		Level:	RO	SRO		
	0.00 PH	Tier#		2		
EXAMINATION OUTLINE CR	OSS-REFERENCE:	Group #	202	2		
		K/A#	002-	K3.03		
		Importance Rating		4.6		
Proposed Question:						
See Attached						
D S S						
Proposed Answer: See attach	ea	-				
Explanation (Why the distractors are	incorrect):					
a. Hydrogen generation will not take	e place at this CTMT ter	mnerature.				
		r				
d. This will not block CTMT spray	nozzles.					
Technical Reference(s): DB-OP-0)1200		Reference Attac	hed:		
			(Attach if not			
			previously provi	ded)		
				ŕ		
D 1 C 1 1 11 14	1 1 .	•				
Proposed references to be provided to	applicants during exam	ination:				
Learning Objective (As available):	OPS-SYS-306-02K					
Question Source:	Bank #					
	Modified Bank #		nanges or attach p	parent)		
	New	<u>X</u>				
Question History	Previous NRC Exam					
Question History	Previous Quiz / Test					
Question Cognitive Level:		ntal Knowledge X				
	Comprehension or Ar	naiysis				
10 CFR Part 55 Content:	55.41 X					
10 Of Refut 33 Contone.	55.43					
Comments (Why is it an upper level of	question):	э				

The following plant conditions exist:

- Reactor power is 100%.
- A 3 gpm RCS leak has been determined to be identified leakage.

Which one of the following is the most significant concern to continued plant operation due to boron precipitation?

- a. Hydrogen generation due to corrosion.
- b. CTMT air temperature due to CAC blockage.
- c. CTMT vessel wall thinning due to corrosion.
- d. Blockage of CTMT spray nozzles.

Answer:

	Level:		RO	SRO	
		Tier #			2
EXAMINATION OUTLINE CROSS-REFERENCE:		Group #			2
		K/A#		006-	K3.03
		Importance Ra	ting		4.4
Proposed Question:					
See Attached					
See Attached					
Proposed Answer: See attach	ed				
Explanation (Why the distractors are	incorrect):				
USAR analysis for LOCA assumes fa	ailure of 1 of 2 ECCS lo	ons and still stay	s within de	sion criteria	
0.51.111 41.141, 5.15 1.01 2.10 0.11 41.541.120 1.0		ops and som stay	5 11 XXXXXX 440.	31511 0111011111	
Technical Reference(s): USAR, C	Chapter 15			eference Attacl	ned:
			(4	Attach if not	
			p	reviously provi	ded)
Draw and references to be provided to	annliaanta durina ayan	inotion:			
Proposed references to be provided to	applicants during exam	imation:			
Learning Objective (As available): (OPS-SYS-108-32K				
Question Source:	Bank #				
(445)	Modified Bank #		(Note char	nges or attach p	arent)
	New	<u>X</u>	`		,
Question History	Previous NRC Exam				
	Previous Quiz / Test				
Question Cognitive Level:	Memory or Fundamen	ntal Knowledge	X		
	Comprehension or Ar				
10 CFR Part 55 Content:	55.41				
	55.43 <u>X</u>	9			
Comments (Why is it an upper level of	question):				
SRO question due to CTMT design ba	ases.				:

The following plant conditions exist:

- A large break LOCA has occurred.
- LPI pump 1 has been diagnosed with a sheared shaft.

Which one of the following describes the effect on CTMT?

- a. CTMT pressure will exceed the design bases pressure due to the loss of cooling flow.
- b. CTMT pressure will stay within its design bases pressure, even with the loss of one LPI pump.
- c. CTMT temperature will exceed its design bases temperature due to loss of the one LPI pump.
- d. CTMT temperature will stay within the design bases temperature if CTMT Purge system is started.

