

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	Backward	Q=K/A	SRO Only			
1	H	2											-		S	
2B	H	1		X										-	U	W3 2003 NRC; including the "HPSI Throttle Criteria" as a handout clearly cues the correct answer, and also makes distractor D not credible; reference was not provided when previously administered on NRC 2003 exam.
3	F	3												-	S	
4B	H	3												-	S	
5	F	3											X		U	doesn't test knowledge of "REASONS for ensuring proper S/G levels for nat. circ. for RCP malfunctions" per K/A.
6B	H	2		X										-	U	including the handout graph immediately cues that distractors C and D are not credible since they are not related to "minimum operating level" as indicated on the graph.
7B*	H	2											X		U	question was claimed as "modified", but was not sufficiently changed from parent to be called "modified - must call it "bank;" doesn't match the K/A at all.
8B	H	3											X		U	add "CCW" to the 5 <sup>th</sup> and 6 <sup>th</sup> bullets in the stem for clarity; the proposed student handout seems irrelevant to the question; doesn't test ability to "diagnose and recognize trends" using control room reference material per K/A
9B	H	3												-	S	
10B	H	3												-	E	change distractor 'D' to "DRTS and EFAS-2 should have..."

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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11M	H	2					X						-	X	U	this is not RO license level (it is 55.43.b.2); it is not clear whether any answer is correct (TS3.4.5.2 only requires shutdown if leakage cannot be reduced within 4 hours);
12	F	2											-		S	
13	H	2											-		S	
14B	F	3											-		S	
15B	H	3											-		S	
16B*	F	3											-		S	W3 2002 NRC: question is insufficiently changed from original to be called "modified" as submitted by the author - must be called "bank."
17	H	3											-		S	
18B	H	3											-		S	
19	H												-		S	
20B	F	3											-		S	
21M	H	3											X		U	doesn't test knowledge of REASONS for NORMAL OPERATING PRECAUTIONS to preclude/minimize SGTR per K/A.
22	F	3											-		E	change stem units to 'inches Hg/minute'
23B	F	2											-		S	
24	F	3											-		S	
25B	F	3											-		S	
26	H	3											-		E	comments should say "Provide...Appendix 2 Attachment 2-A..."
27	F	3											-		S	
28B	F	3											-		S	
29	H	3											-		S	
30B	H	3											-		S	
31B	H	3											-		S	
32B	F	3					X						-		U	distractor 'D' is not credible.

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33M	H	3											-	X	U	not RO license level (more like 55.43.b.2)
34	F	3											-		S	
35M	H	3											-		S	
36	H	2				X							-		U	distractor 'A' is not credible.
37M	H	3											-		S	
38B*	H	3											-		E	question not sufficiently changed to be called "modified" - must be "bank"
39M	H	3											-		S	
40	F	3											-		S	
41	H	3											-		S	
42M	H	3											-		E	replace "indicates closed" with "is closed" in 'B' and 'D'.
43M	H	3											-		E	should "bus B1" actually read "bus 1B" in the stem?
44B	F	2											-		S	
45B	H	3											-		S	
46	H	3											X		U	doesn't test knowledge of EFAS interlocs with blowdown/sampling isolations per K/A.
47B	F	3											X		U	change stem to "...procedure, and has secured all..."; doesn't test knowledge of symptom-based EOP mitigation strategies regarding EFW per K/A.
48B	F	2											X		U	doesn't test ability to predict the impact of and follow procedures in response to paralleling out of phase per K/A.
49B	F	3											-		E	change 'D' to "...charger startup, a phase fail light is expected and must be manually reset."
50B	F	2											-		S	
51	F	2											X		U	doesn't test knowledge of operational implications of radiation theory on PRM system per K/A
52	F	3											-		S	

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53	H	2											-		S	
54	H	1													U	answer is exceedingly obvious
55B*	F	3													E	almost identical to question #25 of W3 2003 NRC; not sufficiently changed to be called "modified" - must be "bank"
56	F*	3													S	I disagree with the author's LOK;
57	F	3													S	
58M	H	2				X									U	set stem at 35% power vice 55%, and then choose distractors based on Th, and Tc, as well as ~560 deg F.
59B*	H	3					X								U	W3 2002 & 2003 NRC; question not sufficiently changed to be called "modified" - must be "bank" having appeared on the previous 2 NRC exams, this question should be replaced.
60B	H	3													S	
61	H	3													S	
62B	F	3													S	
63	H	3				X									U	distractors 'C' and 'D' are not credible.
64B	F	1											X		U	answer is obvious; doesn't test knowledge of ARM features related to fuel building isolation per K/A.
65B	F	3													S	
66B*	F	2				X									U	W3 2003 NRC; question not sufficiently changed to be called "modified" - must be "bank"; distractor 'A' is not credible.
67	F	2													S	
68	H	2													S	
69B	F	3													S	
70	H	2													S	
71B	F	2													S	
72	H*	3													S	I disagree with author's LOK rating.
73B	H*	3													S	I disagree with author's LOK rating;

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74B	F	2											-		S	
75	H*	3											-		S	
76B	H	4											-	-	S	
77	H	3		X									-	-	S	
78	H	3											-	-	S	
79	H	3											-	-	E	eliminate comma in first sentence of stem; use semi-colons to separate the two halves of the answer in each choice.
80	F	3											-	-	S	
81M	H	3											-	-	S	
82	H	3		X									-	-	U	meaning of 2 <sup>nd</sup> sentence in stem is unclear; should capitalize entire title of Att. 4 in stem;; answer is cued by handout Att. 4; Change "with" in each distractor to "within";
83B	F	3											-	-	S	
84	H	3											-	-	S	
85	H	3											-	-	S	
86	H	3											-	-	E	this is not, as indicated in the submittal, related to 55.43.b.3 - maybe it is 55.43.b.5;
87B*	H	2											-	-	S	question not sufficiently changed to be called "modified" - must be "bank"
88B*	H	3											-	-	S	question not sufficiently changed to be called "modified" - must be "bank";
89	H	2											-	-	S	
90	H	3											-	-	S	
91	H	2											-	-	S	
92B	H	2											-	X	U	not SRO-only (this is 55.41.b.13)

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93M	F	1										-	-	U	answer is too obvious.
94	F	2										-	-	S	
95	F	2										-	X	U	not SRO-only (this is 55.43.2)
96	H	3										-	-	S	
97	H	2										-	-	S	
98	F	3										-	-	S	
99B	H	3										-	-	S	
100B	H	3										-	-	S	