

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]
the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.

1. Enter

2. Enter the level of difficulty (LOD) of each question using a 1 to 5 (easy to difficult) rating scale (questions in the 2 to 4 range are acceptable).

3. Check the appropriate box if a psychometric flaw is identified:

a. The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).

b. The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).

c. The answer choices are a collection of unrelated true/false statements.

d. The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.

e. 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:

a. 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).

b. 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).

c. The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).

d. 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 Unsat ratings (e.g., how the Appendix B psychometric attributes are not being met).

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	8
Q#	(F/H)	(1-5)	stem focus	cueing	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	Explanation

Generic Comments

It is unlikely that 15 of 17 Tier 3 questions are LOD 3. Most of them should be LOD 2.

Disproportionate number of questions in the RO section have a correct answer of C. If possible, reorder some of the distractors so to get a closer balance to answer distribution.

[illegible]

[illegible]

[illegible]

[illegible]

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	8
Q#	(F/H)	(1-5)	stem focus	cueing	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	Explanation
38	F	3										X		N	U S	Does not meet the K/A. The K/A asks for system logic and reliability of ESF, but the question does not ask this. There is not direct logic that SG level instruments are powered from AC vs DC for reliability. Also, the System in ESF Actuation. Knowledge of the number of and power supply of SG instruments is not actuation. This question could be repaired if the part 1 distractors required knowing logic instead of numbers. Modified part 1 distractors to ask AFAS actuation logic. Rev. 1 question is now SAT.
39	H	3												N	S	
40	F	3												B	S	
41	F	2												N	S	
42	H	3												N	F S	Distractor analysis states that no information is available for subcooling, but with CET temps and pressure, one can obtain that info. Updated distractor analysis. Rev. 1 quesiton is now SAT.
43	H	3				X								N	U S	I find it difficult to believe that anyone at the end of license class would believe that operating spray valves on a solid pressurizer would be correct. Changed part 2 distractors to "Lower charging flow and raise PZR letdown flow," and "Ensure PZR Htrs are off." Reordered distractors. Rev. 1 question is now SAT.
44	F	3												N	S	
45	H	3												B	S	2014 Exam
46	H	3												M	S	Reference Provided
47	F	3												B	S	
48	H	3												N	S	
49	H	3												B	S	
50	H	3											X	N	U S	RO level knowledge of operability is not required. This is a SRO level question. Changed part 2 question to ask whether the LCO was met, rather than if the pumps were operable. Rev. 1 question is now SAT.

[illegible]

[illegible]

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Q#	(F/H)	(1-5)	stem focus	cueing	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	Explanation
76	H	4												N	E S	Is it possible to put bearing cooler flow out of spec high? Since bearing cooler flow is so much different than the others, I think optically it stands out so much that one would immediately eliminate distractors A and D. Replaced with a new K/A and a new question. Rev. 1 question is now SAT.
77	H	2												N	E S	Distractor D easily eliminated, as it is LOD 1 that the NRC would have to be informed if invoking 50.54x. Consider replacing this K/A, as it is a duplicate K/A to question 85. Replaced with a new K/A and a new question. Rev. 1 question is now SAT.
78	H	3												B	E S	Distractor D is cued by the statement "due to loss of subcooling." The distractor analysis talks about changing RCS temperature from 300°F (in the Diablo Bank) to 384°F, yet the stem says 390°F Changed the stem to ask, "Based on the above conditions, what is the NEXT sequence of procedures to be utilized?" Updated distractor analysis regarding temperature for superheating. Rev. 1 question is now SAT.
79	H	3												N	S	Reference Provided
80	H	3												N	E S	Distractor D should give the title of the procedure, and not the title of the step, since E-1 does not dictate the step. Additionally, I don't think step 5.5 would be utilized. E-1 directs using the procedure to align makeup to the RWST. E-1 itself gives the steps on aligning charging pump suction to the VCT. Added title of OTN-BG-00002 to distractor D and eliminated Section name. Revised RWST level in stem to greater than 6%, changing the flowpath in the ECA – 1.1 procedure, step #9 contains the correct answer. Rev. 1 of question is now SAT.

[illegible]

[illegible]

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Q#	(F/H)	(1-5)	stem focus	cueing	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	Explanation
97	F	3												N	S	
98	F	2												N	S	
99	F	3												N	S	
100	F	3												B	U S	<p>2014 Exam - Is it possible to change Director, Maintenance to Control Room Supervisor, without a potential for two correct answers? It seems unlikely to me that anyone would think someone outside of operations would approve a plan that presents a risk of a safety system actuation.</p> <p>Changed distractors from Director Maintenance to Troubleshooting team leader, and reordered distractors. Rev. 1 of question is now SAT.</p>