

11 UNSAT Q QUESTIONS

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.	8.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
<p>Instructions</p> <p>[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <p>10. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.</p> <p>11. 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).</p> <p>12. Check the appropriate box if a psychometric flaw is identified:</p> <ul style="list-style-type: none"> • 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). <p>4. Check the appropriate box if a job content error is identified:</p> <ul style="list-style-type: none"> • 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. <p>5. <u>Check questions that are sampled</u> for conformance with the approved K/A and those that are <i>designated SRO-only</i> (K/A and license level mismatches are unacceptable).</p> <p>6. Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.</p> <p>7. 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?</p> <p>8. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).</p>																

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Written Examination Review Worksheet

Form ES-401-9

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.	8.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
1	h	2												N	s	h, not f Change incorporated
2	h	2				X								N	E	1) "A" doesn't seem plausible if not cooled by CCW explain that thermal barrier is at least cooled by CCW in explanation . 2) How about revising "B" to "Trip Rx... and RCPs since the MAP C-3-2 procedure states trip both. Distractors revised

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
3	h	3										X?		N	E	Doesn't appear to be a close K/A match since the SPDS is not operational – explain basis for match Modified stem to be a better K/A match utilizing information from the SPDS to determine LBLOCA
4	h	2												N	s	
5	h	3		X										N	E	1) Explain K/A match - Plant response after M/U restored. 2) "D" not balanced cues answer only choice that doesn't give PZR level just based on Press. Recommend revising one distractor. Distractor revised to provide balance and avoid cuing and an explanation was added to explain basis for K/A match.
6	h	2		X										B	E	Answer choice "C" delete word immediately cues answer and not in procedure. Change incorporated
7	h	3										X		B	U	K/A- technically not a match since initiator is Tave malfunction not Pressure control Q replaced with a bank Q and different K/A
8	f	2												B	s	

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9	h	2												N	E	"D" delete first "initiated" awkward wording Corrected typo
10	F	2												B	S	
11	f	2												B	s	
12	f	2												N	s	
13	h	3												N	s	
14	h	2												N	s	

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15	h	2												N	E	Explain basis for K/A match – the fact that the M/U valve position indication lights not lit indicates power source did not transfer and is denergized. Explanation of K/A match provided
16	H	2												N	S	

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17	F	1-2	X			X								B	U	LOD=1 -2. "A" seems like obvious correct answer with: ATWS - all rods not in and Rx power 2% and decreasing the criteria for the Rx s/d is met so alternate actions not required only immediate action to emergency borate. A lot of window dressing in stem. Q replaced with a new Q at memory level using a different K/A.
18	h	2												B	s	1) h, not f, and 2) Bank Q does not meet Modified bank criteria Changes made
19	h	2												N	s	
20	f	2												N	s	
21	f	2												N	s	
22	f	2												B	S	
23	f	2										X?		N	E	K/A – does not appear to meet second part of K/A "within license limitations and amendments" explain match or modify. The Q stem was modified to increase scope of Q to fully address K/A
24	h	2												N	S	

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25	f	2												N	s	
26	h	2												M	S	
27	h	2												N	S	
28	F	2												N	s	
29	F	2				x						X		B	<u>U</u>	1) K/A Match this does not appear to test a design feature or interlock tht provides adequate cooling to the RCPs - still have to take manula operator actions to protect the pumps. 2) "B" not credible. Maybe a seal return line malf instead? Replaced with a new Q that meets K/A.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
30	f	2											?		M	E	Explain K/A match HPI pumps are the M/U pumps which are part of the CVCS system. K/A match explained
31	f	2											?		N	E	KA match explain why Q matches K/A what is the relationship between RHR and CVCS. Need to explain better why distractors are plausible DHR part of RHR system K/A match explained in plausibility statements
32	f	2													N	s	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
33	h	2										X	N		U	1) Explain connection to KA; plant not solid. 2) check overlap another Q maybe on the SRO tests LTOP function switch and temp/press Wrote New Q to address concerns
34	h	2											N		E	"C" add words "and Both" symmetry with "D" Changes made
35	h	2										?	M		E	Explain why this is a K/A match. Is WDG-V-4 part of the RCDT such that we could call this a loss or malfunction of the PRTS? K/A match better explained in "C" justification.
36	f	2										?	N		E	Explain K/A match – are the DC valves part of the CCW – it doesn't appear you are operating CCW controls? K/A match better explained
37	h	3											N		S	
38	f	2				?							B		E	Explain "D" plausible – regarding RCS limit for DNB? Done
39	h	2											N		s	
40	f	2											N		s	

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41	h	2												B	S	
42	f	2												B	S	

