

To: Todd Fish, Chief Examiner
From: Phil Nielsen, Peach Bottom Regulatory Exam Author
Subject: Adjustments to Peach Bottom Operating Exam Materials
for the February 2005 Initial NRC Examination.

The following materials received modifications resulting from comments from the NRC Examination Team during the on-site preparation held December 14 - 16, 2004.

Administrative JPMs

RO Conduct of Operations - Initiate a Temporary Change

- Enhanced the Initiation Cue for clarity.
- Enhanced the task standard for critical steps to indicate which sub-steps are critical.

RO Equipment Control - Identify Clearance Points

- Enhanced the task standard for critical steps to indicate which sub-steps are critical.

RO Emergency Plan - Make State and Local Notifications

- Enhanced the Initiation Cue for clarity.
- Removed the critical indication for some steps.

SRO Conduct of Operations - Manual Heat Balance

- Truncated JPM for evaluation efficiency while maintaining adequate length for a comprehensive evaluation.

SRO Equipment Control - Clearance Approval

- Added another error to the provided clearance.

SRO Radiation Control - Authorize an Emergency Exposure

- Enhanced the Task Conditions for clarity.

System JPMs

ADS Reset

- Enhanced Task Conditions by changing indicated Reactor Pressure for realism.

HPCI Suction Transfer

- Modified JPM to require the candidate to diagnose the condition before taking appropriate actions.

Subject: Adjustments to Peach Bottom Operating Exam Materials
for the February 2005 Initial NRC Examination (Continued)

System JPMs (Continued)

Diesel Generator Load Test

- Truncated JPM for exam administration efficiency.
- Removed Alternate Path

Off Gas - Place the Standby Air Ejector in service

- Enhanced Task Conditions by changing GP-2 Attachment reference

Main Steam - Close Stuck Open MSIV

- Changed from Unit 2 to Unit 3 JPM
- Clarified that this JPM is Alternate Path

RPS - Scram Solenoid Deenergization

- Enhanced Task conditions from specific rods to "several rods".

Control Room Ventilation Restoration

- Truncated JPM for exam administration efficiency

Simulator Dynamic Scenarios

Scenario 1

- Changed one event to require more RO actions on failure.

Scenario 2

- Changed classification of one failure from Instrument to Component.

Scenario 3

- Removed Instrument classification from one event present only for its Tech Spec evaluation.

Scenario 4

- Swapped sequence of first two events for exam administration efficiency.
- Removed Instrument classification from two events present only for their Tech Spec evaluation.
- Enhanced Shift Turnover for clarity.

Notes: 1. Bolded question numbers have had a technical review

2. At a meeting on 02/01/05 the licensee agreed to make all "E" and "U" changes to ensure all 100 questions are "S"

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	L	2											Y	N	S	
2	H	4											Y	N	S	
3	L	3											Y	N	S	
4	H	2											Y	N	E	cite T-101 in Q stem
5	L	2											Y	N	E	Reword question to "what is minimum torus, etc"
6	H	3											Y	N	E	Delete "expected"
7	L	2											Y	N	S	
8	H	2											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			
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:															
	<ul style="list-style-type: none"> • 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:															
	<ul style="list-style-type: none"> • 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 <i>designated SRO-only</i> (K/A and license level mismatches are unacceptable).															
6.	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?															
7.	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	Backward	Q=K/A	SRO Only			
9	L	2											Y	N	E	Cite procedure reference
10	L	2											Y	N	S	
11	H	3											Y	N	S	
12	H	3											Y	N	S	
13	H	2											Y	N	S	
14	H	3											Y	N	S	
15	H	3											Y	N	E	"A" is implausible; possible choices "A" NOT, "B" NOT, "C" SPRAY, "D" SPRAY
16	H	3											Y	N	S	
17	H	2											Y	N	E	Delete first sentence; name "this valve"; delete "expected"
18	H	3											Y	N	S	
19	L	3											Y	N	S	
20	L	2											Y	N	S	
21	L	3											Y	N	S	
22	L	2											Y	N	S	
23	H	3											Y	N	S	
24	L	2											Y	N	E	Eliminate 1 st paragraph

