC System?

- A. The Emergency Make Up Train automatically comes on line and the Minimum Outside Air Damper remains open.
- B. The Emergency Make Up Train automatically comes on line and the Outside Air Supply isolates.
- C. The VC Charcoal Filter is automatically placed on line and the Minimum Outside Air Damper remains open.
- D. The VC Charcoal Filter is automatically placed on line and the Minimum Outside Air Damper closes.

Answer:	Reference(s):	Question Reference(s):
С	VC LP, pg.4,5	117.00.08 001

Explanation: High return air smoke detection sensed upstream of the VC return fan suction isolation dampers aligns the VC System recirculation charcoal filter dampers to insure smoke removal. The alignment is as follows:

0VC11YA(B), Inlet, OPENS; 0VC12YA(B), Outlet, OPENS; 0VC13YA(B), Bypass, CLOSES.

EMU comes on line when smoke is detected in outside air supply not return air.

Q ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 86	290003	A2.02	3.1	RO	117.00.15	Level:

Excess control room intake radiation levels will ...

- A. automatically places the EMU train AND the charcoal filter in service to maintain control room habitability.
- B. automatically places the EMU train in service and require the operator to manually place the charcoal filter in service to maintain control room habitability.
- C. automatically places the charcoal filter in service and require the operator to manually place EMU train in service to maintain control room habitability.
- D. require the operator to manually place the EMU train AND charcoal filter in service to maintain control room habitability.

Answer:	Reference(s):	Question Reference(s):
В	LOR-1PM13J-B401 Rev	New

Explanation: High radiation in outside air automatically places the EMU train in service. Operators are required by LOR-1PM13J-B401 to place the charcoal filter in service.

U ID # 87	System: 300000	K/A: A2.01	Importance 2.9	Exam: RO	Objective: 120.00.21	Cognitive Level: 2
A transient	has resulted in a	a loss of pow	er to the in-sei	vice station	n air dryer, 0SA0	2D.
	he following des	_				
A. both to	wers will be pla	ced in service	e.			
B. both to	wers will be iso	lated.				
C. the tov	vers will remain	in the conditi	ion they were	in when po	wer was lost.	
D. the tov	ver bypass auton	natically open	IS.			
Answer:		Reference(s)):		Question Refer	ence(s):
	I	A/SA LP pg	.11		New	

÷

n a sense a sense a sense a sense a sense a sense Na Carlos e sense de Carlos e sense a sense a sense a sense Altra a sense de Carlos de Carlos e sense a se

e in the second second	a en en seconda en estador de la compañía de la com	afalliada atom antitus na success y casasa	langan mang separat se	inter anno 1990 an		alter son enter her son generale son detter son			
	= Q_ID # 88	System: GENERIC	K/A: 2.1.25	Importance 2.8/3.1	Exam: BOTH	Objective: 028.00.22	Cognitive Level: 2		
	Unit 1 is in	Run with the fol	lowing con	ditions	Provi AND LOS	de Tech Spec pa S-AA-S101 Figu	ges 1-19 to 1-22 res C-3 and C-4		
	• SBLC	tank volume	4800 g	al		· · · ·			
	• SBLC	tank concentratio	on 139	%					
	• SBLC	tank temperature	70°	F					
	Which of t	he following desc	cribes the st	atus of the sys	tem?				
	A. A one	hour LCO is in e	ffect			en e			
	B. An eig	ht hour LCO is ir	n effect.						
	C. A seve	n day LCO is in	effect.	•					
		ical Specification		nts are satisfie	ed.				
	Answer:		Reference(s	s):		Question Refe	rence(s):		
	D Technicial Specifications LCO 3.1.5.					5. 28.00.022 001 (Sig Modified)			

÷

Confidential

erige ^annend-destructure and a see

e anna an stàite

Last printed 07/27/00 12:26 PM

Sec. 3. 7. 1

·* -:	Q_ID	System:	K/A:		Exam:	Objective:	
•	# 89	GENERIC	2.1.7	3.7/4.4	BOTH	041.00.14	• Level:
							2

Unit 2 is in STARTUP with the following conditions:

- It has been 24 hours following a scram from an extended full-power run.
- Reactor temperature is 138°F.
- Source range counts have been allowed to stabilize at 30,000 cps while the second verifier checks rod positions.
- You notice that source range counts begin to SLOWLY increase above 30,000 cps.

The increasing counts are . . .

- A. Expected, the startup should continue.
- B. Expected, rod withdrawal is prohibited until count rate stabilizes.
- C. Unexpected, rods should be inserted to stabilize the count rate.
- D. Unexpected, Shift Manager permission is required to continue the startup.

Answer:	Reference(s):	Question Reference(s):
A	Rx Theory	Dresden 1998 NRC ILT Exam
	LGP-1-1, Rev 62, pg.7	

Explanation: Xenon is burning out 24 hours following a scram. The increasing count rate would be expected and the startup should continue.

	and a second						٦)			
Question Topic:	High xeno	n startup		<u></u>						
temperature is 1	38 F. Sou	irce range c	ounts	have	been a	llowed to st	abiliz	n extended full-j ze at 30,000 cps are increasing al	while the	secon
Which of the following accounts for the increasing counts?										
a. The reactor became supercritical due to xenon decay.										
b. ALL Main Steam Line drain valves were opened.										
c. ALL Main Steam Line drain valves were closed.										
d. The Shutdown Cooling System was removed from service.										
	xam Level:	R	<u>ت</u>	itive L		Memory				
Explanatio n of AnswerXenon is burning out 24 hours following a scram. Answers b and c are not correct because at the given temperature positioning of these valves would not affect reactivity. Answer d is incorrect, SDC is removed fr service prior to commencing a startup, even if this were not done, decay heat would cause temperature to incr which would NOT produce increasing counts.										
Tier: Generic k	Knowledge a	nd Abilities						RO Group:	1 SRO	Group:
System/Evolution Number: GENERI C System/Evolution Title:										
Category: 1 Conduct of Operations										
KA: 2.1.7 Ability to evaluate plant performance and make operational judgments based on operating characteri reactor behavior, and instrument interpretation.										
RO Value: 3.7	SRO Va	alue: 4.4	CF	R: 4	13.5, 45	5.12, 45.13			······································	
Reference	ें 9 रे 9 रे 9 रे 9 रे	Reference	Numbe	r		ence Section		Page Number(s)	Revision	Learn Obj
Unit Startup	- 2475, 2 - 1475, 2 - 1475	DGP 01-01			Att. A			61	79	
	۰۰۰۰ ۰۰۰۰ ۵۰۰۰									
Comment	Comm							· · · · · · · · · · · · · · · · · · ·		
Facility	Need lea	arning objecti	ve.							
Question Source		Question Modification Method			n					
Question Source								· · · · · · · · · · · · · · · · · · ·		
Material Require Examination:	d for									

للمتحافظ فتحج فلجج الفافع والتمانية فيتركز فالتمالم والها

	Class I	222 111	TILLOII	
1.00 100	المرجلة والمراجلة والمراجلة المراجلة	a sala sa	 المحاريك ويتوجع مالات	

Q.ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
² # 90	GENERIC	2.1.21	3.1	RO	769.00.01	Level:
				1. S.		1

You are getting ready to perform a task and have just copied the procedure you are going to use from the Work Execution Center.

You are ...

Ξ

- A. allowed proceed as long as the copy is the same revision as the one listed in the procedure index on the Intranet.
- B. allowed to proceed as the copy you have should be the current revision.
- C. required to compare the procedure revision with the one in the Control Room BEFORE proceeding.
- D. required to compare the procedure revision with the one listed in EWCS BEFORE proceeding.

Answer:	Reference(s):	Question Reference(s):		
В	AD-AA-104-101, Rev 0, pg.2	New		
	LAP-820-2T, Rev 20, pg.4			

Explanation: The WEC is one of the locations that is an Authorized set. No further verification is required.

and the second secon	والمتحود والمحاركة والمحاصية والمحاصية والمحاصية والمحاصة والمحاصة	in recention for	and the second secon	and the second second	Same and the same same same set	أحادين المراجعية
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 91	GENERIC	2.2.12	3.0/3.4	BOTH	032.00.20	Level:

The Plant Supervisor has ordered you to perform a RCIC operability test following maintenance using LOS-RI-Q3, Reactor Core Isolation Cooling (RCIC) System Pump Operability and Valve Inservice Tests In Conditions 1, 2, and 3.

