

**NRC COMMENTS TO THE PROPOSED
WRITTEN EXAMINATION, ES-401-9,
FOR THE BYRON INITIAL EXAMINATION - JUNE 2006**

Byron June 2006 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	3	X										X		E	New. With a Period of 80.6 seconds, the MINIMUM additional time expected would be 12.37 minutes, which would make distractor C the correct answer. Suggest changing the question stem to ask "Which of the following is the MINIMUM additional time ...", and then changing the distractors to A) 5 to 7 minutes, B) 11 to 13 minutes, C) 14 to 16 minutes, and D) 17 to 19 minutes (with B the correct answer). <u>RESOLUTION</u> : Comment incorporated.
2	H	3											X		S	New.
3+	H	3											X		E	New. Add a sentence to the question stem stating that RCP Trip Criteria have not been reached. <u>RESOLUTION</u> : Comment incorporated.
4	H	3											X		S	New.

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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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
5	H	3											X		E	New. Change from Fundamental to Higher Cognitive Level, since in the second part of the question, one must reason that a drop in CC Surge Tank level would indicate an increased system demand, with a corresponding rise in CCW discharge flowrate. <u>RESOLUTION</u> : Comment incorporated.
6+	F	2											X		S	New.
7	H	3					X						X		E	Bank. 1) Since all the distractors isolate AF to the 1B SG, put this information into the question stem instead of in all the distractors. 2) Distractor D could also be considered correct, since 31% is greater than 10%. Add the word "earliest" to the question stem. 3) Change distractor B such that it says to isolate AF when the 1B SG NR level is <u>above</u> 10% (not at 10%) to agree with the EOP. <u>RESOLUTION</u> : Comments incorporated.
8	H	3	X			X							X		E	Bank. 1) One could argue from the question stem that there is no correct answer (i.e., without making assumptions on the rate of drop in SG 1C pressure). 2) To make distractor B more plausible that low SG level would cause auto steamline isolation, change the question stem such that 1C SG is at 16% NR level instead of 25% NR level. <u>RESOLUTION</u> : 1) In the question stem, added "2 minutes after the trip" to designate when the plant parameters are as given. 2) Comment incorporated.
9+	H	3											X		E	New. 1) The second part of distractor D that states that 1A AF Pump should be stopped (the correct answer) does not answer the question (i.e., What is the IMPACT on CONTINUED operation ...). "Change the second part of distractor D to say "1A will be damaged." 2) Change the second part of distractor B to "1B will be damaged", for distractor symmetry and because there is no AF pump trip on high bearing temperature. <u>RESOLUTION</u> : Comments incorporated.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
10	F	2											X		U	<p>New. 1) The UFSAR reference provided states that the battery design is a 1-hour duration in the event of a LOOP with a LOCA and a single failure of a DG. However, the question stem does not have these conditions (i.e., a Loss of All AC, no LOCA). How can one say that the 1-hour design criteria still applies? Suggest changing the question stem to require knowledge of the 1BOA ELEC-3 time requirement for cross-tying the DC busses instead of an UFSAR time requirement (and changing the times to 1 hour, 4 hours, 8 hours, and 24 hours).</p> <p>2) Is there a Lesson Plan objective related to knowing the requirement to cross-tie DC busses in 1BOA ELEC-3 in one-hour?</p> <p>3) Editorial: In the question stem, change "...is being supplied .." to "...are being supplied..."</p> <p>RESOLUTION: 1) Comment incorporated. 2) There is a Lesson Plan objective to know the required actions in 1BOA ELEC-3. 3) Comment incorporated.</p>
11	H	3											X		E	<p>Bank. 1) Typo: In question stem, change "Cold Leg Temperatures" to "Cold Leg Temperatures." 2) In the question stem, change Hot Leg temperatures from 580°F to 578°F, so that interpolation from the steam tables is not required if the Hot Leg temperature is used. Then, change distractor A to 1878 psig, and distractor B to 1893 psig (in case the applicant uses the hot leg temperatures for calculating the minimum saturation pressure).</p> <p>RESOLUTION: Comments incorporated.</p> <p>NOTE: This question requires a reference (steam tables).</p>
12	H	4											X		S	<p>New. It does not appear that it would be a requirement to know the response to this question from memory (i.e., knowing a table of information from a Loss of Instrument Bus procedure), unless there is a Lesson Plan objective to knowing this.</p> <p>RESOLUTION: There is a Lesson Plan objective related to analyzing plant conditions and determining which Instrument Bus has failed.</p>
