



Luminant

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CP-201800389 TXX-18044

U. S. Nuclear Regulatory Commission Regional Administrator, Region IV 1600 East Lamar Boulevard Arlington, Texas 76011-4511 ATTN: Mr. Kelly Clayton Ref 10 CFR 55.5(b)(2) 10 CFR 55.25

6/25/2018

SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT DOCKET NOS. 50-445 AND 50-446 TRANSMITTAL OF LICENSED OPERATOR EXAMINATION MATERIALS

REFERENCES: 1. NUREG-1021, Revision 11, Examination Standard ES-403

Dear Mr. Clayton:

Enclosed please find the written examination answer sheets, cover pages, and one completed Form ES-403-1, "Written Examination Grading Quality Checklist," for the initial operator licensing written examinations administered on June 20, 2018 at Comanche Peak Nuclear Power Plant (CPNPP). These examinations were graded and are submitted based on the guidance in Reference 1. Also enclosed in electronic form are the as-given operational and written examinations. CPNPP requests that the written examination and operating test be withheld from public disclosure for the allowed two-year period.

This communication contains no new licensing basis commitments regarding Comanche Peak Units 1 and 2.

If there are any questions concerning this submittal, contact Mr. Jordan Ruby at (254) 897-0585 (office) or at (214) 808-6506 (cell).

TXX-18044 Page 2 of 2

Sincerely,

Timeto D. Hop

Timothy A. Hope

Enclosure - 2018 Licensed Operator Written Examinations

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Kriss M. Kennedy, Region IV (clo) Vincent Gaddy, Region IV (clo) Margaret M. O'Banion, NRR (clo) Resident Inspectors, Comanche Peak (clo)

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Examination Outline Cross-Reference	Level	RO
004 Chemical and Volume Control	Tier #	2
	Group #	1
Knowledge of the effect of a loss or	K/A #	004 / K6.17
malfunction on the following CVCS	Rating	4.4
components: K6.17 Flow paths for emergency	QREV	7
boration		

Question 15

Unit 1 has a reactor trip from 100% power with the following conditions:

- four control rods failed to insert
- The US has entered EOP-0.0A, "Reactor Trip or Safety Injection," and ABN-107, "Emergency Boration."

Step 1 of ABN-107 states: "Check RWST TO CHRG PMP SUCT VLVs, 1/1-LCV-112D AND 1/1-LCV-112E – CLOSED."

For some unknown reason the RWST TO CHRG PMP SUCT VLV, 1/1-LCV-112D is OPEN and WILL NOT CLOSE.

The Response Not Obtained (RNO) column of ABN-107 directs the operator to emergency borate ______ because it is the preferred method for these plant conditions.

- A. from the RWST via 1/1-LCV-112D OR 1/1-LCV-112E using Attachment 4
- B. through emergency borate valve 1-8104 using Attachment 1
- C. through manual emergency borate valve 1CS-8439 using Attachment 3
- D. through normal boration valves 1-FCV-0110A and 1/u-FCV-0110B using Attachment 2

Answer: A

Explanation:

A is correct because according to ABN-107, step 1 if 1/1-LCV-112D and 1/1-LCV-112E are not closed, the RNO directs you to step 7 which states that Attachment 4 is the preferred method to emergency borate from the RWST. If it is open (LCV-112D) and won't close, the interlock to allow the other valves to open and borate through other normally preferred methods is not available so this is the preferred method.

B is incorrect because according to ABN-107, Attachment 1 is the preferred method if 1/1-LCV-112D and 1/1-LCV-112E are closed, and at least one Boric Acid pump is available. C is incorrect because according to ABN-107, Attachment 3 is another method if 1/1-LCV-112D and 1/1-LCV-112E are closed, and at least one Boric Acid pump is available. D is incorrect because according to ABN-107, Attachment 3 is another method if 1/1-LCV-112D and 1/1-LCV-112E are closed, and at least one Boric Acid pump is available. D is incorrect because according to ABN-107, Attachment 3 is another method if 1/1-LCV-112D and 1/1-LCV-112E are closed, and at least one Boric Acid pump is available.

