



Victor McCree Regional Administrator, Region II U. S. Nuclear Regulatory Commission Marquis One Tower 245 Peachtree Center Ave., NE Suite 1200 Atlanta, GA 30303-1257

Attention: Gerard Laska, Examiner

Re:

Turkey Point Units 3 and 4 Docket Nos. 50-250 and 50-251

FPL Comments for the 2013 Written NRC License Examination

In accordance with provisions of NUREG-1021, Operator Licensing Examiner Standards, Examiner Standards ES-402, Administering Initial Written Examinations, Section E, Post-Examination Reviews, Paragraph 4, Florida Power & Light Company (FPL) has collected and considered comments from the applicants' regarding the written portion of the License Examination administered at Turkey Point on March 15, 2013.

FPL has three comments for your review based on the applicants' feedback. Attachments 1 and 2 provide the challenged questions, the answers, and references. Each question states the comment and provides FPL's recommendation. The enclosure provides supporting information.

Should there be any questions, please contact Mark Similey at (305) 246-6691.

Sincerely.

Michael Kiley Vice President

Turkey Point Nuclear Plant

Attachments and Enclosure

cc: Chief, Operations Branch, Division of Reactor Safety, Region II, USNRC (w/o enclosure)

Chief Examiner, Region II, USNRC (w/o enclosure)

Senior Resident Inspector, USNRC, Turkey Point Plant (w/o enclosure) Document Control Desk, USNRC, Washington, D.C. (w/o enclosure)

Executive Summary of Challenged Questions and FPL Recommendation

Question 8: This question requires the operator to determine the most effective method of reducing RCS pressure in mode 3 with the 3C RCP running. 3-NOP-041.02, Pressurizer Operation, does not allow the use of Auxiliary Spray with <u>any</u> RCPs running. FPL recommends accepting distracter B ONLY as the only correct answer.

Question 34: This question requires the candidate to identify the maximum allowable ICW flow rate to each CCW HX under <u>normal conditions</u> and to state the reason why. Distracters B and D properly identify the need to minimize long-term tube side erosion in the CCW HXs. Two maximum flow rates are specified in 3-NOP-019, Intake Cooling Water System, dependent on plant configuration, both of which are considered normal alignments. During operations with no other evolutions in progress for ICW, the maximum allowable flow rate is 10,000 gpm as specified by distracter B. The maximum allowable flow rate during basket strainer back flush is 12,850 gpm as specified by distracter D. Approved plant documentation identifies both of these system alignments as normal. Therefore distracter D is also correct as it describes the maximum allowable flow rate as 12,850 gpm. FPL recommends accepting both answers B and D as correct.

Question 62: This question requires the candidate to verify RIL TS Limits and determine the required action for boration based on an event causing a Turbine Runback. The question did not provide distracters for required actions from 3-ONOP-089, Turbine Runback. Since the ONOP takes precedence over other ARP actions per 0-ADM-211, Emergency and Off-Normal Operating Procedure Usage, the operator would use the procedural guidance within 3-ONOP-089 to borate in 50 gallon increments, withdraw control rods, and clear the TS RIL issue. FPL recommends deleting question 62 from the exam.

Exam Questions, Answers and References

QUESTION 8

Plant Conditions:

- Unit 3 is in Mode 3.
- · Tavg at its ne-load value.
- Reactor Coolant Pump 3C is operating with 3A and 3B are secured.

Which ONE of the following would be most effective at lowering PZR pressure?

- A. Spray Valve PCV-3-455A Open
 Spray Valve PCV-3-455B Open
- B. Spray Valve PCV-3-455A Open Spray Valve PCV-3-455B Closed
- Spray Valve PCV-3-455A Closed
 Spray Valve PCV-3-465B Open
- Spray Valve PCV-3-465A Closed
 Spray Valve PCV-3-465B Closed
 Auxiliary Spray CV-3-311 Open
- B is only correct Answer.
- D is not allowed by procedure.

PROCEDURE NO.: 3-NOP-041.02		PROCEDURE TITLE:	PAGE:			
		PRESSURIZER OPERATION	34 of 87			
		TURKEY POINT UNIT 3				
5.0 5.1						
	Pressurizer Auxiliary Spray Operations 1. CHECK CVCS normal Charging and Letdown in service.					
	2 CHE	CK NO RCPs running,				
	3. CHE	CK a Pressurizer steam bubble exists.				

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Question # 8 provides the operator with a scenario with RCP 3C in service, and asks which set of conditions would be the most effective at lowering PZR pressure.

Distracter A is incorrect, as opening PCV-3-455B, thereby short-cycling spray, thus making spray flow from PCV-3-455A ineffective.

Distracter B will provide effective spray as PCV-3-455A is open delivering full available spray flow, without short-cycling spray through PCV-3-455B.

Distracter C is incorrect, as the open spray valve is from the secured RCP, there will be no spray.

