

**NRC COMMENTS TO INITIAL EXAM SUBMITTAL**

**INCLUDING ES-401-9 AND OPERATING COMMENTS**

**FOR THE BRAIDWOOD INITIAL EXAMINATION**

**DECEMBER 2007**

Braidwood December 2007 Exam

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			
1	H	4	X												U	<p>New. Question is such that the correct answer could change with differing assumptions. For example, to get the correct answer, one needs to assume a prompt drop of exactly 100 following the reactor trip, NOTE: This assumption is incorrect, since the prompt drop is equal to <math>[B / (B - p)]</math>. Taking <math>B = 0.0065</math> and <math>p = -0.05</math> (i.e., assume 5% shutdown immediately following a reactor trip), we get that the prompt drop is equal to 0.115 ( or power drops immediately by a factor of 9 instead of 100). Another assumption is that of a negative SUR of -0.5 dpm from an IR current of 2.5E-6 to 2E-8 amps, and then a -1/3 dpm SUR from an IR current of 2E-8 to 5E-11 amps. If one assumes a prompt drop of 100 and then a negative SUR of -1/3 dpm after this, one comes up with a time of 14.4 minutes, making distractor C the correct answer (instead of distractor B). Suggest changing the question to ask what is the <u>earliest</u> time at which the SR would be energized.</p> <p><b>RESOLUTION:</b> Question changed to ask what the earliest time at which the source range would be energized.</p>

**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).
- 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).

A "+" in the "Q#" column indicates that question was reviewed as part of the representative sample of 30 questions.

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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			
2	H	3													S	New.
3	H	2													S	New. <u>NOTE:</u> Question requires a reference.
4	H	2													S	New.
5	F	3													S	New.
6+	F	3													S	New.
7	F	3				X									E	Bank. Distractor C is not plausible that the 1B RHR pump would seize if started. <u>RESOLUTION:</u> To make it more plausible, changed distractor C to say pump may seize if it is not heated up prior to starting.
8	F	3													S	New.
9+	H	3													S	New.
10	F	2													S	New.
11	F	2					X								U	Bank. Based on page 19 of the Lesson Plan provided, distractor A could also be considered correct (i.e., prevent excessive RCS cooldown). <u>RESOLUTION:</u> Distractor A changed such that it is incorrect.
12	F	3				X									E	New. To make distractor C more plausible, change distractor to say: 100% power, BOL. <u>RESOLUTION:</u> Comment incorporated.
13+	H	3													S	New.
14	H	3													S	New.
15	H	3													S	New.
16+	H	3													E	New. In the question stem, to provide emphasis, underline the word "interlock." <u>RESOLUTION:</u> Added the word "control" before interlock and fully capitalized the words "CONTROL INTERLOCK."

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		
17	F	3												S	New.
18	F	3												S	New.
19+	H	3												S	New.
20	H	3												S	New. <u>NOTE:</u> Question requires a reference.
21	H	3												S	New.
22	H	2				X								U	New. 1) Distractors B and C are not plausible that CI Phase A would occur on a high radiation condition. 2) In the question stem, change "actuators" to "actuators/interlocks," since Upward motion of the FH Building Crane being prohibited is not an actuation. <u>RESOLUTION:</u> 1) CI Phase A was deleted as an option in the distractors. 2) Comment incorporated.
23+	H	3												S	New.
24	F	3												S	New.
25	H	2												S	Bank.
26+	H	3												S	New.
27	F	2												S	New.
28	H	3												S	New.
29+	H	2												S	New.
30	H	3												S	New.
31	F	2												S	New.
32	F	3												S	New.
33+	H	3												S	New.
34	F	3												S	New.
35	F	3												S	New.
36+	F	2												S	New.

