

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws			5. Other		7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward		
1	F	2											CR, 41.10
2	H	3											CR, 41.10
3	F	2											CR, 41.10
4	F	2											CR, 41.7
5	H	3											CR, 41.7
6	H	3											CR, 41.5
7	H	3											CR, 41.5
8	H	3											CR, 41.7
9	F	3											CR, 41.7
10	H	3											CR, 41.4

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).
- Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.
- 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											CR, 41.4
12	H	3											CR, 41.7
13	F	3											CR, 41.7
14	H	2	E										OR, 41.5 – This question needs revised as it is close to a direct look up with the values given and the reference provided. Recommend revising to that the differential pressure is provided and one of the dp's is out of spec. The distractors would remain the same. This question was revised.
15	H	3				E							CR, 41.5 – Recommend changing "effect" to "initial effect" in the stem for clarification. This change was made.
16	F	3											CR, 41.7 – CAF on the terminology used in the distractors (depress). The terminology is consistent with that used at STP.
17	F	3											CR, 41.7
18	F	3											CR, 41.7
19	H	3											CR, 41.7
20	H	3											CR, 41.7
21	F	3											CR, 41.7
22	F	3											CR, 41.13
23	F	3											CR, 41.13
24	F	3											CR, 41.4, NRC 05
25	F	3											CR, 41.10
26	H	3											CR, 41.5, NRC 01
27	F	3											CR, 41.9
28	F	3											CR, 41.8
29	F	3											CR, 41.7
30	H	3											CR, 41.4
31	H	3											CR, 41.7

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A				SRO Only
32	H	3												S	CR, 41.7	
33	H	3												S	CR, 41.5	
34	H	3												S	CR, 41.7	
35	H	3												S	CR, 41.7	
36	F	3												S	CR, 41.4	
37	H	3												S	CR, 41.7	
38	H	3												S	CR, 41.5	
39	F	2												S	CR, 41.7	
40	H	3												S	CR, 41.7	
41	F	3												S	CR, 41.4	
42	H	3												S	CR, 41.4 – EDIT – The question indicates it was used on a previous NRC exam and the pedigree sheet indicates it is a new question. Both cannot be correct. This is a bank question.	
43	H	3												S	CR, 41.5	
44	F	3												S	CR, 41.7, NRC 99	
45	F	3												U	CR, 43.4 – This is an SRO question because it tests on the radiological hazard (see CFR 43.4. Recommend selecting another KA. After discussing with the facility, this question is ok as written.	
46	F	3												S	CR, 41.12	
47	H	2												S	CR, 41.12, NRC 95	
48	F	3												S	CR, 41.11	
49	H	3												S	CR, 41.11	
50	F	3												S	CR, 41.10	
51	H	3												S	CR, 41.7	
52	H	3												S	CR, 41.5	
53	F	2												S	CR, 41.10	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward			
54	H	3												CR, 41.5 – This question will be rewritten (Q65). This question was revised due to overlap with Q65.
55	H	3												CR, 41.7
56	H	2												CR, 41.7
57	F	2												CR, 41.6
58	H	3												CR, 41.7
59	H	4												CR, 41.7
60	H	3												CR, 41.10, NRC 07
61	F	2												CR, 41.9
62	H	3												CR, 41.7, NRC 07
63	F	3									U			CR, 41.10 – This question is a KA mismatch because it does not address the loss of containment integrity as required by the KA. This question will be rewritten. This question was revised.
64	H	2												CR, 41.10
65	H	3	E											CR, 41.5 – This question tests the same knowledge as Q 54. Q54 was rewritten.
66	H	3												CR, 41.5
67	F	3												CR, 41.10
68	F	3												CR, 41.10
69	F	3												CR, 41.10
70	F	3												CR, 41.7
71	H	3												CR, 41.7
72	F	2												CR, 41.10
73	F	3						E						CR, 41.9 – It could be argued distractor B is also correct even though it is outside the control room. B has the wrong location so it is incorrect.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			
74	F	2											N	S	CR, 41.10
75	F	2											N	S	CR, 41.10
76	F	2											N	S	CR, 43.5
77	F	3											B	S	CR, 43.5
78	H	3											B	S	CR, 43.5, NRC 07
79	H	4											N	S	CR, 43.5
80	H	3											N	S	CR, 43.5
81	H	3											B	S	CR, 43.5
82	H	3											N	S	CR, 43.5
83	H	3											N	S	CR, 43.2
84	H	3											N	S	CR, 43.5
85	H	2											N	S	CR, 43.5
86	H	2										U	N	U	OR, 41.10 – This is an RO question because it can be answered just by determining the shutdown boron concentration. This activity is an RO ability. This question is ok as written. The correct procedure has more than one boron requirement to chose from based on the given plant conditions.
87	H	3										U	N	S	CR, 41.10 – This can be answered using RO knowledge. I.e. understanding the turbine should be verified tripped and verifying the trip breakers are open will obtain the correct answer. This question is ok as written because there is also a procedure selection required.
88	H	3											N	S	CR, 43.5
89	H	3										U	N	S	CR, 41.5 – This can be answered using RO knowledge. I.e. understanding the effects of the first part of the 4 distractors will lead to the correct answer. This question will be revised. This question was rewritten.
90	H	3											N	S	CR, 43.5
91	F	3											N	S	CR, 43.5
92	H	3										U	N	U	CR, 41.5 – This can be answered using RO knowledge. I.e. understanding the

41.3 = 0	43.3 = 0
41.4 = 8	43.4 = 0
41.5 = 12	43.5 = 14
41.6 = 1	43.6 = 0
41.7 = 29	43.7 = 1
41.8 = 1	
41.9 = 3	
41.10 = 15	
41.11 = 2	
41.12 = 2	
41.13 = 2	
41.14 = 0	

5. The answer distribution is: RO / SRO
A = 18 (24%) / 7 (28%)
B = 16 (21%) / 5 (20%)
C = 21 (28%) / 6 (24%)
D = 20 (27%) / 7 (28%)

6. There are 1 / 4 questions with attachments provided.