

VY 2009 NRC OP Test Changes

1. Changed JPM S-2, due to overlap with a scenario evolution.
2. Scenario #2: Remove RHR Pump D Malfunction and inserted RCIC Malfunction
3. Scenario #3: Removed CRD Pump Swap (Normal Evolution) and replaced with Turbine Pump Performance Test
4. Scenario and JPM script enhancements and typo corrections
5. Replaced JPM P-3, at NRC request.

ES-401

Written Examination Review Worksheet
Vermont Yankee 2009 exam
Form ES-401-9

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			
1	H	3										Y		N	E	Added to stem "No other evolutions are being performed on the SLC system".
2	F	3										Y		N	E	Distractor "C" implausible with a leak <u>into</u> the system; replaced
3	F	3										Y		B	S	
4	H	3										Y		B	S	
5	F	3										Y		B	S	
6	F	2										N		B	U	k/a mm; replaced Q
7	H	3										Y		B	S	
8	H	2										Y		N	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. 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 "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
9	F	3										Y		N	S	
10	H	3										Y		B	S	
11	H	3										Y		B	S	
12	F	4										Y		N	S	
13	F	3										Y		N	S	
14	H	3										Y		N	S	
15	H	3										Y		N	S	
16	F	3										Y		N	S	
17	F	3										Y		B	S	
18	H	3										Y		B	S	
19	F	3										Y		B	S	
20	H	3										Y		N	S	
21	F	3										Y		B	E	Added header pressure info
22	F	3										Y		B	S	
23	H	3						X				N		N	U	K/A mm; replaced Q
24	H	3										Y		B	S	
25	H	3										Y		N	S	
26	H	3										Y		M	S	
27	F	3										Y		B	S	
28	H	2										Y		B	E	Added to stem that no operator action has occurred

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			
29	H	3										Y		B	S	
30	F	3										Y		N	E	Re-worded answer choices
31	F	2						X	X			Y		N	U	Operationally invalid; minutia. Replaced Q
32	H	3										N		N	U	k/a mm; replaced Q
33	F	3										Y		N	S	
34	H	3										Y		B	S	Part (b) of k/a matched
35	H	3										Y		B	S	
36	H	3										Y		B	E	Deleted "new" from "D"; can also be a spent fuel bundle
37	H	4										Y		N	S	
38	F	3										Y		N	S	
39	F	2										Y		N	S	
40	H	3										Y		B	S	
41	F	3										Y		N	S	
42	H	3										Y		N	S	
43	H	2										Y		B	S	
44	H	2										Y		N	S	
45	F	4										N		N	U	k/a mm; replaced Q
46	H	2										Y		B	S	
47	F	3										Y		N	S	
48	H	2										Y		B	S	
49	F	2										Y		B	S	
50	H	2										Y		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	Backward	Q=K/A	SRO Only			
51	H	2										Y		N	E	Modified stem "... monitor reactor vessel metal temperature
52	H	3										Y		N	S	
53	H	3										Y		B	S	
54	F	3										Y		N	S	
55	H	3										Y		M	S	
56	H	3										Y		N	E	Re-arranged answer format
57	F	3										Y		N	S	
58	H	3										Y		M	E	Re-arranged answer format
59	H	3										Y		N	S	
60	H	3										N		B	U	k/a mm; replaced Q
61	F	4										Y		N	S	
62	F	3										Y		N	S	
63	H	3										Y		N	S	
64	F	3										Y		B	S	
65	H	3										Y		N	E	Re-arranged answer format
66	F	3										Y		N	E	Added to stem "...minimum actions directed..."
67	H	2										Y		N	S	
68	F	2										Y		N	S	
69	H	2										Y		N	E	Re-worded Q
70	F	3										Y		N	S	
71	H	2										Y		N	S	
72	H	3										Y		N	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
73	F	3										Y		N	S	
74	H	3										Y		B	E	Added trends to conditions
75	H	3										Y		N	S	
76	H	3										Y	Y	N	S	
77	H	4										Y	Y	N	S	
78	H	3										Y	Y	N	S	
79	H	3										Y	Y	N	S	
80	H	3										Y	Y	M	S	
81	H	3										Y	Y	N	E	"B" implausible; replaced
82	H	3										Y	Y	N	S	
83	H	3										Y	Y	N	S	
84	H	3										Y	Y	N	S	
85	H	3										Y	Y	N	S	
86	H	3										Y	Y	N	S	
87	H	3										Y	Y	N	S	
88	H	3										N	Y	N	U	k/a mm; these actions aren't IA's; replaced Q
89	H	3										Y	Y	M	S	
90	H	4										Y	Y	N	E	Re-arranged answer format
91	H	3										N	Y	B	U	k/a mm; replaced Q
92	H	3										Y	Y	N	S	
93	H	3										Y	Y	B	E	"D" implausible; replaced
94	H	2										Y	Y	N	S	

[illegible]