Distracter D would provide effective spray, however it is not allowed by plant procedures.

Recommend accept B as the only correct answer.

QUESTION 34

Plant conditions:

- · Unit 3 is operating at 100% power.
- Three CCW Heat Exchangers are in service.

in accordance with 3-NOP-019, Intake Cooling Water System, under normal conditions which ONE of the following identifies the maximum allowable ICW flowrate to each CCW Heat Exchanger, AND the reason for this limit?

- A. 10,000 gpm; Prevent runout of the ICW pump.
- B. 10,000 gpm;
 Minimize long-term tube-side erosion
- C. 12,850-gpm; Prevent-runout-of-the-ICW pump.
- D. 12,850 gpm;
 Minimize long-term tube-side erosion.

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Question # 34 requires the candidate to identify the maximum allowable ICW flow rate to each CCW HX under <u>normal conditions</u> and why. Distracters B and D properly identify the need to minimize long-term tube side erosion. The second determination is the <u>maximum</u> flow rate.

There are two maximum flow rates, 10,000 gpm and 12,850 gpm.

As both distracters are correct values in accordance with 3-NOP-019, the student must discern which "normal" to use.

Either the "normal operation" within the context of 3-NOP-019 step 2.2.4.2:

2.2.4 CCW Heat Exchangers

- 1. ICW outlet temperature from CCW HXs should NOT exceed 120°F.
- 2. Maximum ICW flowrate to each CCW HX during normal operation should NOT exceed 10,000 gpm in order to minimize long term tube side erosion of the CCW HXs. The ICW flowrate for each CCW HX may be increased to 12,850 gpm for up to 72 hours period to accommodate HX or Basket Strainer cleanings.

-OR-

"Normal Operations" as defined by the Turkey Point Plant Radiological Emergency Plan:

Normal Plant Operations - Activities at the plant site associated with routine testing, maintenance, or equipment operations, in accordance with normal operating or administrative procedures. Entry into abnormal or emergency operating procedures, or deviation from normal security or radiological controls posture, is a departure from NORMAL PLANT OPERATIONS.

If a competent operator understands that the plant routinely backwashes basket strainers on a near-weekly basis, he should identify this as a normal evolution, and that under these conditions, the plant is allowed to raise ICW flow rate to the maximum flow rate to 12850 gpm.

Recommend accept B and D as correct answers.

QUESTION 62

Plant conditions:

- Unit 3 is at 100% power, all systems in normal alignments.
- A turbine runback occurs.
- The unit is stabilized at 82% power.
- Annunciator B 8/2, ROD BANK A/B/C/D EXTRA LO LIMIT is in alarm.
- Control Bank D indicates 130 steps.

Which ONE of the following correctly completes the statement below?

The technical specification LCO for Rod Insertion Limits ____(1)___ exceeded. The operator must immediately stop driving rods and ____(2)___.

- A. (1) i
 - (2) commence emergency boration iAW 3-ONOP-46.1, Emergency Boration.
- B. (1) is
 - (2) borate ≥ 16 gpm IAW 0-OP-046, CVCS Boron Concentration Control.
- C. (1) is NOT
 - (2) borate in 50 gallon increments IAW 0-OP-046, CVCS Boron Concentration Control.
- D. (1) is NOT
 - (2) borate ≥ 16 gpm IAW 3-OP-46, CVCS Boron Concentration Control.

There are no correct Answers

KH MUSIY 3N	INCRESONA SITE			PALE
1 PROCESURE NO. 2-CANDP-019	TURNER RUNSACK TURNEY POINT UNIT 3		13 of 19	
STEP ACTION/E	SENOT OBTAINED]		
MONITOR BANK AS	Annunciator 8 8/2 ROD	PERFORM the following as necessary after the curback:		
CLEAR		(8)	WHEN turbine runi complete, THEN P control rods in Mar	LACE
		(BK)	SET bone sod tota 60 gallons.	zerto
		(K.)	DETERMINE borio rate as determined Supervisor.	
		(A)	PLACE the Resets Selector Switch to	
		9	PLACE the RCS & sonirol Switch to S	faktup TART.
		0	ADJUST the setpo Borio Acid Controll FC-3-113A to the i rate as indicated o	er les red flow
			WITHDRAW Control establish True Two to +3°F Tany GREA Two until Annuno at CLEAR.	AT UP TER THAN
		H.	REPEAT Section : RNO steps until Ar B 8:2 is CLEAR.	3.2 Step 10 nnunciator

Question 62 gives the event of a runback followed by Annunciator B 8/2 in alarm. Bank D rods past the Rod Insertion Limit would happen as a result of the runback. 3-ONOP-089, Turbine Runback, has Immediate Operator Actions and would be entered directly. During the subsequent actions, the RIL condition would be addressed in step 3.3.10. Per the rules of use specified in 0-ADM-211, the ARP actions would not be used since the operator is already in the correct procedure to address the RIL condition caused by the runback.