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.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			Explanation
1	H	2												N	S	
2	F	2												B	S	
3	F	2.5												B	S	
4	H	1												M	U	Low discriminatory value. Replace or rework.
5	H	3	X											B	E	"would" vs "could" in part 1
6	H	3												N	S	
7	H	3												B	S	
8	F	2												B	S	

Instructions

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

1.   Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.

2.   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).

3.   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.   <u>Check questions that are sampled</u> 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).

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.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			Explanation
9	H	2.5												B	S	
10	F	2	X											B	S	Add annunciators to meet K/A.
11	F	2												B	S	
12	H	3.5				D								B	E	Replace/modify D.
13	H	3												B	S	Add KA justification.
14	H	2.5				B,D								B	U	Why would actual RIL change? Modify Q.
15	F	2	X											N	E	Modify first sentence to avoid providing information.
16	H	2.5	X											B	E	Modify to ensure only one correct answer.
17	H	3.5												B	S	
18	F	2.5	X											B	E	Add a temperature value to another distractor.
19	H	3												B	S	
20	F	3	X											B	E	Clarify status of Bus 13
21	H	3												N	S	
22	F	3	X											N	E	Explain 6 minutes or provide another realistic value.
23	F	2												B	S	
24	F	2	X											B	E	Clarify wording in distractors to ensure only one correct answer.
25	F	2												B	S	
26	H	2.5	X											N	E	Change 4th bullet to "less than 2 psig" vs 5. Provide KA justification.
27	H	2												B	S	
28	H	2.5	X											B	E	Move last bullet into stem.

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												M	S	
30	H	3.5												M	S	Provide justification for RO level Q.
31	H	3	X											B	E	Specify normal system/channel lineup.
32	H	3												B	S	
33	F	3				B								B	E	Modify/replace choice B.
34	F	3	X											N	E	Add IAW background document.
35	H	2.5												B	S	
36	H	2.5	X											N	E	Replace Unit Supervisor with crew in part 1.
37	H	3	X											N	E	Replace "lower power" in A&B with "approximately 65%."
38	H	3.5	X											N	E	Replace "lists" with "describes".
39	F	3	X											B	E	Specify the controlling channel.
40	H	2.5												N	S	
41	F	1												B	U	LOD 1 – Fix/replace
42	H	2.5												B	S	
43	F	2												B	S	
44	H	3	X											N	E	Change "lists" to "describes"
45	F	2.5												N	S	
46	F	2.5												B	S	
47	H	2.5												N	S	.
48	H	2												B	S	Previous NRC exam 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.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			Explanation
49	H	2.5										X		N	U	KAMM.
50	H	2.5												B	S	
51	F	2.5												B	S	
52	F	2	X											N	E	Replace "cloning" with procedure wording.
53	F	2.5												B	S	
54	F	3												N	S	
55	H	3.5												N	S	
56	F	2												B	S	
57	H	2.5												B	S	
58	H	2.5												N	S	Clarify justifications for A & D.
59	F	2.5	X											B	E	Stem format – combine wording.
60	H	2												B	S	
61	F	2.5	X											B	E	Modify data or clarify plausibility statement for D.
62	H	2.5												B	S	Provide K/A justification.
63	H	3												N	S	
64	F	2												B	S	
65	F	3												B	S	Clarify justification for B regarding integrity.
66	H	3												B	S	
67	F	2.5												N	S	
68	H	3												B	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.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			Explanation
69	H	3	X											N	E	Replace "guidance" with "mitigative actions".
70	H	3												B	S	
71	H	2.5	X											B	E	Add "is" to 3rd bullet.
72	H	3												N	S	
73	F	2												B	S	
74	F	2.5												B	S	
75	F	1												N	U	Replace/modify/clarify.
76	F	3												B	U	Not SRO only. Replace/re-work. Justify format to meet b(5).
77	H	2.5				D								N	E	Distractor "D" not plausible for a GE. Replace.
78	H	3												N	S	
79	H	2.5											X	B	U	Not SRO only. Change answer format. Re-work.
80	H	3	X											N	E	Don't provide TS 3.7.7. Modify distractors to include "immediately."
81	H	3.5												N	S	
82	F	3												N	E	Add comma to 3rd bullet.
83	F	3.5												N	S	Provide K/A justification.
84	H	3.5	X											B	E	Add panel locations to distractors or provide justification.
85	H	3.5												M	S	Add justification for SRO only.
86	F	3.5												B	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			
87	H	3	X			B								N	E	Distractor B not plausible. Add loss of Bus 11A. Change B.
88	H	3												N	S	
89	H	2.5												N	S	
90	H	3	X											M	E	Delete 3rd bullet.
91	H	3											X	N	U	Can answer with system knowledge. Replace/re-work/reselect.
92	F	2	X											N	E	Insert "to a minimum of" to ensure clarity.
93	H	2												N	S	
94	H	3												N	S	
95	H	2												N	S	
96	H	2.5												N	S	
97	F	3												B	S	
98	H	3												N	S	
99	H	3					X							N	U	A is possible 2nd answer. Re-work/replace.
100	H	4												N	S	