

ES-401

Form ES-401-9

FACILITY: Diablo Canyon

CHIEF EXAMINER: G. Johnston

EXAM DATE: October 2002

REVIEWER: G. Werner

* Indicates part of initial sample

Note: On pages 1 - 5 Questions 1 - 71 are both RO/SRO, Questions 72 - 100 are RO only.

On pages 6 & 7 Questions 72 - 100 are SRO only.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
1*	H	3										OK		S	
2*	F	2		X								OK		E	Answer D is longer than the other distractors and the other 3 answers are dissimilar from Answer D. In addition, Answer C is too close to being correct - "...DRW is highest at approx the bank's 40% withdrawn position."
3	F	2										OK		S	Could not verify answer. Correct answer does not make total sense. Need to verify with licensee.
4	H	3										OK		S	
5	H	3										OK		S	
6*	H	2				X						OK		U	Answers B and D are not credible distractors.
7*	H	3										OK		S	
8	H	3										OK		S	
9	F	2										OK		S	
10	H	2										OK		S	
11*	F	1						X				OK		U	Anyone knowing how to use steam tables could arrive at the correct answer and the question has low discriminatory value.
12	H	3										OK		S	
13	H	2										OK		S	
14	H	2										OK		S	
15	H	3										OK		S	
16	F	3										OK		S	
17	H	2										OK		S	
18	H	2										OK		S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only		
19*	H	2										OK		S	
20*	F	3										OK		S	
21	F	1										OK		U	Low discrimination value. Although some analysis is needed - it is of fundamental level below site specific knowledge.
22	H	3										OK		S	
23	F	2										OK		S	
24*	F	2				X						OK		E	Answer B is not plausible and not consistent with other answers - "high." Would be better to say "high pressure"
25	H	2										OK		S	
26	H	3										OK		S	
27	H	2										OK		S	
28	H	3										OK		S	
29*	H	2										OK		S	
30															
31*	F					X						OK		E	Discussing "designed" in the stem, but Answers C and D are not related to design, would be related more to reason. May need to modify question to include purpose of safety valves and discuss "reason" in the answer.
32*	H	3						X				No		E	Not clear how this question ties to RO/SRO duties. The engineering and maint console is located in the cable spread room. Isn't the K/A asking about auto operation of SG level control . This question deals with display of an alarm panel and not impact on auto operation or level.
33	H	2										OK		S	
34	H	3										OK		S	
35	F	2										OK		S	
36	F	2										OK		S	
37	H	3										OK		S	
38	F	2										OK		S	

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39	H	2										OK		S	
40	F	2										OK		S	
41*	H	3				X						OK		U	Answer C and D are not a plausible distractor because the stem does not specify that FR-20 (avg flowrate) is inoperable.
42*	H	4										OK		E	Is the event classification something an RO or SRO should know from memory?
43	F	2										OK		S	
44*	F	2										OK		S	
45	F	2										OK		S	AP-15 Caution statement has an action statement in a caution, this may be a violation of the DCPD writers guide.
46	F	2										OK		E	Question should read "Which of the following automatic action would occur?"
47*	F	2										OK		S	
48*	H	2										OK		S	
49	H	2										OK		S	
50*	F	2										OK		S	
51*	F	2										OK		S	
52															
53*	F	2										OK		E	The distractors don't appear to be plausible. What other fuel building rad monitors are there? If you weren't sure of the answer, you could simply pick "RM-59, New Fuel Storage Area monitor," because this is the only rad monitor associated with the fuel building.
54	H	4										OK		S	
55*	F	2				X						OK		U	None of the distractors are credible distractors. Discussed with Don Bearden - he agreed.
56	F	2										OK		S	
57*	H	3										OK		S	Recommend modifying Answer C to include "heat up RCS above low Tavag Setpoint" to make C and D consistent in length.
58*	H	2				X						OK		U	Answers B, C, and D are NOT credible distractors!!!!!! Discussed with Don Bearden - will modify distractors.

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59*	H	3										OK		S	
60	F	2										OK		S	
61	F	2										OK		S	
62	F	2										OK		S	
63	F	2										OK		S	
64	F	2										OK		S	
65	F	3										OK		S	
66	H	3										OK		S	
67	H	3										OK		S	
68	H	3										OK		S	
69*	F	3										OK		S	
70	F	2										OK		S	
71*	F							X	X			OK			Does this question have a direct/important relationship to perform the job? What is the point of the question?
72	F	2										OK		S	
73	H	2										OK		S	
74	F	2										OK		S	
75*	H	3										OK	X	E	Clearly an SRO only question per 55.43(b)(5) - selection of appropriate emergency operating procedure. Reword the question to get rid of "terminus". Change the question for the candidates to determine - "loss of heat sink" and not selection of procedure.
76	H	2										OK		S	
77	H	2										OK		S	
78	H	2										OK		S	
79	H	3										OK		S	

[illegible]

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72	H	2										OK	✓	S	
73	H	2										OK	✓	S	
74	F	2										OK	✓	S	
75	H	2										OK	✓	S	
76	F	2										OK	✓	S	
77	H	3										OK	✓	S	
78	H	3										OK	✓	S	
79	F	2										OK	✓	S	
80	F	3										OK	✓	S	
81	F	2										OK	✓	S	
82	H	3										OK	✓	S	
83	H	3										OK	✓	S	
84	H	3										OK	✓	S	
85	H	2										OK	✓	S	
86	H	3										OK	✓	S	
87	H	2										OK	✓	S	
88	F	3										OK	✓	S	
89	H	3		X		X						OK	✓	U	RECOMMEND DISTRACTOR 'D' READ: "REACTIVITY INCREASED THROUGHOUT...."
90	F	2										OK	✓	S	
91	F	2										OK	✓	S	
92	F	2										OK	✓	S	
93	F	3										OK	✓	S	
94	F	2										OK	✓	S	

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95	H	3										OK	✓	S	
96	H	3										OK	✓	S	
97	F	3										OK	✓	S	
98	H	3				X						OK	✓	E	WORD DISTRACTOR 'B' LIKE REFERENCE MATERIAL PROVIDED
99	F	3										OK	✓	S	
100	F	2										OK	✓	S	