Answer:

		Level:	RO	SRO
		Tier #		2
EXAMINATION OUTLINE CR	OSS-REFERENCE:	Group #		2
		K/A#	01	0-K6.03
		Importance Rating		3.6
Proposed Question:				
See Attached				
		*		
Proposed Answer: See attach	led			
Explanation (Why the distractors are	incorrect):			
a. PORV not leaking.				
b. PORV not leaking.				
c. Stopping RCP 1-1 has a minima	l effect on spray flow.			
Technical Reference(s): DB-OP-0	02513.03		Reference Atta	iched:
			(Attach if not	
			previously pro	vided)
D	1' 1 '	• ,•		
Proposed references to be provided to	applicants during exam	ination:		
Learning Objective (As available):	OPS-GOP-113-05K			
Question Source:	Bank #			
OLC-3576	Modified Bank #	X (Note of	changes or attach	parent)
	New		S .	1
Question History	Previous NRC Exam			
	Previous Quiz / Test		·	
Question Cognitive Level:	Memory or Fundamer	ıtal Knowledge		
(Comprehension or An			
	1			
10 CFR Part 55 Content:	55.41 <u>X</u>			
	55.43			
		,		
Comments (Why is it an upper level of	question):			

ORIGINIAL

Question:

The following plant conditions exist:

-	Reactor power	68% steady
---	---------------	------------

- RCS pressure 2100 psig decreasing slowly

- All pzr. heaters On

- 480 MCC E11A Deenergized for maintenance (supply to

RC-10, Spray Block Valve

- Pzr Spray Valve RC 2 Indicates open, in manual and held closed

for 45 seconds

- Pzr PORV outlet temp. 158°F and steady

- RCS water inventory 0.15 gpm leakage

- RC PRZR PRESS RLF out temp. 158°F and steady

Which one of the following will most quickly decrease the pressure loss without an RPS actuation?

a. Close RC-10 (Spray Line Isolation) at Control Room Switch HIS-RC-10.

b. Close RC-10 (Spray Line Isolation) locally.

c. Stop RCP 2-2 after reducing reactor power to less than 50%.

d. Stop RCP 2-2 immediately.

Answer:

The following plant conditions exist:

- Reactor power is at 68% steady
- RCS pressure is 2100 psig and decreasing slowly
- All Pressurizer heaters are on
- 480 MCC E11A has been deenergized for maintenance (supply to RC 10, Spray Block Valve).
- RC 2, Pzr Spray Valve, has no closed indication even though the control switch was placed in the closed position.
- Pzr PORV outlet temperature indicates 158°F and steady
- The latest RCS water inventory indicates 0.15 gpm total RCS leakage
- RC PRZR PRESS RLF out temperature indicates 158°F and steady

Which one of the following will have the greatest effect on slowing the RCS pressure decrease?

- a. Close RC 11, PORV Block
- b. Close RC 2A, PORV
- c. Stop RCP 1-2
- d. Stop RCP 2-2

Answer:

		Level:	RO	SRO
ENAMELATION OF THE COOR	DDDDDDD000	Tier#		2
EXAMINATION OUTLINE CROSS	-REFERENCE:	Group #		2
		K/A#		011-A1.01
		Importance Rating		3.6
Proposed Question:				
See Attached				
Proposed Answer: See attached		·		
Explanation (Why the distractors are inco	rrect):			!
a. Valve does not go full open.				
b. Only goes to 40% at 2205 psig.				
c. Only goes to 40%.				
Technical Reference(s): Dwg. OS-001	A Sh 4		Reference A	ttached:
Teelmieur Reference(s).	71, OII. 4		(Attach if no	
			previously p	
			P	
Proposed references to be provided to app	licants during exan	nination:		
Learning Objective (As available): OPS-	-SYS-104-05K			
Question Source: Ba	ank #	X		
	odified Bank #		changes or atta	ach parent)
No	ew		_	-
Overting History	and and NDC E			
	evious NRC Exam evious Quiz / Test			
	evious Quiz/ Test			
	emory or Fundame			
Co	omprehension or A	nalysis <u>X</u>		
40.000.00				
	5.41 <u>X</u>			
33	5.43	9		
Comments (Why is it an upper level quest	ion):			
Examinee must be able to determine valve	e response due to pi	ressure changes.		
		\$		
				1

The following plant conditions exist:

- RC System pressure is 2190 psig.
- The operator has taken RC 2, Pressurizer Spray Valve, control to open and then to auto with RC 2 at 25% open.