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		
37	H	3												S	New.
38	H	3												E	Modified. Editorial: In distractor B, delete the word "are." <u>RESOLUTION</u> : Comment incorporated.
39+	H	3												S	New.
40	H	3												E	Bank. In the question stem, add the word "remaining" before the word "coincidence(s)." <u>RESOLUTION</u> : Comment incorporated.
41	H	3												S	New.
42	F	2												S	New.
43+	H	3	X											E	New. 1) In the question stem, after the words "NEXT action", add the following "(from the actions listed below)". Reason: Distractor A would not be correct as written, since the next action would be to check RCFCs running in accident mode per step 2 of 1BwCA-1.3. 2) Editorial: In the question stem, second to last bulleted item, change the word "has" to "have." <u>RESOLUTION</u> : Comments incorporated.
44	H	3												S	New.
45	F	2												S	Bank.
46+	H	2												E	New. In the question stem, change the power ascension value from 100% to a lower value (at which the FW reg bypass valve could allow a power ascension to, e.g., 80%) <u>RESOLUTION</u> : Comment incorporated.
47	H	3												S	Bank.
48	F	2												S	New.
49+	H	3												E	New. In distractor A, add the word "may" before the word "cause." <u>RESOLUTION</u> : Comment incorporated.
50	F	1												U	New. LOD = 1, that DC Bus 114 will be deenergized if the fuses blow that supply the bus, and that the upstream DC Bus 112 will still have normal voltage. <u>RESOLUTION</u> : Question replaced with one from a different K/A. The revised question is at the Fundamental level, LOD = 3, and New.

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		
51	H	3												S	New.
52	F	3												S	New.
53+	F	2												S	New.
54	F	3												S	New.
55	F	1												U	New. LOD = 1 that starting an additional RCFC will cause containment temperature and pressure to lower. <u>RESOLUTION</u> : Question replaced with one from a different K/A. The revised question is at the Fundamental level, LOD = 3, and New.
56+	F	2												E	New. In the question stem, change the last bulleted item to "Bus 144 then becomes deenergized due to a bus fault." <u>RESOLUTION</u> : Comment incorporated.
57	F	3												S	Bank.
58	H	3												S	New.
59+	H	3												S	New.
60	H	3												S	New.
61	H	3												S	New.
62	H	3												S	New.
63+	H	2												S	New.
64	H	2												S	New.
65	F	3												S	New.
66+	F	2												S	New.
67	H	2												E	Bank. To increase the LOD, change the question stem to ask the applicable Mode at 0700 instead of 0645. The correct answer then becomes distractor A. <u>RESOLUTION</u> : Comment incorporated.
68	F	3												S	New.
69+	H	2												S	Modified.

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		
70	H	3												S	Bank.
71	H	2												S	Modified.
72	H	3												S	New.
73+	F	2												S	Modified.
74	F	2												S	New.
75	F	3												E	New. 1) The NARS form shows that Illinois REAC would also be initially notified for an ALERT condition. 2) This question about initial NARS notifications appears to be at the SRO level. Why would you expect an RO to know this? <u>RESOLUTION:</u> 1) Changed correct answer such that Illinois REAC would also be expected to be notified. Also, added to the question stem to assume all agencies were fully staffed. 2) RO Terminal Objective 3F.ZP-04-A, and RO Enabling Objective T1.ZP1-34 would expect the RO to know the answer to the question.
76+	H	3											X	E	New. Editorial: In the second bulleted item of the question stem, delete the second "the" in the sentence. <u>RESOLUTION:</u> Comment incorporated.
77	H	3											X	E	New. The Explanation as to why distractor D is incorrect is referring to an ATWS scenario, where the turbine is expected to be tripped within 60 seconds. However, there is no ATWS for the event in this question, and thus distractor D and its explanation do not make sense. <u>RESOLUTION:</u> Changed distractor D.
78	H	3											X	S	New. <u>NOTE:</u> Question requires a reference.
79+	H	3											X	E	New. In the question stem, add the words "of the following actions," after "Based on the above indications,". <u>RESOLUTION:</u> Comment incorporated.
80	H	3											X	S	Bank.
81	H	3											X	E	New. To provide distractor balance, change distractor C to say to transition to 1BwCA-1.1 instead of 1BwEP-1. <u>RESOLUTION:</u> Comment incorporated.
82	F	3											X	S	New.

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			
83+	H	2											X	E	New. In distractor A (correct answer), it should say to "complete 1BwFR-Z.1" instead of "complete the applicable steps of 1BwFR-Z.1" <u>RESOLUTION</u> : Comment incorporated.	
84	H	3				X								X	E	Bank. To make distractor D more plausible, change to : 2BwES-1.2, Post LOCA Cooldown and Depressurization. <u>NOTE</u> : Question requires a reference. <u>RESOLUTION</u> : Comment incorporated.
85	H	3												X	S	Bank. <u>NOTE</u> : Question requires a reference.
86+	H	3												X	S	Bank.
87	H	3												X	S	New.
88	H	3												X	S	New. <u>NOTE</u> : Question requires a reference.
89+	F	3												X	U	Bank. An applicant is not required to know a 14 day LCO from memory. <u>RESOLUTION</u> : Revised question to only ask what are Tech Spec required actions within the first hour. Revised question is at the Fundamental level, LOD = 3, and New.
90	H	3												X	E	New. In distractor D, delete the information after the words "declare 0A VC train inoperable." Reason: An applicant is not required to know a 7 day LCO from memory. <u>RESOLUTION</u> : Comment incorporated.
91	H	3												X	S	New. <u>NOTE</u> : Question requires a reference.
92	H	3												X	E	New. To ensure distractor B is incorrect, change the first sentence to: Unit 1 FC pump trips on a low SFP level signal." <u>RESOLUTION</u> : First sentence changed to say that the Unit 1 FC pump trips when the low SFP alarm is received.
93+	H	3				X								X	E	New. Distractor C is not plausible that the 2B RH train can be shutdown indefinitely in Mode 6. <u>RESOLUTION</u> : Distractor C changed to make it more plausible.
94	F	3				X								X	E	New. To make distractor C more plausible, change distractor C to say "AND a second SRO must" instead of "AND the Operations Director must." <u>RESOLUTION</u> : Distractor C changed to say "AND the Nuclear Duty Officer must."

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		
95	F	2				X							X	E	New. 1) In distractor A, change the word "task" to "step." 2) Distractor C is not plausible that a continuous action step is a step that one performs from memory without delay. Change distractor C to: perform the required actions referenced directly from the Continuous Action Summary page. <u>RESOLUTION</u> : Comments incorporated.
96+	F	2											X	S	New.
97	F	2											X	S	New.
98	F	3											X	U	New. In the question stem, item 4 reference procedure should be 0BwOS RETS 2.1.B-1 instead of 0BwOS RETS 2.1-1a. <u>RESOLUTION</u> : Comment incorporated.
99+	F	3											X	S	New.
100	H	2											X	S	New. <u>NOTE</u> : Question requires a reference.

## BRAIDWOOD DECEMBER 2007 INITIAL LICENSE EXAM OPERATING EXAM COMMENTS

#	Source	Comment	Resolution
1.	<p style="text-align: center;"><b>Admin JPM A (R-103 Perform Shutdown Margin Calculation) RO</b></p>	<p>1) On page 6, in the Performance Step and Standard columns, change the Power Defect from -1750 pcm to -1725 pcm, to better reflect the reading in Figure 17A.</p> <p>2) On page 7, in the Standard column, change the Power Defect from -1750 pcm to -1725 pcm,</p> <p>3) On page 7, in the Performance Step and Standard columns, change the value of 78.4 pcm to 86.4 pcm.</p>	Comments incorporated.
2.	<p style="text-align: center;"><b>Admin JPM A (R-103 Perform Shutdown Margin Calculation) RO</b></p>	<p>On pages 1 and 2, change Task Condition 3.a to state that Tave is 581°F instead of 587°F in order to reflect nominal Tave for Unit 2 at 100% power. Also, on page 3, Step 2, change Tave from 587°F to 581°F.</p> <p><b>[Comment during onsite validation]</b></p>	Comment incorporated.
3.	<p style="text-align: center;"><b>Admin JPM A (S-107 Review Shutdown Margin Calculation) SRO</b></p>	<p>1) On pages 1 and 2, In the Initiating Cues, change "Unit 1 Assist NSO" to "Unit 2 Assist NSO."</p> <p>2) Regarding Performance Step 7:</p> <p>a) Step 7 should be a Critical Step, since it is the reason that this JPM is Time Critical.</p> <p>b) Delete mention of Tech Spec 3.1.1 entry conditions being met, since Tech Spec 3.1.1 does not apply in Mode 1.</p> <p>c) Delete the word "emergency" in the term "emergency boration", since Tech Spec 3.1.4 only requires boration.</p> <p>d) Add for the SRO to identify that Tech Spec Condition A.2 applies (be in Mode 3 in 6 hours)</p> <p>e) Add the requirements of step 7 to the Task Standard on page 2.</p>	Comments incorporated.
4.	<p style="text-align: center;"><b>Admin JPM A (S-107 Review Shutdown Margin Calculation) SRO</b></p>	<p>1) On pages 1 and 2, change Task Condition 3.a to state that Tave is 581°F instead of 587°F in order to reflect nominal Tave for Unit 2 at 100% power. Also, on page 3, Step 2, change Tave from 587°F to 581°F.</p> <p>2) On page 7, step 7, change the first NOTE to say: "If examinee determines shutdown margin is inadequate, ..."</p> <p><b>[Comments during onsite validation]</b></p>	Comments incorporated.
5.	<p style="text-align: center;"><b>Admin JPM B (R-107 Perform Mode 5 Shiftly and Daily Operating Surveillance) RO and SRO</b></p>	<p>On page 5, Performance Step 8, put "(Data Sheets D-9 and D-10)" instead of "Data Sheet D-10)".</p>	Comment incorporated.

## POINT BEACH JULY 2007 INITIAL LICENSE EXAM OPERATING EXAM COMMENTS

6.	<b>Admin JPM B</b> <b>[R-107 Perform Mode 5</b> <b>Shiftly and Dally</b> <b>Operating</b> <b>Surveillance]</b> <b>RO and SRO</b>	On pages 1 and 2, in Initiating Cue 1, state to perform the "incomplete items" on data sheets D-5 thru D-11.  <b>[Comment during onsite validation]</b>	Comment incorporated.
7.	<b>Admin JPM C</b> <b>[R-201 Hang Worker</b> <b>Tagout (1A FW Pump)]</b> <b>RO</b>	1) On page 2, change the K/A from 2.2.12 to 2.2.13 to agree with the Administrative Topics Outline form. 2) Editorial: On page 5, in the NOTE for Performance Step 9, change the word "deenergized" to "deenergize."	Comments incorporated.
8.	<b>Admin JPM C</b> <b>[R-201 Hang Worker</b> <b>Tagout (1A FW Pump)]</b> <b>RO</b>	1) On pages 1 and 2, delete Task Condition 2 that Unit 1 is at 100% power, since the condition is not relevant to the task. 2) On pages 1 and 2, in Initiating Cue 1, change to "review and hang" the tagout , instead of just to "hang" the tagout. 3) On pages 1 and 2, add another Initiating Cue that another NSO will monitor the remainder of the MCB panels. 4) Add a CUE to Step 1 that ,if requested, to provide a copy of the Tagout and Clearance procedure. 5) Re-order and re-number steps 4 thru 10 to reflect a different sequence of hanging the tags. 6) On pages 8 and 9, re-order to reflect a different sequence of hanging the tags.  <b>[Comments during onsite validation]</b>	Comments incorporated.
9.	<b>Admin JPM C</b> <b>[S-201 Initiate a</b> <b>LCOAR (1A SI Pump)]</b> <b>SRO</b>	Editorial: On page 2, in the Initiating Cues, delete the number 2 and re-number item 3 to be item 2.	Comment incorporated.
10.	<b>Admin JPM C</b> <b>[S-201 Initiate a</b> <b>LCOAR (1A SI Pump)]</b> <b>SRO</b>	1) On page 2, in Initiating Cue 1, add the name of the Shift Manager so that that Cue agrees with the Cue on page 1. 2) In step 4, Standard, make the Unit NSO signature reflect an open bullet instead of a closed bullet. 3) On page 4, step 6, change the CUE to say that, if asked, another SRO will enter this LCOAR entry into the LCOAR data base.  <b>[Comments during onsite validation]</b>	Comments incorporated.

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11.	<b>Admin JPM D</b> [R-302 Respond to 1PR03J High Radiation Alarm]  RO and SRO	<b>This JPM is unacceptable</b> , since it a system JPM to respond to a high radiation alarm and manipulate plant equipment, instead of an Admin JPM.	JPM replaced. New JPM is to determine radiological conditions and entry requirements for 1A RH Heat Exchanger room.
12.	<b>Admin JPM D</b> [R-302 Respond to 1PR03J High Radiation Alarm]  RO and SRO	1) On page 2, re-number the Initiating Cue from "2" to "1". 2) On page 3, step 1, change the CUE to say to provide the examinee a copy of the 1A RH HX Survey Map only. <b>[Comments during onsite validation]</b>	Comments incorporated.
13.	<b>Admin JPM E</b> [S-400 Prepare and Approve Nuclear Accident Reporting System Form]  SRO	1) Editorial: In Performance Step 1, change "page 6" to "page 7". 2) In Performance Step 2, for the Standard, move the "Status" and "Station" from Performance Step 3 to Performance Step 2. 3) Editorial: On page 4, in the Evaluator Note, change the following: - "miler" to "miles" - "miles per second" to "meters per second" - "lease" to "least"	Comments incorporated.
14.	<b>Admin JPM E</b> [S-400 Prepare and Approve Nuclear Accident Reporting System Form]  SRO	On page 4, step 5, change the CUE to say that , if asked, to provide a copy of procedure EP-AA-114-F-01.  <b>[Comment during onsite validation]</b>	Comment incorporated.
15.	<b>JPM A</b> [SIM-110 Perform Emergency Boration for Inadequate Shutdown Margin]  Simulator	On page 2, page 4, Performance Step 8, and page 5, Performance Step 10: a) Change to make these steps not critical. b) Change Standard to reflect raising 1FK-121 flow controller to 100% demand <b>[Comments during onsite validation]</b>	Comments incorporated.
16.	<b>JPM B</b> [SIM-222 Align Ventilation Systems for Emergency Operations] Simulator	1) On page 6, in the Standard column, change to say: "Verify fan control damper THROTTLED or OPEN". 2) On page 8, in the Standard column, change to say: "Verify fan control damper OPEN".	Comments incorporated.
17.	<b>JPM B</b> [SIM-222 Align Ventilation Systems for Emergency Operations] Simulator	1) For steps 6, 7, 8, and 9, provide more detail on which dampers (by damper number) are required to be checked. 2) In step 2, change the second bulleted item in the Standard to say: Verify 0PR33J & 0PR34J cursors are GREEN. <b>[Comments during onsite validation]</b>	Comments incorporated.

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18.	<b>JPM C</b> <b>[SIM-206 Lower 1C SI</b> <b>Accumulator Level]</b> <b>Simulator</b>	On pages 1 and 2, in Task Condition 5, change "BwARs" to "BwAR."	Comment incorporated.
19.	<b>JPM C</b> <b>[SIM-206 Lower 1C SI</b> <b>Accumulator Level]</b> <b>Simulator</b>	<p>1) On page 6, step 7, add a NOTE that at the discretion of the examiner, when the accumulator high level alarm is clear, that the examiner can provide a CUE that 1C SI Accumulator level is at 58%.</p> <p>2) In step 7, Standard, change the level range for draining the 1C Accumulator from 58 +/- 1% to 58 +/-2%.</p> <p><b>[Comments during onsite validation]</b></p>	Comments incorporated.
20.	<b>JPM D</b> <b>[SIM-400P Secure 1B</b> <b>RH pump From</b> <b>Shutdown Cooling and</b> <b>Align for Cold Leg</b> <b>Injection]</b> <b>Simulator (RO Only)</b>	<p>1) On page 1, in the Initiating Cues, add item 3 from the Initiating Cues on page 2.</p> <p>2) On page 3, for Performance Step 2, change from "(step F.9)" to "(steps F.9 – F-10)".</p>	Comments incorporated.
21	<b>JPM D</b> <b>[SIM-400P Secure 1B</b> <b>RH pump From</b> <b>Shutdown Cooling and</b> <b>Align for Cold Leg</b> <b>Injection]</b> <b>Simulator (RO Only)</b>	<p>1) On pages 1 and 2, add another Initiating Cue that another NSO will monitor the remainder of the MCB panels.</p> <p>2) On page 2, change the Approximate Completion Time from 35 minutes to 25 minutes.</p> <p>3) On page 5, make the following changes:</p> <p>a) Change "Place 1RH618" to "Place 1RH619".</p> <p>b) Change "Verify 1RH607 is in AUTO and OPEN" to "PLACE 1RH611 C/S to OPEN".</p> <p>c) Add another bulleted at the end of the page to verify/restore placards for SVAG valves and RH loop suction valves.</p> <p><b>[Comments during onsite validation]</b></p>	Comments incorporated.
22.	<b>JPM E</b> <b>[SIM-501 Drain the</b> <b>PRT]</b> <b>Simulator</b>	Step 7 to stop the RCDT pump, if necessary, should be a Critical Step, since it part of the action required to satisfy the Task Standard to restore PRT pressure, if PRT pressure drops to 0 psig.	Comment incorporated.
23.	<b>JPM E</b> <b>[SIM-501 Drain the</b> <b>PRT]</b> <b>Simulator</b>	<p>On page 5, step 8, add a CUE that when the PRT high level alarm is clear, to say that the Unit 1 Unit Supervisor directs you to secure drain of the PRT.</p> <p><b>[Comment during onsite validation]</b></p>	Comment incorporated.

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24.	<b>JPM F</b> [SIM-610 perform Low Power Electrical Alignment] Simulator	In step 2, change "Bus 144 Synch" to "Bus 143 Synch" in two places.  [Comments during onsite validation]	Comments incorporated.
25.	<b>JPM G</b> [SIM-800 Swap CC Pumps] Simulator	1) On page 2, delete Task Condition 3, to make it consistent with page 1 Task Conditions.  2) Regarding performance Step 10:  a) Only ask the Tech Spec question to the SRO candidates, and not the RO candidate.  b) Make this step a Critical Step.	Comments incorporated.
26.	<b>JPM G</b> [SIM-800 Swap CC Pumps] Simulator	1) On pages 1 and 2, add to Task Condition 3: "in accordance with BwOP CC-10, ALIGNMENT OF THE 0 CC PUMP TO A UNIT".  2) On pages 1 and 2, add another Initiating Cue that another NSO will monitor the remainder of the MCB panels.  3) On page 3, step 3, provide a CUE for Unit 2 operator to acknowledge report of 1B CC pump start.  4) On page 3, step 3, provide a CUE that if the examinee asks for a pump preference, for the Unit 1 Unit Supervisor to say to direct the examinee to determine pump alignment.  [Comments during onsite validation]	Comments incorporated.
27.	<b>JPM H</b> [SIM-901 Perform Waste Gas Release Channel Checks] Simulator	1) On page 3, in the Standard column for Step 3, change "ALERT" to "HIGH".  2) On page 5, in the Performance Step column for Step 6, Change "OPA202" to "OPB102".  3) On page 5, in the Standard column for Step 7, change "ALERT" to "HIGH".	Comments incorporated.
28.	<b>JPM I</b> [IP-100 Rod Drive MG Startup and Paralleling with Auto Synchronization Failure] In-Plant	Editorial: On page 5, change pages 7 and 8 to pages 8 and 9, in both the "Evaluator Note" and in performance Step 5.	Comment incorporated.
29.	<b>JPM I</b> [IP-100 Rod Drive MG Startup and Paralleling with Auto Synchronization Failure] In-Plant	1) On page 3, step 2, delete mention of "2RD03E-B-1RV-A" in two different places.  2) On page 4, step 3, delete mention of "2RD03E-B-1RV-A" in two different places.  3) On page 4, step 3, delete mention of "2RD03E-B-1RV-C" in two different places.  [Comments during onsite validation]	Comments incorporated.

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30.	<b>JPM J [IP-400S Local Start of 1B AF Pump with Failure of Battery Bank] In-Plant</b>	<p>1) On page 2, add to the "MATERIALS" section that a GA Key is required for accessing the 2B AF pump rear door.</p> <p>2) On page 2, add to the "Initiating Cues" an Evaluator Note that a GA Key is required for accessing the 2B AF pump rear door.</p> <p>3) On page 3, step 2, add a CUE that, if asked, that you hear the Gearbox lube oil pump motor running.</p> <p>4) On page 3, step 2, add to the last CUE that the inlet pressure is on the RIGHT side and the outlet pressure is on the LEFT side.</p> <p>5) On page 5, step 7, change "1805 rpm" to "1825 rpm" in the CUE.</p> <p>6) On page 5, step 8, change "120 gpm" to "90 gpm" in the CUE.</p> <p><b>[Comments during onsite validation]</b></p>	Comments incorporated.
31.	<b>JPM K [IP-704 Align the Fire Hazards Panel] In-Plant</b>	<p>1) On pages 1 and 2, change Initiating Cue 2.a to be "2A and 2B SG WR Levels."</p> <p>2) On pages 1 and 2, change Initiating Cue 2.b to be "2A and 2B SG Pressures."</p> <p>3) On page 2, change the K/A Importance from 3.9/3.9 to 3.9/3.4.</p>	Comments incorporated.
32.	<b>ES-D-1 form for Scenario # NRC 07-1</b>	<p>Change the Event Description for Event 7 to: Loss of RCS Pressure Control.</p> <p>Reason: Event 7 includes a failure of an IA containment isolation valve to open and an IA leak on a PZR PORV accumulator which causes a loss of RCS pressure control.</p>	Comment incorporated.
33.	<b>Scenario # NRC 07-1 Scenario Overview Page 2</b>	<p>1) In the 3<sup>rd</sup> paragraph, change Technical Specifications 3.3.1 to 3.3.2 for the SG pressure channel failure.</p> <p>2) In the 5th paragraph, change Technical Specifications 3.4.11 Conditions A and C to Conditions B and C (similar to that on page 10) for the PZR PORV 1RY456 failure.</p> <p>3) Editorial: In the paragraph associated with SGTR, add the word "to" (ie., transition <u>to</u> 1BwCA 3.3.)</p>	Comments incorporated.
34.	<b>Scenario # NRC 07-1 Event 2 Page 8</b>	<p>Typos: When stabilizing 1D SG level, change the bulleted item to : "Raise (from Raised) demand on 1FK540 sufficiently to (from t) ..."</p>	Comment incorporated.

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35.	<b>Scenario # NRC 07-1 Event 3 Page 10</b>	Should it say to enter Tech Spec 3.4.1 if PZR pressure is < 2209 psig instead of Tech Spec 3.2.5 if PZR pressure is < 2209 psig (similar to scenario # NRC 07-3 on page 11)?	Yes, Tech Spec 3.4.1 is the correct Tech Spec. instead of 3.2.5.
36.	<b>Scenario # NRC 07-1 Event 4 Page 11</b>	Delete mention of 3 step increments when withdrawing control rods to match Tave to Tref.	Comment incorporated.
37.	<b>Scenario # NRC 07-1 Event 6 and 7 Page 20</b>	Typo: Change 1RY800A to 1RY8000A.	Comment incorporated.
38.	<b>Scenario # NRC 07-1 Event 6 and 7 Page 24</b>	Editorial: Change "RCS pressure > 1930" to "RCS press > 1930 psig."	Comment incorporated.
39.	<b>Scenario # NRC 07-1 Event 2 Page 9</b>	In the sentence that requires the Unit Supervisor to determine that TS 3.3.4 condition A is applicable, add that the US may determine applicability by referring to procedure 1BwOSR 3.3.4.1.  [Comment during onsite validation]	Comment incorporated.
40.	<b>Scenario # NRC 07-1 Event 5 Page 15</b>	Add that the RO recognizes that DNB Tech Specs LCO 3.4.1 is entered , if applicable.  [Comment during onsite validation]	Comment incorporated.
41.	<b>Scenario # NRC 07-1 Event 6 Page 23</b>	Editorial: Change "Identify ruptured SG 1A" to "Identify ruptured SG 1B".  [Comment during onsite validation]	Comment incorporated.
42.	<b>Scenario # NRC 07-1 Event 6 and 7 Page 27</b>	Terminate the scenario when high head SI is terminated.  [Comment during onsite validation]	Comment incorporated.
43.	<b>ES-D-1 form for Scenario # NRC 07-2</b>	Should mention of 1B RH pump OOS be deleted?	Yes, mention of 1B RH pump OOS was deleted.
44.	<b>Scenario # NRC 07-2 Page 6</b>	Editorial: At top of page , add " / 1B SX pump trip", for Events 8, 9, & 10.	Comment incorporated.
45.	<b>Scenario # NRC 07-2 Event 7 &amp; 8 Page 17</b>	Highlight as a Critical Task, the step to manually trip the Turbine.	Comment incorporated.
46.	<b>Scenario # NRC 07-2 Event 8 Page 19</b>	Should mention of 1B RH pump OOS be deleted?	Yes, mention of 1B RH pump OOS was deleted.

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47.	<b>Scenario # NRC 07-2 Turnover Sheets</b>	Should mention of 1B RH pump OOS be added to the Shift Manager, Unit 1 Supervisor, and Unit 1 NSO Turnover Sheets?	No, mention of 1B RH pump will not be added, since the pump will be in service during the scenario.
48.	<b>ES-D-1 form for Scenario # NRC 07-2</b>	Change the Turnover to say that the online risk is Green instead of Yellow. <b>[Comment during onsite validation]</b>	Comment incorporated.
49.	<b>Scenario # NRC 07-2 Scenario Overview Page 2</b>	1) Change the second sentence to say that the online risk is Green instead of Yellow. 2) In the 7 <sup>th</sup> paragraph, change the preface to the failure of PR channel N-43 with "After the instrument bus 111 failure is addressed." <b>[Comments during onsite validation]</b>	Comments incorporated.
50.	<b>Scenario # NRC 07-2 Page 5</b>	Under Events 5, 6, & 7, delete the first paragraph, since the failure of PR channel N-43 will no longer be timed in at 3 minutes. <b>[Comment during onsite validation]</b>	Comment incorporated.
51.	<b>Scenario # NRC 07-2 Event 2 Page 10</b>	Change "CV110B " to "CV11B" in two places. <b>[Comment during onsite validation]</b>	Comment incorporated.
52.	<b>Scenario # NRC 07-2 Event 3 Page 12</b>	Under the RO actions, in two places, change "PZR pressure" to "PZR level". <b>[Comment during onsite validation]</b>	Comment incorporated.
53.	<b>Scenario # NRC 07-2 Event 8 Page 25</b>	Change the US actions such that one can enter an ALERT FA1 in one of two ways: 1) If RCS subcooling is acceptable, then Potential Loss of RCS. 2) If RCS subcooling is not acceptable, then Loss of RCS. <b>[Comment during onsite validation]</b>	Comment incorporated.
54.	<b>ES-D-1 form for Scenario # NRC 07-3</b>	Change the Turnover to say Unit 1 is operating at 99.5% power instead of 100% power.	Comment incorporated.
55.	<b>Scenario # NRC 07-3 Scenario Overview Page 2</b>	In the 4 <sup>th</sup> paragraph, add Tech Spec 3.3.4 Condition A to the Tech Specs associated with a 1PT-455A pressurizer pressure channel failure.	Comment incorporated.

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56.	<b>Scenario # NRC 07-3 Event 4 Page 11</b>	Should it say to enter Tech Spec 3.2.5 if PZR pressure is < 2209 psig instead of Tech Spec 3.4.1 if PZR pressure is < 2210 psig (similar to scenario # NRC 07-1 on page 10)?	No, Tech Spec 3.4.1 is the correct Tech Spec. In scenario NRC 07-1 on page 10), the Tech Spec was changed to 3.4.1 instead of 3.2.5.
57.	<b>ES-D-1 form for Scenario # NRC 07-3  and Event 4</b>	Replace Event 4 "PZR pressure channel 1PT-455A fails low" with "PR channel 1N41 fails high".  REASON: Reference IR 00687959, in which an ILT student after validation of the scenario noticed placekeeping markings on the page associated a PZR pressure channel failure.  [Comment during onsite validation]	Comment incorporated.
58.	<b>Scenario # NRC 07-3 Event 2 Page 7</b>	Under the RO actions, where the applicant turns on PZR backup heaters, add the following "in accordance with BwOP RY-14, PRESSURIZER BACKUP HEATER OPERATION."  [Comment during onsite validation]	Comment incorporated.