

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	3										OK		S	(M)
2	F	2										OK		S	(N)
3	F	3										OK		S	(N)
4	H	2										OK		S	
5	H	3		X		X						OK		U(S)	(N) The Q asks "WHAT SIGNALS CAUSED THESE FANS TO TRIP." Distractors A, B, C are signals, Distractor D is not. The composition of Distractor D provides a cue to the correct answer and needs to be re-written. <i>(Fixed)</i>
6	H	2										OK		E(S)	modify wording in distractors. <i>(Fixed)</i>
7	F	2										OK		S	
8	H	3										OK		S	2001 NRC EXAM

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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9	F	2					X					OK		E(S)	(N) Distractor C is partially correct in that while the "A" Suppression Pool Spray is not available, the "B" Suppression Pool Spray would still be available. Consider rewriting Distractor C to read "A" Suppression Pool Spray. <i>(Fixed)</i>
10	H	3		X								OK		U(S)	Q is too similar to SRO#2 on the original 2004 exam. <i>(Replaced)</i>
11	H	3										NO		U(S)	Q does not involve the ability to obtain and interpret station electrical and mechanical drawings. <i>(Replaced)</i>
12	F	2										NO		U(S)	Q does not explain and apply system limits and precautions. <i>(Replaced)</i>
13	F	2										OK		S	
14	H	2										OK		E(S)	1999 NRC EXAM; Distractor "B" needs to be reworded to read: "...until the intercept..." <i>(Fixed)</i>
15	H	3										OK		S	(N)
16	F	2										OK		S	(N)
17	F	2										OK		U(S)	(N) Repeat question from the original license exam; <i>(Replaced)</i>
18	H	3										NO		U(S)	(N) KA involves control of hydrogen in containment drywell using drywell sprays. Q involves operation of injection systems. <i>(Replaced)</i>
19	H	2	X									OK		U(S)	(N) how does spill-out at -210 come into play if level is already -125? <i>(Fixed)</i>
20	H	3										OK		S	(N)
21	F	3										OK		S	(N)
22	F	2										NO		U(S)	(N) Q does not address relief/safety valves design features and/or interlocks for manual opening of the SRV. <i>(Replaced)</i>
23	F	2				X						OK		U(S)	Distractors not credible; <i>(Replaced)</i>
24	H	3										OK		S	1999 NRC EXAM
25	F	2										OK		S	
26	F	3										OK		S	(N)
27	F	2										OK		S	(N)
28	F	3										OK		S	(N)

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29	F	2										NO		U(S)	(N)Bad KA match; <i>(Rewrote with ne-w KA)</i>
30	H	3										OK		S	(N)
31	H	3										OK		S	(N)
32	H	3										OK	X	U(S)	Q deals with TS which is contrary to CFR 55.41 requirements. <i>(CGS had a learning objective for RO's to support this question content)</i>
33	F	3										NO		U(S)	(N) Bad KA match; <i>(Rewrote)</i>
34	H	3										OK		S	(N)
35	H	3	X			X						OK		U(S)	(N) Distractor "C" is not credible because it does not provide injection into the RV. Consider "RHR-V-24B Containment Flooding" as a replacement distractor. Should the Q stem state that RHR-P2-A is not available? Based on the ABN, it appears that either "A" or "B" could be correct. <i>(Fixed)</i>
36	H	2				X						OK		U(S)	(N) Distractors "A" and "D" do not appear to be credible since neither is used for suppression pool makeup. <i>(Fixed)</i>
37	F	3		X								OK		U(S)	(N) repeat from original 2004 exam; <i>(Replaced)</i>
38	H	2										OK		S	(N)
39	H	3										OK		S	(N)
40	F	2										OK		S	(N)
41	H	2										OK		S	(N)
42	H	3										OK		S	(N)
43	H	3				X						NO	X	U(S)	(N) Delete the Attachment because it provides a direct lookup for answer determination. Change Distractor C to read like Distractor D by adding "Verify by admin mens in 1 hour that the H2 and O2 control function is maintained and..." to the beginning of the distractor. <i>(Replaced)</i>
44	H	3										NO		U(S)	(N) Needs to identify how procedures are used to accomplish the task. <i>(Replaced)</i>
45	H	3										OK		E(S)	Last sentence of Justification is incorrect - should be "IN-1" and not "IN-2" and change "250 VDC not 125 VDC to DC to say "a DC supply". <i>(Fixed)</i>
46	H	2										OK		S	
47	H	3										OK		S	(N)
48	H	2										OK		S	

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49	F	2						X				OK		U(S)	GFES Q. <i>(Replaced)</i>
50	H	2										OK	X	U(S)	(N) 2000 & 2004 NRC EXAM; SRO only; too similar to question on previous exam; <i>(Replaced)</i>
51	H	2		X								OK		U(S)	second half of all 4 distractors provides cuing; <i>(Fixed)</i>
52	F	3										OK		S	(N)
53	F	2										OK		S	1999 NRC EXAM;
54	H	3										OK		S	(N)
55	H	3										OK		E(S)	(N) Justification is incomplete. <i>(Fixed)</i>
56	H	2				X						OK		U(S)	(N) Distractor "A" is not credible. Replace w/ an ABN. <i>(Fixed)</i>
57	F	3				X						OK		U(S)	1999 NRC EXAM; B and D are not credible; <i>(Fixed)</i>
58	F	2										OK		S	(N)
59	H	3		X								OK		U(S)	Reword Distractor "B" to be consistent with the other distractors by adding "...as soon as RHR-P-2B is racked out." <i>(Fixed)</i>
60	F	3						X				OK		U(S)	(N) GFES Q <i>(Replaced)</i>
61	F	3										OK		S	(N)
62	F	2				X						OK		U(S)	(N) Distractor B is not credible as it is difficult to evacuate the DG building twice. <i>(Fixed)</i>
63	F	2				X						OK		U(S)	2002 NRC EXAM; A and C are not credible <i>(Fixed)</i>
64	F	2										OK		S	(N)
65	H	3										NO		U(S)	(N) KA involves a loss of the RCC and ability to isolate damaged portions . The Q does not address isolation - it addresses the mitigation of a leak. <i>(Replaced)</i>
66	F	3										OK		S	(N)
67	F	2										NO		U(S)	(N) Bad KA match; <i>(Replaced)</i>
68	H	3										OK		S	(N)

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69	H	2										OK		S	(N)
70	H	2										OK		S	(N)
71	H	3										NO		U(S)	(M) but original Q not provided for comparison. KA says to predict impacts on Inst Air System due to dryer & filter malfunctions and determine what procedures to use mitigate impacts. The Q does not address the use procedures. <i>(Replaced)</i>
72	H	3										OK		S	(N)
73	H	3										OK		S	(N)
74	F	3										OK		S	(N)
75	H	2				X						OK		U(S)	(N) D is not credible; <i>(Fixed)</i>
1	H	3										OK	X	S(E)	(M) 2002 <i>(this question is really a modified question from 2002 rather than a new question)</i>
2	H	3									X	OK	X	E(S)	(N) Minor editorial changes <i>(Fixed)</i>
3	H	3		X								OK	X	E(S)	(N) Delete the ATTACHMENTS as they provide a direct lookup for the answer. <i>(Fixed; edit "an" and "a" in A and B - my copy is fixed)</i>
4	H	3										OK	X	S	(N)
5	H	3										OK	X	S	(N)
6	H	3										OK	X	S	(N)
7	H	3										OK	X	S	(B)
8	H	3										OK	X	S	(B)
9	H	4										NO	NO	U(S)	(N) KA mismatch; <i>(Rewrote)</i>
10	H	3										OK	X	S	(N)
11	F	3										NO	X	U(S)	(N) KA mismatch; <i>(Rewrote)</i>
12	F	3										OK	X	S	(N)

[illegible]