Which one of the following describes the expected response of the pressurizer spray valve under these conditions?

- a. RC 2 will go fully open.
- b. RC 2 will open to the 40% open position.
- c. RC 2 will remain at 25% open until pressure increases to 2205 psig, at which time it will open fully.
- d. RC 2 will remain at 25% open until pressure increases to 2205 psig, at which time it will open to 40% open.

Answer:

		Level:	RO	SRO
		Tier #		2
EXAMINATION OUTLINE C	ROSS-REFERENCE:	Group #		2
		K/A#		012-A4.04
		Importance Ratio	ng	3.3
Proposed Question:				
See Attached				
D 11				
Proposed Answer: See atta	ched			
Explanation (Why the distractors a	re incorrect):			
		_		
All except high temperature are by	passed in shutdown bypas	S.		
10-				
Technical Reference(s): DB-OI	P-06403.01, C-5, Section 3	3.3	Reference A	Attached:
			(Attach if n	
			previously	provided)
				-
D 1 C 1 1 11	1.4	. ,.		
Proposed references to be provided	to applicants during exam	ination:		
				·
Learning Objective (As available):	OPS-SYS-504-10K			
Question Source:	Bank #			
OLC-6879	Modified Bank #	<u>X</u> (Note changes or att	ach parent)
	New			•
Oti Hi-t	Duraniana NID C France			
Question History	Previous NRC Exam Previous Quiz / Test			
Question Cognitive Level:	Memory or Fundamen		<u>X</u>	
	Comprehension or Ar	nalysis		
10 CFR Part 55 Content:	55.41 <u>X</u>			
	55.43	,		
Comments (Why is it an upper leve	el question):			
Comments (why is it air upper leve	or question).			

ORIGINAL

Question:

Given the following conditions:

- The plant is shutdown with cooldown in progress.
- The Reactor Protection System (RPS) has just been placed in "Shutdown Bypass".

Which of the following RPS trips is available for protection?

- a. High RCS temperature
- b. Low RCS pressure
- c. Power to pumps
- d. Flux/ Δ flux/flow

Answer:

a.

After placing the RPS in shutdown bypass, which of the following RPS trips is available for protection?

- a. High RCS temperature
- b. Low RCS pressure
- c. Power to pumps
- d. RCS variable pressure/temperature

Answer:

a.

EXAMINATION OUTLINE CROSS-REFERENCE:		Level:	RO	SRO	
		Tier #		2	
		Group #		2	
		K/A#		016-GEN-2.1.31	
		Importance Ra	ting	3.9	
Proposed Question: See Attached					
See Attached					
Proposed Answer: See at	tached				
Explanation (Why the distractors	are incorrect):				
ICS will always select highest flo	ow loop for Tave control wh	en the lower one	decreases by 10	mpph.	
	OP-02515 OP-06407		(Attac	ence Attached: h if not usly provided)	_
Proposed references to be provided to applicants during examination:					
Learning Objective (As available): OPS-SYS-502-02K				
Question Source: OLC-6622	Bank # Modified Bank # New	_X	(Note changes	or attach parent)	
Question History	Previous NRC Exam Previous Quiz / Test				
Question Cognitive Level:	Memory or Fundamer Comprehension or Ar		X		:
10 CFR Part 55 Content:	55.41 <u>X</u> 55.43	ı			
Comments (Why is it an upper le	vel question):				
Examinee must determine how ICS Tave control auto selects the correct instrument.					

ICS will automatically select the Tave signal from the RCS loop with the highest flow rate. This occurs when the RCS loop with the _____.

