

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			
1	H	2												B	S	NOTE: Change DROPPING to LOWERING thru out exam
2	H	2	X											M	E	Delete LHSI from B for parallelism
3	F	2												B	S	
4	H	3												N	S	
5	H	3	X											N	E	Replace "Mode 5" with RCS press & temp. Add AOP2.10.1 to B
6	H	2	X											B	E	Add PORV response as 3 <sup>rd</sup> response.
7	H	2												N	S	
8	F	1	X											N	U	Re-write / restructure Q to increase discriminatory value

## 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).

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			
9	H	2	X											N	E	Replace 1. To increase discriminatory value
10	H	2												N	S	
11	H	2												N	S	
12	H	3												N	S	
13	H	3	X											N	E	Delete "is acknowledged" from 1 <sup>st</sup> circled bullet
14	F	2				C								N	E	Replace C with ASDV
15	H	3												N	S	
16	F	2				D								N	E	Replace D with aux building sump level decreasing. Highlight IAW.
17	H	2												B	S	
18	H	3	X											B	E	Change RWST level to 29 inches.
19	F	3												N	S	
20	F	2										X		N	U	K/A is vague. Reselect K/A
21	F	2				A								B	E	Make distractor A Halon only.
22	F	3												N	S	
23	F	3				A								N	E	Modify A
24	F	2	X											N	U	Provide RCP status in stem and modify A&C
25	F	2				D								B	E	Replace D (PZR) with PZR surge line welds.
26	H	2	X											N	E	Provide breaker position vs stating LOOP. Make C/D rate 20 F/hr.
27	H	2												B	S	
28	H	3												N	S	

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			
29	H	3	X											N	E	Specify that both units trip.
30	H	2												N	S	
31	H	3	X											N	E	Provide multiple figures to avoid DLU. Delete 3 <sup>rd</sup> part.
32	H	3	X				D							N	U	Delete "Mode 4." SI actuation could make D correct.
33	F	3												N	S	
34	H	2												N	S	
35	H	1												N	U	Tests same concept as Q3 – replace.
36	H	2				C								N	E	Change C to have B/U heaters OFF.
37	H	2												N	S	
38	H	3												B	S	
39	H	3												N	S	
40	F	1												N	U	Restructure to make more discriminating
41	F	2	X											N	E	Remove "ADMINISTRATIVE" from stem.
42	H	3	X											B	E	Need to state "NSA" wrt header alignment?
43	F	2				B								B	E	Change B to Less AFW flow.
44	H	2												B	S	
45	F	2				A,B,D								B	U	Why plausible for grid voltage to rise? Replace/restructure
46	H	3	X											N	E	Change stem to imply NI-41 is still energized.
47	H	3												N	S	
48	F	3												N	S	

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			
49	H	2				A,B								B	E	Plausible to think EDG would trip? Add non emergency EDG trip.
50	H	3				A								N	E	Replace A
51	H	3												N	S	
52	H	2												N	S	
53	F	2												N	S	
54	H	1												N	U	No CIB needed. Make applicant consider Phase A/B actuation.
55	F	2	X			A								N	E	Change distractor A and modify D
56	F	2												N	S	
57	F	3												N	S	
58	F	2	X											N	E	Channel vs channels. Delete "for control and protection" in D.
59	H	2												B	S	
60	H	3				D								N	E	Modify D to parallel choice A.
61	F	3												N	S	
62	F	2	X											N	E	Make separate bullet for "defeated". Add impact on fuel movement.
63	F	2	X											N	E	Remove 3 <sup>rd</sup> bullet.
64	F	2												N	S	
65	H	2	X											N	E	Change to BOL and make D the correct answer.
66	F	2	X											N	E	Clarify that Filenet is available & replace two days with week in D.
67	F	2	X											N	E	Add the directing of operators to disctractors
68	H	1												N	U	Choose from among systems how to verify alarms. Modify Q.

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			
69	H	2										X		N	U	Track TS vs entering TS. Re-write/ replace Q.
70	H	2												N	S	
71	F	2												N	S	
72	F	1							X					B	U	Replace with emergency dose knowledge
73	F	3												N	S	
74	H	3												N	S	
75	F	2				A,C								N	U	Conditions in A&C degrade plant therefore not plausible. Replace.
76	H	4												N	S	
77	H	3	X											N	E	Typo in first sentence – add "occurred"
78	H	2	X											N	E	Add "as soon as" to B&D.
79	H	3	X											N	E	Remove "Mode 3" and provide RCS P&T.
80	H	3												N	S	
81	H	3												N	S	
82	H	2											X	N	U	Answerable by systems knowledge and AOP purpose. Modify Q.
83	H	2	X											N	E	Add PSMS & DRMS to bullets as appropriate.
84	H	2	X											N	E	SG pressure should be higher.
85	H	4	X											N	E	Delete ( ) phrases and last part of question
86	H	3	X											N	E	Provide press & temp vs "Mode 4.