LOS-RI-Q3 requires the performance of?

Answer:

A. Chemistry analysis on the Suppression Pool water.

B. Suppression Pool Temperature Monitoring Checks.

الم المحمد (1997). ومن عن المحمد ومن المحمد ال

C. RCIC Monthly Valve Operability on the RCIC Exhaust Rupture Diaphragm.

D. Remote Shutdown Panel Post Accident Instrumentation Operability Checks.

Reference(s):

		-	
			D D N. 011
B	LOS-RI-Q3 Rev 31	INP	O Q No.821

Explanation: With RCIC System adding heat to the Suppression Pool, Suppression Pool temperatures must be verified less than or equal to 105°F at least once per 5 minutes and documented in LOS-AA-S101[201], Att G.

Ouestion Reference(s):

LaSalle County Station ILT Class 1999 NRC Written Exam Cognitive **Objective:** K/A: Importance Exam: Q ID System: Level: 30.077 **# 92** GENERIC 2.2.28 2.6/3.5 BOTH 1 Unit 1 is in a refueling outage. A single fuel bundle is being loaded into the core. The signal-to-noise ratio is 15 to 1. The MINIMUM count rate to verify the required SRMs operable is _____ counts per second. A. 0.7 B. 1.0 C. 2.0 D. 3.0 Question Reference(s): Reference(s): Answer: New D LFS-100-4, Rev 16, pg. 12 Explanation: With the signal-noise-ratio .less than 20 to 1, the minimum count rate is 3 CPS.

Q_IDSystem:K/A:ImportanceExam:Objective:Cognitive# 93GENERIC2.2.262.5RO030.00.20Level:	georgeo vár	an wanter	ىرى بى تە رەپ بىرى تى بىرىتىن قىقتۇرىيى يېرىچى بىرى يېرىكى يېرىكى	و، بالمحمد بالمعالمة المراجع و	and the second	tradiçul et deretine		المارية المعود ومعوهد
	() ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
	•	# 93	GENERIC	2.2.26	2.5	RO	030.00.20	Level:

Which of the following describe the required communication between the Control Room and the Refueling Bridge during core alterations?

A. Dialed Telephone

B. PA System (speaker phone)

C. Sound Powered Phones

D. Station Radio (operator frequency)

÷

Answer: В

Question Reference(s):

LFP-600-2, Rev 8

Reference(s):

New

Explanation: Control Room and Refuel Bridge communicators are required to use the P.A. System (Speaker phone).

\smile	and a start of the second s	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
1997 - S.	2	# 94	GENERIC	2.2.13	3.6	RO	OOS Obj 3.1,	Level:
						· · · · ·	4.1, 5.1, 6.1,	1

Regarding station Out Of Services, which situation would utilize a Dual Function Checklist? Performing . . .

A. both HANG and LIFT steps on the same checklist.

B. both HANG and VERIFY steps on the same checklist.

C. the LIFT and the normal Mechanical Lineup using a common checklist.

OP-AA-101-201, Rev 2, pg.4

D. the VERIFY and the normal Mechanical Lineup using a common checklist.

Answer: Reference(s): Question Reference(s):

Α

OOS Exam bank (Sig Mod)

Explanation: a Dual Function Checklist performs both hang and lift steps on the same checklist.

0¹/_bon^k Exam Objective: 3.1, 4.1, 5.1, 6.1, 7.1

26. The OOS process cards that are attached to zone of protection isolation points to prevent manipulation are called:

A. OOS Master CardsB. Auxiliary OOS CardsC. OOS ZOP (Zone of Protection) Cards

D. OOS Hold Cards

Answer: B, Auxiliary OOS cards are attached to points of isolation to prevent manipulation. These are the OOS cards that create the zone of protection on an OOS.

Objective: 3.1, 4.1, 5.1, 6.1, 7.1

27. Which of the following is an Operator going to do when assigned the task of performing a Boundary Verification of an OOS?

- A. Follow the requirements of AD-AA-104-103 Verification Practices to verify the equipment status of the OOS conditions.
- B. Walk down the boundaries of the building in which the OOS is placed to verify safe conditions.
- C. Verify that the OOS was developed within the administrative boundaries set forth in the OOS procedure.
- D. Verify that the work hazards at the OOS boundaries are acceptable to perform the work safely.

Answer: A, The Boundary Verification is the process Ops uses to aid in verifying the OOS is hung on the correct OOS points. This can be an independent verification or a concurrent verification as delineated in the AD-AA-104-103 Verification Practices procedure.

Objective: 3.1, 4.1, 5.1, 6.1, 7.1

5

28. An OOS checklist that is used to perform both HANG and LIFT OOS activities is called:

A. A Double Use checklist.

- B. A Dual Function checklist.
- C. An Exceptional OOS checklist.
- D. A Scope Change checklist.

Answer: B, Dual Function checklists have both Lift actions and Hang actions on them.

	internation and the second second	the strange and the second second second		ng gan 20 sa salah sa	المحصورية المالية المراقع	a state and a second second second	and a state of the second second
	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
÷	# 95	GENERIC	2.3.9	2.5/3.4	BOTH	93.00.20	Level:
				and the second			1

Which of the following must be in service prior to performing a containment purge when the unit is at power?

A. MCR AND AEER Emergency Makeup Trains

B. ONLY the MCR Emergency Makeup Train

+

C. MCR AND AEER Recirculation Charcoal Filter Units

D. ONLY the MCR Recirculation Charcoal Filter Unit

Answer:

С

Question Reference(s): New

Last printed 07/27/00 1:07 PM

LOP-VQ-04, Rev 12, Pg. 34

Reference(s):

Explanation: If the unit is in OC 1,2, or 3, BOTH MCR and AEER Recirculation Charcoal Filters are to be verified in service prior to purging the drywell.

Confidential

	System:		Importance		Objective:	Cognitive
# 96	GENERIC	2.3.2	2.5	RO		Level:

You have been directed to independently verify the closed position of a system drain valve.

To complete the task you will have to spend approximately 10 minutes in the general area of the valve.

The dose rate in the general area of the valve is 50 mRem/hr.

Which of the following is the correct approach to fulfilling this task?

Reference(s):

- A. Have Shift Manager approve using process parameters as a verification since estimated dose will likely exceed 15 mRem.
- B. Have Shift Manager waive the independent verification since estimated dose will likely exceed 5 mRem.
- C. Perform the independent verification since total individual dose is expected to be less than 15 mRem.
- D. Perform the independent verification after installing shielding to reduce your dose to less than 5 mRem.

Answer:

Question Reference(s):

B AD-AA-104-103, Rev 2 pg.7 & 9 (Significantly modified)

Explanation: The use of alternate verification techniques is applicable whenever doses in excess of 5 mRem are expected. The distractors test the candidate's recollection of the value associated with the independent verification waiver, as well as their recognition of the appropriate value of other ALARA concepts such as planning and shielding. Neither is appropriate in this circumstance due to the basic nature of the task and because the installation of shielding would result in further exposure to the workers installing the shielding.

QD	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 97	GENERIC	2.3.11	2.7	RO	052.00.05	Level:

Unit one Radwaste Discharge Tank 1WF05T is being discharged to the lake blowdown line.

While hanging an outage for service water, the inlet and outlet valves for the liquid Radwaste PRM are mistakenly closed.

Which of the following describes actions that will occur due to this valve operation?

- A. The Lake Blowdown Flow Control Valve CLOSES AND the Radwaste Discharge Pump TRIPS.
- B. The Radwaste Discharge Line Isolation Stop Valve CLOSES AND the Radwaste Discharge **Recirculation Valve OPENS.**
- C. The Lake Blowdown Flow Control Valve CLOSES AND the Radwaste Discharge Recirculation Valve OPENS.
- D. The Radwaste Discharge Line Isolation Stop Valve CLOSES AND the Radwaste Discharge Pump TRIPS.