- a. Highest flowrate increases to greater than 72 mpph, and the operator CANNOT manually override the transfer
- b. Highest flowrate increases to greater than 72 mpph, and the operator CAN manually override the transfer
- c. Lowest flowrate decreases to less than 63 mpph, and the operator CANNOT manually override the transfer
- d. Lowest flowrate decreases to less than 63 mpph, and the operator CAN manually override the transfer

Answer:

c.

		Tier #			2
EXAMINATION OUTLINE CROSS-R	EFERENCE:	Group #			2
		K/A#		028-	A4.03
		Importance Ra	ting	***	3.3
Proposed Question: See Attached					
See Attached		-			
Proposed Answer: See attached					
Explanation (Why the distractors are incorre	ct):				
Emergency personnel hatch area is not a san	iple area.				
Technical Reference(s): DB-OP-06417.0	1, C-3, Section 4	.1	(,	deference Attach Attach if not reviously provid	
Proposed references to be provided to applic	ants during exam	ination:			
Learning Objective (As available): OPS-SY	/S-108-09K				
Question Source: Bank Mod New	# ified Bank #	X_	(Note cha	nges or attach p	arent)
	ous NRC Exam ous Quiz / Test				
	ory or Fundamen	ntal Knowledge _	X		
	prehension or An				
	prehension or An				

Level:

SRO

RO

The CTMT hydrogen analyzers can be lined up to four different sample points within CTMT.

Which one of the following is NOT a sample point?

- a. Top of Steam Generator 1 secondary shield wall
- b. CTMT personnel hatch area
- c. Top of CTMT dome
- d. Emergency personnel hatch area

Answer:

		Level:	RO	SRO		
		Tier #		2		
EXAMINATION OUTLINE CROSS-REFERENCE:		Group #		2		
		K/A#		029-A2.03		
		Importance Ratio	ng	3.1		
Proposed Question:						
See Attached						
Proposed Answer: See attached		-				
Explanation (Why the distractors are inco	orrect):					
DB-OP-06503 directs the starting of the EVS fans and alignment to the negative pressure area.						
EVS will not automatically start on CTMT Purge high radiation.						
Technical Reference(s): DB-OP-0650	3.01, C-2, Section 5	5.1	Reference A	Attached:		
,	- · · · · , - · · , · · · · · · · ·		(Attach if no			
			previously p	provided)		
			1 71	,		
Proposed references to be provided to app	olicants during exam	ination:				
Learning Objective (As available): OPS	-SYS-109-07K					
	ank #					
	ank # lodified Bank #	<u> </u>	Note changes or atta	ach narent)		
	ew	(110to changes of att	ten parent)		
•	revious NRC Exam					
Pı	revious Quiz / Test					
Question Cognitive Level: M	lemory or Fundamer	ntal Knowledge				
	omprehension or An		X			
-	· ·					
10 CFR Part 55 Content: 55	5.41 <u>X</u>					
55	5.43					
		,				
Comments (Why is it an upper level ques	tion):					
The examinee must determine that the en	nergency section of I	DB-OP-06503 app	lies to this event.			

ORIGINAL

Question:

The following plant conditions exist:

- Plant is in Mode 5.
- Containment Purge System is in operation on CTMT.

RE 5052C, CTMT Purge System RCM, has alarmed high.

Which one of the following actions must be taken?

- a. Stop the CTMT purge exhaust and supply fans.
- b. Close the CTMT isolation dampers for the CTMT Purge System.
- c. Start one of the Emergency Ventilation System fans.
- d. Open the CTMT Purge System to EVS damper.

Answer:

c.

The following plant conditions exist:

- Plant is in Mode 6.
- Containment Purge System is in operation on CTMT.
- Fuel handling operations in progress in the refueling canal area.

RE 5052C, CTMT Purge System RCM, has alarmed high.

Which one of the following actions must be taken?

- a. Manually align the Emergency Ventilation System to the fuel handling area.
- b. Verify CTMT Purge System automatically realigns to the negative pressure area.
- c. Manually start both of the Emergency Ventilation System fans.
- d. Verify both Emergency Ventilation System fans automatically start.

Answer:

c.