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43	h	2											?		M	E	Explain K/A match - Q tells operator Tave lowers, does not test impact of steam demand. Explanation provided
44	f	2													B	E	1) "B" should indicate Main Turbine trips right now implies MT doesn't trip 2) Consider revising "D" Main Turbine Trips, TBVs will go full open for symmetry also maybe more plausible. Distractors modified to address comments
45	h	2													M	S	
46	f	2													N	S	
47	f	2													N	E	Beef up "A and B" explanations a little confusing makes "A" look correct better explain either auto or man sync may be used but first breaker must be manually shut. Explanation provided
48	f	1		x		X									B	U	Correct answer seems too abnormal and obvious. "B and D" distractors not plausible appears LOD=1 too easy. New Q written using same K/A

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50	h	2												N	s	
51	f	2												N	s	
52	f	2												N	s	
53	f	2												B	s	
54	f	2				x								N	S	

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55	f	1				X									N	U	1) Seems a little too direct. How about valve failure, or open SG manway with an ASDV or vent open? 2) B&D Distractors don't seem plausible. Revised distractors
56	H	2													N	s	

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57	f	2													B	E	Changed to Bank not Modified

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			
58	h	2												N	S	
59	h	2												N	S	
60	h	2												B	U	"A&B" - 2 correct answers technically both procedures are entered transition to AOP from Alarm procedure – distinction is SRO level. Revised stem and distractors modified Q to address concerns
61	H	2										X		N	U	1) K/A mismatch - Q does not ask definition or calculation of QPTR and 2) F not H Q rewritten to higher order and to address K/A mismatch
62	h	2										?		N	E	Explain K/A mismatch – Explained K/A match
63	h	2												B	s	
64	h	2												N	s	

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

34. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
35. 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).
36. 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).
4. 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.
5. 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).
6. Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.
7. 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?
8. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

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Written Examination Review Worksheet

Form ES-401-9

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			
65	H	2												N	s	
66	f	2												N	S	
67	f	1				X								N	U	1) LOD=1 answer is obvious; 2) "C&D" not plausible. The procedure is talking about maintenance people maybe revise to test limitations during an ST performance. Revised stem and distractors to address comments.
68	f	2												N	E	Rewrote answer to agree with wording in procedure per NRC request

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			
69	f	2												B	S	
70	f	2												B	s	
71	f	2												N	s	
72	f	2												N	s	

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

37. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
38. 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).
39. 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).
4. 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).
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 - 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.
5. 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).
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7. 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?
8. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

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Written Examination Review Worksheet

Form ES-401-9

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			

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			
73	f	2												N	E	Added info to plausibility statements to explain that most RMS take a local make up air
74	f	2												N	s	
75	f	2												N	s	

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

40. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
41. 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).
42. 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).
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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			
76	h	3				X							Y	N	E	Distractor "A" may be more plausible to place NDT switch in AUTO with these plant conditions to have in OFF seems obviously wrong. Change made
77	h	3											Y	N	s	
78	h	3											N	N	U	Not SRO. Question covers immediate action RNO for EOP-1 for Rx not S/D. Q replaced with a bank SRO level Q using different K/A
79	h	4										X	Y	M	s	
80	h	3											Y	N	s	
81	h	3											Y	N	s	
82	h	3											Y	N	E	Licensee initiated change to Q distractors to avoid more than one correct answer.
83	h	3										X	Y	N	E	K/A mismatch- No "determine or interpret Loss of SR NI power" – power supply failure is given Q stem revised to indicate a power loss to address comment

Instructions

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Written Examination Review Worksheet

Form ES-401-9

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					
84	f	2											Y	N	E	1) Explain term adequate "Freeboard in justification statement; 2) F not H; Typo in "B" explanation Comments addressed.	
85	h	3											x	Y	N	S	
86	h	2												N?	N	E	Doesn't appear to be SRO level. Added corrective actions to raise to SRO level
87	h	2													N	E	With MU valve closed cues answer makes obvious LOD=1.5: Revised stem to make more subtle and increase LOD.

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			
88	h	2											Y	N	S	
89	h	2											Y	N	s	
90	h	2											Y	N	s	
91	h	3											Y	N	s	

Instructions

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Written Examination Review Worksheet

Form ES-401-9

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			
92	h	2											Y	N	E	Typo in "D" explanation Corrected

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				
93	h	1											Y	B	S		
94	f	2							?					Y	N	E	Tests TS chem. Limit and basis from memory would be enhanced by providing chem. Conditions in stem and ask appropriate actions. Revised Q to address comment.
95	h	3				?								Y	N	E	Explain better why distractors plausible. Plausibility statements enhanced
96	f	2				X								Y	N	U	Can nuke out from GNN. Work on it. C,D too complex, For "D" NRC doesn't approve procedures just reviews 50.59 for modifications B senseless to have a person not knowledgeable review. Wrote new Q using same K/A
97	h	2												Y	N	s	
98	f	2												Y	N	s	
99	f	2												Y	N	S	

