

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			
1	H	2		X		X							-		U (S)	Definitely 'A' and possibly 'D' are not credible; this question can be answered by logic rather than knowledge of the plant.- wrote a new question
2B	H	3											-		S	
3	H	3	X					X					X		U (S)	reword stem question to "what major factor could require a more rapid cooldown than EOS-0.2A allows?" and try changing 'B' to "decreasing subcooling margin"; this may be an SRO-level question - changed distractors and stem
4B	H	3				X							-		U (S)	'A' and 'C' are weak distractors because the stem points to the Letdown system as the problem and indicates no abnormalities in the RCP Seal system. - changed two distractors
5	H	3				X							-		U (S)	not sure 'D' is credible; - changed "D" distractor
6	H	3				X							-		U (S)	'A' and 'D' do not make sense ("any leakage into containment ... would be into containment") and 'D' is not credible; reword all 4 distractors; is the first sentence of the stem really necessary? - removed first sentence of stem, modified distractors
7	H	3											-		E (S)	what does "failed as is" mean in the stem? - elaborated on failed as is
8	H	3											X		U (S)	use the same valve in both 'C' and 'D'; put blanks next to 4, 5, and 6 in the stem and number the three steps in each distractor; doesn't test the knowledge of the REASONS for Emerg. Bor. for ATWS per KA; - changed question stem and 4 selections as commented

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.
 - One or more distractors is (are) 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 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)nacceptable (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).

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9	H	3					X						-		U (S)	'A', 'C', and possibly 'D' could be considered correct (although the meaning of 'D' is unclear); replace "bad" with "ruptured" and "good" with non-ruptured; - replaced bad/good with ruptured/non-ruptured. Also created new distractors, modified others.
10	H	3											-		E (S)	what is the S/G compartment room? Eliminate stem sentence with "In the ERG's, ..."; number the two answers in each stem and separate them by semi-colons; change stem question to read "... and the minimum indicated level to be considered intact in the ERG would be ___"; change distractors to read either "5%" or "26%" as needed; - modified stem for use with semicolons (Mark preference), modified stem content to elaborate on selection of normal/adverse containment values (bracket/no bracket)
11	H	2				X							-		U (S)	'A' and 'B' are not credible since they both include mutually exclusive actions (replace "1" with "8" in both); - replaced as requested.
12B	H	2											-		E (S)	cannot find the reference to support this answer; - reference found, verified.
13	H	3											-		E (S)	change stem to "what is the condition of the TDAFW flow control valve controls in the control room?" and change 'A', 'C', and 'D' to "...are lost but control may be recovered by..." and eliminate "no actions required" from 'B'; modified stem and distractors as requested.
14B	H	3											X		U (S)	Doesn't test REASONS for EOP ACTIONS for loss of vital AC bus per KA; - found new bank question, "F" for LOK
15B	H	2											-		U (S)	Also, 'D' is not a "component"; need to see the "parent" in order to verify that this is a legitimate "modified" question; - removed word component from stem, changed to bank from modified (modified criteria not met)
16B	F	2				X			X				-	X	U (S)	procedure selection is specifically SRO-level (55.43.5); picking the correct procedure to blow down a SSW strainer is not a test-worthy topic; 'D' is not credible; - wrote new question
17B	H	3											-	X	U (S)	procedure selection is specifically SRO-level (55.43.5); rewrote stem such that question is asking for EOP entry conditions, specific to RO knowledge.
18B	H	3	X			X							-		U (S)	'C' doesn't make sense; 'A' is not credible; delete "most likely" from stem - changed stem and modified distractors.
19B	H	4											-		S	INPO Cook-1 5/21/2001;
20B	F	3					X						-		E (S)	how did the switch fail? - elaborated on switch failure
21	H	3											X		U (S)	doesn't test the REASONS for start-up termination on loss of SRNI per KA; use consistent nomenclature for NI's (NI-31 or -31); - modified question to meet KA intent, used consistent nomenclature.

