

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			
1	H	3					X							N	US	Two possible correct answers (a & b) REPLACED
2	F	2												B	S	
3	H	2				X								N	S	
4	H	3												N	S	
5	H	2												B	ES	
6	H	3												N	ES	What's an escutcheon? CHANGE TO "HAND SWITCH"
7	F	2												B	S	
8	H	3				X								N	US	Two possible correct answers MODIFIED B
9	H	3												N	S	
10	F	2												N	S	

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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11	H	2				X								B	US	2 (or more) correct answers if A, B, or C is correct MODIFIED STEM AND DISTRACTERS
12	H	3												B	S	
13	F	2				X								B	S	
14	H	3												N	US	2 correct answers + wrong K/A REVISED K/A/ - REVISED D
15	H	2												B	ES	MODIFIED A , C & D for BALANCE
16	H	2												N	ES	PUT FWIV IN STEM
17	H	2				X								N	US	2.) not necessary – REPLACED; TOPIC COVERED IN JPM
18	H	3												M	ES	Superfluous info in stem - MODIFIED
19	H	3												B	ES	
20	F	2												B	ES	Get rid of unnecessary info STEM AND DISTRACTERS MODIFIED
21	H	3												N	ES	
22	H	3												B	ES	K/A mismatch? CHANGED K/A AND ADDED ADDITIONAL REFERENCE
23	H	4												N	ES	B and C need enhanced DISTRACTERS ENHANCED
24	H	3												N	S	
25	H	3				X								N	ES	B not credible REPLACED
26	H	3		X										N	ES	Added "MSODE 1" in stem
27	H	3												N	ES	
28	H	3				X								B	ES	C nSot credible – has nothing to do with mid loop REVISED C
29	H	2				X								MB	ES	A not credible – closer to point source yet ¼ dose rate (?) – REPLACED QUESTION
30	F	2												N	S	
31	H	4												N	ES	
32	H	3												N	ES	
33	H	2					X							B	US	B is also correct MODIFIED STEM TO MAKE B INCORRECT
34	H	3												B	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
35	H	3												N	S	
36	H	2												N	US	C could also be correct ("primary" concern) – REVISED STEM TO MAKE C INCORRECT
37	H	3												N	S	
38	H	2												N	S	
39	F	2				X								B	S	
40	H	3				X								N	ES	Get rid of "2.'s" – EOS-1.1A transition by procedure E-0 DISTRACTERS REVISED
41	H	3				X								B	ES	Revise to make distracter C more consistent DISTRACTER C REVISED
42	F	2				X								B	ES	
43	F	3												B	ES	Modify A for consistency – C should have no "s" A & C MODIFIED
44	F	3												B	ES	Modify distracters for consistency DISTRACTERS MODIFIED
45	F	3		X										B	ES	Remove stem cue STEM MODIFIED
46	H	3												N	ES	Modify D unnecessary info D MODIFIED
47	H	3												N	S	
48	H	3				X								N	US	A and D not credible – no reason to believe ECA condition exists MODIFIED TO GET RID OF ECA CHOICES
49	H	4												N	ES	is the last bullet in stem necessary? STEM MODIFIED
50	H	3												N	S	
51	H	3				X								N	ES	A not credible – change D for consistency (?) A & D MODIFIED
52	H	3	X				X							N	ES	Stem not consistent with distracter D – Why is B wrong? STEM & B & D MODIFIED
53	H	3				X								M	ES	C not consistent with stem C MODIFIED
54	H	3												MB	US	Nearly identical to original question – OK if change from "M" to "B" CHANGED TO "B"
55	H	3												N	US	Two correct answers MODIFIED DISTRACTERS
56	H	3												M	S	
57	F	2												B	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
58	H	2				X								MB	US	Identical to bank question + A and C not credible CHANGED TO BANK
59	F	2												B	S	
60	H	2												N	ES	
61	F	2				X								N	ES	D credible (?) – MODIFIED D
62	H	3												N	ES	
63	H	3												N	ES	
64	H	3												N	S	
65	H	2				X								N	ES	MODIFIED DISTRACTERS
66	F	1				X								N	US	Q not credible – When would following procedures be considered non conservative? CHANGED TO A DIFFERENT CORRECT ANSWER
67	F	2												B	S	
68	F	2												B	S	
69	F	3												B	S	
70	F	2												N	S	
71	F	2												M	ES	Change 2009 to 2010 – CHANGE MADE
72	F	2	X											M	ES	Add “minimum” – CHANGE MADE
73	F	2	X											N	ES	Add FRP Bases to stem – CHANGE MADE
74	F	2												B	S	
75	F	2				X			X					N	ES	If A were correct, so would C (A not credible) – MODIFIED STEM TO MAKE C INCORRECT
76	H	3					X					X	N	ES		
77	H	3										X	B	S		
78	H	3					X					X	N	S		
79	H	2										X	N	S		
80	F	2										X	N	ES		

