

KEWAUNEE
INITIAL LICENSE EXAM

DECEMBER 11 THRU 20, 2000

Form ES-401-9, "Written Examination
Review Worksheet"

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only			
1.*	H	3					X								U	See attached comments, Q=K/A, and reference material reviewed.
2.*	F	2													S	Q=K/A and reference material reviewed.
3.*	H	2													S	Q=K/A and reference material reviewed.
4.*	F	2													E	See attached comments, Q=K/A, and reference material reviewed.
5.*	F	3													S	Q=K/A and reference material reviewed.
6.*	H	3													S	Q=K/A and reference material reviewed.
7.*	F	3													S	Q=K/A and reference material reviewed.
8.*	F	3													E	See attached comments, Q=K/A, and reference material reviewed.
9.*	F	3													S	Q=K/A and reference material reviewed.
10.*	H	2													S	Q=K/A and reference material reviewed.

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.
 - More than one distractor is not credible.
 - 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 the appropriate box if the sampled question does not match the approved K/A or an SRO-only question is not at the SRO level.
- Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- For any "U" ratings, at a minimum, explain how the Appendix B psychometric attributes are not being met.

* Question used for "30 question" initial review.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/unifs	Backward	Q≠K/A	SRO Only		
11.*	F	3												S	Q=K/A and reference material reviewed.
12.*	F	3												E	See attached comments, Q=K/A, and reference material reviewed.
13.*	H	4												S	Q=K/A and reference material reviewed.
14.*	F	3												E	See attached comments, Q=K/A, and reference material reviewed.
15.*	H	4												S	Q=K/A and reference material reviewed.
16.*	H	4												S	Q=K/A and reference material reviewed.
17.*	F	3												S	Q=K/A and reference material reviewed.
18.*	F	2												S	Q=K/A and reference material reviewed.
19.*	F	2												S	Q=K/A and reference material reviewed.
20.*	F	3						X						U	See attached comments, Q=K/A, and reference material reviewed.
21.*	F	4												S	Q=K/A and reference material reviewed.
22.*	F	2												E	See attached comments, Q=K/A, and reference material reviewed.
23.*	F	3										X		U	See attached comments and reference material reviewed.
24.*	H	4												S	Q=K/A and reference material reviewed.
25.*	H	4												S	Q=K/A, and reference material reviewed.
26.*	H	4												S	Q=K/A and reference material reviewed.
27.*	H	4												S	Q=K/A and reference material reviewed.
28.*	F	3												S	Q=K/A and reference material reviewed.
29.*	F	3												S	Q=K/A and reference material reviewed.
30.*	H	3										X		U	See attached comments and reference material reviewed.

