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ENTERGY – INDIAN POINT ENERGY CENTER

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**TO:** TODD FISH, CHIEF EXAMINER  
**FROM:** BILL ALTIC, AUTHOR – IP2 OPERATING EXAMINATION  
**SUBJECT:** CHANGE SUMMARY  
**DATE:** 10/5/2004

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SCENARIOS

*Scenario 1:*

Removed Event 4, 23 RCP High Vibration. BOP operator Task, not needed. Renumbered all subsequent events.

Reworded Critical Task 3 to “Stop all SI pumps within 45 minutes of SI actuation.” Original wording is valid for initiation from 100% power only. 45 minute limit is per the IP2 UFSAR.

Revised the initial conditions to provide turnover with Main Feedwater already in service. This eliminates the actions to shift from Auxiliary Feedwater to Main Feedwater; task not needed.

*Scenario 2:*

Added note to event description for events 1 and 2 to indicate that these events require SRO Technical Specification reference.

Changed scenario initial conditions to provide a required BOP operator action to start a Non-Essential SWP after loss of Bus 6A. Added note to setup to ensure that 23 SWP is in service.

*Scenario 3:*

Added note to event description for events 2 and 3 to indicate that these events require SRO Technical Specification reference.

Revised wording of event description for event 7 to more accurately reflect the malfunction. Both recirculation pumps will not start vice fail to auto start. Added further clarification that RHR will be used for low head recirculation.

Added to shift turnover instructions: Reactor Engineer recommends that control rods be withdrawn 10 steps prior to continuing dilution.

*Scenario 4:*

Added note to event description for event 2 to indicate that this event requires SRO Technical Specification reference.

Swapped sequence of events 2 and 3 to improve scenario flow path.

Added a new event number 5: AFW Flow Control Valve to faulted SG does not close from the Control Room. Renumbered subsequent event.

#### JPMS

##### *Sim-D*

Replaced RCP Malfunction JPM with a bank JPM. New task has better discriminatory value.

##### *Sim-E*

Simplified initial conditions and initiating cue to improve/clarify directions for applicant. Added critical step to attempt start of 23 Aux FW Pump.

##### *Sim-H*

Increased scope of task to include removal of instrument control power. Additional steps improve discriminatory value of the JPM.

##### *Plant-I*

Replaced JPM with new task to improve discriminatory value. New task is also a new alternate path JPM.

##### *Admin RO-2*

Removed SRO level steps from task performance. JPM includes only RO level actions.

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	2										Y		S	
2	H	2										Y		S	
3	H	3										Y		S	
4	H	3										Y		S	
5	F	2										Y		S	
6	F	1				X						Y		U	Distractors A, C, + D implausible; replace Q
7	H	4										Y		S	
8	H	3										Y		S	
9	H	3										Y		E	modify answers to include AUTO response

## 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.
  - One or more ~~than one~~ distractors is not credible.
  - 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).
- Based on the reviewer's judgment, is the question as written (U)nacceptable (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).

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		
10	H	3										Y		S	
11	F	2										Y		S	
12	H	3										N		U	K/A m/m replace Q
13	H	2										Y		S	
14	F	2										Y		S	
15	F	3										Y		S	
16	H	3										Y		S	
17	F	2										Y		S	
18	H	3										Y		S	
19	H	3										N		U	K/A m/m replace Q
20	H	3										Y		S	
21	H	3										Y		S	
22	H	3										Y		S	
23	H	3										Y		S	
24	H	3										Y		S	
25	H	3										Y		S	
26	H	3										Y		S	
27	H	2										Y		S	
28	H	3										Y		S	
29	F	4										Y		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		
30	H	2										Y		S	
31	H	2										Y		S	
32	H	3	X									Y*		E	add "and WHY" to Q; 2 <sup>nd</sup> part of K/A met*
33	H	3										Y		S	
34	H	3										N		U	K/A m/m replace Q and/or K/A
35	H	3										Y		S	
36	H	3										N		U	K/A m/m replace K/A and/or Q
37	H	2										Y		S	
38	H	3										N		U	K/A m/m replace Q, include plwr supply
39	H	3										N		U	K/A m/m replace K/A and/or Q
40	H	2										Y		E	Provide time boundary to stem
41	F	2										Y		S	
42	F	2				X						Y		E	add "if any" to Q, otherwise dist. A implausible
43	H	3										Y		S	
44	H	2										Y		S	
45	H	3										Y		S	
46	H	3										Y		S	
47	H	3										Y		S	
48	H	2										Y		S	
49	H	2										Y		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		
50	F	3										Y		S	
51	H	3										Y		S	
52	F	3										Y		S	
53	H	3										Y		S	
54	H	4/5						X				Y		U	Not applicable to RO applicant; replace Q
55	F	3				X						Y		E	Dist "D" implausible, replace/reword
56	H	2										Y		S	
57	F	2										Y		S	
58	H	3										Y		S	
59	H	2										Y		S	
60	H	2										Y		S	
61	H	3										Y		E	truncate "Why" part of answers/distractors
62	H	2										N		U	K/A m/m replace Q K/A and/or Q
63	F	2										Y		S	
64	H	2										Y		S	
65	H	2	X									Y		E	eliminate 1 <sup>st</sup> sentence; unnecessary info
66	H	2				X						Y		E	replace Distractors A+B w/ "INCREASE bus voltage"
67	H	3										Y		S	
68	F	3										Y		E	add procedure reference to stem
69	H	3										Y		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		
70	H	2										Y		S	
71	H	2										Y		S	
72	F	3										Y		S	
73	F	2										Y		S	
74	F	2										Y		S	
75	H	3										Y		S	
76	H	3										Y	Y	S	
77	H	3										Y	Y	S	
78	H	3										Y	Y	S	
79	H	3										Y	Y	S	
80	H	3										Y	Y	S	
81	H	3		X								Y	Y	E	replace "AC electrical ... subsystem" w/ power supply
82	H	2										Y	Y	S	
83	H	3										Y	Y*	E*	*add procedure usage part to Q
84	H	3										Y	Y*	E*	*add procedure usage part to Q
85	H	2										Y	N	U	not SRO-only (55.43 not met)
86	H	3										Y	N	U	not SRO-only (55.43 not met)
87	H	3										Y	Y	YS	
88	H	2										Y	Y	S	
89	H	3										Y	Y	S	

NUREG-1021, Draft Revision 9