DC Cook July 2016 Exam

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws — Stem Focus	Cues	T/F	Cred. Dist.	Partial	4. Job Content Flaws — Job-Link	Minutia	#/ units	Back-ward	5. Other — Q= K/A	SRO Only	6. Source B/M/N	7. Status U/E/S	8. Explanation
1$	H	3												N	S	**LIC:** Reworded Sample Question stem and distractors to result in only one correct answer. **NRC:** Question is SAT.
2+	H	3												B	S	*2014 NRC Exam*
3	F	2												B	~~E~~ S	*2006 NRC Exam* **LIC:** Added Initial Condition to clarify stem. **NRC:** Question is SAT.
4	H	2												B	S	
5+	F	2												B	S	*2007 NRC Exam*
6$	H	3												N	S	**LIC:** Adjusted Sample Question SI and RHR pump flowrates to match conditions. **NRC:** Question is SAT.

<div align="center">Instructions</div>

[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(easy) to 5(difficult); (questions with a difficulty between 2 and 4 are acceptable).

3. Check the appropriate box if a psychometric flaw is identified:
    - "Stem Focus": The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
    - "Cues": The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc.).
    - "T/F": The answer choices are a collection of unrelated true/false statements.
    - "Cred. Dist.": The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
    - "Partial": One or more distractor(s) 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:
    - "Job Link": 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).
    - "Minutia": 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).
    - "# / Units": The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
    - "Backward": 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 K/As that are *designated SRO-only* (K/A and license level mismatches are unacceptable).

6. Enter question source: (B)ank, (M)odified, or (N)ew. Verify 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" Status ratings (e.g., how the Appendix B psychometric attributes are not being met).

A "+" in the "Q#" column indicates that question was reviewed as part of the representative sample of 30 questions (K/A match & references I.V.).
A "$" in the "Q#" column indicates that the question was a 'Sample Test Item'; not counted in the 20% threshold for acceptable submittal quality.

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			
7	H	2												B	S	*Previous NRC Exam?* – **NRC:** Why is distractor 'C' plausible? **LIC:** Units may procedurally cross-tie ECCS for SI and Charging. **NRC:** Question is SAT.
8+	H	2										N̶		B	U̶ S	*2002 NRC Exam* – **NRC:** Doesn't match the K/A – reason for the action taken, not what is the action. **LIC:** Reworded reason on correct answer to match K/A. **NRC:** Question is SAT.
9	F	3												M	S	*Modified? 2002 NRC Exam (Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
10	H	3												B	S	
11+	F	3												B	S	*2010 NRC Exam* – **NRC:** What is the SI pump shutoff head? **LIC:** 1560 psig.
12	H	3												M	S	*2006 NRC Exam (Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
13	F	2										N̶		B	U̶ S	1 of 2 twice *2008 NRC Exam* – **NRC:** 1) Assume no operator action? Under what conditions would distractor 'C' also be a correct answer? 2) The K/A states that the applicant must determine a loss of DC has occurred, and then verify proper actions; stem <u>states</u> that a loss has occurred? **LIC:** Replaced with a Bank question to match K/A. **NRC:** Question is Modified: Question is SAT.
14+	H	2												M	E̶ S	*Previous NRC Exam? (Modified)* – **NRC:** 1) Why is distractor 'D' plausible? (Don't understand the explanation for being incorrect.) 2) Need to review original question to verify 'M' vs 'B' source. **LIC:** Reworded distractor 'D' and provided original question. **NRC:** Question is Modified: Question is SAT.

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			
15	F	2												B	S	
16	F	2												M	S	*(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
17+	F	2										N̶		N	U̶ S	**NRC:** 1) How does this question tie to the EOPs in order to match the K/A? **LIC:** Reworded question to tie to EOPs and match K/A. **NRC:** Question is SAT.
18	F	3												B	E̶ S	*2008 NRC Exam* – **NRC:** Why is distractor 'A' plausible? **LIC:** Reworded distractor 'A'. **NRC:** Question is SAT.
19	F	3												B	S	*2008 NRC Exam*
20+	F	3												B	S	1 of 2 twice
21	F	3												B	S	*2006 NRC Exam*
22	F	2												B	S	*2002 NRC Exam*
23+	F	3												M	S	*(Modified)* – **NRC:** 1) Doesn't appear to match the K/A for knowledge of the reasons for the steps called for in the fire plan. 2) Need to review original question to verify 'M' vs 'B' source. **LIC:** Tied question to Generic K/A for Unit differences. **NRC:** Question is Modified: Question is SAT.
24	H	3												B	S	*2004 NRC Exam*
25	H	3												B	S	*2006 & 2010 NRC Exams*
26+	H	3												N	S	1 of 2 twice – **NRC:** Why only ask for indication on #11 SG? **LIC:** To ensure correct answer is selected for the right reason. **NRC:** Question is SAT.