* Question used for "30 question" initial review.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only			
31.	H	3													E	See attached comments, Q=K/A, and reference material reviewed.
32.	F	3													S	Q=K/A and reference material reviewed.
33.	F	3													S	Q=K/A and reference material reviewed.
34.	H	4													E	See attached comments, Q=K/A and reference material reviewed.
35.	F	3													E	See attached comments, Q=K/A, and reference material reviewed.
36.	F	3													S	Q=K/A and reference material reviewed.
37.	H	4													S	Q=K/A and reference material reviewed.
38.	F	3													S	Q=K/A and reference material reviewed.
39.	H	4													S	Q=K/A and reference material reviewed.
40.	H	4						X							U	See attached comments, Q=K/A, and reference material reviewed.
41.	H	4													S	Q=K/A and reference material reviewed.
42.	H	3													S	Q=K/A and reference material reviewed.
43.	H	3													S	Q=K/A and reference material reviewed.
44.	H	3						NCA							U	See attached comments, Q=K/A, and reference material reviewed.
45.	F	3													S	Q=K/A and reference material reviewed.
46.	F	2													E	See attached comments, Q=K/A, and reference material reviewed.
47.	F	3													S	Q=K/A and reference material reviewed.
48.	F	2						X							U	See attached comments, Q=K/A, and reference material reviewed.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only			
49.	F	2													E	See attached comments, Q=K/A, and reference material reviewed.
50.	F	3													S	Q=K/A and reference material reviewed.
51.	H	2													S	Q=K/A and reference material reviewed.
52.	F	3					NCA								U	See attached comments, Q=K/A, and reference material reviewed.
53.	H	4													S	Q=K/A and reference material reviewed.
54.	F	3					X								U	See attached comments, Q=K/A, and reference material reviewed.
55.	F	3													S	Q=K/A and reference material reviewed.
56.	F	4													S	Q=K/A and reference material reviewed.
57.	F	1					X								U	See attached comments, Q=K/A, and reference material reviewed.
58.	H	2													S	Q=K/A and reference material reviewed.
59.	F	3													S	Q=K/A and reference material reviewed.
60.	F	3													S	Q=K/A and reference material reviewed.
61.	F	3													S	Q=K/A and reference material reviewed.
62.	H	3													S	Q=K/A and reference material reviewed.
63.	H	3										X			U	See attached comments and reference material reviewed.
64.	H	3													S	Q=K/A and reference material reviewed.
65.	F	3													S	Q=K/A and reference material reviewed.
66.	H	4													S	Q=K/A and reference material reviewed.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only		
67.	F	3												S	Q=K/A and reference material reviewed.
68.	F	2												S	Q=K/A and reference material reviewed.
69.	F	4					X							U	See attached comments, Q=K/A, and reference material reviewed.
70.	H	3												S	Q=K/A and reference material reviewed.
71.	H	3												S	Q=K/A and reference material reviewed.
72.	F	2												S	Q=K/A and reference material reviewed.
73.	F	2												S	Q=K/A and reference material reviewed.
74.	F	3												S	Q=K/A and reference material reviewed.
75.	F	2												S	Q=K/A and reference material reviewed.
76.	F	2												S	Q=K/A and reference material reviewed.
77.	F	2												E	See attached comments, Q=K/A, and reference material reviewed.
78.	H	3												S	Q=K/A and reference material reviewed.
79.	F	3					NCA							U	See attached comments, Q=K/A, and reference material reviewed.
80.	H	4												S	Q=K/A and reference material reviewed.
81.	F	2												S	Q=K/A and reference material reviewed.
82.	F	3												E	See attached, Q=K/A, and reference material reviewed.
83.	H	3					X							U	See attached comments, Q=K/A, and reference material reviewed.
84.	H	3												E	See attached comments, Q=K/A, and reference material reviewed.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only		
85.	H	4												S	Q=K/A and reference material reviewed.
86.	H	3											X	E	See attached comments, Q=K/A, and reference material reviewed.
87.	H	3												S	Q=K/A and reference material reviewed.
88.	H	3												S	Q=K/A and reference material reviewed.
89.	H	3												S	Q=K/A and reference material reviewed.
90.	F	3												E	See attached comments, Q=K/A, and reference material reviewed.
91.	H	4												S	Q=K/A and reference material reviewed.
92.	F	2												S	Q=K/A and reference material reviewed.
93.	H	3												S	Q=K/A and reference material reviewed.
94.	F	3					X							U	See attached comments, Q=K/A, and reference material reviewed.
95.	H	3											X	E	See attached comments, Q=K/A, and reference material reviewed.
96.	H	4												S	Q=K/A and reference material reviewed.
97.	H	3												E	See attached comments, Q=K/A, and reference material reviewed.
98.	H	3												S	Q=K/A and reference material reviewed.
99.	H	3												S	Q=K/A and reference material reviewed.
100.	H	4												S	Q=K/A and reference material reviewed.
101.	H	3												S	Q=K/A and reference material reviewed.
102.	H	3												E	See attached comments, Q=K/A, and reference material reviewed.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only		
103.	H	3												S	Q=K/A and reference material reviewed.
104.	H	4												S	Q=K/A and reference material reviewed.
105.	F	3					X							U	See attached comments, Q=K/A, and reference material reviewed.
106.	H	3					X							U	See attached comments, Q=K/A, and reference material reviewed.
107.	F	4												S	Q=K/A and reference material reviewed.
108.	H	2										X		U	See attached comments and reference material reviewed.
109.	H	3												S	Q=K/A and reference material reviewed.
110.	F	3												S	Q=K/A and reference material reviewed.
111.	H	3												E	See attached comments, Q=K/A, and reference material reviewed.
112.	H	3												S	Q=K/A and reference material reviewed.
113.	F	2												S	Q=K/A and reference material reviewed.
114.	H	3												S	Q=K/A and reference material reviewed.
115.	F	3												S	Q=K/A and reference material reviewed.
116.	F	2												S	Q=K/A and reference material reviewed.
117.	H	4												S	Q=K/A and reference material reviewed.
118.	H	4												S	Q=K/A and reference material reviewed.
119.	F	2												S	Q=K/A and reference material reviewed.
120.	H	3												S	Q=K/A and reference material reviewed.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		56. U/E/S	67. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q≠K/A	SRO Only		
121.	H	2												S	Q=K/A and reference material reviewed.
122.	H	3												S	Q=K/A and reference material reviewed.
123.	H	3												S	Q=K/A and reference material reviewed.
124.	H	3				X								U	See attached comments, Q=K/A, and reference material reviewed.
125.	F	2												S	Q=K/A and reference material reviewed.
126.	H	3				X								U	See attached comments, Q=K/A, and reference material reviewed.
127.	H	3				X								U	See attached comments, Q=K/A, and reference material reviewed.
128.	F	4				X								U	See attached comments, Q=K/A, and reference material reviewed.
129.	F	3												S	Q=K/A and reference material reviewed.