		Level:	RO	SRO	
		Tier#		2	
EXAMINATION OUTLINE CROSS-REFERENCE:		Group #		2	
		K/A#		033-A3.02	
		Importance Ra	ting	3.1	
Proposed Question: See Attached					
		*			
Proposed Answer: See attach	ned				
Explanation (Why the distractors are	•				
b. Evacuation of the RRA is an uni	necessary action.				
c. Fuel Handling Director is not res	sponsible for evacuating	CTMT.			
Technical Reference(s): DB-OP-0	02530.03, Section 4.1		Reference A (Attach if r previously	not	
Proposed references to be provided to applicants during examination: Learning Objective (As available): OPS-GOP-130-03K					
Question Source:	Bank # Modified Bank # New	X	(Note changes or att	tach parent)	
Question History	Previous NRC Exam Previous Quiz / Test				
Question Cognitive Level:	Memory or Fundamer Comprehension or Ar		X		
10 CFR Part 55 Content:	55.41 55.43X	,			
Comments (Why is it an upper level of	question):				
The examinee will have to determine the appropriate procedure to mitigate the event.					
This question is SRO level due to per	forming the SRO action	s of the appropri	ate procedure.		

Refueling operations are in progress.

The following plant conditions exist:

- Fuel handling personnel report the main fuel handling bridge just ran into a reactor vessel guide stud with a spent fuel assembly in the mast.
- Fuel Handling Director reports bubbles are rising around the mast of the main fuel handling bridge.
- Fuel handling personnel on the main fuel handling bridge report their personal electronic dosimeters are alarming and have evacuated the bridge.

Which one of the following is the next operator action to be taken?

- a. Sound the Containment Evacuation Alarm and make an announcement to evacuate containment.
- b. Sound the Containment Evacuation Alarm and make an announcement to evacuate the Radiologically Restricted Area.
- c. Inform the Fuel Handling Director to evacuate containment and manually trip the CTMT Purge System exhaust radiation monitors.
- d. Inform the Fuel Handling Director to evacuate the refueling canal area and start both trains of Control Room Emergency Ventilation System.

Δ	n	C1	X 7	Δ1	ŗ.

a.

		Level:	R	RO	SRO
		Tier#			2
EXAMINATION OUTLINE CRO	SS-REFERENCE:	Group #			2
		K/A#		035-2	A3.01
		Importance Ratio	ng		3.9
Proposed Question:					
See Attached					
		-	• •	<u> </u>	
Proposed Answer: See attached	i				
Explanation (Why the distractors are in	correct):				
a. No transfer will occur.	,				
c. No transfer will occur.					
d. No transfer will occur.					
					**
Technical Reference(s): DB-OP-06	407.02, Attachment 1		Dof	ference Attach	ad.
reclinear Reference(s). DB-O1-00	407.02, Attachment 1			tach if not	icu
			`	viously provid	iled)
			Pro	riously provide	
Proposed references to be provided to a	pplicants during exam	nination:			
Learning Objective (As available): Ol	PS-SYS-507-03K				
	Bank #	<u>X</u>			
	Modified Bank #	(Note chang	ges or attach page	arent)
	New				
Question History	Previous NRC Exam				
•	Previous Quiz / Test				
	Memory or Fundamen Comprehension or Ar		X		
	Comprehension of Ai	iaiysis	<u> </u>		
10 CFR Part 55 Content:	55.41 <u>X</u>				
	55.43				
		,			
Comments (Why is it an upper level qu	estion):				
The examinee will have to diagnose that	at the startup level for	the present power	level is with	nin 3% of the	mid-scale
valve.					

The selected OTSG 1 startup level instrument rapidly fails to mid-scale with the plant at 95% power.

Which one of the following describes how the effect on the plant would be different with SASS in automatic versus the effect with SASS unable to transfer?