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81	F	2											X	B	ES	If RV head not fully tensioned, isn't that Mode 6 (doesn't that limit temp?) CHANGE TO MODE 5
82	F	2											X	N	ES	Conditions in stem match question? MODIFIED STEM
83	H	3											X	B	ES	Add "parameters" to stem -ADDED
84	H	3				X	X						X	N	US	A looks possibly correct and B and D don't appear credible – STEM REWORDED
85	H	2											X	N	ES	Only correct answer has a time limit -REMOVED TIME LIMIT FROM CORRECT ANSWER
86	H	2					X						X	N	ES	Why is B wrong -MODIFIED STEM AND DISTRACTERS
87	H	2		X									X	N	US	Answer in stem (last bullet) – REMOVED CUE FROM STEM
88	H	2											X	N	ES	Modified stem
89	H	2				X							X	N	US	What does "the diesel" (just "the diesel" – no designation as to which one) have to do with Bus 1ECc1? – STEM AND DISTRACTERS MODIFIED
90	H	3				X							X	N	ES	B not credible – clarify stem info – why is ref material needed? – B REVISED; PROPOSED REFERENCE REMOVED
91	H	2					X						X	N	US	Why is D wrong? – nothing mentioned about potential curie content in stem D MODIFIED
92	F	2											X	B	ES	Provide reference for C -REFERENCE ADDED FOR C
93	F	2											X	N	ES	Simplify stem; explain FP terms and references - MODIFIED
94	F	3				X							X	B	ES	If C were correct, so would A – makes C not credible – DISTRACTERS MODIFIED
95	F	2											X	B	ES	provide references – REFERENCES ADDED
96	F	2											X	B	S	
97	F	2											X	N	ES	C – change 14 to 7 based on TS(?) – MODIFIED C
98	F	3											X	B	S	
99	H	3											X	N	ES	Change to higher EAL – MODIFIED QUESTION TO MAKE CORRECT ANSWER A HIGHER EAL
100	H	2											X	M	ES	

RO TOTALS:

B=

F=

E=

Additional Notes:

M= H= U=
N=

SRO TOTALS:	B= F= E=	Additional Notes:
	M= H= U=	
	N=	

GENERAL COMMENTS:

1. Bank questions are indicated by **B**; Modified are indicated by **M**; New questions are indicated by **N**
2. Chief Examiner comments are indicated in *blue*.
3. Average difficulty is _____ on the RO exam and _____ on the SRO exam.
4. The 10CFR55.41/43 distribution is: RO / SRO

41.1 =	43.1 =
41.2 =	43.2 =
41.3 =	43.3 =
41.4 =	43.4 =
41.5 =	43.5 =
41.6 =	43.6 =
41.7 =	43.7 =
41.8 =	
41.9 =	
41.10 =	
41.11 =	
41.12 =	
41.13 =	
41.14 =	
5. The answer distribution is: RO / SRO

A = 13 (17%)	/	6 (24%)
B = 16 (22%)	/	7 (28%)
C = 21 (28%)	/	5 (20%)
D = 25 (33%)	/	7 (28%)
6. There are ____ questions with attachments provided.