

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		
1B	H	2												E	B - 7, CR, N, LOD is 2 vice 3.
2B	H	3												S	B - 5, CR, N, EOP.
3M	H	3												S	D - 10, CR, N, EOP.
4M	H	3												S	C - 3, CR, N, EOP.
5B	H	2												S	D - 7, CR, N.
6B	F	3												S	A - 8, CR, N.
7M	H	2											U	U	B - 43.2, CR, N. The question is an LCO application of CCW in Mode 4. While this matches the KA, it is a 10CFR55.43.2 topic and is therefore an SRO level question. It is an application question because it involves more than one TS variable (CCW Operability and Mode restrictions). <b>Will document in the question data sheet that this information is required for an RO.</b>
8N	H	3												S	B - 7, CR, N.
9N	F	3										U		U	B - 10, CR, N, EOP. The KA for this question involves the operational implication of SGTR and natural circulation. The question is focused on SGTR and the effects on PZR level during depressurization. Also, this question is a 10CFR55.41.10 vice 41.8. <b>Will revise the question to enhance the fact that the plant is in natural circulation.</b>

## 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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10N	F	2												S	D - 7, CR, N, EOP.
11B	F	3					E							E	A - 10, CR, N, EOP. The indicated answer is technically incorrect. The correct answer should read "Prevent SG dryout" or "Maintain SG components in a wet condition" and not "Prevent SG tube dryout." It could be argued there is no correct answer as written. <b>Will delete the word "tube".</b>
12M	F	3					U							U	A - 10, CR, N, EOP. Both distractors A and B could be argued to be correct and this argument is supported by the EOP bases document provided. <b>Will replace distractor "B".</b>
13N	H	3				E								S	D - 7, CR, N
14N	H	3												S	A - 7, CR, N.
15M	F	2/E												E	A - 7, CR, N. LOD is 2 vice 3 and should be 10CFR55.41.7 vice 41.5.
16M	H	3												S	C - 10, CR, N.
17B	F	2				U								U	C - 10, CR, N, EOP. Distractor d. is not credible. <b>Will rewrite distractor d.</b>
18M	H	3	E											E	C - 10, OR, N, EOP. Change bullet 8 in stem to read, "The crew has determined ECCS cannot be terminated due to inadequate RCS subcooling and are in the process of establishing minimum ECCS flow." <b>Agree, will revise.</b>
19M	H	3												S	D - 5, OR, N.
20M	H	3												S	B - 7, CR, N.
21B	F	2												S	B - 11, CR, N.
22M	F	2												S	D - 11, CR, N.
23B	H	3												S	A - 10, CR, N, EOP.
24M	H	3												S	A - 10, CR, N, EOP.
25M	H	3												S	C - 10, CR, N, EOP.
26N	H/E	3												E	D - 10, CR, N, EOP. LOK should be H vice F.
27B	H	3												S	C - 10, CR, N, EOP.
28B	H	3												S	D - 5, CR, N. Should be 10CFR55.41.5 vice 41.7.
29M	H	3												S	D - 5, CR, N.
30B	F	3			U									U	C - 7, CR, N. Distractors are true/false statements. <b>Agree - will rewrite Question.</b>

31N	F	3												S	C - 7, CR, N. LOD is 3 vice 4.
32N	H	3												S	C - 7, CR, N, EOP. LOD is 3 vice 4.
33N	F	3												S	D - 5, OR, N.
34M	F	2		U										U	B - 5, CR, N. The way the third bullet in the stem is written, it cues the correct answer. This statement should read, "CCW Pump 1-01 is still operating." and another bullet that states, "Ccw Heat Exchanger 1-01 outlet temperature is 125 degrees." <b>Agree, will revise.</b>
35M	F	2							U			U		U	C - 10, CR, N. The answer comes from a note from the operating procedure (not a caution or limitation). Typically, candidates are not memory tested on notes. In addition, the procedure states this "...step may be required...". LOD is 2 vice 3.
36N	H	3												S	B - 7, CR, N.
37N	H	3												S	B - 5, CR, N
38M	H	3												S	C - 7, CR, N.
39B	F	2												S	C - 7, CR, N.
40N	F	2												S	C - 5, CR, N.
41M	H	3												S	B - 7, CR, N
42M	F	2												S	C - 7, CR, N.
42N	H	3												S	A - 7, CR, N.
44N	H	3												S	D - 5, CR, N
45M	F	3												S	B - 7, CR, N.
46N	H	3												S	D - 7, CR, N.
47N	F	3												S	A - 10, CR, N.
48N	H	3												S	C - 7, CR, N.
49N	H	3												S	D - 7, CR, N.
50M	F	2												S	B - 10, CR, N.
51M	H	3												S	A - 7, CR, N. The KA is focused on the automatic load sequencer for a blackout (Mode I or III). The question is written on the operation of the undervoltage sequencer in Mode II (non-blackout). Does the question need to be written with the sequencer in Mode I or Mode III? <b>No, the terminology is correct and no changes are necessary.</b>
52M	F	2												S	C - 11, CR, N.
53M	F	2										U		U	A - 7, CR, N. This is an A2 KA which requires the question to test the impact of the malfunction and the mitigation strategy. This question does not test the impact part of the KA. <b>Agree, will revise.</b>

[illegible]

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67B	F	2												S	D - 10, CR, N.
68B	F	2												S	A - 10, CR, N.
69N	H	3												S	A - 10, CR, N.
70N	F	3												S	C - 10, CR, N.
71N	H	2												S	C -12, CR, N.
72N	F	3												S	A - 10, CR, N.
73N	F	2												S	D - 10, CR, N.
74N	H	3												S	D - 10, CR, N.
75N	F	2												S	A -10, CR, N.

<b>RO</b> 15 B 26 M 28 N	43 H 57%  32 F 43%	2.65	0	1	1	1	2		1	0	0	6	1	12 U 6 E 57 S	<b>RO TOTALS</b>  Answer Distribution: A = 18    Open Reference = 3 B = 16    Previous NRC Q's = 0 C = 21 D = 20  10CFR55.41 Distribution 41.1 = 0 41.2 = 0 41.3 = 1 41.4 = 0 41.5 = 14 41.6 = 0 41.7 = 29 41.8 = 1 41.9 = 0 41.10 = 25 41.11 = 3 41.12 = 1
															<b><u>GENERAL COMMENTS:</u></b> 1. The exam questions are generally well written and focused on the KA's. 2. All metrics are within those permitted by NUREG 1021, Rev 9.
															<b><u>NOTE:</u></b> Bank questions are indicated by B; Modified are indicated by M; New questions are indicated by N.