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws						4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			
27$	F	3												B	S	*2004 & **2012 NRC Exams** –* **NRC:** Is the applicant required to have this information memorized? **LIC:** Provided learning objective. **NRC:** Question is SAT.
28	H	3												B	S	
29$	H	3												N	S	**NRC:** Is the applicant required to have this information memorized? **LIC:** Provided learning objective. **NRC:** Question is SAT.
30+	F	2												B	S	
31	H	3			X̶									B	U̶ S	*2002 NRC Exam –* **NRC:** The distractors, as written may be a collection of T/F conditions, which lead to the possibly correct answer without reading the stem. **LIC:** Reworded distractors 'C' & 'D' to correct T/F collections. **NRC:** Changed to 1 of 2 twice format: Question is SAT.
32	F	3												B	S	*2004 NRC Exam*
33+	H	3												B	S	
34	H	3												B	S	1 of 2 twice – *2007 NRC Exam*
35	F	2												B	S	1 of 2 twice
36+	H	2												B	S	*2008 NRC Exam*
37	H	3												N	S	
38	H	2												B	S	*2010 NRC Exam*
39+	F̶ H	2												B	E̶ S	**LIC:** Agreed; this is higher cognitive question. **NRC:** Question is SAT.
40	H	3												B	S	1 of 2 twice
41	H	3												B	S	*2006 NRC Exam*

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q= K/A	SRO Only			
42+	H	3												B	S	*2007 NRC Exam*
43	H	2												~~M~~ B	S	*Modified? 2002 NRC Exam (Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source, **LIC:** Provided original question. Not significantly modified to change answer. **NRC:** Question is Bank: Question is SAT.
44	H	3												N	S	
45+	H	3												B	S	1 of 2 twice *2010 NRC Exam*
46$	H	3												N	S	**LIC:** Reworded Sample Question distractors to match the K/A. **NRC:** Question is SAT.
47$	H	3												N	S	**LIC:** Reworded Sample Question stem and distractors to match the initial conditions. **NRC:** Question is SAT.
48	H	3										~~N~~		B	~~U~~ S	*2006 NRC Exam* – **NRC:** Doesn't appear to match the K/A to use procedures to correct, control, and mitigate the predicted impact. **LIC:** Added a required action to match K/A. **NRC:** Question is SAT.
49	H	3												N	S	
50+	H	3												B	S	
51	H	3												M	S	*(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
52	F	3												M	S	*(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			
53+	H	3												M	S	*(Modified)* – **NRC:** 1) Need to review original question to verify 'M' vs 'B' source. 2) Is this RO knowledge for Tech Specs? **LIC:** Provided learning objective. Provided original question. **NRC:** Question is Modified: Question is SAT.
54	H	3												M	S	*(Modified)* – **NRC:** 1) Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
55	H	3												B	S	
56+	F	3												B	S	
57	F	3												B	S	
58	F	2												B	S	1 of 2 twice
59+	H	2												B	S	
60	F	3												B	S	
61	H	3												B	S	
62+	H	3												B	S	
63	H	3												M	S	Handout provided (Steam Tables) *(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
64	F	3												B	S	
65+	H	3												M	S	*(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Original question mistakenly submitted; modified question provided for review and approval. **NRC:** Used Modified Question: Question is SAT.

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q= K/A	SRO Only			Explanation
66	H	3												B	S	
67	F	3												B	S	*2007 NRC Exam*
68+	F	3												B	S	
69	F	2												B	S	
70	F	2												B	S	
71	H	3												B	S	***2012 NRC Exam***
72$	H	3												B	S	**LIC:** Reworded Sample Question stem and distractors to match K/A. **NRC:** Question is SAT.
73+	F	3												B	S	*2008 NRC Exam*
74	H	3												B	S	1 of 2 twice
75	F	3												B	S	**NRC:** Swapped Distractors 'C' and 'D'. **LIC:** Agreed. **NRC:** Question is SAT.
	For RO portion of Exam: New = 10Q, Modified = 11Q, Bank = 54Q (72%): LOK: 30/75 = 40%, H= 60%															
76	H	3											X	B	~~E~~ S	**NRC:** Reword Stem to direct procedure selection. **LIC:** Reworded stem. **NRC:** Question is SAT.
77$	H	3											X	N	S	**NRC:** Not good K/A match to SI pump indication. **LIC:** Reworded required actions. **NRC:** Question is SAT.
78	H	3											X	M	S	*(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
79	H	3											X	B	S	

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			
80+	H	3											X	B	S	*2007 NRC Exam*
81	F	3											X	B	S	1 of 2 twice
82	H	3											X	B	S	
83+	H	3											X	N	S	
84	H	3											X	B	S	Handout provided *2010 NRC Exam (Modified)* – **NRC:** Question is a Bank – SAT.
85	H	3											X	B	S	Handout provided
86+	H	3											X	B	S	*2004 & 2010 NRC Exams*
87$	H	3											X	N	S	**LIC:** Reworded Sample Question stem and distractors to match K/A. **NRC:** Question is SAT.
88	H	3											X	N	S	
89	H	3											X	M	S	*(Modified)* – **NRC:** Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
90+	F	3											X	B	S	
91	H	3											X	M	S	*Modified 2014-99 NRC Exam (Modified)* – **NRC:** 1) Need to review original question to verify 'M' vs 'B' source. **LIC:** Provided original question. **NRC:** Question is Modified: Question is SAT.
92$	H	3											X	B	S	*2006 NRC Exam* – **NRC:** Question is SAT as submitted.
93+	H	3											X	B	S	
94	H	3											X	B	S	***2012 NRC Exam***
95	F	2											X	N	S	
96+	F	3											X	B	S	1 of 2 twice

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source B/M/N	7. Status U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only			
97	H	3											X	B	S	Handout provided
98	H	3											X	B	S	*2004 NRC Exam (Modified)* **LIC:** Clarified wording in the stem. **NRC:** Question is SAT.
99+	H	3											X	N	S	Handout provided
100	H	3											X	B	S	
	For SRO portion of Exam: New = 6Q, Modified = 3Q, Bank = 16Q (71%): LOK: 4/25 = 16%, H= 84%															