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">1. UNSAT₁</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Tech Spec 6.2.b.5 states that two (2) licensed operators shall be in the control room unless in COLD SHUTDOWN or REFUELING Modes and that one (1) shall be an SRO. Therefore, IAW the Tech Spec, answer "b" is also correct.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed distractor "b" to be clearly incorrect.</p>
<p align="center">4. ENHANCEMENT</p>	<p><u>NRC:</u> The distractor "d" should be bolstered with the additional statement "...from memory without the procedure at the work site..." GNP-03.01.03 simply requires the procedure be at the work site, not that it be opened and followed verbatim.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified distractor "d" to address enhancement.</p>
<p align="center">8. ENHANCEMENT</p>	<p><u>NRC:</u> GNP 8.4.1 states that the Shutdown Safety Assessment shall be completed by the on-shift STA, the STA assigned to refueling or a designated person. Nothing precludes the Refueling SRO from being the designated person.</p> <p><u>LICENSEE RESPONSE:</u> The refueling SRO is only assigned to duties in the containment. The SAA is performed in the control room. Distractors "a" and "b" were modified to address the enhancement.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">12. ENHANCEMENT</p>	<p><u>NRC:</u> Change the term “operable,” used in the correct answer and the distractors, to “operating.” N-FH-53E requires the RO to verify that one source range instrument is “operating.” The RO is not determining “operability” at that time.</p> <p><u>LICENSEE RESPONSE:</u> The licensee changed the term “operable” to “operating” to be consistent with N-FH-53E.</p>
<p align="center">14. ENHANCEMENT</p>	<p><u>NRC:</u> ALL jobs require authorization prior to exceeding the normal administrative dose limits including jobs under the auspices of an extended RWP.</p> <p><u>LICENSEE RESPONSE:</u> The licensee replaced distractor “c” with a distractor that was clearly not correct.</p>
<p align="center">20. UNSAT₂</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer “c” is also correct in that the Fire Brigade Leader could, and probably would be notified (even stated this in the explanation of answer). To preclude answer “c” from being correct, need to change the stem to ask “What Operator action shall be taken, <u>in accordance with the KNPP fire protection plan</u>, within One hour?”</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed distractor “c” and the stem such that there is only one correct answer.</p>
<p align="center">22. ENHANCEMENT</p>	<p><u>NRC:</u> This question is a MEMORY level question, not COMPREHENSION level. Emergency director responsibilities that can or cannot be delegated to another individual are independent of the “given” information.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the question designation to MEMORY level.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">23. UNSAT₃</p>	<p><u>NRC:</u> The question does not match the approved K/A. The approved K/A involves emergency procedures and the ability to perform without reference to procedures those actions that require immediate operation of system components and controls (i.e., immediate actions). The question tests the applicant's knowledge of steps required to be completed prior to transitioning out of a functional restoration procedure.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified the stem which now has a clear nexus to the K/A.</p>
<p align="center">30. UNSAT₄</p>	<p><u>NRC:</u> The question does not match the approved K/A. The approved K/A involves plant systems (CVCS) and the ability to monitor AUTOMATIC operations of the CVCS including water and boron inventory. The stem states that the CVCS system has been placed in MANUAL. Having the various pumps in AUTO does not place the CVCS in AUTO, manual action must be taken to start and/or stop makeup to the RCS.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and replaced the question with one that has a clear nexus to the K/A.</p>
<p align="center">31. ENHANCEMENT</p>	<p><u>NRC:</u> A valve can be "fully open," "fully shut," "throttled open," or "throttled shut." It's unusual to consider a valve "throttled fully open" or "throttled fully shut."</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified the stem.</p>
<p align="center">34. ENHANCEMENT</p>	<p><u>NRC:</u> The stem first asks the applicant to determine the correct operator response then requires the applicant to determine the location of the leak. This is confusing.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified the stem.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">35. ENHANCEMENT</p>	<p><u>NRC:</u> This is a MEMORY level question not COMPREHENSIVE level. The PWR design basis for the accumulators is that one accumulator will dump to the floor in a DBLOCA. This is independent of the "given" information.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the question designation to a MEMORY level.</p>
<p align="center">40. UNSAT₅</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Although the stem states that the operator "just closed" the PORV block valve, the stem should reiterate this (i.e., "What is the expected temperature...immediately upon closing the block valve?"). With no "clear" time frame established in the stem, the answer could be either "b," "c," or "d." The tailpipe temperature immediately upon closing the PORV block valve will be 230 °F but will decrease over time.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed stem to ensure the temperature is calculated at the appropriate time. This precludes distractors "c" and "d" from possibly being correct.</p>
<p align="center">44. UNSAT₆</p>	<p><u>NRC:</u> Psychometric Flaw; no correct answer. There is no correct answer. The stated correct answer, "c" refers to manually opening CI-101A and CI-101B. The answer should refer to CI-1001A and CI-1001B (caustic additive control valves).</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and corrected the error.</p>
<p align="center">46. ENHANCEMENT</p>	<p><u>NRC:</u> This is a MEMORY level question not COMPREHENSIVE level. Knowledge of the standard xenon thumbrule (3-6-9, up-down-shutdown) is all that is required to answer this.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed question designation to MEMORY level.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">48. UNSAT₇</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. To ensure answer "c" is not also correct, it should state, "The value for the out-of-service parameter <u>would be automatically displayed and is flashing.</u>"</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and replaced distractor "c" with a distractor that was clearly incorrect.</p>
<p align="center">49. ENHANCEMENT</p>	<p><u>NRC:</u> Not modified in accordance with NUREG-1021. In order for a question to be considered modified, IAW NUREG-1021, you must:</p> <ul style="list-style-type: none"> • Change at least 1 pertinent condition in the stem; and • Change at least 1 distractor. <p align="center">OR</p> <ul style="list-style-type: none"> • Change the conditions in the stem such that one of the three distractors in the original question becomes the correct answer. <p>In this case, no pertinent condition in the stem was changed.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the designation to BANK.</p>
<p align="center">52. UNSAT₈</p>	<p><u>NRC:</u> Psychometric Flaw; there is no correct answer. The listed correct answer for this question is "b" which states that the ICS pump can be secured once containment pressure is less than 4 psig and containment radiation levels are less than 2 R/hr. However, E-1, Step 13.b [RNO] directs the operator to secure the ICS pump once containment pressure is less than 4 psig and the pump has run for greater than 50 minutes.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the question to ensure the original correct answer was actually correct.</p>

