

NRC COMMENTS TO THE OPERATING TEST AND

AND WRITTEN EXAMINATION (ES-401-9)

FOR THE KEWAUNEE INITIAL EXAMINATION - NOVEMBER 2005

KEW 2005 OPERATING TEST COMMENTS page 1 of 2

JPM a. Perform a dropped rod recovery

COMMENT: Change Rod Position reading from "000" to "0" to match Step Counter.

RESOLUTION: Done

JPM b. Loss of intermediate Range instrumentation

COMMENT: Make steps 3 and 4 critical.

RESOLUTION: Done

JPM c. Start and Load The Diesel Generator

COMMENT: Add a time limit for opening Bkr 1-603, based on the time at which damage to the diesel could be expected if the breaker was left unopened.

RESOLUTION: It is expected that the breaker will be opened within less than ~ 15 seconds if a candidate exceeds this it will be evaluated on a case by case bases.

COMMENT: Add cue to so there is no need to wait for 3 minute DG run time

RESOLUTION: Done

JPM e. Stop SI Pumps During Post-LOCA Cooldown

COMMENT: This JPM does not appear to be an activity that would be performed by one licensed operator (this procedure would require a SRO procedure reader / director, and an RO board operator). Therefore, having one operator take on both roles may not provide a legitimate basis for evaluating the examinee's ability to safely operate the plant.

RESOLUTION: This JPM was replaced

JPM h. Drain the PRT to the CVC HUT

COMMENT: This JPM provides a cue to written question 28.

RESOLUTION: Written question 28 was replaced.

COMMENT: Make step 8 critical.

RESOLUTION: Done

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RO/SRO JPM Admin 1. Perform a Reactor Coolant Leak Rate Check

COMMENT: Rewrite JPM to use a computer display with stable values.

RESOLUTION: Done

RO JPM ADMIN 2 Perform Independent Verification of SI Valve Lineup

COMMENT: In step 6 Standard "SI -11B" should be SI-11A"

RESOLUTION: Change made

SRO JPM Admin 5 CLASSIFY EMERGENCY EVENT - Control Room Evacuation

COMMENT: This JPM has become a direct lookup due to a procedure change between the time it was written and the validation week.

RESOLUTION: This JPM was replaced

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
1N*	H	1				X	X							U	This question has 2 problems. 1 ST , if the candidate knows that a running RXCP adds heat to the RCS he knows "A" or "B" must be correct (2 distractors with level of difficulty 1) . 2 ND , since decay heat will be much greater than pump heat a candidate could argue "A" is also correct.
1N	H	3												S	RESOLUTION: Question was replaced.
2N*	H	4												S	
3N*	H	2												S	
4N*	F	3												S	

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- Enter the level of difficulty (LOD) of each question using a 1 – 5 (easy – difficult) rating scale (questions in the 2 – 4 range are acceptable).
- Check the appropriate box if a psychometric flaw is identified:
 - The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
 - The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
 - The answer choices are a collection of unrelated true/false statements.
 - The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
 - One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- Check the appropriate box if a job content error is identified:
 - The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
 - The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
 - The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
 - The question requires reverse logic or application compared to the job requirements.
- Check questions that are sampled for conformance with the approved K/A and those that are designated SRO-only (K/A and license level mismatches are unacceptable).
- Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

* 30 questions reviewed initially

[illegible]

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q≈ K/A	SRO Only		
56B*	H	3												S	
57B	H	3												S	
58B	F	2												S	
59B	F	3												S	
60N	F	3												S	
61B*	F	2												S	
62N*	H	2												S	
63M*	F	5						X	X					U?	I don't think we can expect operators to answer this question without referring to procedures.
														S	RESOLUTION: No change necessary, verified that ops. expectation, training and question validation shows this question to be SAT.
64N*	F	4						X	X					U?	I don't think we can expect operators to answer this question without referring to procedures, or the actual control room equipment.
														S	RESOLUTION: Question changed to provide picture of control room monitor display
														and E	Editorial: The procedure refers to a HOT/AVE pushbutton not a AVE/HOT pushbutton.
														S	RESOLUTION: Change made
65B*	F	2												S	
66N	H	2												S	
67B	F	3												S	
68M	F	4												S	
69B	H	3										X		U	Question not related to EOPs as called for by KA
69N	H	3												S	RESOLUTION: Question replaced

[illegible]

[illegible]