

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	Backward	Q=K/A	SRO Only			
1	H	3	X										X		U/S	Proposed answer doesn't match reference; it looks like there is not correct answer; doesn't test "knowledge of REASONS..." REPLACED QUESTION
2	H	3	X				X								E/S	the initial conditions fail to test knowledge of the isenthalpic expansion; recommend changing to an initial pressure of ~1100 psig. FIXED
3	H	32	X					X							E/S	both A & B may be correct; try rephrasing the question to "why is rapid depress. stopped to restore at least on SG to > X%?" or replace A. REPLACED QUESTION
4	F	3	X					X							U/S	could not validate correct answer based on references – are A & B both true? REPLACED QUESTION
5	H	3		X											E/S	add "from the control room" to distractor 'A' to distinguish it from 'B'; also, eliminate the word "pump" from the KA description – that's a typo in the KA catalog. FIXED
6	H	3	X					X							E/S	proposed answer not validated by reference (no correct answer); try adding 3000 gpm to stem; FIXED
7	F	3													S	
8	F	3						X							U/S	'D' is also correct as the stem is currently worded; try a new D and/or B; REPLACED QUESTION
9	F	3													E/S	replace "as soon as possible" with "immediately" in 'A'; FIXED
10	H	2													S/S	REPLACED QUESTION

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).

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11	F	3												S	
12	H	3		X		X								E/S	Answer is cued from stem; should adjust parameters in stem and distractors eliminate cues and make distractors more credible. REPLACED QUESTION
13	H*	3					X							E/S	is C also correct? REPLACED QUESTION
14	H	2		X		X						X		U/S	Direct lookup; doesn't test "knowledge of the REASONS..." per KA. REPLACED QUESTION
15	H	2		X										U/S	Direct lookup; REPLACED QUESTION
16	F	2												E/S	Change stem to "Which of the following indications does ECA-1.2 use to ..."; SIGNIFICANTLY CHANGED
17	H	3				X								E/S	Change both A and B to "Wait until..., then block..."; FIXED
18	F*	2	X				X							E/S	Change stem to "What is the primary concern FR-H.1 is addressing with this direction?" REPLACED QUESTION
19	H*	3												S	
20	H	3		X		X	X							E/S	reword C; D says RX will remain critical, but the stem said RX subcrit. FIXED
21	H	3					X							E/S	is Tref also affected? Change C to "...", but rods will remain at 210 steps due to C-11 actuation; FIXED
22	F	3												S	REPLACED QUESTION; WHY????? ELIMINATE EXTRA "A" IN STEM;
23	F	3										X		U/S	doesn't test ability to determine/interpret vital equipment and control systems to be maintained and operated during a fire. REPLACED QUESTION
24	F*	2		X										U/S	the handout (TS 3.4.16) is confusing in that it states it applies in Modes 1-4, but the limit is defined by the SR which is only required in Mode 1; however, having the handout cues the correct answer. REPLACED QUESTION
25	F*	3												E/S	D doesn't make grammatical sense with the stem; REPLACED QUESTION
26	H	3												E/S	KA is not listed correctly on Exam test item; REPLACED QUESTION
27	H	2												S	
28	H	2												S	
29	H	2												S	
30	H	3												S	
31	H	3	X	X										E/S	typo in the stem; does ASW stand for Auxiliary Salt Water? change A to "...HCV-133 is closed." FIXED AND REPLACED 'A' AND 'D'
32	H	2		X		X								U/S	C and D are not credible; FIXED
33	H	3					X							E/S	add "only" to each of the distractors; REPLACED QUESTION

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34	H	3	X	X	X									E/S	B needs work; replace D; FIXED
35	H	3												S	
36	H	3										X		U/S	doesn't relate to "PRT temperature and pressure during PORV testing" per KA; probably need new KA REPLACED QUESTION AND KA ;
37	FH	3												S	changed LOK to H
38	H	3												E/S	add "only" to D FIXED
39	H	3												E/S	add "only" to A-D FIXED
40	H	3				X	X							E/S	need more detail in stem; FIXED
41	H	3										X		U/S	doesn't address effect of loss/malfunction of CSS on the CCS per KA; REPLACED QUESTION
42	F	3												S	REPLACED QUESTION AND KA DUE TO OVERSAMPLING OF FEEDWATER SYSTEMS; ADD "ONLY" TO A AND C
43	F	3												E/S	change B, C, and D to "...start when the expected..." FIXED
44	F	3		X										E/S	change D to "...the condenser closes" SIGNIFICANTLY CHANGED
45	H	3	X			X								U/S	question is poorly conceived and needs lots of work ("...probable cause...") REPLACED QUESTION AND KA ;
46	F	3												S	
47	F	3												E/S	eliminate "vital" from A FIXED
48	F	2												S	
49	HF	1												U/S	way too easy – rewrite; REPLACED QUESTION with one from 2005 NRC exam ;
50	F	3												E/S	eliminate TDAFWP, and add MDAFWP (2) to D; FIXED
51	H	3				X								E/S	D is not credible; add "only" to A-C, and make D include A and B and the m/u valves closed; FIXED
52	F	3										X		U/S	this question doesn't deal with a PRM per KA; REPLACED QUESTION
53	F*	2				X								E/S	IR on outline and question are incorrect (should be 2.7 vice 3.5); B is not credible FIXED
54	F	2	X									X		U/S	doesn't test knowledge of compressor power supplies adequately per KA; REPLACED QUESTION
55	H	3												S	
56	H	3	X				X							E/S	not clear why A and C are incorrect; FIXED
57	F	3					X							E/S	add "including separate sensors" to A; FIXED
58	H	3										X		U/S	doesn't test knowledge of loss/malf. of H2 Recombiner per KA; REPLACED QUESTION

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S5	H	3												S	
S6	H	1	X	X		X								U/S	direct lookup; is the re a need to “declare the battery operable” at this point (is it inop)? REPLACED QUESTION
S7	H	3				X								E/S	A and B need work for credibility; REPLACED QUESTION
S8	H	3												S/S	CLARIFIED DISTRACTOR A AND ANSWER C
S9	F*	2												E/S	poor match with KA; REPLACED QUESTION
S10	H	3												S	
S11	H	3				X								U/S	the choices and explanations do not make sense - rewrite; REPLACED QUESTION & KA
S12	H	3				X								E/S	C needs work to be credible; FIXED
S13	H	3				X								E/S	reword C to match 3.0.3 language; FIXED
S14	H	2										X		U/S	doesn't match KA – replace; REPLACED QUESTION
S15	H	3				X								E/S	how are A and B different? need new A or B; FIXED
S16	H	3											X	U/S	not SRO; why not list the procedures? REPLACED QUESTION
S17	H	1	X	X			X						X	U/S	not SRO; stem is mis-worded; direct lookup; C & D are both correct; REPLACED QUESTION
S18	F*	3										X		U/S	doesn't match KA; REPLACED QUESTION
S19	F	2					X							E/S	make the stem match the procedure wording and replace D; FIXED
S20	H	2		X									X	U/S	not SRO; direct lookup; REPLACED QUESTION
S21	F	1												U/S	too easy – need more challenging question for this topic; REPLACED QUESTION
S22	H	2												S/S	ENHANCED DISCTRACTOR D
S23	H	3		X			X							E/S	is this a direct lookup? modify to ensure not; REPLACED QUESTION
S24	H	3												S	
S25	H	3					X							E/S	distinguish C from D; FIXED
General Comments:															
1. This exam seems heavily weighted toward MFW/AFW (5 questions)															
2. The ASW should be “Auxiliary Saltwater” vice “Auxiliary Salt Water” (numerous questions)															