Technical References:

ABN-107, Emergency Boration, Rev. 9, pages 4-5

References to be provided to applicants during exam: None.

Learning Objective: LO21.ABN.105.OB06; LO21.SYS.CS1.OB04

Question Source: (note changes; attach parent)	Bank # Modified Bank # New	Х
Question History:	Last NRC Exam	No
Question Cognitive Level:	Memory/Fundamental Comprehensive/Analysis	3
10CFR Part 55 Content:	55.41.7	

Question 15

Recommend accepting two correct answers A and B

During written examination review of the CPNPP 2018 NRC exam it was identified that Question 15 has two correct answers.

<u>Reason</u>

- The question exhibits a normal reactor trip with NO Safety Injection, 4 Control Rods failing to insert into the core, and 1/1-LCV-112D open for some unknown reason
- The US then enters EOP-0.0A, Reactor Trip or Safety Injection AND ABN-107, Emergency Boration
- When the Reactor Operator notes all rods failed to insert, there is no RNO action to be performed in EOP-0.0A and the crew proceeds to step 2. After the completion and verbalization of the Immediate Operator Actions (Steps 1-4) of EOP-0.0A, the Reactor Operator will Emergency Borate for the stuck rods per the Fold Out Page guidance contained in EOP-0.0A, Attachment 1A, Foldout For EOP-0.0A Reactor Trip Or Safety Injection.
- The action to perform Emergency Boration is performed independently of US direction as a Foldout Page action. The US will not direct the action, only ensure that it takes place and verify its initiation
- EOP-0.0A Foldout Page states to Emergency Borate, per ABN-107, if two or more control rods are NOT fully inserted (1800 gallons of 7000 ppm boric acid for each control rod not fully inserted)
- ABN-107 contains a NOTE prior to Step 1 stating: "Attachment 1 and Attachment 4 have been developed into Operator Aids for use during emergency boration and may be entered independently of this procedure."
- This NOTE is what allows the Reactor Operator to initiate Emergency Boration per the Operator Aid independently of ABN-107. The operator will execute either page 1 or page 2 of the operator aid by diagnosing the current plant conditions and determining if a Safety Injection has occurred or not. In this case there is no Safety Injection present, therefore Emergency Boration will be conducted per Attachment 1 (Page 2 of the Operator Aid)
- The Operator Aid (PLR# 2013-0023-S) is contained at the Main Control Board (MCB) Panel CB-06
- The first page of the operator aid is an exact replica of ABN-107, Attachment 4, Transfer of Charging Pump Suction to the RWST, Page 1 ONLY. This page of the operator aid would be used to initiate Emergency Boration anytime a Safety Injection HAS occurred
- The second page of the operator aid is an exact replica of ABN-107, Attachment 1, Emergency Boration Through Emergency Borate Valve u-8104. This page of the operator aid would be used to initiate Emergency Boration anytime a Safety Injection has NOT occurred and there are no known issues with either u-8104 or the Boric Acid Transfer Pumps.
- The Reactor Operator may either Emergency Borate per the second page of the operator aid that is a replica of Attachment 1 of the ABN or the first page of the operator aid that is a replica of page 1 of Attachment 4 of the ABN
- Based on the information provided above CPNPP has determined both selections 'A' and 'B' are correct

- Answer choices 'C' and 'D' are incorrect because these attachments CANNOT be entered independently of ABN-107 and are NOT directed by the procedure based on the given conditions
- The original correct answer as approved on the worksheet and the answer key is 'A'
- See attached figure of the Operator Aid marked as PLR# 2013-0023-S
- See attached figure of ABN-107 NOTE prior to Step 1

EMERGENCY BORATION VIA

TRANSFER OF CHARGING	PUMP SUCTION TO THE	ERWST (ABN-107, Attachment 4)

[L]

CAUTION: Injecting through a CCP SI ISOL VLV (8801A/B) requires CCP SI injection check valve leak test within 24 hours per SR 3.4.14.1 (requires MODE 3, 4, or 5).