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		
25	L	2										Y	N	E	Delete the first sentence begin question with "Per T-102..."
26	L	3										Y	N	E	Delete middle sentence "What are implications"
27	H	3										Y	N	E	Delete "expected"
28	H	3										Y	N	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
29	L	2											Y	N	E	Format: Complete the following: Existing 480V...etc.
30	L	2											Y	N	E	Eliminate 1 st sentence
31	H	3											Y	N	S	
32	H	3											Y	N	S	
33	H	3											Y	N	S	
34	H	2											Y	N	S	
35	L	3											Y	N	E	Delete "expected".
36	H	3											Y	N	E	modify Q stem, e.g., "Following the Fast Transfer the SOONEST/EARLIEST power will be restored ... "
37	H	3											Y	N	E	Delete "expected" 2 places
38	L	2											Y	N	E	Delete "expected"
39	H	2											Y	N	E	Delete "expected"
40	H	3											Y	N	E	Delete "the RCIC system"; make choices work grammatically
41	H	3											Y	N	E	Grammar; match stem to choices
42	L	2											Y	N	S	

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	Backward	Q=K/A	SRO Only		
43	L	3										Y	N	E	Delete "expected", reword stem "...using procedures..."
44	L	2										Y	N	S	
45	L	2										Y	N	S	
46	H	3										Y	N	S	
47	H	2										Y	N	S	
48	H	3										Y	N	S	

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	Backward	Q=K/A	SRO Only			
49	L	3											Y	N	S	
50	H	2											Y	N	S	
51	H	3											Y	N	S	
52	L	1											Y	N	U	LOD 1; Non discriminatory as currently written (provided proposed replacement)
53	L	2											Y	N	E	Replace "expected" with "designed"; align choices with answer key
54	H	3											Y	N	E	Delete "expected"
55	L	2											Y	N	E	Delete "expected"
56	L	2											Y	N	S	
57	H	3											Y	N	E	Delete "expected"
58	H	3											Y	N	E	Delete "should"
59	L	2											Y	N	S	
60	H	2											Y	N	S	
61	H	3											Y	N	S	
62	L	2											Y	N	S	
63	L	2											Y	N	S	
64	H	2											Y	N	S	
65	L	1						X	X				Y	N	U	no operational validity

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
66	L	2										Y	N	S	
67	H	2										Y	N	S	
68	L	2										Y	N	S	

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	Backward	Q=K/A	SRO Only			
69	H	2											Y	N	E	Correct grammar
70	H	3											Y	N	S	
71	L	2											Y	N	S	
72	L	2											Y	N	E	Move "No ADCL extensions..." to conditions
73	H	3											Y	N	E	Add "not declared pregnant" to stem; stop last condition after diagnostic test
74	L	2											Y	N	S	
75	H	3											Y	N	S	
S-1	H	2											Y	Y	S	
S-2	H	3											Y	Y	E	Delete second bullet in stem. SRO expected to derive this from first bullet
S-3	L	2											Y	Y	E	Distractor "A" implausible; delete first sentence
S-4	H	3											Y	Y	S	
S-5	H	2											Y	Y	E	Punctuation; delete comma in Q; delete "using these plant conditions"
S-6	H	3											Y	Y	S	
S-7	L	2											Y	Y	E	Cite procedure; delete "should"
S-8	H	2				X							Y	Y	U	Distractors "C" and "D" implausible with steam flow > feed flow.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only		
S-9	H	2										Y	Y	E	Reformat to fill-in-blank.
S-10	L	2										Y	Y	S	
S-11	L	2										Y	Y	E	Reformat; delete second sentence
S-12	H	2										Y	Y	S	
S-13	H	3										Y	Y	E	Delete "expected"