Answer:

Question Reference(s):

LOP-WF-20 Rev 34 pg. 5 Ð

Reference(s):

LOP-WF-20 001 (modified)

Explanation: The Radwaste Discharge Line Isolation Stop will automatically close and the Radwaste Discharge Pumps will trip on Radwaste Effluent sample panel low flow. The Lake Blowdown Flow Control valve and the Radwaste Discharge Recirculation valve are not affected.

Monday, July 24, 2000 @ 05:	33 PM	0LASAL~1	I.BNK	Page: 1	
LOP-WF-20 (001				
hanging an outa mistakenly close	ge for service wat	er, the inlet and out	et valves for the	e lake blowdown lin liquid Radwaste PR c action that will occ	Ivi are
C. The clean of	ste discharge valv l Bunger flow con condensate flush v rge recirculation p	ntrol valve auto close valve auto closes.	es.	•	
LOP-WF-20, Rev.	19, Page 3, Step E.2.		an a	A na ga an tha an th	
(Verified by jdh, aa (Verified no change	lded solution text, 06/ es,04/16/96, jer.)	/05/95, jer.)			
				•	•
Objective & KA: C	272000-7.02; KA27	2000K4.02 R3.7/S4.1			
ANSWERS:	272000-7.02; KA27	Version	Answers: 3 4 5 6 7 8 9 C A C B D A B	Scramble Choices	•
ANSWERS:	•	Version		· · · ·	
ANSWERS:	•	Version		· · · ·	
ANSWERS:	•	Version		· · · ·	•
ANSWERS:	oints <u>1</u> z	Version 0 1 2 A D A	3 4 5 6 7 8 9 CACBDAB	Scramble Range: A	
ANSWERS: Single Po	bints <u>1</u>	Version	3 4 5 6 7 8 9 <u>CACBDAB</u>	Scramble Range: A	
ANSWERS: Single Po	oints <u>1</u> z	Version 0 1 2 A D A	3 4 5 6 7 8 9 CACBDAB	Scramble Range: A	
ANSWERS: Single Po	bints <u>1</u>	Version 0 1 2 A D A	3 4 5 6 7 8 9 CACBDAB	Scramble Range: A	-
ANSWERS: Single Po	bints <u>1</u>	Version 0 1 2 A D A	3 4 5 6 7 8 9 CACBDAB	Scramble Range: A	-

O ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
	GENERIC	2.4.6	3.1/4.0	BOTH	400.00.18	Level:

Unit 2 is shutdown with the following conditions:

- A large LOCA has occurred.
- Containment pressure quickly exceeded the Pressure Suppression Pressure Limit.

Which of the following describes the sequence of steps to be attempted to mitigate the containment pressure increase?

- A. Align VQ for venting the Drywell IAW LGA-VQ-02; Align RHR for Suppression Chamber Spray IAW LGA-RH-101; Align RHR for Drywell Spray IAW LGA-RH-101; Initiate ADS IAW LGA-04.
- B. Align RHR for Suppression Chamber Spray IAW LGA-RH-101; Align RHR for Drywell Spray IAW LGA-RH-101; Initiate ADS IAW LGA-04; Align VQ for venting the Drywell IAW LGA-VQ-02;
- C. Align VQ for venting the Drywell IAW LGA-VQ-02; Align RHR for Drywell Spray IAW LGA-RH-101;
 Align RHR for Suppression Chamber Spray IAW LGA-RH-101; Initiate ADS IAW LGA-04.
- D. Align RHR for Drywell Spray IAW LGA-RH-101; Align RHR for Suppression Chamber Spray IAW LGA-RH-101; Initiate ADS IAW LGA-04; Align VQ for venting the Drywell IAW LGA-VQ-02;

Reference(s):

Answer:

Question Reference(s):

B LGA-003, Rev 0

New

Explanation: Suppression chamber sprays are always attempted prior to DW sprays. ADS is always performed prior to venting per LGA-VQ-02. The initial venting of the containment to control pressure is LGA-VQ-01 and cannot be performed if VQ has isolated on high containment pressure.

والحاوة والمتعاد المالي	and the second	1			in fan Derfonder en en en se ster fan de se	
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 99	GENERIC	2.4.17	3.1	RO	400.00.15	Level:

A reactor scram has occurred and not all rods have inserted.

Which of the following conditions would allow the SRO to make the determination that the "Reactor will remain shutdown under all conditions?"

A. No more than one rod remains withdrawn in any 5 x 5 array.

B. One control rod remains withdrawn at 48. ALL other rods are at 00.

C. Power is in the source range and decreasing on ALL channels.

D. The only rods which remain withdrawn are at position 04 or 02.

Answer:Reference(s):Question Reference(s):BTech SpecDresden 1998 Exam Q

Explanation: all rods at 02 or 00; "Shutdown margin check"- one rod can be fully withdrawn form the core provided all others are at 00. Answer C and D don't meet this check. Answer A would allow multiple rods to be withdrawn.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 100	GENERIC	2.4.12	3.4/3.9	BOTH	702.06	Level:

- Both Unit-1 and Unit-2 are at normal rated full power conditions.
- You were the off-going NSO on Unit-2.
- You were properly relieved.

While sitting in your car you remember that you left your lunch box in the Service Building. You re-enter the protected area and as you approach the Service Building a passer-by informs you that a Site Emergency has been declared and the station is about to perform a site assembly. You then hear the Assembly Siren.

- Based on the above information, you must ...
- A. Assemble in the Operational Support Center.
- B. Assemble in the Service Building Trackway.
- C. Report immediately to the Unit-2 Control Room and offer your assistance.
- D. Return to your vehicle and wait at home to be called back as a relief crew member.
 - Answer: ____ Reference(s): Question Reference(s):
 - B LZP-1170-2, Revision 8, Page 6 and 7, LOR Bank LZP-1170-2 006 (modified) Step E.4

Explanation: The individual should report to the Service Building Trackway since they do not meet the other criteria listed in Step E.4.

OLASAL~1.BNK Page: 1 Thursday, June 29, 2000 @ 12:41 PM LZP-1170-2 006 Given the following plant conditions: - Both Unit-1 and Unit-2 are at normal rated full power conditions - You are the off-going NSO on Unit-2 - You were properly relieved While sitting in your car you remember that you left your lunch box in the Service Building. You re-enter the protected area and as you approach the Service Building a passer-by informs you that a Site Emergency has been declared and the station is about to perfrom a site assembly. You then hear the Assembly Siren. Based on the above information, you should ... ✓A. assemble in the South Service Building Trackway. B. assemble in the Operational Support Center. C. return to your vehicle and call the Unit-2 Control Room before leaving the parking lot. D. report immediately to the Unit-2 Control Room and offer your assistance. LZP-1170-2, Revision 8, Page 6 and 7, Step E.4 (New question written for 99m6 LORT Annual Exams, 12/16/99, jer.) Objective: 702.06 K/A (revision 2): For ROs 2.4.39 3.3/3.1, and For SROs 2.4.40 2.3/4.0 Version Answers: ANSWERS: Scramble Choices

0123456789

Scramble Range: A -

Single

Points

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive	
⁻ # 101	295019	AA2.01	3.6	SRO	120.00.18	Level:	

Unit 2 is at rated power with the following conditions:

- HD tank level increasing.
- HD Pump Minimum Flow Valves opening.
- HD Pump Forward Valves closing.
- LP Heater Emergency Spills Valve opening.

Which of the following is responsible for all of the conditions AND which procedure(s) should be implemented?

A. LP Heater 23 Level transmitter failing high, enter LOA-HD-201.

- B. HD Pump Flow Transmitter failing low, enter LOA-HD-201.
- C. Loss of Misc. Auto Control System, enter LOA-HD-201 and LOA-GC-201.

D. Loss of Instrument Air, enter LOA-HD-201 and LOA-IA-201.

Answer:	Reference(s):	Question Reference(s):
D	LOA-IA-201, Rev 1, pg.14	New

Explanation: Only a loss of instrument air would result in all of these conditions. LP Htr 23A level transmitter failing high would open the 23A Emer spill valve and cause the pump forward valves to close slightly but would not cause HD tank level to increase. Loss of 2PA06J and HD pump flow transmitter would not cause Emer spill valves to open. LOA-HD-201 should be utilized to address the changing HD flows. LOA-IA-201 should be utilized to address the loss of IA.