- a. In automatic, SASS would cause a transfer to the non-selected instrument.
 - The same button would stay depressed; however, both would be illuminated.
- b. There would be no difference because even in automatic, OTSG 1 startup level would not transfer due to the difference between actual and mid-scale being less than 3% at this power level.
- c. In automatic, SASS would cause a transfer to the non-selected instrument.
 - The previously non-selected instrument's pushbutton would become depressed and both buttons would be illuminated.
- d. There would be no difference since in either case an automatic transfer to the non-selected instrument would occur.

Answer:

	* *	Level:	RO	SRO
		Tier #		2
EXAMINATION OUTLINE CRO	OSS-REFERENCE:	Group #		2
		K/A#	0	39-K5.05
		Importance Rating		3.1
Proposed Question:				
See Attached				
		•		
Proposed Answer: See attach	ed	Total War Indoor		
Explanation (Why the distractors are	•			
a. A head bubble will not form if RO	CPs are operating.			
b. Pressurizer level is manually cont	rolled during a cooldov	vn.		
d. Two makeup pumps will maintain	n RCS inventory.			
Technical Reference(s): Tech. Spe	ec. Bases 3/4.4.9		Reference At	tached:
reclinical Reference(s).	cc. Dases 3/4.4.9		(Attach if not	
			previously pr	
			proviously pr	o (laba)
Proposed references to be provided to	applicants during exan	nination:		
Learning Objective (As available):	OPS-SYS-103-09K			
Question Source:	Bank # Modified Bank # New	(Note of	changes or attac	ch parent)
Question History	Previous NRC Exam Previous Quiz / Test	· 		
Question Cognitive Level:	Memory or Fundame Comprehension or Ar	ntal Knowledge X		
10 CFR Part 55 Content:	55.41 55.43 <u>X</u>	,		
Comments (Why is it an upper level q	question):			
Tech. Spec. Bases question				

The basis for the RCS cooldown limits in Tech. Specs. is to prevent:

- a. Reactor head steam bubble formation
- b. Excessive pressurizer outsurge into the RCS
- c. Non-ductile failure of an RCS boundary
- d. Exceeding Makeup System capacity through a single injection line

Answer:

c.

		Level:		RO	SRO
		Tier #			2
EXAMINATION OUTLINE CROSS-REFERENCE:		Group #			2
		K/A#		055-	K4.02
		Importance Ra	iting	<u> </u>	2.6
Proposed Question:					
See Attached					
D	1	N			
Proposed Answer: See attache	e a				
Explanation (Why the distractors are	incorrect):				
When E2 and F2 are deenergized RE	1003A and RE1003B and	re deenergized as	well. Wh	en E2 and F2 are	e reenergized,
the RCMs sample pump will remain of	off, thus Alarm 9-4-A is	s due to low flow	•		-
Technical Reference(s): Dwg. OS	-015		I	Reference Attacl	hed:
				Attach if not	
			ŗ	oreviously provi	ded)
			_		,
Duen and makeman are to be more deal to	1:				
Proposed references to be provided to	applicants during exan	imation:			
T : 01: .: (A : 111) (NDG GYIG #00 0411				
,	PS-SYS-508-04K				
Question Source:	Bank #			_	
	Modified Bank #		(Note cha	inges or attach p	arent)
	New	<u>X</u>			
Question History	Previous NRC Exam				
•	Previous Quiz / Test				
Question Cognitive Level	Mamaru or Fundama	ntal Vnavyladaa		·-	
Question Cognitive Level:	Memory or Fundame Comprehension or A		X		
10 CFR Part 55 Content:	55.41 <u>X</u>				
	55.43				
Comments (Why is it an upper level q	uestion):				
The examinee will have to diagnose the	ne effect of momentaril	y deenergizing E	2 and F2 h	as on RE1003A	and RE1003B.

The following plant conditions exist:

- An ATWS has occurred.
- E2 and F2 were deenergized and then reenergized to mitigate the event.
- Pressurizer level is 100 inches and steady.

At the completions of Supplemental Actions of DB-OP-02000, you notice that Annunciator Alarm 9-4-A, VAC SYS DISCH RAD HI, in alarm.