13+	H	3											X		E	<p>New. To make the calculations easier, suggest the following changes:</p> <p>1) Change question stem to state that at 0810 (instead of 0805) that Bus 11 voltage is 120 VDC (also add the word "is").</p> <p>2) In the question stem, change the phrase "Time= 0" to "0800".</p> <p>3) Change the distractors to the following:</p> <p>A. 0820 (this corresponds to 118 VDC)</p> <p>B. 0835 (this corresponds to 115 VDC)</p> <p>C. 0900 (this corresponds to 110 VDC) (Correct Answer)</p> <p>D. 0920 (this corresponds to 106 VDC)</p> <p>RESOLUTION: Comments incorporated.</p>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
14	H	3										X		S	New.
15	H	3										X		S	Bank.
16+	F	2				X						X		E	Bank. Distractor C is not plausible that the transition to BCA-1.1 is made in order to re-verify that all automatic actions have been completed. <u>RESOLUTION</u> : Changed distractor C to "To attempt alternate methods for break isolation."
17	H	2										X		E	Bank. In the question stem, change the phrase "should be RUNNING" to "are required to be RUNNING". <u>RESOLUTION</u> : Comment incorporated. <u>NOTE</u> : Question requires a reference.
18	F	2	X									X		E	Bank. The question stem states that one is sent to E-1 or ES-1.3. However, step 1.a (RNO) of FR-H.1 says to "RETURN TO procedure and step in effect." <u>RESOLUTION</u> : Changed the question stem to reflect that step 1.a (RNO) of FR-H.1 says to return to procedure and step in effect.
19+	H	3				X						X		E	Bank. Distractor C is not plausible that a LOOP would ensure all rods are fully inserted. <u>RESOLUTION</u> : Replaced distractor C with a plausible distractor.
20	H	3										X		S	Bank.
21	F	2										X		E	Modified. Editorial: In distractors A and C, add "0A" before "Blowdown Monitor tank." <u>RESOLUTION</u> : Comment incorporated.
22	F	3										X		E	New. In the question stem, change "to indicate ERRONEOUSLY" to "to be unreliable". <u>RESOLUTION</u> : Comment incorporated.
23+	H	3										X		S	Bank.
24	F	3										X		S	Bank.
25	F	3										X		S	Bank.
26+	F	3										X		S	Bank.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
27	F	2				X						X		E	Bank. Distractor B is not plausible that the observed increase in PZR level at 1300 psig is due to the SI accumulators injecting. Change distractor B to "Reduce charging flow." <u>RESOLUTION</u> : Comment incorporated.
28	H	3										X		S	Bank.
29+	H	3										X		S	Bank.
30	H	2										X		S	Bank.
31	F	2										X		S	New.
32	F	3				X						X		E	New. Distractor C is not plausible because it is inconsistent with the question stem (i.e., the question stem discusses the RH system being realigned from shutdown cooling to the ECCS alignment, but distractor C discusses realignment to the shutdown cooling mode of operation). <u>RESOLUTION</u> : Replaced distractor C with a plausible distractor.
33+	H	3										X		S	Modified.
34	H	2										X		S	Bank.
35	H	3										X		S	New.
36+	H	3										X		S	New.
37	H	2				X						X		E	Bank. Distractor B is not plausible that a full open PZR PORV would only result in a slowly dropping PZR pressure. Change to "Master PZR Pressure Controller has failed HIGH." <u>RESOLUTION</u> : Comment incorporated.
38	H	3										X		S	Modified.
39+	H	3										X		S	Bank.
40	H	2										X		S	New.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
41	H	3										X		E	Bank. 1) Need to see the original bank question to verify that this question is modified. 2) In distractors A, B, and D, add the word "approximately" before the time in seconds. <u>RESOLUTION</u> : 1) Question changed to be a Bank question, since there was no pertinent condition changed in the question stem. 2) Comment incorporated.
42	H	3										X		S	Bank.
43+	F	3										X		E	New. Add another sentence to the question stem as follows: "When the ..." <u>RESOLUTION</u> : Comment incorporated.
44	F	2										X		E	New. 1) In the question stem, add the word "primary" before the word "concern." 2) In the question stem, in the first sentence state that "Unit 1 has tripped from 100% power (underlined part added)." <u>RESOLUTION</u> : Comments incorporated.
45	H	2				X	X					X		U	Bank. 1) Question = K/A, since the question is not related to power level restrictions for operation of MFW pumps and valves. If power was initially 100%, then there would be a power level restriction. 2) Distractors B and D are not plausible that plant cycle efficiency would rise with a loss of LP heaters. 3) Distractor C could also be considered correct, since with a lower temperature of the FW, reactor power should increase (though this may be a second order effect). <u>RESOLUTION</u> : 1), 2), and 3) Replaced question with a different one (New, H, 3).
