

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	Backward	Q=K/A	SRO Only			
1	H	3										X		N	S	
2	H	3										X		N	S	
3	H	3.5										X		N	S	
4	H	2.5										X		N	S	
5	H	3										X		B	E	What causes alarms? Could a charging line leak cause both alarms.
6	F	3										X		M	E	Reword to ask what is system response and why. Currently asking why the interlocks are defeated does not test knowledge of reasons for isolation of RHR piping prior to pressure increase.
7	H	2.5										X		M	S	
8	F	3										X		N	S	

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9	H	3					A						X		N	U	Possible 2 correct answers. "A" could be argued to be correct based on TS bases states MSLI provides protection Rapid isolation of the steam lines will limit the steam break accident to the blowdown from one steam generator at most. Protection could mean mitigates. Suggest terminates instead of mitigates in A.
10	H	3											X		N	S	
11	H	3											X		B	E	Give range of Thot and Tcold instead of using approximate. Also if trip happened from 100% power and natural circulation not established, then primary temperature and pressure would not be stable.
12	F	2.5					A						X		N	U	"A" possibly correct based on 20 M-36.1.C lists step 6 at 40 seconds, which are the last loads to sequence on. Make the incorrect answers incorrect by picking a different range.
13	H	3											X		N	S	
14	F	2											X		B	S	
15	F	3											X		N	S	
16	F	3				C,D							X		N	U	C & D are not plausible. Spent pool area radiation would not be rising due to a LOCA.

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17	H	2.5										X		B	S	
18	F	3										X		B	S	
19	H	3.5										X		N	E	Suggest rewording "A" and "C". Total amount of reactivity added due to "a" given change in power.
20	F	3										X		B	S	
21	H	3										X		N	S	
22	F	2.5										X		N	S	
23	H	1										X		B	U	Reference makes LOD low. Remove reference would make acceptable.
24	H	3										X		N	E	Part of explanation is in stem. Remove.

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25	H	3										X		N	E	Appears SRO level. Change "D" why portion of question. Suggest "because minimizing subcooling to minimize primary to secondary leakage has higher priority".
26	H	2.5										X		B	S	
27	F	2.5										X		B	S	
28	F	2										X		B	S	
29	H	3										X		B	S	
30	F	2.5										X		M	S	
31	H	2.5				D						X		M	S	
32	H	3										X		M	U	Remove reference. Not enough information in stem to determine method of failure and therefore whether temperature will continue to drop.

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33	F	3											X		M	S	
34	F	3											X		M	S	
35	H	3											X		M	S	
36	F	3											X		B	S	
37	H	2											X		N	E	Low level of difficulty. Include how failure affects PORV operability.
38	H	3.5											X		N	S	
39	F	3											X		N	S	
40	H	3											X		M	S	

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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41	F	3											X		B	S	
42	F	3											X		N	S	
43	F	3											X		N	S	
44	H	2											X		M	S	
45	H	2											X		M	S	
46	H	3.5											X		N	S	
47	H	3											X		M	E	"A" and "B" is a subset of "C and "D". Add that KVAR is stable to A & B.
48	H	2											X		B	S	

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5. 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).
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8. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