 IF Safety Injection actuated (1/<u>u</u>-LCV-112D <u>OR</u> 1/<u>u</u>-LCV-112E OPEN), <u>THEN</u> perform the following steps:

a. Verify ONE of the following valves OPEN:

•	1/u-LCV-112D, RWST TO CHRG PMP SUCT VLV.
•	1/u-LCV-112E, RWST TO CHRG PMP SUCT VLV.

b. Verify the following valves CLOSED:

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 1/<u>u</u>-LCV-112B, VCT TO CHRG PMP SUCT V 	LV.
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- 1/<u>u</u>-LCV-112C, VCT TO CHRG PMP SUCT VLV.
- c. Verify at least ONE CCP running:
 - 1/<u>u</u>-APCH1, CCP 1
 - 1/<u>u</u>-APCH2, CCP 2
- d. Verify u-FI-917, CCP SI FLOW indication.
- e. IF CCP SI FLOW can <u>NOT</u> be verified, <u>THEN</u> Initiate Emergency Boration flow per another method

Initiate Emergency Boration flow per another method of ABN-107.

- <u>NOTE</u>: TDM-201A/B provides equivalency values for boration from 2400 ppm source and a 7000 ppm source. A conservative approach is to borate the entire volume required for the condition from the 7000 ppm source once boration flow from the 2400 ppm source is terminated.
 - ☐ f. <u>WHEN</u> the RWST is isolated (1/<u>u</u>-LCV-112D <u>AND</u> 1/<u>u</u>-LCV-112E CLOSED) per the applicable ERG, <u>THEN</u>

Initiate Emergency Boration Flow per another method of ABN-107 <u>until the desired amount of</u> <u>boration volume is injected</u> (Reference Attachment 7 of ABN-107).

2. IF Safety Injection is NOT actuated (1/u-LCV-112D AND 1/u-LCV-112 E CLOSED), THEN initiate Emergency Boration Flow through 1/u-LCV-112D OR 1/u-LCV-112 E per Attachment 4 of ABN-

107, <u>OR</u> initate Emergency Boration Flow through 1/<u>u</u>-LCV-112D OR 1/<u>u</u>-LCV-112 E per Attachment 4 of ABN

PLR# 2013-0023-S

EMERGENCY BORATION THROUGH EMERGENCY BORATE VALVE u-8104 (ABN-107, Attachment 1)

- 1. Ensure a charging pump is running:
 - 1/u-APCH1, CCP 1

[L]

- 1/<u>u</u>-APCH2, CCP 2
- 1/<u>u</u>-APPD, PDP

2. Start a boric acid transfer pump:

- 1/<u>u</u>-APBA1, BA XFER PMP 1 AUTO (AFTER <u>START</u>)
- 1/<u>u</u>-APBA2, BA XFER PMP 2 AUTO (AFTER <u>START</u>)
- 3. Open 1/u-8104, EMER BORATE VLV
- 4. Verify flow on <u>u</u>-FI-183A, EMER BORATE FLO
- 5. Verify flow on <u>u</u>-FI-121A, CHRG FLOW
- 6. IF EMER BORATE FLOW <u>OR</u> CHRG FLOW can <u>NOT</u> be verified, <u>THEN</u> initiate Emergency Boration Flow per another method of ABN-107.
- 7. <u>WHEN</u> desired to terminate emergency boration (Reference Attachment 7 of ABN-107), <u>THEN</u> GO TO Step 8 of ABN-107.