46+	F	3										X		S	Bank.
47	F	2										X		E	New. Distractor B (the correct answer) states that AF recirculation is <u>isolated to the CST</u> with an air operated isolation valve. However, by the Lesson Plan description, the air operated isolation valve to the CST <u>is normally open</u> . Change the wording in distractor B to "can be isolated" to avoid potential confusion on the normal position of the recirculation AOV back to the CST. <u>RESOLUTION</u> : Comment incorporated.
48	F	3										X		S	Bank.
49+	H	3										X		S	Bank.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
50	F	3										X		S	Bank. 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), unless there is a Learning Objective related to this. <u>RESOLUTION:</u> There is a Lesson Plan objective related to knowing this information.
51	F	2										X		S	Bank.
52	H	3							X			X		E	New. All the subsequent operator actions from the ARM should not be listed, since the applicants would not be expected to know these from memory. <u>RESOLUTION:</u> The number of actions in the distractors was reduced.
53+	H	3							X			X		E	Modified. 1) The question requires the recall of timing knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory), unless there is a Learning Objective related to this. 2) Suggest changing distractor A to delete "5 seconds" and changing distractor C to delete "10 seconds". <u>RESOLUTION:</u> 1) There is a Lesson Plan objective related to knowing this information. 2) Comment incorporated,
54	H	3				X						X		E	Bank. 1) In the question stem, delete the phrase "for the next 30 minutes", since the PZR PORVs may not reach their setpoint in only 30 minutes. 2) In distractor D, delete the second part of the distractor "due to loss of letdown and the rise in charging flow", to prevent giving the applicant hints at overall plant operation. <u>RESOLUTION:</u> Comments incorporated.
55	H	3										X		E	New. Editorial: In the question stem, change "this indication" to "these indications." <u>RESOLUTION:</u> Comment incorporated.
56+	H	3										X		S	New.
57	F	3										X		S	Bank. Unless there is a learning Objective for the RO to know this the reason for not starting an RCP under the stated conditions (i.e., to prevent an RCS overpressurization event), this question is at the SRO level as a Tech Spec Bases question per 10CFR55.43(b)(2). <u>RESOLUTION:</u> Question is satisfactory, since there is an RO Learning Objective related to this question.
58	H	3										X		E	New. In the question stem, change "AFTER 5 minutes" to "AFTER 10 minutes" to provide more time for PZR conditions to stabilize. <u>RESOLUTION:</u> Comment incorporated.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
59+	F	3					X						X		E	New. For distractor B (DRPI Data A OR B failure), one could interpret that the "OR" is being used in the inclusive sense (i.e., it could mean an "and"). In this case, distractor B could also be considered correct. Suggest changing distractor B to : "Data A failure". <u>RESOLUTION</u> : Comment incorporated.
60	H	3											X		S	Bank.
61	F	3					X						X		U	Bank. 1) Distractor D (correct answer) could be considered incorrect, since an entry into FR-C.1 is a beyond design basis event in which the peak clad temperature limit of 10CFR50, Appendix K limit of 2200°F could already have been exceeded. 2) Distractor B could be considered correct, since with the beyond basis inadequate core cooling event in progress, there could be some hydrogen generation due to some amount of the Zirc-Water reaction (even the design basis LOCA has a 10CFR50, Appendix K limit of 1% Zirc-Water reaction). Change distractor B to say "prevent the hydrogen generation from the zircaloy-water reaction." <u>RESOLUTION</u> : 1) Changed distractor D to "Provide core cooling to maintain a coolable geometry." 2) Comment incorporated.
62	F	2											X		S	Bank.
63+	F	2											X		E	Bank. Editorial: Fully capitalize the word "Both" in distractors A and B, and fully capitalize the word "only" in distractor D. <u>RESOLUTION</u> : Comment incorporated.
64	H	2											X		E	Bank. Editorial: In distractor C, fully capitalize the word "only." <u>RESOLUTION</u> : Comment incorporated.
65	F	3											X		S	New.
66+	H	3											X		S	Bank.
67	F	3											X		S	New.
68	F	3											X		E	Bank. Editorial: Divide the question stem into two sentences. <u>RESOLUTION</u> : Comment incorporated.