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22	H	3	X			X	X					X		U (S)	distractors don't make sense and there is no correct answer; doesn't test the REASONS for EOP guidance on loss of IRNI per KA; -modified stem and distractors to include reasons for EOP guidance and make more sense.
23	H	4					X					-		U (S)	TSB reference is incorrect; the FSAR seems to indicate that subcriticality can be maintained without boron, but the TSB (3.7.16) indicates that a minimum amount of boron is required; what is the basis for assuming that "some" rad alarms will come in rather than "none"? - wrote new question
24	F	4					X					-	X	U (S)	knowledge of TS LCO required actions is SRO-level (55.43.2); there is no distinction in the TS between "personnel" and "emergency" air locks and no distinction between "electrical" and "mechanical" interlocks; -modified stem and removed TS/1 hr aspects

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25	H	3											-		S	wrote new question per previous comments on K/A match.
26	H	3											-	X	U (S)	procedure selection is SRO-level (55.43.5); would an RO be expected to know the various legs of the CSFST by memory (with no reference)? - wrote new question.
27	H	3				X							-		U (S)	correct answer needs to be reworded to more clearly agree with basis on page 24 of FRP-0.1A; 'C' and 'D' do not seem credible; - reworded stem and changed two distractors.
28	H	3	X										-	X	U (S)	procedure selection is SRO-level (55.43.5); distractors don't seem to correspond to stem question; -modified stem.
29	H	3	X										X		U (S)	add a "1" and "2" to each part of each distractor; doesn't test knowledge of LOSS or MALFUNCTION of demin. for CVCS per KA; - changed format of question, demin malfunction verified with utility: where boron is changed by more than 10ppm this is a malfunction (ie operator induced, but still a malfunction)
30	H	3											-		S	
31	F	3											-		E (S)	change 'C' from "Normal: 2-EB4-2" to "Normal: 2-EB3-2"; - changed as recommended.
32M	H	3											X	X	U (S)	change "the Unit Supervisor would:" to "the required actions are."; procedure selection is SRO-level (55.43.5); doesn't really point towards ECCS per KA; cannot tell if this is truly "modified" without parent; - modified stem, and showed Mark parent question, agreed it is modified.
33	H	2											-		S	
34B	H	3											-		S	
35B	H	3											-		S	
36B	H	4											-		S	
37B	H	3											-		E (S)	delete the first sentence of the stem; cannot tell if this is truly "modified" without parent; deleted first sentence as requested, changed to bank.
38M	H	3											-	X	U (S)	this sounds like SRO-level (55.43.2); - wrote new question.
39	F	3											-		E (S)	delete the first sentence of the stem; - as requested.
40B	H	3											-		S	
41B	H	3				X							X		U (S)	I don't think 'B' is correct; doesn't test knowledge of effects of loss of CCS on instrument readings per KA; - modified stem to include CCS, answer is correct, verified with utility.

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42B	H	3											X	X	U (S)	change "AS" to "As" in stem; this is SRO-only (55.43.5); doesn't test knowledge of EOP TERMS and DEFINITIONS related to CS per KA; - wrote a new question.

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43B	H	3											-		S	
44	H	3											-		S	
45	H	3											-		S	
46B	H	1				X							-		U (S)	too easy because 'A', 'B', and 'C' do not seem credible; - found new bank question.
47B	F	3											-		E (S)	change stem to "...following a reactor trip from 102% power."; - changed as requested.
48B	H	3											-		S	
49	H	3											-		S	
50	F	2											-		E (S)	add "only" to 'C'; - changed as requested.
51	F	2											-		S	
52B	H	2											-		S	
53B	F	3											-		S	
54	F	3	X										-		U (S)	stem is misleading by implying that there is a breaker to check when there isn't; -modified stem and selections.
55B	F	3				X							-		U (S)	'B' and 'D' are the same and cannot both be valid distractors; -changed all four selections
56	F*	3											-		E (S)	I disagree with the author's LOK; - changed LOK to F.
57	H	3											X		U (S)	doesn't test ability to monitor AUTOMATIC operations of the leakage detection system per KA; - wrote new question.
58B	H	3											-		S	
59	H	2											-		?(S)	not sure the answer is correct; fix symmetry with distractors; -modified answer and corrected symmetry as requested
60	H	3				X							-		U (S)	'A' doesn't address the question; -changed distractor "A".
61	H	2				X							-		U (S)	'C' and 'D' are not credible since the procedures don't exist; - replaced with valid procedures.
62B	F	3											X	X	U (S)	this sounds like SRO-level (55.43.2); should they know this by memory? Doesn't test knowledge of DESIGN FEATURES/INTERLOCKS per KA; - wrote new question.