-	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive	
	= # 102	241000	2.1.11	3.8	SRO	073.00.24	Level:	
	17 1.04	2.2000					2	

Unit 2 is operating near full power when instrument maintenance technicians discovered that three turbine stop valve closure channels that input to RPS are inoperable.

PROVIDE T.S. 3.3.1

Which of the following actions is required?

- A. Within one hour, verify sufficient channels remain operable or tripped to maintain trip capability in the Functional Unit.
- B. Within one hour, initiate a reduction in reactor power to less than 25% thermal power within two hours.
- C. Within six hours restore the inoperable channels or reduce power to less than 25% within the following 12 hours.
- D. Within six hours place the remaining operable channel in the tripped condition.

Answer:	Reference(s):	Question Reference(s):	
Α	LP 73 Section VII.A and T.S. 3.3.1	73.00.24 001	

Explanation: T.S. 3.3.1 requires that when you have less than the required operable channels you must trip one RPS channel in 12 hours. If you have 2 or more channels inop, as specified in this question, then the following actions apply:

a. within 1 hour, verify sufficient channels remain Operable or tripped to maintain trip capability in the Functional Unit and,

b. Within 6 hours place the inop channel(s) in one trip system, and/or that trip system in the tripped condition,

and

Within 12 hours, restore the inop channels in the other trip system to operable or tripped.

Only answer A is correct as it specifies that within one hour verify sufficient channels remain operable or tripped to maintain trip capability in the functional unit. Answer B is incorrect because if action 6 of table 3.3.1-1 were taken it specifies that the reduction of reactor power happen within 15 minutes, not one hour as specified in this answer. Answer C is incorrect as action prior to the six hours specified in this answer is required. Answer D is incorrect because again action is required prior to the six hours specified in this answer.

Q_ID # 103	System: 295035	K/A: 2.4.1	Importance 4.6	Exam: SRO	Objective: 400.00.01	Cogr Lev
11-11-0	TTat Chutdaum	with the fel	lowing conditio	nc •	• • • • • • • • • • • • • • • • • • • •	
• •			lowing conditio			
			ns have tripped.			
		•	ure is +0.01 incl			
		· · · · · · · · · · · · · · · · · · ·	ng document for	r this situat	ion ?	
A. LGA-0	02, Secondary (Containmen	t Control.			
B. The ass	ociated annunc	iator respon	se procedures.			
C. Tech S	bec 3.6.5.1, Sec	ondary Con	tainment Integr	ity.		
D. LOA-V Ventila		Recovery fro	om a Group 4 Is	solation or	Spurious Trip of	Reactor]
Answer:		Reference((s):		Question Refe	rence(s):
Α	• •	LGA-002, R	· •		New	

Confidential

Q_IDSystem:K/A:ImportanceExam:Objective:Cognitiv# 1042620012.1.113.8SRO005.00.24Level:	المرابع المعلم في من المرابع بليدين المدار المرابع المرابع مواجعة في محمد المرابع المرابع المرابع المرابع المرابع المرابع المرابع	romani († 1995) se se se se si si se	the second se	and the second	بالمتحية والمتكرب المحا	المراجع المراجع مراجع المراجع ال	
							Cognitive
	- # 104	262001	2.1.11	3.8	SRO	005.00.24	Levei:

- Unit 1 startup is in progress after a short outage to repair a leak inside the drywell.
- Reactor power is currently 7% with the mode switch in STARTUP and containment inerting in progress.
- Shift plans are to continue the power ascension and transfer the mode switch to RUN.
- A report is received that the drywell lighting circuits are energized.

The lighting circuits must be deenergized...

- A. within 1 hour.
- B. prior to placing the mode switch to RUN.
- C. within 1 hour after placing the mode switch to RUN.
- D. before drywell oxygen concentration is less than 16%.

Reference(s):

Answer:

A L

Question Reference(s):

LP05 Section VII.A. and T.S. 3.8.3.1 005.00.24 002

Explanation: This question tests the students ability to RECALL one-hour or less T.S. Do Not use this question on exams where Technical Specifications are given as a reference.

Technical Specification 3.8.3.1 requires that during Operational Conditions 1, 2, and 3 the drywell lighting circuits be deenergized. The action statement requires that if the circuits are energized they be deenergized within 1 hour. Answer A is correct as it identifies this 1 hour requirement. Answer B is incorrect because even in mode 2 the circuit must be deenergized within one hour. Answer C is incorrect because the 1 hour clock starts now not when the mode switch is transferred to RUN. Answer D is incorrect because the circuit must be deenergized within 1 hour irrespective of the drywell oxygen concentration.

Thursday, June 08, 2000 @ 11:25 AM

0LASAL~1.BNK



005.00.24 002

Unit 1 startup is in progress after a short outage to repair a leak inside the drywell. Reactor power is currently 7% with the mode switch in STARTUP and containment inerting in progress. Shift plans are to continue the power ascension and transfer the mode switch to RUN. A report is received that the drywell lighting circuits are energized. What actions/impacts will this have?

 \checkmark A. The lighting circuits must be deenergized within 1 hour.

- B. The lighting circuits must be deenergized prior to placing the mode switch to RUN.
- C. The lighting circuits must be deenergized within 1 hour after placing the mode switch to RUN.
- D. The lighting circuits must be deenergized until drywell oxygen concentration is less than 4%.

This question tests the students ability to RECALL one-hour or less T.S. Do Not use this question on exams where Technical Specifications are given as a reference.

Technical Specification 3.8.3.1 requires that during Operational Conditions 1, 2, and 3 the drywell lighting circuits be deenergized. The action statement requires that if the circuits are energized they be deenergized within 1 hour. Answer A is correct as it identifies this 1 hour requirement. Answer B is incorrect because even in mode 2 the circuit must be deenergized within one hour. Answer C is incorrect because the 1 hour clock starts now not when the mode switch is transferred to RUN. Answer D is incorrect because the circuit must be deenergized within 1 hour irrespective of the drywell oxygen concentration.

Reference: LP05 Section VII.A. and T.S. 3.8.3.1

Source: New			
 ANSWERS:	Version Answers: 0 1 2 3 4 5 6 7 8 9	Scramble Choices	
Single Points 1	ABCDABCDAB	Scramble Range: A -	D

			1999 1460	Vritten E	xam	
Q_ID - # 105	System: 263000	K/A: 2.1.12	Importance 4.0	Exam: SRO	Objective: 006.00.22	Cognitive Level:
						2
Unit One	s at rated condit	ion.			Pro	vide T.S. 3.4.8.
	IV 2 125V DC I		RGER TROUB	LE alarm h	as come in.	
	attery Charger v					
	anory charger v	~				
plant?		scribes the i	mpact this situa		the continued op	
plant? A. Action HOT	n must he taken i	scribes the in	mpact this situa	st STARTU	the continued op JP within the nex COLD SHUTD	t 6 hours, at le
A. Action HOT subset B. Action least I	n must be taken v SHUTDOWN w quent 24 hours. n must be taken v	scribes the in within 1 hou rithin the fol within 2 hou WN within th	mpact this situa Ir to be in at lead lowing 6 hours Irs to be in at lead	st STARTU and at least ast START	JP within the nex	tt 6 hours, at le OWN within th ext 6 hours, at

D. The battery charger must be restored to operable status within 2 hours or the unit must be in at least HOT SHUTDOWN within the next 12 hours and COLD SHUTDOWN within the following 24 hours.

Answer:	• Reference(s):	Question Reference(s):
D	Tech Spec, Amendment No. 74,	TS-3/4.8.2 001
	pg.3/4 8-14, 8-15	

Explanation: Voltage must be \geq 125 volts per 4.8.2.3.1 requiring battery charger to be declared INOP and 3.8.2.3 Action a. performed.

ションド しもう ション しきしめ ほうかせきさ	System:	K/A:	Importance	Exam:	Objective:	Cognitive Level:
# 106	295008	AA2.02	3.4	SRO	031.00.16	Level.