CPNPP ABNORMAL CONDITIONS PROCEDURES MANU	AL	UNIT 1 AND 2	PROCEDURE NO. ABN-107
EMERGENCY BORATION		REVISION NO. 9	PAGE 4 OF 32
2.3 Operator Actions			
ACTION/EXPECTED RESPONSE		RESPONSE NOT C	BTAINED
CAUTION: CCP runout may occur with simultaneo flowpaths.	ous flow t	hrough both chargin	g and SI
NOTE: Attachment 1 and Attachment 4 have been emergency boration and may be entered in			
Check RWST TO CHRG PMP SUCT VLVs, 1/u-LCV-112D AND 1/u-LCV-112E - CLOSED	GO TO	Step 7.	
2 Verify BA pump - AT LEAST ONE AVAILABLE	GO TO	Step 6.	
3 Initiate and Continue EMERGENCY BORATION using one of the following methods.			
<u>NOTE</u> : Attachment 1 is the preferred method of En electrical power is required for operation of	nergenc 1/ <u>u</u> -810	y Boration. Train B S 4.	afeguards
 Attachment 1 - 1/<u>u</u>-8104 			
NOTE: Attachment 2 utilizes the normal boration for 1/ <u>u</u> -LCV-112C to be open.	ow path,	which requires 1/ <u>u</u> -l	_CV-112B and
Attachment 2 - Normal Boration			
 Attachment 3 - Manual Emergency Boration Valve (<u>u</u>CS-8439) 			
 Attachment 9 - Mode 6 - Impaired CVCS 			
4 Verify EMERGENCY BORATION Flow	GO TO	Step 6.	
5 GO TO Step 8			
Section	2.3		

Originator	Question: Exam Material Code: 2018 NRC Exam Question Number: 15 Or Full Question ID Number:
ABN - 107	Problem: (Be as detailed as possible and include references when available) <u>allows</u> the use of Att. I and 4 as job aids. We I to normally emergency borate using the Att. I job
aid throu	gh value 1-8104.
N	ame <u>0 L/21/18</u> Date Mail Code
	Recommended Disposition: /Examination Key: <u>Accept ANSWERS A & B</u>
3. Examination	Bank: <u>Correct prior to addition to the book</u>
C. Other:	None
Jack Le	Dise <u>6/21/18</u> ame Date nit disposition for approval.
1. Prepare and sub-	complete approved actions, forward copy to originator and file original with exam
1. Prepare and sub-	Approval Disposition: Approval Disposition: As recommended Other/ additional
1. Prepare and subt 2. After approval, of Approval	Approval Disposition: As recommended

	EXAM FEEDBACK
Driginator	Question: Exam Material Code: ZOIB NRC Exam Question Number: 15 Or Full Question ID Number:
-	Problem: (Be as detailed as possible and include references when available)
	ABN-107 GIVES PERMISSION TO USE OPERATOR ATTACHMENTS 1+4. WE EMERGENCY BORATE USING
	200GH 1-8104 WHEN SI NOT PRESENT.
	G/21/2018
N	ame Date Mail Code
Evaluator	Recommended Disposition:
A. Examination	/Examination Key: Arcept answers A & B
C. Other:	None. Dise 6/21/18
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Proctor	Name:)Ack	WRITTEN EXAM ADMINISTRAT	ON S		
Exam:	LC26 N	RC EXAM		D	ate: 62018
Time	Question #	Question	NR Call YES		Proctor Response/NRC Response
0850	31	Is Arrachment of part of FPI or the ABN	X		Attachment 4 15 Part of AN ABN Written on white board.
රළ30	86	IF A TECHNICAL Specification # 15 provided, The TITLE of the Spec. should also be provided	×		Frovide T.S. Nome To all condidates T.S. # & Trice Written on White Ecoard.
Aoo	22	C) Sung hes 2"Trash Rack" to Keep big stuff out AND has a of Vertical Strainers to Israe # orerall Surface AREA; what increase orerall Surface AREA; what is considered "Sump Surface" D) ARE Grates (trash Rack) Considered Course St		X ?	None-
1022	93	Transition to SACRG-1 Requires >1200F and rising temp. Stem does not give enough into to make this determination.			No response provided. Answer question based on given information
1050	78	Are 8716A/B available		X	No response provided - answer question based on given information
1110	91	Does it notter that the Procedures do not indicate Unit 1		X	given information No lesponse - answer gunotion based on undernation in stem of guestion
Instructi	<u>ons:</u>	I	L	L	I]

Make multiple copies of the first page, as needed, for questions during exam.

For all questions, document on Page 2 the receipt of any questions, the question #, and whether or not the NRC was called.
 IF a question is NOT documented on page 1, <u>THEN</u> document both the question, response provided and the NRC comments on this form.

