

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			
37	H	3												B	S	A, CR, 41.7
33	H	4												N	S	D, CR, 41.6
5	F	2												B	E	D, CR, 41.7 – change stem to read IA pressure decreases to 95 psig, not "below 100 psig" otherwise all could be argued to be correct. <b>DONE</b>
49	H	3												B	S	A, CR, 41.7
52	F	3												B	E	A, CR, 41.7 – Change "B" to 3 psig for more plausibility. <b>DONE</b>
51	H	3												B	E	C, CR, 41.7 – remove word "is" from "D" <b>DONE</b>
22	F	3												N	S	C, CR, 41.7
8	H	3												N	S	D, CR, 41.4
30	F	3			X									B	U/S	D, CR, 41.8 – This question is U because the distractors are True / False statements <b>REPLACED QUESTION.</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.
  - 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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70	F	2												N	S	C, CR, 41.10
64	H	3												B	E	B, CR, 41.7 – explanation "B" doesn't explain why answer is correct
2	F	3												B	S	A, CR, 41.10
53	H	3												B	S	D, CR, 41.7
25	H	3												B	S	C, CR, 41.10
6	H	3				X								N	E	B, CR, 41.7 – how credible is distractor "A?" <b>REVISED</b>
68	H	3												B	S	D, CR, 41.5
41	F	3												N	S	C, CR, 41.11
42	F	2												N	S	C, CR, 41.11
75	H	3												N	E	C, <b>OR</b> , 43.5
47	H	3												N	S	D, CR, 41.5
43	F	3												N	S	B, CR, 41.11
14	H	3												N	S	D, CR, 41.7
16	H	3												N	S	D, CR, 41.7
24	H	3												N	S	A, CR, 41.5
3	F	2												N	S	D, CR, 41.8
50	H	3												N	S	A, CR, 41.6
9	H	3												N	S	B, CR, 41.10
4	H	3												N	S	C, CR, 41.14
65	H	3												N	S	B, CR, 41.10
54	F	3												N	E	B, CR, 41.5
18	F	2										X		N	U/S	D, CR, 41.10 – how does question test knowledge of system setpoints, interlocks and automatic actions? <b>REPLACED QUESTION</b>
34	F	3												N	S	B, CR, 41.4
35	F	3												N	S	A, CR, 41.8

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29	F	2												N	E	A, CR, 41.7 – Explanation A doesn't match answer A. <b>REVISED EXPLANATION "A"</b>
56	H	3												N	S	D, CR, 41.4
59	H	3												N	S	B, CR, 41.5
60	H	3										X		N	U/S	B, CR, 41.7 – KA specifies Main Steam pressure, not Tave. <b>REPLACED QUESTION</b>
45	H	3												N	S	B, CR, 41.11
38	H	3												N	S	D, CR, 41.7
69	F	3												N	S	D, CR, 41.12
61	H	2												N	S	C, CR, 41.7
62	F	3												N	S	C, CR, 41.10
1	F	2												N	S	D, CR, 41.10
67	F	2												N	E	D, CR, 41.10 – explanations for "B," "C" and "D" are not complete. <b>REVISED</b>
57	F	3												N	E	D, CR, 41.10 – add to stem that applicant should consider each individually <b>DONE</b>
66	H	3												N	E	A, CR, 41.12 – distractors use iodine/radon but explanations use iodine/krypton? <b>FIXED</b>
63	F	3												N	S	C, CR, 41.10
72	F	3												N	S	D, CR, 41.6
36	H	2												N	S	C, CR, 41.7
44	F	3												N	S	D, CR, 41.11
55	H	3												N	S	C, CR, 41.10
17	H	3		X										N	E	D, CR, 41.5 – 2 of 4 distractors have correct leak location – may provide cueing. <b>REVISED DISTRACTOR "C"</b>
73	F	3												N	E	C, CR, 41.8 – distractor "B" states 200 gpm but explanation for "B" states 240 gpm. <b>FIXED</b>
48	H	3												N	S	B, CR, 41.7
28	F	4												N	S	D, CR, 41.10
74	F	3												N	S	C, CR, 41.10

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
11	H	3												N	S	B, CR, 41.5
19	F	3												N	S	A, CR, 41.10
32	H	3												N	S	C, CR, 41.7
39	H	3												N	S	A, CR, 41.7
40	F	3												N	E	D, CR, 41.10 – in distractor "A" – change "plant control" to "Main Feedwater control." <b>DONE</b>
20	H	3												N	E	A, CR, 41.5 – questions states "expected plant response" – should ask appropriate action and reason why. <b>REVISED</b>
13	H	3												N	S	B, CR, 41.5
12	F	3												N	S	C, CR, 41.5
27	F	3												N	S	C, CR, 41.10
46	H	3												N	S	A, CR, 41.10
7	H	3												N	S	D, CR, 41.8
15	H	3												N	S	D,, CR, 41.7
21	H	2												N	S	C, CR, 41.14
23	H	3												N	S	D, CR, 41.5
26	F	3												N	S	C, CR, 41.10
10	H	3												N	S	D, CR, 41.7
58	F	3												N	S	D, CR, 41.6
31	F	3												N	S	A, CR, 41.7
71	F	2												N	S	A, CR, 41.10
94	F	3												B	E	C, CR, 43.7: Answer at bottom of page doesn't match question. <b>FIXED</b>
96	F	3												B	S	B, CR, 43.3
83	H	2												N	S	C, CR, 43.5
85	H	3												N	S	C, <b>OR</b> , 43.5
87	H	3												N	E	D, CR, 43.5

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90	H	3												N	E	D, CR, 43.5
92	H	3												N	E	B, CR, 43.5 - explanations should address different power supplies to SFP pumps. <b>DONE</b>
77	H	2												N	S	C, <b>OR</b> , 43.5
95	F	2												N	S	D, CR, 43.1
89	H	3												N	S	D, <b>OR</b> , 43.2
100	F	3												N	S	C, CR, 43.5
99	F	2												N	S	D, CR, 43.5
97	F	2												N	S	B, CR, 43.5
84	H	2												N	S	D, <b>OR</b> , 43.2
82	H	2												N	E	B, <b>OR</b> , 43.2 - Remove reference. Should be knowledge from memory. <b>DONE</b>
79	H	3												N	S	B, CR, 43.5
86	H	3												N	E	C, CR, 43.5 – explanations for "A" and "B" don't match distracters. <b>FIXED</b>
93	H	3												N	E	A, CR, 43.5
78	H	3												N	E	C, <b>OR</b> , 43.5 – Reword stem/distractors to remove "The existing emergency classification is" <b>DONE</b>
81	F	3												N	S	A, CR, 43.5
80	H	3												N	S	C, <b>OR</b> , 43.5
76	F	3												N	S	C, CR, 43.5
88	H	3												N	E	B, CR, 43.5 – change "Fails" to "Fail" <b>DONE</b>
91	H	3												N	E	A, CR, 43.5 – Stem has Tave with LOOP? <b>CHANGED TO TCOLD</b>
98	H	3												N	S	D, CR, 43.5

<b>RO TOTALS:</b>	B= 11 M= 00 N= 64	E= 15 U= 3 S = 57	Additional Notes:
<b>SRO TOTALS:</b>	B= 02 M= 00 N= 23	E= 10 U= 0 S = 15	Additional Notes:
<b><u>GENERAL COMMENTS:</u></b>			
1. Bank questions are indicated by <b>B</b> ; Modified are indicated by <b>M</b> ; New questions are indicated by <b>N</b> .			
2. Chief Examiner comments are indicated in <i>blue</i> .			