Unit 1 is at rated power with the following conditions:

• 'A' Narrow Range Level instrument is selected.

• Both TDRFPs are in 3-element control.

Which of the following, without operator intervention, would trip the TDRFPs and require entry into LGP-3-2?

De-pressurization over fifteen minutes of the

A. high pressure leg to the 'A' MSL flow instrument.

B. high pressure leg to the 'A' TDRFP flow instrument.

- C. low pressure leg to the 'A' FW Header flow instrument.
- D. variable leg to the 'A' Narrow Range level instrument.

Answer:Reference(s):Question Reference(s):DRL LP pg.28New

Explanation: Loss of the high pressure tap to the flow instruments would cause those instruments to fail low. Loss of the low pressure tap to the flow instruments would cause those instruments to fail high. Loss of the variable leg to the level instrument would cause it to fail low. With the Narrow Range instrument failing downscale, RWLC would increase feed flow until Level 8 trips from B and C narrow range level instruments tripped the TDRFPs and the Main Turbine. Furthermore, as the instrument indicated less than 12.5", the RR pumps would downshift further increasing the steamflow-feedflow mismatch. LGP-3-2 entry would be required due to the resultant reactor scram on the main turbine trip.

With the TDRFP flow signal failing low, RWLC would increase the signal to the 'A' TDRFP until the feedpump was at its high speed limit. The 'B' TDRFP would back down to maintain level.

With the MSL flow signal failing low, RWLC would decrease feedflow causing level to initially drop but then recover as the Dynamic Compensator adjusted to the level error.

With the FW Header flow signal failing high, the RR interlock would occur at lower flow than it should.

į.					, 1997 - States Anny Ing. 1997 - States Anny Ing.		
	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
	# 107	GENERIC	2.4.11	3.6	SRO	24.048	Level:
							1

Unit two is at 50% power

- A high-high level in the 23A heater has occurred
- The NSO reports that feedwater temperature has decreased by ten degrees.
- The Assist NSO reports:
 - the associated Extraction Steam Inlet have failed to close.
 - the associated Extraction Non-Return valves have failed to close.
- The NSO scrams the reactor and trips the Main Turbine.

The NSO's actions were ...

- A. CORRECT to prevent possible backflow of water into the main turbine causing damage.
- B. CORRECT to prevent possible fuel damage due to the decreasing feedwater temperature.
- C. INCORRECT without first checking the minimum feedwater temperature for the current power.
- D. INCORRECT without first attempting a manual isolation of the valves.

Answer:

A

Question Reference(s):

New

LOA-HD-201 Rev 3, pg.10 & 14

Reference(s):

Explanation: A high-high level in the heater should close the ES isolation and non-return check valve. Failure of both to close could result in water induction into the turbine. Actions are taken to prevent turbine damage.

QID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 108	259002	2.1.12	4.0	SRO	027.00.22	Level:

Unit 2 is operating at rated power with the following conditions: Provide T.S. pg.3-86 to3-89

Instrument Maintenance is performing calibration checks of the 'C' Narrow Range Level instrument and reports that the trip setpoint is currently 55.7 inches and cannot be adjusted lower at this time.

Which one of the following describes the applicable requirements?

- A. 'C' Narrow Range instrument is still OPERABLE, no action is required.
- B. Declare the channel INOP immediately and verify sufficient channels remain OPERABLE or tripped to maintain trip capability.
- C. Within two hours, declare the channel INOP and verify sufficient channels remain OPERABLE or tripped to maintain trip capability.
- D. Restore 'C' Narrow Range within seven days or place it in the tripped condition.

Answer:	Reference(s):	Question Reference(s):
Α	T.S. 3.3.8	New
		and the second

Explanation: 55.7 inches is outside the TRIP SETPOINT of <55.5 inches but within the allowable value of <56.0 inches. The instrument is still considered OPERABLE.

a da ser	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitiv Level:
	# 109	GENERIC	2.1.33	4.0	SRO	022.00.22	1
Ur	nit 1 is in	Run with recircu	ulation loor	flow mismatch	n of 3000 g	pm	
w	hich of tl	he following is th I entering a Tech	ne MAXIM	UM percentage	of core flo	w that is allowed	l to exist
A.	64%				-		
, B .	69%	· · ·					
C.	74%						
D.	. 79%	•				an a	
A	Answer:		Reference(s):	· · · · · · ·	Question Refer	rence(s):
	В	Tech Sp	pec 3.4.1.3,	pg.3/4 4-3		New	•
		LOA-F	RR-101, Re	v5. pg. 15			

:

100

Q ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 110	GENERIC	2.1.32	3.8	SRO	02.00.20	Level:
					and the second	2

LOP-MP-05, Isolating the Main Transformers, the Unit 1(2) Generator and the Unit Auxiliary Transformer, provides a precaution to notify the Load Dispatcher prior to placing the sudden pressure cutout switch to the OFF position or restoring the switch to the ON position.

Which of the following describes the reason for this precaution?

The Load Dispatcher ...

- A. will receive an alarm at the Load Dispatcher control center as operation of the sudden pressure cutout switch will bypass an important main transformer protective function.
- B. must coordinate with the Unit Supervisor to inhibit the trip function while the switch is moved to the ON position when restoring the sudden pressure relay to service.
- C. will take action to reduce the loading of the main transformer so a sudden pressure condition is less likely to occur while the function is bypassed.
- D. must give permission since an important transformer function which could affect the availability of the unit is being removed from or restored to service.

Answer:	Reference(s):	Question Reference(s):
D	Lesson Plan for System 02, Sections	002.00.20 001 (modified)
	VI.A and VIII.	

Explanation:

A. is incorrect since the action will not result in an alarm at the Load Dispatch control center.

B. is incorrect since the Load Dispatcher cannot inhibit the sudden pressure relay trip.

C. is incorrect because transformer loading is not related to the sudden pressure relay function.

D. is correct since the availability of the unit could be affected by operation with the sudden pressure trip bypassed or while returning the function to service.

Thursday, June 08, 2000 @ 11:04 AM

OLASAL~1.BNK

Page: 1

(\. Point) LOP-MP-05, Isolating the Main Transformers, the Unit 1(2) Generator and the Unit Auxiliary Transformer, provides a precaution to notify the Load Dispatcher prior to placing the sudden pressure cutout switch to the OFF position or restoring the switch to the ON position. Which of the following best describes the reason for this precaution?

- A. Operation of the sudden pressure cutout switch will bypass an important Main Transformer protective function and produces an alarm at the Load Dispatch control center.
- B. When restoring the sudden pressure relay function to service, coordination with the Load Dispatcher is required to inhibit the trip function while the switch is moved to the ON position.
- C. The Load Dispatcher will take action to reduce the loading of the Main Power Transformer so that a sudden pressure condition is less likely to occur while the function is bypassed.
- ✓D. Permission of the Load Dispatcher is required since an important transformer protective function which affects the availability of the unit is being removed from or restored to service.

A. is incorrect since the action will not result in an alarm at the Load Dispatch control center.

B. is incorrect since the Load Dispatcher cannot inhibit the sudden pressure relay trip.

C. is incorrect because transformer loading is not related to the sudden pressure relay function.

D. is correct since the availability of the unit could be affected by operation with the sudden pressure trip bypassed or while returning the function to service.

Lesson Plan for System 02, Sections VI.A and VIII.

ANSWERS:	Version Answers: 0 1 2 3 4 5 6 7 8 9	Scramble Choice
Single Points1	DABCDABCDA	Scramble Range: A

D

ي. منه الدينة (مواقعه في موجود المراجع الم	an a	والمتحافظ والمحارين	n in the statistic granditure in the statistic		an a	
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 111	295024	2.4.1	4.6	SRO	400.00.01	Level:
<i><i>T</i> I I I I I I I I I I</i>			and the second second			2

Unit 1 is shutdown with the following conditions:

- Drywell pressure is 1.8 psig and increasing due to a small coolant leak.
- Drywell temperature is 175°F and increasing slowly.

Which of the following lists the MINIMUM set of actions to be completed?