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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	3											X		E	Bank. 1) This question is at the SRO level per 10CFR55.43(b)(2), since it is a Tech Spec Bases question, unless there is an RO Learning Objective related to this. 2) Distractor B (correct answer) states that the answer is that the dose received will not exceed 10CFR100 limits. However, a more correct answer is that the dose received will not exceed a small fraction of 10 CFR100 limits. Suggest adding the phrase "a small fraction" to the question stem. <u>RESOLUTION:</u> 1) There is an RO Learning Objective related to this question. 2) Comment incorporated.
70	H	2											X		S	Bank.
71	F	3											X		E	Bank. Change distractor A to "unless waived by the Radiation Protection Manager." <u>RESOLUTION:</u> Comment incorporated.
72	H	3											X		S	Bank.
73+	H	3				X							X		E	New. 1) To make distractor D more plausible, change the second part to "1, 5", so that one could (incorrectly) assume that once the containment radiation level went below 1.0 E5 R/hr, that one could go back to using NORMAL containment values. 2) Editorial: In the distractors, use parentheses around the numbers to make them look like the question stem. 3) Change from Fundamental to Higher Cognitive Level, since one must evaluate plant conditions to arrive at the correct answer. <u>RESOLUTION:</u> Comments incorporated.
74	F	3											X		S	New.
75	F	2											X		U	Bank. This question has excessive overlap with an Administrative JPM that has a time critical step related to this question. <u>RESOLUTION:</u> Replaced question with a different one (New, F, 3).
76+	H	3				X							X	X	E	New. 1) In distractor D (incorrect answer), it should say that there is no specific Tech Spec that addresses the <u>inoperability</u> (not "operability") of a PZR PORV. 2) Also, in distractor D, instead of saying to place the unit in MODE 3 within 7 hours, say to enter General Tech Spec 3.0.3 (since otherwise it could be a cue that distractor D is incorrect, since we do not require candidates to know Tech Spec action statements of 7 hours from memory). <u>RESOLUTION:</u> Comments incorporated.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
77	H	2											X	X	E	Bank. In distractor A, delete mention of "cold leg", since this information is not required to answer the question and one could not diagnose a cold leg versus hot leg break. <u>RESOLUTION</u> : Comment incorporated.
78	H	3											X	X	E	Bank. In the question stem, change the question to "Which RCP is the Unit Supervisor expected to direct the NSO to start?" in order to get rid of the word "should" in the question. <u>RESOLUTION</u> : Comment incorporated. <u>NOTE</u> : This question requires a reference.
79+	H	3											X	X	S	New.
80	F	3											X	X	E	Bank. Editorial: In the question stem, change "is" to "was" regarding CVCS letdown and excess letdown in service. <u>RESOLUTION</u> : Comment incorporated.
81	H	3											X	X	S	Modified.
82	H	3											X	X	S	New. <u>NOTE</u> : This question requires a reference.