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Question Number	Comment(s)
<p align="center">54. UNSAT₉</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answers "c" and "d" are also correct. What is or isn't "appropriate" should be established by station procedure, policy, tech spec, UFSAR, etc. The stem should be changed to state "Which of the following describes the appropriate method for reducing the hydrogen concentration IAW N-RBV-18C?"</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the stem to include "...in accordance with N-RBV-18C..." This will preclude distractors "c" and "d" from being correct.</p>
<p align="center">57. UNSAT₁₀</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. The question asks the operator to determine the source of SFP makeup water with the highest possible flow capacity as directed by A-SFP-21. Answer "b" was selected as the correct answer based NOT on flow rate but on getting the SFP boron concentration back to at least 2500 ppm. However, a CAUTION step in A-SFP-21 states "Ensure Tech Spec Boron Concentration is maintained in SFP." Tech Spec SFP boron concentration is 2100 ppm. Also, E-SFP-21 states that the service water system provides the highest possible flow rate to refill the SFP. With the SFP boron concentration at 2475 ppm, the service water system would be the fastest means of refilling the pool (at least temporarily).</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and replaced the question with an appropriate one.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">63. UNSAT₁₁</p>	<p><u>NRC:</u> The question does not match the approved K/A. The approved K/A involves the main feed water (MFW) system and the ability to predict the impacts of a loss of steam flow to the MFW system and <u>use procedures to correct, control, or mitigate the effects.</u> The question tests the applicant's recognition of the effect on plant parameters but <u>does not</u> involve the use of procedures.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified the question to ensure a nexus to the K/A.</p>
<p align="center">69. UNSAT₁₂</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer "b" is also correct. Nothing prohibits the use of a portable generator under the given conditions in the stem.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and replaced distractor "d" to ensure only one correct answer.</p>
<p align="center">77. ENHANCEMENT</p>	<p><u>NRC:</u> The question is simply a memory level question testing the applicant's knowledge of what will trip the 1A compressor.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the designation to MEMORY level.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">79. UNSAT₁₃</p>	<p><u>NRC:</u> Psychometric Flaw; no correct answer. The plant has had some common-cause failures of temperature rise-detectors wherein ports get plugged and the units pressurize, alarm, and actuate fire suppression systems. Other failures of the detector may or may not cause a system actuation. The answer, item "c", should state the mode of failure or else there is no correct answer. Also, this mode of failure should have been covered in an approved lesson plan.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified the question such that there is a correct answer based on the information in the stem.</p>
<p align="center">82. ENHANCEMENT</p>	<p><u>NRC:</u> This is a memory level question not comprehensive level. The given information has no bearing on the selection of the correct answer.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed changed the question designation to MEMORY level.</p>
<p align="center">83. UNSAT₁₄</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer "d" is also correct given the conditions in the stem. The questions asks for "heat removal mechanisms" not for the most efficient one.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and added the word "main" to the stem to ensure only one correct answer.</p>