- A. Enter LGA-001, "Reactor Pressure Vessel Control" and reduce drywell pressure utilizing LGA-VQ-01.
- B. Enter LGA-003, "Primary Containment Control" and reduce drywell temperature utilizing LGA-VP-01.
- C. Enter LGA-001, "Reactor Pressure Vessel Control" and LGA-003, "Primary Containment Control" and reduce drywell pressure utilizing LGA-VQ-01.
- D. Enter LGA-001, "Reactor Pressure Vessel Control" and LGA-003, "Primary Containment Control" and reduce drywell temperature utilizing LGA-VP-01.

Answer:	Reference(s):	Question Reference(s):
D	LGA-001, Rev 0	New
	LGA-003, Rev 0	

Explanation: LGA-001 and LGA-003 entry conditions are met by high drywell pressure of 1.69 psig. LGA-VQ-01 can not be used to vent the drywell if drywell pressure is >1.69 psig as it does not allow for bypassing of the isolation signals. LGA-VP-01 can be utilized since drywell temperature is <212°F

Q ID System: K/A: Importance Exam: Objective: Cognit								
	itive	Cognitive	Objective:	Exam:	Importance	K/A:	_	

Unit 1 was at rated power when an earthquake occurred resulting in the following conditions:

- Suppression Pool Level has decreased to 698' 4" and is stable
- The Reactor Operator reported that initially, six SRVs were open simultaneously.
- 'A' RHR is in drywell spray mode.

Which of the following lists (1) the procedure to correct the Suppression Pool Level condition AND (2) the best indication of the average Suppression Pool temperature?

A. (1) LGA-RH-101 (2) Average suppression pool temperature off of 1TR-CM037A (Div 1).

B. (1) LOP-RH-16 (2) Bulk Average Temperature from the respective NUMAC, 1UY-CM037.

C. (1) LGA-RH-101 (2) RHR DISCH HX A from recorder 1E12-R601.

D. (1) LOP-RH-16 (2) RHR INLET TO HX A from recorder 1E12-R601.

Answer
D

Reference(s):

.

New

Question Reference(s):

LOP-CM-03, Rev 11, pg.3 & 8 LGA-003, Rev 0

Explanation: With Suppression Pool level below –1 foot (<698'11"), only Step E.2 methods are to be used eliminating 1TR-CM037A and 1UY-CM-37. With 'A' RHR in drywell spray mode, there should be good flow through the heat exchanger making RHR INLET TO HX A the best indication of the average Suppression Pool water temperature. LGA-003 directs use of LOP-RH-16 to control suppression pool level. LGA-RH-101 used to place the RHR Heat Exchangers in service to support LPCI, Drywell Spray, Suppression Chamber Spray, and Suppression Pool Cooling.

	Q_ID # 113	System: 295034	K/A: 2.4.1	Importance 4.6	Exam: SRO	Objective: 400.00.01	Cognitive Level: 3
	Unit 2 is shu	utdown with the	e following c	conditions:	(wit	PROV h entry condition	/IDE LGA-00
	• A Grou	p I isolation occ	curred due to	personnel erro	or.		
	mode.	pressure is bei	ng controlled	1 from 900-100	0 psig by l	RCIC in the press	ure control
	RB Nor	th HCU radiati	on level has	increased to 20) mr/hr.	ا با با ماند. معيد إليان فالجاني الحجاب	en e
	• RCIC p	ipe route tempe	erature has ir	creased to 175	°F.		• · ·
	Which of th	e following des	scribes the re	equired actions	?		- -
	A. Enter L	GA-002 immed	liately BUT	leave RCIC ru	nning.		
	B. Enter L	GA-002 immed	liately AND	isolate RCIC s	team lines	i di de la sec • • • • • • • • • • • • • • • •	
	C. Delay I RCIC c	.GA-002 entry ould be left run	until pipe ro ning.	ute temperature	e increased	by 5°F AND TH	EN
		LGA-002 entry solation would		ute temperature	e increased	by 5°F AND TH	EN
	Answer:		Reference(s):		Question Refer	rence(s):
	D	÷]	LGA-002 R	ev 0		New	
	Explanatio	n: LGA-002 er	ntry is not re	quired for the U	Jnit 2 RB 1 n 27 of LG	North HCU until A-002 requires is	30 mr/hr. Wit

නයුර

. Antonio antonio a stanta de la construcción de la construcción de la construcción de la construcción de la const

e la la construire de la la casa a

÷ # 114	201001	2.1.11	3.8	SRO	774.010	Level:
O ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive

With the plant at rated power, Control Rod Accumulator Trouble alarms are received for two fully-withdrawn Control Rods within one minute.

Investigation revealed that the alarms are both due to low accumulator pressures.

The operators must ...

- A. declare BOTH control rods inoperable AND immediately verify one CRD pump is operating OR place the mode switch in SHUTDOWN due to the indication of a systemic problem with the drive mechanisms.
- B. declare BOTH control rods inoperable AND immediately verify one CRD pump is operating OR place the mode switch in SHUTDOWN to insure sufficient negative reactivity insertion on a scram.
- C. insert and electrically disarm one control rod within one hour OR be in at least HOT SHUTDOWN within 12 hours due to the indication of a systemic problem with the drive mechanisms.
- D. insert and electrically disarm one control rod within one hour OR be in at least HOT SHUTDOWN within 12 hours to insure sufficient negative reactivity insertion on a scram.

Answer:	Reference(s):	Question Reference(s):
B	Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pg.B 3/4 1-3.	025.00.24 001 (Modified)

Explanation: Answer B is correct. 'A' is incorrect because the shutdown margin license requirement is not met by placing the mode switch in shutdown. 'C' and 'D' are incorrect because Tech Specs do NOT allow one hour to insert the control rod.

025.00.24 001 (). Point) With the plant at full power, Control Rod Accumulator Trouble alarms are received for fully withdrawn Control Rods annuniciate within one minute of each other. Investigations reveale that the annunciators are due to low accumulator pressures. Which ONE of the following is the required action AND the bases per Technical Specifications for that action? A. Immediately place the mode switch in shutdown to prevent a possible shutdown margin T.S. violation. >B. Declare the associated CR inoperable AND Immediately verify one CRD pump is operating OR place the mode switch in Shutdown to prevent less reactivity insertion on a scram than h been anlayzed. C. Immediatly insert BOTH CRs or place the mode switch in shutdown to prevent less reactivit insertion on a scram than has been analyzed. D. Immediatly disarm the directional control valves and be in at least Hot Shutdown within 12 hours to prevent a possible LSSS. Answer B is correct , all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. AnswerRs: Version Answers: 0 1 2 3 4 5 6 7 8 9 Scramble Choices Single a c b AB c b AB c Scramble Range: A-	day, June 09	, 2000 @ 10:54 AM	0LASAL~1.BNK	Page: 1
 fully withdrawn Control Rods annuniciate within one minute of each other. Investigations revealed that the annunciators are due to low accumulator pressures. Which ONE of the following is the required action AND the bases per Technical Specifications for that action? A. Immediately place the mode switch in shutdown to prevent a possible shutdown margin T.S. violation. B. Declare the associated CR inoperable AND Immediately verify one CRD pump is operating OR place the mode switch in Shutdown to prevent less reactivity insertion on a scram than h been anlayzed. C. Immediatly insert BOTH CRs or place the mode switch in shutdown to prevent less reactivity insertion on a scram than has been analyzed. D. Immediatly disarm the directional control valves and be in at least Hot Shutdown within 12 hours to prevent a possible LSSS. Answer B is correct, all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. ANSWERS: Use Single 				
 violation. B. Declare the associated CR inoperable AND Immediately verify one CRD pump is operating OR place the mode switch in Shutdown to prevent less reactivity insertion on a scram than h been anlayzed. C. Immediatly insert BOTH CRs or place the mode switch in shutdown to prevent less reactivit insertion on a scram than has been analyzed. D. Immediatly disarm the directional control valves and be in at least Hot Shutdown within 12 hours to prevent a possible LSSS. Answer B is correct, all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. Version Answers: 0 1 2 3 4 5 6 7 8 9 Single 	fully that Whi	y withdrawn Control Rods the annunciators are due to ich ONE of the following i	annuniciate within one minute of each o low accumulator pressures.	other. Investigations revealed
 OR place the mode switch in Shutdown to prevent less reactivity insertion on a scram than h been anlayzed. C. Immediatly insert BOTH CRs or place the mode switch in shutdown to prevent less reactivit insertion on a scram than has been analyzed. D. Immediatly disarm the directional control valves and be in at least Hot Shutdown within 12 hours to prevent a possible LSSS. Answer B is correct, all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. Version Answers: 0 1 2 3 4 5 6 7 8 9 Single 		violation.		
 C. Immediatly insert BOTH CRs or place the mode switch in shutdown to prevent less reactivit insertion on a scram than has been analyzed. D. Immediatly disarm the directional control valves and be in at least Hot Shutdown within 12 hours to prevent a possible LSSS. Answer B is correct, all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. ANSWERS: Urrestion Answers: 0 1 2 3 4 5 6 7 8 9 Scramble Choices 	√R	Declare the associated Cl	R inoperable AND Immediately verify	one CRD pump is operating
 D. Immediatly disarm the directional control valves and be in at least Hot Shutdown within 12 hours to prevent a possible LSSS. Answer B is correct, all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. ANSWERS: Urreston Answers: 0 1 2 3 4 5 6 7 8 9 Single 			h in Shutdown to prevent less reactivity	insertion on a scram than h
Answer B is correct, all other answers are incorrect since they are not required immediatly. New Question Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. ANSWERS: 0 1 2 3 4 5 6 7 8 9 Scramble Choices Single	•	been anlayzed. Immediatly insert BOTH	h in Shutdown to prevent less reactivity CRs or place the mode switch in shutd	y insertion on a scram than h
Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. Version Answers: O 1 2 3 4 5 6 7 8 9 Single Single	C. D.	been anlayzed. Immediatly insert BOTH insertion on a scram than Immediatly disarm the di hours to prevent a possib	h in Shutdown to prevent less reactivity CRs or place the mode switch in shutd has been analyzed. rectional control valves and be in at lea le LSSS.	y insertion on a scram than h own to prevent less reactivit ast Hot Shutdown within 12
Reference: Tech Specs 3.1.3.5., ACTION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3. Version Answers: O 1 2 3 4 5 6 7 8 9 Single Single	C. D.	been anlayzed. Immediatly insert BOTH insertion on a scram than Immediatly disarm the di hours to prevent a possib	h in Shutdown to prevent less reactivity CRs or place the mode switch in shutd has been analyzed. rectional control valves and be in at lea le LSSS.	y insertion on a scram than h own to prevent less reactivit ast Hot Shutdown within 12
Single Choices	C. D. Ansv	been anlayzed. Immediatly insert BOTH insertion on a scram than Immediatly disarm the di hours to prevent a possib wer B is correct, all other answ	h in Shutdown to prevent less reactivity CRs or place the mode switch in shutd has been analyzed. rectional control valves and be in at lea le LSSS.	y insertion on a scram than h own to prevent less reactivit ast Hot Shutdown within 12
Single Comple Rease: A	C. D. Ansv	been anlayzed. Immediatly insert BOTH insertion on a scram than Immediatly disarm the di hours to prevent a possib wer B is correct, all other answe	h in Shutdown to prevent less reactivity CRs or place the mode switch in shutd has been analyzed. rectional control valves and be in at lea le LSSS. ers are incorrect since they are not required imu TION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3	y insertion on a scram than h own to prevent less reactivit ist Hot Shutdown within 12 mediatly.
	C. D. Answ New Refe	been anlayzed. Immediatly insert BOTH insertion on a scram than Immediatly disarm the di hours to prevent a possib wer B is correct, all other answer Question erence: Tech Specs 3.1.3.5., AC	h in Shutdown to prevent less reactivity CRs or place the mode switch in shutd has been analyzed. rectional control valves and be in at lea le LSSS. ers are incorrect since they are not required imu TION a.2.(a. AND Bases 3/4.1.3, pp B 3/4 1-3 Version Answers:	y insertion on a scram than h own to prevent less reactivit ast Hot Shutdown within 12 mediatly.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 115	GENERIC	2.4.8	3.7	SRO	400.00.05	Level:
// **		and the second		the second	and a second second	3

Unit 1 has just scrammed due to a loss of the SAT.

LGP-3-2, "Reactor Scram" is being performed.

LOA-AP-101, "Unit 1, AC Power System Abnormal" is being performed.

Two minutes later suppression pool temperature is 106°F and increasing.

Which of the following actions are required?

A. Continue LOA-AP-101 and LGP-3-2 and monitor suppression pool temperature.

B. Exit LOA-AP-101 and enter LGA-003, "Primary Containment Control."

C. Exit LGP-3-2 and enter LGA-003, "Primary Containment Control."

D. Concurrently enter LGA-003, "Primary Containment Control."

Answer:	Reference(s):	Question Reference(s):
D	LGA-003, Rev 0	New

Explanation:LOA-AP-101 and LGP-3-2 are not exited but performed concurrently. 106°F is above the 105°F entry condition for LGA-003. The distracters represent common misconceptions for license candidates since other plants have different philosophies.

Q ID	System:	K/A:	Importance	Exam:	Objective:	
# 116	288000	2.1.12	4.0	SRO	118.00.22	Level:

Unit 1 is at rated power. PROVIDE Tech Spec pages 3/4 6-38 and 3/4 6-39

Reactor Building Ventilation supply damper 1VR04YA is found to have an isolation time of 90 seconds.

Which of the following describes the response to this situation?

A. No Action is required since there is an at least one operable damper in the effected penetration.

B. Maintain 1VR04YB operable and put it on an increased surveillance frequency.

C. Declare Unit + VR INOP and take actions to be in Hot Shutdown within 12 hours.

D. Restore the inoperable damper to operable status within 8 hours.

Answer:	Reference(s):	Question Reference(s):
	•••	
		000 00 22 002 (madified)

D

Tech Spec 3/4.6.5.2 pg. 3/4 6-38

090.00.22 002 (modified)

Explanation: Tech. Spec 3.6.5.2 Action a. allows 8 hours to restore the damper to operable status. Actions to be in hot shutdown would only be taken if one of the conditions in Action a. could not be met. There is no provision for only one operable damper in this penetration without taking some action. Maintaining 1VR04YB is a requirement, however there is no provision for continued operation by performing increased surveillance activities.

1VR-04YA	uring a surveillance in	Condition 1, Reactor Building Ve lation time of 2 minutes. What is	ntilation supply damper the appropriate application
A. Restore	the inoperable dampe	r to operable status within 8 hours	
		take actions to be in Hot Shutdow	the second se
		ere is an at least one operable dan	
D. Mainta		e and put it on an increased survei on a. allows 8 hours to restore the dampe	
B. Incorrect	Actions to be in hot shut	down would only be taken if one of the	conditions in Action a. could not
C. Incorrect D. Incorrect	met. There is no provision for Maintaining 1VR-04YB performing increased su	r only one operable damper in this penet is a requirement, however ther is no pro rveillance activities.	ration without taking some actio vision for continued operation b
	52		
Tech Spec 3.6			
Tech Spec 3.6		Version Answers:	a Alife and Maria and Alife and Alife
ANSWERS:		Version Answers: 0 1 2 3 4 5 6 7 8 9	Scramble Choices
· -	Points 1		Scramble Choices
ANSWERS:			

العساديون

	Custom.	K/A:	Importance	Exam:	Objective:	Cognitive
Q ID	System:	N/A.	Importance	L/Adm.	J	Level:
# 117	GENERIC	2.2.18	3.6	SRO	660.02	

Unit 2 is shutdown.

While returning the '2A' RHR pump to service, the control power fuse for the breaker can not be located.

The preferred method for determining a replacement fuse is by using the . . .

, A. Placards placed near the fuse.

B. Vendor manuals.

C. EWCS Data Panels.

D. Station fuse list.

Answer: C Reference(s):

CC-AA-206 Rev 0 pg.4

Question Reference(s): Dresden 1997 ILT exam

Explanation: Per the reference, EWCS is the controlling database for fuses that are shown on station drawings and that have EPN numbers assigned. The other answers were chosen as plausible distracters. Answers B and D have been correct in older procedures before the computer screen was available.

Confidential

Last printed 07/21/00 7:37 AM

	_ID 118	System: 295037	K/A: 2.4.1	Importance 4.6	Exam: SRO	Objective: 400.00.01	Cognitive Level:	
							2	
Unit	1 was at	rated power v	when the fol	lowing occurre	d:	an an an an Araba an an an		
•	A station	blackout occu	ırred.					
•	Reactor v	vater level is t	below the na	rrow range.				
•	Five cont	rol rods are fu	Illy withdra	wn.				
	The HPC	S DG is runni	ng					
			•	xpected crew re	esponse?			
		Mode Switch				en e		
	-			e remaining Di	esel Genera	ators.		
		DS and preven						
C.	Initiate D	vivision 3 ECC	CS and atten	pt start of the r	emaining I	Diesel Generators.	• • • • • • • • • • • • • • • • • • •	
D.	Initiate D	vivision 3 ECC	CS and Inhit	oit ADS.				
	swer:		Reference(•	Question Refere	ence(s):	
	B	LGA-001.	Rev 0 & LO	GA-010, Rev 0		New		

LGA-010 are to Inhibit ADS and prevent ECCS injection.

المراجعة من المراجع ال مراجع مسائل المراجع الم مراجع المراجع ا Station in the second second

L Zalana and		a and a second	Sector Sector Sector		an a	Objective:	n in the second seco
	Q_ID	System:	K/A:	Importance	Exam:	Objective:	
· · · · · ·	# 119	GENERIC	2.3.6	3.1	SRO	an a	Level:

What is the HIGHEST level of station management that must review and approve the ODCM prior to purging the containment?

A. Unit Supervisor

B. Health Physics Supervisor

C. Shift Manager

D. Health Physics Manager

Answer:

Question Reference(s): New

A

Explanation: The Unit Supervisor must review and approve the ODCM prior to a radioactive materials release.

Reference(s):

LOP-VQ-04, Rev 12, pg. 4

LYP-1300-1, Rev 11, pg. 7



	Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
-	# 120	GENERIC	2.3.4	3.1	SRO	a tengahan sinagan seri	Level:

Authorization to receive radiological exposures in excess of 10CFR20 limits is the responsibility of the _____.

A. Station Director

B. Recovery Manager

C. Com Ed Medical Director

D. Radiation Protection Director

Answer:

Reference(s): LZP-1260-5, Rev 1, pg.2

Question Reference(s):

CPS 2000 ILT SRO Exam Q# 100

Explanation: The decision to authorize personnel exposure beyond 10CFR20 limits under emergency conditions is the responsibility of the Acting Station Director or Station Directory and may not be delegated.

***	white and we have a state of the	and the first of the set of the set		وميتينية بعراره وأرجع أرجع المتشافية	www.www.www.weither.weither.com	
QID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
# 121	GENERIC	2.3.10	3.3	SRO	30.100	E Level:
						1

LOS-RH-R1-R2, LPCI Injection Line Check Valve Inservice Test can be utilized to perform which of the following?

A. Reduce the radiation exposure of personnel working on the refueling bridge.

B. Reduce the radiation exposure of personnel working in the Drywell.

C. Increase core flow to prevent thermal stratification during Refueling.

D. Increase core cooling to assist Fuel Pool Cooling during periods of increased heat loads.

Question Reference(s): Reference(s): Answer:

B

LOS-RH-R1, Rev 10, pg.3

- CLASSIC CONTRACT OF STATE

New

Explanation: A secondary purpose of this surveillance is to flush the A/B/C LPCI Injection Lines inside the Drywell in order to minimize personnel radiation exposure.

				مرجع بمناسب المراجع		
Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitive
: # 122	GENERIC	2.2.7	3.2	SRO		Level:

Unit 2 is in a refueling outage.

It is a weekend.

A new system engineer has requested that the Unit 2 HPCS pump be started with the full flow test valve throttled to 75% open to determine starting current.

The evolution is not described in current procedures or the Safety Analysis Report.

Which of the following would describes the correct response to the request?

The Shift Manager may ...

A. approve the evolution without restrictions.

B. only approve the test if another SRO with an engineering degree agrees.

C. not approve the test until a written safety evaluation has been performed and approved.

D. not approve the test under any conditions.

Answer:

Reference(s): RS-AA-104, Rev 0, pg.5

Question Reference(s):

New

Explanation: 10CFR50.59 specifies that a written safety evaluation be performed where a licensee plans to conduct tests or experiments not described in the Safety Analysis Report.

Q_ID	System:	K/A:	Importance	Exam:	Objective:	Cognitiv Level:
# 123	295031	EA2.02	4.2	SRO	434.00.01	Level:
						1
Unit 2 is ex	periencing an A	TWS with t	he following co	onditions:	•	
Reactor	water level is	-10 inches an	nd is being rapi	dly lowere	d.	
• The Re	actor operator r	eports that A	PRMs are osci	llating betw	ween two and six	teen percent.
Which of th	e following act	ions should	be taken?		- -	
A. Reduce	the rate of leve	el decrease.	· · ·			
B. Raise ro	eactor water lev	el until oscil	lations stop.			
	in reactor water					
				. معرد معدر مراد ا		ار بیونیز می بدن از ا
D. Continu	e with the leve	l decrease.				
Answer:	· · · · · · · · · · · ·	Reference(s	5):		Question Refer	rence(s):
D	1	LGA-010, R	ev 0		New	
Explanatio	n: Power oscil	lations are ex	spected due to t	he level de	crease but are to	be ignored.
•						
3						
						· · · · ·

z

a daughter have

·	O ID	System:	K/A:	Importance	Exam:	Objective:	-
	# 124	295028	2.4.1	4.6	SRO	400.00.01	Level:
							2

Unit 2 is operating at rated power with the following conditions:

• Primary Containment Vent Fan 2VP02CB is OOS.

Primary Containment Vent Fan 2VP02CA trips.

Which of the following describe the expected crew response to this event.

Enter LGA-003 ...

- A. immediately and start hydrogen and oxygen monitors.
- B. immediately and start containment venting IAW LGA-VQ-02.
- C. if Drywell temperature exceeds135°F on 2TR-CM037A or B. Then start hydrogen and oxygen monitors.
- D. if Drywell temperature exceeds135° F on 2TR-CM037A or B. Then start containment venting IAW LGA-VQ-02.

Answer:	Reference(s):	Question Reference(s):	
Α	LOP-CM-04, Rev 8, pg.1	New	
	LGA-003, Rev 0		

Explanation: If no Primary Containment Vent Fan is running, Drywell average air temperature is assumed to be greater than 135°F and LGA-003 is to be entered. Hydrogen and oxygen monitors are to be started whenever LGA-003 is entered.

LaSalle County Station ILT Class 1999 NRC Written Exam							
Q_ID : #125	System: GENERIC	K/A: 2.2.24	Importance 3.8	Exam: SRO	Objective: 061.00.22	Cognitive Level:	
						3	
	at rated condition		P	rovide Tecl	h Specs 3.5.1 ,3.		
Electrica	al maintenance has ad position while t	requested pe hey perform a	rmission to de required brea	-energize th ker inspecti	e LPCS minimu	m flow valve i	
Which of maintena	f the following de ance to start?	scribes the sh	ortest time clo	ck that wou	ld be entered if	you allowed the	
A. 1 ho	ur						
B. 4 ho	ours						
C. 12 h	ours						
D. 7 da						 A state of the sta	
Answe	r:	Reference(s):			Question Reference(s):		
D							
Explana Containr	ation: By de-energ	Tech Spec 3. gizing the min uld be met. H	imum flow va	lve in the c S would hav	New losed position, P ve to declared inc	rimary operable	
Contain		gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	
Contain	ation: By de-energ ment Integrity wo g a 7 day time cloo	gizing the minuld be met. H	imum flow va lowever, LPC	lve in the c S would hav	losed position, P	rimary operable	

Confidential

a da se a construction de la constr

Last printed 08/04/00 8:13 AM