

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
															NA	
1															NA	
2															NA	
3															NA	
4															NA	
5															NA	
6															NA	
7															NA	
8															NA	

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 B 5 (easy B difficult) rating scale (questions in the 2 B 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 AU@ ratings (e.g., how the Appendix B psychometric attributes are not being met).

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9															NA	
10															NA	
11															NA	
12															NA	
13															NA	
14															NA	
15															NA	
16															NA	
17															NA	
18															NA	
19															NA	
20															NA	
21															NA	
22															NA	
23															NA	
24															NA	
25															NA	
26															NA	
27															NA	
28															NA	
29															NA	
30															NA	
31															NA	
32															NA	

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33															NA	
34															NA	
35															NA	
36															NA	
37															NA	
38															NA	
39															NA	
40															NA	
41															NA	
42															NA	
43															NA	
44															NA	
45															NA	
46															NA	
47															NA	
48															NA	
49															NA	
50															NA	
51															NA	
52															NA	
53															NA	
54															NA	
55															NA	
56															NA	
57															NA	

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58															NA	
59															NA	
60															NA	
61															NA	
62															NA	
63															NA	
64															NA	
65															NA	
66															NA	
67															NA	
68															NA	
69															NA	
70															NA	
71															NA	
72															NA	
73															NA	
74															NA	
75															NA	
76	H	3												N	S	A, OR, 43.5
77	H	3												N	S	B, CR, 43.5
78	H	3											U	M	U S	C, CR, 41.7 – This is an RO question because it is a systems question. The second part of the question is from the TS bases and is therefore an SRO question. The justification will be updated reflecting this. The basis for this question was revised.
79	H	3												N	S	B, OR, 43.5
80	H	3					E							N	E	A, OR, 43.2 -

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81	H	3												N	E S	A, OR, 43.2 - All the distractors could be argued to be correct. Suggest changing the stem to read, "In order to remain in compliance with the technical specifications, the reactor must be...". This will be revised. This question was revised.
82	F	3										U		N	U S	D, CR, 43.5 – This is a KA mismatch because it does not address the magnitude of the radioactive release. Possibly rephrase part 2 of the question to ask for the reason for the delay instead of putting it in the stem. This question will be revised. This question was revised.
83	H	4												N	S	D, OR, 43.5
84	H	2												B	S	B, CR, 43.5, NRC (2007)
85	H	3												N	S	A, CR, 43.5
86	F	3				E								N	E S	B, CR, 43.5 – Some of the 3.3.1 TS are greater than 72 hours so would not meet the off-site notification requirement. Need to clarify so it is clear the action is less than 72 hours. This question will be revised. This question was revised.
87	H	3												N	S	B, CR, 43.5
88	H	3					E							M	E S	A, OR, 43.2 – This question could be argued to have no correct answers since TS 3.4.15.B has other required/allowable actions. Also, distractor B could be argued as correct since SR 3.4.13 is a periodic surveillance required by TS 3.4.13 – therefore distractor B is also correct. This question will be revised. This question was revised.
89	H	3												N	S	C, CR, 43.5
90	H	3												M	S	D, CR, 43.5
91	F	2												M	E S	A, CR, 43.5 – Not clear on why restoring the accumulators is a credible distractor. CAF This question will be revised. This question was revised.

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92	F	2	E			E								N	E S	C, CR, 43.7 – This question is confusing, the stem refers to the personnel air lock and the equipment hatch. The distractors only refer to the equipment hatch. Second, distractors B and D refer to restoring rad monitors to service and the stem doesn't say there are out of service. Is there something we are missing here? This question will be revised. This question was revised.
93	H	2				U								N	U S	A, OR, 43.5 – The first part of the question is GFES knowledge and the procedure selection is intuitively obvious. Correct procedure is pretty obvious since QPTR limits are not even required until >50%. Why is the reference required to answer this question? This question will be revised. This question was revised.
94	F	3												B	S	C, CR, 43.7
95	F	3												N	S	C, CR, 43.6
96	F	3												B	S	D, CR, 43.3
97	H	3												N	S	A, CR, 43.2
98	H	3										U		B	U S	D, CR, 43.7 – This is a good question except this a Tier 3 KA which means it is required to be generic. This question is not generic so it is a KA mismatch. This question will be revised. This question was revised.
99	F	3												N	S	A, CR, 43.5
100	F	3												B	S	B, CR, 43.1, NRC 2005
RO TOTALS:			B= NA M= NA N= NA					F= NA H= NA				E= NA U= NA		Additional Notes:		
SRO TOTALS:			B= 5 (20%) M= 5 (20%) N= 15 (60%)					F= 9 (36%) H= 16 (64%)				E= 4 U= 3		Additional Notes:		
GENERAL COMMENTS:																

1. Bank / Mod / New questions are indicated in their respective column field above.
2. Chief Examiner comments are indicated in *blue where multiple comments exist, otherwise they are in black.*
3. Average difficulty is NA on the RO exam and 2.88 on the SRO exam.
4. The 10CFR55.41/43 distribution is: SRO
41.1 = 0 43.1 = 1
41.2 = 0 43.2 = 4
41.3 = 0 43.3 = 1
41.4 = 0 43.4 = 0
41.5 = 0 43.5 = 14
41.6 = 0 43.6 = 1
41.7 = 1 43.7 = 3
41.8 = 0
41.9 = 0
41.10 = 0
41.11 = 0
41.12 = 0
41.13 = 0
41.14 = 0
5. The answer distribution is: RO / SRO
A = NA / 9 (36%)
B = NA / 6 (24%)
C = NA / 5 (20%)
D = NA / 5 (20%)
6. There are 7 questions with attachments provided.