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Question Number	Comment(s)
<p align="center">84.</p> <p>ENHANCEMENT</p> <p>(this was considered an enhancement rather than an unsat question since it was a licensee identified subsequent to the NRC review)</p>	<p><u>NRC:</u> Subsequent to the NRC review of the proposed exam, the licensee identified that record #84 was missing two crucial pieces of information: 1) when the event occurred and 2) the cold leg temperatures. Without this information, the question cannot be answered since the first decision box of the "Integrity" critical safety function tree requires knowledge of when the event occurred and subsequent decision boxes require knowledge of RCS cold leg temperatures.</p> <p><u>LICENSEE RESPONSE:</u> The licensee updated the question to state that 1) the vent occurred 30 minutes ago and 2) that RCS cold leg temperatures were 250 °F.</p>
<p align="center">86.</p> <p>ENHANCEMENT</p>	<p><u>NRC:</u> The is not an SRO only question. The direction to perform a shutdown comes from the operating procedure not a detailed knowledge of tech specs.</p> <p><u>LICENSEE RESPONSE:</u> The licensee understood the enhancement but decided to simply note this in the question bank for future reference.</p>
<p align="center">90.</p> <p>ENHANCEMENT</p>	<p><u>NRC:</u> The correct answer "c" states that seal package damage <u>will</u> occur. Actually, damage "may" occur in the event that a > 1°F/minute cool down is established.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed made the recommended change.</p>
<p align="center">94.</p> <p>UNSAT₁₅</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer "d" is also correct. Water hammer may result from the steam formation and collapse.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and replaced distractor "d" to make it incorrect.</p>