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	Name: Jac LC26	WRITTEN EXAM ADMINISTRAT	ION S		T ate: 6/20/18
Time	Question #	Question	NR Cal YES		Proctor Response/NRC Response
1120	66	Part Z - How long ster HK-455 A placed in MANUAL 15 this?		X	No Response - Buestion Stands 35 Written.
1132	90	Have any actions, such as placing SSWP in pull-out, been taken		Z	No Response - question stem contains all necessary into to answer question
1138	55	Part 2 of Question: 15 the question asting "At the exact-initial moment going to manual =) (HTRS OFF)? (OR) where moded HTRS be when adjusted for current plant conditions (Probably on).	٥	×	Doesn't matter it immediately of later, Onswer grestly
1225	27	No answer matches calculate value of 93.3 minutes. What is question asking?		×	None - question stem asks Max time before FWI
1237	83	IS question asking what Procedure directs of borstion Reguired for "Most Sk Rod" stuck		X	None - Question Exten provides all information Required to ENSUER Question
1243 Instructi		Is it desured to address trip of the RARP or RCS Leaksge furst?	X		Response given - Which Arocedure is the higher Priority based on the given Conditions

- Make multiple copies of the first page, as needed, for questions during exam. •
- For all questions, document on Page 2 the receipt of any questions, the question #, and whether or not the NRC was called. . IF a question is NOT documented on page 1, THEN document both the question, response provided and the NRC . comments on this form.

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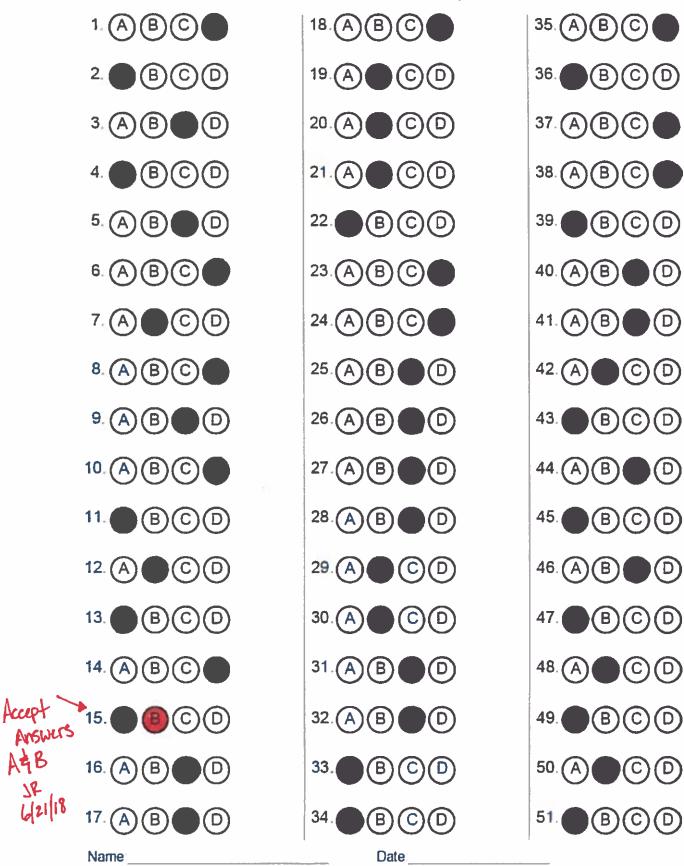
xam: _	1026	WRITTEN EXAM ADMINISTRAT		D	ate: 6/20/18
Time	Question #	Question	NR Call YES		Proctor Response/NRC Response
/250	87	does POEV PCV-45% remain stuck open?			None - question stem provides all information regui to answer suestion
370	42	Should I Descume Contain ment Spray on Just ECCS progs		X,	None - Store Frovides intorna Regnered to assure this guestion.
				٥	
	· · · · · · · · · · · ·				
•	Make multiple cop For all questions,	1 bies of the first page, as needed, for questions during exan document on Page 2 the receipt of any questions, the que <u>NOT</u> documented on page 1, <u>THEN</u> document both the q form.	stion #. a	nd wheil	her or not the NRC was called. e provided and the NRC

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CPNPP NRC 2018 Written Examination Senior Reactor Operator



CPNPP NRC 2018 SRO Written Exam

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