

Peach Bottom

License No.: DPR-44, DPR-56      Docket No.: 50-277, 50-278  
Operator Licensing Exam Dates: 12/07-12/18/09

NRC Comments on Draft Licensee-Developed Exam (Written & Operating Tests) (Folder 2)

Chief Examiner: T. Fish  
TAC No. U01792  
Report No.: 50-277/50-278/09-302

Public and Non-Sensitive  
NRR-079, SUNSI Review Complete  
ADAMS Package Accession No. ML091380320

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	S	
2	F	3										Y		N	S	
3	F	2										Y		N	S	
4	H	3										Y		B	S	
5	H	4										Y		B	S	
6	H	3										Y		N	S	
7	H	2										Y		M	S	
8	F	2										Y		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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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
9	H	3										Y		N	S	
10	H	3										Y		B	S	
11	H	3										Y		N	S	
12	F	3										Y		N	S	
13	H	2										Y		M	S	
14	F	2										Y		N	S	
15	H	3										Y		B	S	
16	H	3										Y		N	S	
17	H	3										Y		B	S	
18	F	3										Y		N	S	
19	H	3										Y		M	S	
20	H	3										Y		N	S	
21	F	2										Y		N	S	
22	F	3										Y		N	S	
23	H	3										Y		M	S	
24	H	3										Y		M	S	
25	F	3										Y		B	S	
26	H	2										Y		B	S	
27	F	3										Y		N	S	
28	H	3										Y		N	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			
29	H	2										Y		B	S	
30	F	2										Y		M	S	
31	F	3										Y		B	S	
32	F	3										Y		M	S	
33	H	2										Y		B	S	
34	H	2										Y		N	S	
35	H	2										Y		B	S	
36	F	3										Y		B	S	
37	H	4										Y		M	S	
38	H	4										Y		M	S	
39	H	3										Y		B	S	
40	F	2										Y		B	S	
41	H	2										Y		N	S	
42	H	2										Y		N	S	
43	F	3										Y		M	S	K/A met: Temperature is based on protecting various internal components, not based on limitation of containment shell
44	H	3										Y		N	S	
45	F	2										Y		N	S	
46	H	2										Y		B	S	
47	F	3										Y		N	S	
48	H	3										Y		B	S	K/A met. Valves listed are PCIS valves; PCIS is an ESF

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
49	H	3										Y		N	S	
50	F	2										Y		B	S	
51	F	2										Y		N	S	K/A met. Interpreting DW pressure includes knowing consequences of high DW pressure
52	H	2										Y		B	S	
53	H	3										Y		B	S	
54	H	3										Y		N	S	
55	H	2										Y		N	S	
56	H	2										Y		N	S	
57	F	2										Y		N	S	
58	H	3										Y		B	S	
59	H	3										Y		M	S	
60	H	3										Y		B	S	
61	F	2										Y		M	S	
62	H	2										Y		N	S	
63	F	2										Y		M	S	
64	F	2										Y		B	S	
65	F	3										Y		B	S	
66	H	2										Y		B	S	
67	F	2										Y		B	S	
68	F	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			
69	F	2										Y		B	S	
70	F	3				X						Y		B	E	Added bullet to stem that no dose extension is required
71	H	2										Y		B	S	
72	H	3										Y		B	S	
73	F	3										Y		N	S	
74	H	2										Y		B	S	K/A met. Operators use the monitors to confirm CREV response.
75	F	2										Y		N	S	
76	H	3										Y	Y	N	S	
77	H	3										Y	Y	N	S	
78	F	2										Y	Y	N	S	
79	H	2										Y	Y	N	S	
80	H	2										Y	Y	B	S	
81	H	3										Y	Y	M	S	
82	H	3										Y	Y	M	S	
83	H	2										Y	Y	N	S	
84	H	2										Y	Y	N	S	
85	F	2										Y	N	B	U	Not SRO-only because original part (2) answer choices were IAs for ROs. Revised procedural actions in (2) to be SRO specific.
86	H	2										Y	Y	B	S	
87	H	2										Y	Y	B	S	
88	H	2										Y	Y	N	S	

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89	H	2										Y	Y	M	S	
90	H	3										Y	Y	B	S	
91	H	3										Y	Y	M	S	Part B of K/A met
92	H	3										Y	Y	M	S	
93	H	2										Y	Y	M	S	
94	H	2										Y	Y	B	S	
95	F	2										Y	Y	M	E	Modified "Justification" section of 401-5 form to explain plausibility of C and D
96	H	2										Y	N	M	U	Not SRO: Discharge valve response is RO system level knowledge. Replaced Q
97	H	2										Y	Y	M	S	
98	F	2										Y	Y	N	S	
99	F	2										Y	Y	N	S	
100	H	3										Y	Y	M	S	

To: Todd Fish, Chief Examiner

From: Fred Bruns, Peach Bottom Regulatory Exam Author

Subject: Revisions to Peach Bottom Operating Exam Materials for the  
December 2009 Initial NRC License Examination

Date: November, 16, 2009

The following materials were revised based on comments from the NRC Examination Team during the on-site exam preparation held November 2 – 4, 2009.

A. Administrative JPMs:

1. Modified critical versus non-critical steps for 1 RO and 1 SRO Conduct of Operations JPM.
2. Clarified time-critical criteria for the RO Emergency Plan JPM.
3. Modified the associated K/A for the SRO Radiation Control JPM (on the JPM and Form ES-301-1).
4. Made additional editorial changes to various JPMs based on NRC examiner comments.

B. Control Room JPMs:

1. Modified critical versus non-critical steps for 1 JPM.
2. Made editorial changes to various JPMs based on NRC examiner comments.

C. In-plant JPMs:

1. Expanded the scope of 1 JPM such that the task is performed on 2 components vice 1.
2. Made editorial changes to various JPMs based on NRC examiner comments.



D. Simulator scenarios:

1. Scenario 1 – minor changes to Simulator Operator instructions.
2. Scenario 2 – minor scripting addition to Event 6.
3. Scenario 3:
  - a. Modified the setup conditions such that a system is available at the beginning of the scenario, but is unavailable later in the scenario (removed during Event 7).
  - b. Modified scripting for Event 7 (see above).
4. Scenario 4 – none.
5. Revised Form ES-D-1 for scenario 3.