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Question Number	Comment(s)
<p align="center">95. ENHANCEMENT</p>	<p><u>NRC:</u> This is not an SRO only question. Simply requires system level knowledge of the reactor trip system.</p> <p><u>LICENSEE RESPONSE:</u> The licensee understood the enhancement but decided to simply note this in the question bank for future reference.</p>
<p align="center">97. ENHANCEMENT</p>	<p><u>NRC:</u> Not modified in accordance with NUREG-1021. In order for a question to be considered modified, IAW NUREG-1021, you must:</p> <ul style="list-style-type: none"> • Change at least 1 pertinent condition in the stem; and • Change at least 1 distractor. <p align="center">OR</p> <ul style="list-style-type: none"> • Change the conditions in the stem such that one of the three distractors in the original question becomes the correct answer. <p>In this case, no pertinent condition in the stem was changed.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the question designation to BANK.</p>
<p align="center">102. ENHANCEMENT</p>	<p><u>NRC:</u> The stem asks for methods to minimize leakage flow from the RCS to the ruptured SG. Terminating SI and stopping injection flow does minimize flow from the RCS to the ruptured SG. The basis document for E-3 even states this.</p> <p><u>LICENSEE RESPONSE:</u> Although the above is true, the question is asked in a specific time period wherein the RCS pressure is well above the SI pump discharge pressure therefore, AT THAT TIME, SI is not a contributor to leakage flow. However, the licensee clarified the stem.</p>

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Question Number	Comment(s)
<p align="center">105. UNSAT₁₆</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer "d" is also correct. E-AR-09, step 4.3.4 directs the operator to verify safe operation of the turbine per figure 1. Figure 1 is the same as figure 4 from N-TB-54 which was the original correct answer.</p> <p><u>LICENSEE RESPONSE:</u> The licensee changed the distractors to ensure only one correct answer.</p>
<p align="center">106. UNSAT₁₇</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. A-FW-05A states that the operator is to verify that VPL runback reduces load to < 60%. The stem does not state whether this has occurred or not. Therefore, answer "c" is not THE action the NCO takes, it is one of several.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and replaced distractor "a" to make it incorrect.</p>
<p align="center">108. UNSAT₁₈</p>	<p><u>NRC:</u> The question does not match the approved K/A. The approved K/A involves a station blackout. The question does not involve a station blackout or require knowledge of a station blackout in order to answer.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and significantly modified the question to ensure a direct nexus to the K/A.</p>
<p align="center">111. ENHANCEMENT</p>	<p><u>NRC:</u> The stem is not clear as to when the CS pump was taken OOS verses the containment fan coil unit.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and will modified the stem to clearly state the differences in time of OOS for the equipment.</p>

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Question Number	Comment(s)
<p align="center">124. UNSAT₁₉</p>	<p><u>NRC:</u> Psychometric Flaw; stem focus. Answer “c” is correct whether the applicant uses the graph for cooldown with CRDM cooling or without CRDM cooling. Little or no discrimination value since the question is just an exercise in putting dots on a graph.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the distractors to ensure the correct answer is only obtainable by using the correct graph.</p>
<p align="center">126. UNSAT₂₀</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer “b” is also correct. Both pumps operating at full flow provide 181 gpm. This will not significantly increase the depletion of the RWST (140 gpm vs. 181 gpm) and would meet the minimum required flow for decay heat removal.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the time in the event such that running an additional SI pump will significantly increase the depletion time of the RWST.</p>
<p align="center">127. UNSAT₂₁</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer “a” is also correct. The stem of the question asks “...what report(s) are required to be made to the NRC?” Answer “a” lists reports required to be made to the NRC based on the given information.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and changed the stem to state “...what are ALL of the reports...” This makes distractor “a” incorrect.</p>

COMMENTS ON KEWAUNEE WRITTEN EXAM QUESTIONS

Question Number	Comment(s)
<p align="center">128. UNSAT₂₂</p>	<p><u>NRC:</u> Psychometric Flaw; one or more distractors are partially correct. Answer "c" could also be correct if only one aux building supply and exhaust fan were running and only one SFP supply and exhaust fan were running just prior to the plant trip.</p> <p><u>LICENSEE RESPONSE:</u> The licensee agreed and modified distractors "c" and "d" to ensure that there is only one correct answer.</p>