Your actions based on this alarm would be to:

- a. Go to SG Tube Leak Procedure, DB-OP-02531.
- b. Go to Section 8 of DB-OP-02000, SG Tube Rupture.
- c. Have the Vacuum System vent realigned to the filter system.
- d. No action is required.

Answer:

		Level:		RU	SKO
		Tier#			2
EXAMINATION OUTLINE CROSS-REFERENCE:		Group #			2
		K/A#		062-A4.01	
		Importance Ra	ting		3.1
Proposed Question:					
_					
See Attached					
Proposed Answer: See attach	ned	-			
Explanation (Why the distractors are	incorrect):				
1.072.047.00 111		24560			
-					
b./c. ACB 34561 will open to isolat	e ACB 34562 from ACI	B 34560.			
Technical Reference(s): Dwg. OS	5-056			eference Attac	hed:
				ttach if not	: 1. 1\
			pr	eviously prov	ided)
Proposed references to be provided to	applicants during exam	imaton.			
Learning Objective (As available):	OPS-SYS-403-06K				
Question Source:	Bank #	_X_			
OLC-7405	Modified Bank #		(Note chan	ges or attach	parent)
	New		(4.555 52202		
Question History	Previous NRC Exam				
	Previous Quiz / Test				
Question Cognitive Level:	Memory or Fundame Comprehension or Ar		_X		
10 CFR Part 55 Content:	55.41 <u>X</u>				
10 CTR 1 art 33 Content.	55.43				
		79			
Comments (Why is it an upper level	question):				
					ļ

If ACB 34560 received a trip signal but failed to open, which one of the following sets of breakers would open?

- a. ACB 34561 and ACB 34564
- b. ACB 34562 and ACB 34563
- c. ACB 34562 and ACB 34564
- d. ACB 34561 and ACB 34563

Answer:

EXAMINATION OUTLINE CROSS-REFERENCE:		Level:		RO	SRO
		Tier #			2
		Group #			2
		K/A#		064-	K6.07
		Importance Ra	ting	<u> </u>	2.9
Proposed Question:					
See Attached					
		~			-
Proposed Answer: See attache	ed 				
Explanation (Why the distractors are i	incorrect):				
Each EDG requires only one air recei		to he operable			
Each EDG requires only one an recei	ver at normal pressure i	to be operable.			
					-
T. 1 : 1 D. C	CO1C 00 C 1 Av. 1	. 10		D C	
Technical Reference(s): DB-OP-0	6316. 02, C-1, Attachm	ient 13		Reference Attac Attach if not	hed:
				reviously provi	dad)
			ŀ	previously provi	ded)
Proposed references to be provided to	applicants during exam	nination:			
Learning Objective (As available):	PS-SYS-406-06K				
Question Source:	Bank #				
Question bource.	Modified Bank #		(Note cha	anges or attach p	parent)
	New	X	`		,
O di III d					
Question History	Previous NRC Exam Previous Quiz / Test				
	Previous Quiz/ Test				
Question Cognitive Level:	Memory or Fundamen		X		
	Comprehension or Ar	nalysis _			
10.0777.7					
10 CFR Part 55 Content:	55.41 55.43X				
	33.43 <u>A</u>	,			
Comments (Why is it an upper level q	uestion):				
SRO due to determining EDG operab	•				
SKO due to determining EDO operao.	inty.				

Emergency Diesel Generator (EDG) Air Compressor Receiver 1-2-1 has been isolated and depressurized. The result of this action is:

- a. Both EDGs are inoperable.
- b. EDG 1 is inoperable, EDG 2 is operable.
- c. EDG 1 is operable, EDG 2 is inoperable.
- d. Both EDGs are operable.

Answer:

Tier #	RO	SRO		
		2		
Group #		2		
K/A#	07	5-K1.01		
Importance Rating		2.5		
lt in a loss of ultimate	e heat sink. The flo	ooding could be		
.f	Reference Atta	ched:		
previously provided)				
nation:				
X (Note	changes or attach			
		parent)		
X		parent)		
al Knowledge X		parent)		
al Knowledge X	-	parent)		
	olt in a loss of ultimate. .f .a. A.	If Reference Atta (Attach if not previously pro		

The purpose of the Service Water Non-Seismic Line Rupture section of DB-OP-02511, Loss of Service Water Pumps/System is to prevent a loss of ______.