83+	H	3											X	X	E	New. 1) The Question Worksheet does not state the Question Source (i.e., Bank, Modified, or New). 2) Editorial: In the question stem, fully capitalize the word "first." <u>RESOLUTION</u> : 1) Question is New. 2) Comment incorporated.
84	H	3											X	X	E	Bank. Include as a reference a copy of Figure 1BEP 1-1, RCS Subcooling Margin from 1BEP-1. <u>RESOLUTION</u> : Comment incorporated. <u>NOTE</u> : This question requires a reference.
85	H	3											X	X	E	New. Add to the question stem that the Byron Annex is provided as a reference. <u>RESOLUTION</u> : Comment incorporated. <u>NOTE</u> : This question requires a reference.
86+	F	3											X	X	S	Bank.
87	F	2				X							X	X	E	Bank. Suggest adding to the question stem something like "1C RCFC is inoperable" to make distractors C and D more plausible. <u>RESOLUTION</u> : Comment incorporated.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
88	F	1				X							X	X	E	New. 1) If one only knows that 2FW002C is not a containment isolation valve, then one gets distractor D as the correct answer right away. Suggest changing distractor A to "2FW043D ONLY." 2) Fully capitalize the word "only" in the distractors. <u>RESOLUTION</u> : Comments incorporated.
89+	H	3											X	X	E	New. In the question stem, change the wording for PR channel N44 such that it is clear that the channel <u>subsequently was placed</u> in a tripped condition. <u>RESOLUTION</u> : Comment incorporated.
90	H	3											X	X	S	New.
91	F	3											X	X	U	Bank. 1) Do the Tech Spec 3.9.3 Bases require an audible count rate to both the Control Room and the Containment during fuel moves in Containment in Mode 6? Otherwise, the requirement is in Attachment C, step 2 of the Source Range Channel failure procedure, and may not be required to be known from memory. 2) In distractor D, add the word "ONLY" after "Control Room." <u>RESOLUTION</u> : 1) There is no requirement to have a SR audio count rate available if an ICRR is being performed. Distractor C (correct answer) was changed to reflect that an ICRR is being performed and both Source Range channels are OPERABLE. 2) Comment incorporated.
92	H	3											X	X	E	New. Change distractor A to mention "to preclude water induction into the turbine on a High level in the associated heaters" to provide more balance in the distractors. <u>RESOLUTION</u> : Comment incorporated. <u>NOTE</u> : This question requires a reference.
93+	H	3											X	X	S	Bank. Would applicants be expected to know the actions stated from memory (this question is a Bank question from LORT, where the test is an open book exam)? Is there a Learning Objective to know these actions from memory. <u>RESOLUTION</u> : Question is satisfactory, since there is a Learning Objective related to this question.
94	H	2											X	X	S	Bank.
95	F	3											X	X	S	New.
96+	F	3											X	X	S	New.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
97	H	3											X	X	S	New.
98	F	3											X	X	S	Bank.
99+	H	3											X	X	S	New.
100	F	3											X	X	E	New. 1) In distractor B, add the word "ONLY" as the first word and delete the word "ALL". 2) In distractor C, change to "ONLY sample the FAULTED SG for activity. RESOLUTION: Comments incorporated.

COMMENTS ON BYRON 2006 INITIAL OPERATING EXAM

JMP: Admin 1.a (RO & SRO) Perform Shutdown Margin Calculation

Comment 1. TASK CONDITIONS 7 and 8 are unnecessary delete them.

Comment 2. Per procedure PREREQUISITES: provide a signed/dated Data Package Cover Sheet

Comment 3. In the answer key for each parameter provide both the value that would be determined by interpolation and the value determined by choosing a bounding value per the note on page 15 of 1BOSR 1.1.1-1

Comment 4. Make all the steps 3 through 11 of the JPM critical.

JPM: Admin A.1.b (SRO only) Minimum Shift Staffing

Comment 1. Remove procedure reference from the cue.

Comment 2. SRO should also check EP requirements met needs 2 RP and 1 Chemist? Change INITIATING CUE to "Determine if the crew meets minimum staffing requirements." so T.S. and EP staffing is evaluated.

Comment 3. Add what corrective actions should be taken and why. (For control room staffing, for Fire Brigade, for E plan, etc.)

JMP: Admin 3 Determine Dose Rates and Contamination Areas

Comment 1. Ask for a few things not available in the LEGEND such as how the area should be posted, something about the CCA/IO area, what type of clothing should be worn, etcetera.

JMP: Admin 4. (RO only) Perform Offsite Notification (NRS.....

Comment 1. Per EP-MW-114-100 step 4.2.1 B. It appears Illinois REAC should also be called to complete the JPM task?

JPM: (a) Remove Excess Letdown from Service

Comment 1. In step 7 of the JPM the Cue should be F.1.d was performed or the action will not be taken per procedure step F.2.g. Change Cue to Seal Return Flow was not redirected to the VCT Spray Nozzles.

JPM (d) Respond to High RCP Seal Leakoff Flow

Comment 1. Verify that it is reasonable to believe a RO would be called on to carry out the actions of this JPM without step by step direction from an SRO.

Comment 2. Need to determine how long candidate can stay in step 6 on page 7 of procedure before acting to trip reactor.

JPM: (f) Drain the PZR Relief Tank

Comment 1. JPM will need to be set-up so that which ever pump (1RE01PA or B) the candidate starts first it falls to start.

Comment 2. There is not enough decision making in this JPM to grade as an alternate path.

JPM: (g) Synchronize a D/G to a Bus and Load to 5400 KW

Comment 1. Need to set an unsat time limit for the D/G Sync'ed but not loaded.

JPM: (h) Response to a Power Range NI Failure

Comment 1. Verity that it is reasonable to believe a RO would be called on to carry out the actions of this JPM without step by step direction from an SRO.

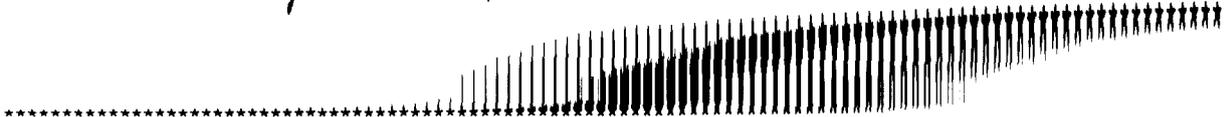
Comment 2. In step 11. Of the JPM remove cue that "an extra NSO will place the remaining point in test".

JPM: (i) Locally Open SX to AF Pump Suction Valve

Comment 1. Verify that an unassigned cubicle will be available for conducting this JPM.

Comment 2. Change the TASK STANDARD to, take actions to locally electrically operate an MOV, and when that fails manually open the valve.

Comment 3. The cue for step 10 needs to be changed to indicate what the operator would actually see at the valve if it was in the closed position (probably "the valve is in the condition that you see it now").



RESOLUTION: All comments were addressed during the Examination Validation Week and all necessary changes incorporated.

COMMENTS ON BYRON 2006 INITIAL EXAM SCENARIOS

Remove the note to have the SRO evaluate the event classification from the end of each of the scenarios.