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63	H	3											-		S	
64B	F	2											X		U (S)	doesn't test ability to LOCATE/OPERATE components per KA; - wrote new question.
65	F	3											-		E (S)	change stem to "...at CPSES and an alarm..."; - changed as requested
66	F	2											-		S	
67B	F	3											-		E (S)	cannot verify this is a true "modified" question without the parent;- changed to bank.
68B	H	3											-		S	
69	F	3											-		E (S)	change stem to "...than Unit 1 because it gives_____"; - changed as requested
70	H	3											-		E (S)	change stem to "...Select all the items below..." - changed as requested
71B	F	3											-		S	
72	H	3											-		E (S)	change stem to "98mrem/hr" and answer will be 'B'; changed stem to 96mr/hr, and kept correct answer "A" as written.
73	F*	3											-		E (S)	I disagree with the author's LOK; delete first sentence of stem; - changed LOK and deleted first sentence as requested.
74M	F	3											-		S	
75	H	3											X	X	U (S)	procedure selection is SRO-level (55.43.5); doesn't test ability to PERFORM IMMEDIATE ACTIONS w/o reference per KA; -changed K/A because couldn't write question on the topic and replaced with new bank question for new K/A.
76	H	3											X	X	U (S)	RO-level (55.41.7/8); what is the difference between 'A' and 'B'? Doesn't test ability to determine SIGNIFICANCE of CCP operation;
77	H	4											X	X	U (S)	RO-level (55.41.3-8); doesn't test ability to determine ACTIONS TO BE TAKEN if PZR pressure instrument fails low per KA; - wrote new question.
78	H	3											-	X	U (S)	drop a "necessary" from the stem; RO-level (55.41.10); - wrote new question.
79	H	2											-	-	E (S)	mention the procedure selection in all 4 distractors; - changed distractors.
80	H	3											-	X	U (S)	RO-level (55.41.5-8); - wrote new question.

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81	F	3										-	X	U (S)	RO-level (55.41.7/8); - wrote new question, new K/A.
82B	H	3										-	-	S	

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83	H	3							X				-	-	E (S)	any handouts? This shouldn't be from memory, but it may be just a look-up if the reference is provided; - utility approved as written.
84	F	3											-	X	U (S)	RO-level (55.41.10); - wrote new question.
85	H	3				X							-	-	U (S)	'D' is not credible; - wrote new distractor "D".
86	H	1											-	-	E (S)	should "RCP Trip/Malfunction" be in quotes for 'A' and 'C'? - modified question.
87B	H	3											-	-	E (S)	fix typo in stem; - fixed typo.
88	H	3	X				X						-	-	U (S)	unless MTC is currently positive, only one action is required; both 'A' and 'C' are correct (page 504 or TSB); - changed wording so more clear, however "A" and "C" are not both correct.
89	H	3	X										-	X	U (S)	'D' should not be bolded; stem is unclear (what is the difference between initial load shedding and further load shedding?); not sure any of the distractors are really correct (page 33 of reference); RO-level (55.41.10); - wrote new question, changed K/A.
90	H	3											-	-	S	
91	H	3				X							-	-	U (S)	'D' is not credible with fictitious title; - wrote new question, changed K/A.
92	H	3				X							-	-	U (S)	'C' and 'D' not credible with fictitious titles; - fixed question and outline.
93	H	3											-	X	U (S)	RO-level (55.41.10); establish distractor symmetry with STA-612 and "goes up" for 'B'; - wrote new question.
94	H	3											-	-	E (S)	use "CET" vice "TC" in stem; - changed to CET.
95	H	3											-	-	S	
96	H	4											-	-	E (S)	does a reference need to be provided? -no reference per utility.
97	F	4											-	-	E (S)	delete first sentence of stem; - done.
98	F	4											-	-	E (S)	reword stem to delete the first two sentences; - modified stem.
99B	H	3											-	-	S	
100B	F	2				X							X	-	U (S)	'A' is not credible; doesn't test knowledge of E-PLAN PARS per KA; -- new K/A and question.