- a. cooling tower makeup
- b. ultimate heat sink inventory
- c. auxiliary feedwater alternate suction source
- d. turbine plant cooling water cooling

Answer:

		Level:	RO	SRO
EXAMINATION OUTLINE CROSS-REFERENCE:		Tier #		2
		Group #		2
		K/A#		086-A2.02
		Importance Rating		3.3
Proposed Question:				
See Attached				
		-		
Proposed Answer: See attached				
Explanation (Why the distractors are inc	correct):			
a. DB-FP-00009 directs the use of the	FHAR.			
c. USAR is too general of a document	to be used for this ev	ent.		
d. DB-FP-00005 is an administrative p	rocedure for Fire Bri	gade		
Technical Reference(s): DB-FP-000	09.05, C-11, Step 6.1	.6	Reference A (Attach if n previously)	
Proposed references to be provided to ap	ppreams during exam			
Learning Objective (As available):				
ı	Bank # Modified Bank # New	(Note	changes or att	ach parent)
	Previous NRC Exam Previous Quiz / Test			
	Memory or Fundamer Comprehension or Ar	ntal Knowledge X		
	55.41 55.43X	9		
Comments (Why is it an upper level que	estion):			
This question is SRO level due to address	ssing conditions of lie	cense.		

The following alarms are received in the Control Room:

- 9-2-G FIRE WTR ELEC PMP ON
- 9-3-G FIRE WTR DSL PMP ON
- 9-5-G FIRE WTR TRB BLDG PRESS LO
- 9-6-G FIRE WTR STRG TK LVL

An investigation reveals excavation work in the northeast corner of the site has ruptured the underground loop. Isolation of the leak has resulted in the isolations of two hose houses and one hydrant.

Which one of the following documents is the proper document to use in this situation after the leak is isolated?

- a. FHAR
- b. DB-FP-00009, Fire Protection Impairment and Fire Watch
- c. USAR
- d. DB-FP-00005, Fire Brigade

Answer:

		Level:	RO	SRO	
		Tier #		2	
EXAMINATION OUTLINE CROSS-REFERE		Group #		2	
		K/A#		103-K1.02	
		Importance Rat	ing	4.1	
Proposed Question:					
See Attached					
		-			
Proposed Answer: See attache	ed				
Explanation (Why the distractors are i	ncorrect):				
a. Four bolts are allowed to hold the	equipment hatch.				
c. One door being closed on the emer	rgency hatch is adequat	te.			
d. Both doors of CTMT personnel hatch are allowed open and hoses running through them if someone is in attendance.					
Technical Reference(s): DB-PF-03	270.00, C-4		Reference (Attach if r	not	
Proposed references to be provided to applicants during examination:					
Learning Objective (As available): O	PS-GOP-439-03K				
Question Source:	Bank # Modified Bank # New	X	(Note changes or at	tach parent)	
Question History	Previous NRC Exam Previous Quiz / Test				
Question Cognitive Level:	Memory or Fundamer Comprehension or Ar		X		
10 CFR Part 55 Content:	55.41 X	3			
Comments (Why is it an upper level question):					
The examinee must diagnose whether each of the distractors affect CTMT closure.					
This question is SRO level due to addressing a T.S. intrepretation.					

The plant is in Mode 6. Refueling operations are in progress in the SFP area and refueling canal area.

Which one of the following statements would affect refueling operations?

- a. Equipment hatch with only four bolts holding it in place.
- b. Steam Generator 1 with a secondary manway removed and only SP17B2, Main Steam Safety Valve removed.
- c. The emergency personnel hatch with the inner door removed and the outer door closed.
- d. The CTMT personnel hatch has both doors open with a hose passing through them with only a maintenance worker in attendance.

Answer: