

NRC COMMENTS TO INITIAL EXAM SUBMITTAL

INCLUDING ES-401-9 AND OPERATING COMMENTS

FOR THE DAVIS-BESSE INITIAL EXAMINATION

FEBRUARY 2008

Davis-Besse February 2008 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	2												S	Modified.
<p>Instructions [Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <ol style="list-style-type: none"> 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: <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). 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. <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). 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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2	H	3													S	New.
3	H	3													S	New.
4	H	2													S	Bank.
5	H	2													E	New. In distractor B, is there any significance to the number 40 gpm? If not, then change to 25 gpm. <u>RESOLUTION:</u> The number in distractor B was changed to 25 gpm.
6+	H	3													E	New. Typos: In distractors A thru D, change "INDENTIFIED" TO "IDENTIFIED." <u>RESOLUTION:</u> Comment incorporated.
7	H	3													E	New. In distractor C, add the word "automatically" before the word "trip." and change to "CCW Pump 1 will trip." <u>RESOLUTION:</u> Comment incorporated.
8	F	2													E	New. Change distractor B to say "Lock out Waste Gas Compressors" instead of "Lock out Waste Gas Compressor 1." <u>RESOLUTION:</u> Comment incorporated.
9+	H	3													S	Bank.
10	H	3													U	New. Based on NOTE 3.2.2 in DB-OP-06003, why isn't distractor D the correct answer instead of distractor C? Need to see additional reference material. <u>RESOLUTION:</u> Distractor D is the correct answer. Switched distractors C and D so that the new distractor C is the correct answer.
11	F	3													U	New. 1) The Question Stem should be changed to "being in a one-out-of-three logic" instead of a "two-out-of-three logic." 2) Need plant information that shows that Panel Y1 feeds RPS Channel 1. <u>RESOLUTION:</u> 1) Re-worded question stem so that the correct answer is that there is a trip of the breaker on Bus Y1 that supplies power to RPS channel 1 that will result in ARTS being in a 2/3 logic for a Turbine Trip. 2) Information was provided.
12	H	3													S	Modified.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
13+	H	2												E	New. Editorial: In distractors C and D, add a semi-colon after the word "actuate." <u>RESOLUTION</u> : Comment incorporated.
14	F	3												S	New.
15	F	1	X			X								U	New. 1) Distractors C and D are not plausible, since these are MCCs and not buses. Suggest changing the question stem to delete the word "Bus," and changing the distractors to include the word "Bus" or "MCC" as appropriate. 2) LOD = 1, since applicants should know that 480 V Bus E1 feeds all Pump 1 ESF components. <u>RESOLUTION</u> : Re-worded question to increase Level of Difficulty and to make distractors plausible.
16+	H	3												S	Modified.
17	H	3												E	New. Editorial: In the question stem, fully capitalize the word "INITIALLY." <u>RESOLUTION</u> : Comment incorporated.
18	H	3												E	New. The question stem has a condition that "SG 1 pressure is 3 psig and lowering." Is it realistic to read 3 psig on the MCB meters? If not, then change to a more reasonable number (e.g., 0 psig or 10 psig). <u>RESOLUTION</u> : Deleted the last 5 bulleted items from the question stem, since these items are not necessary to answer the question.
19+	H	3												S	New.
20	H	3												E	Bank. 1) Need more information to verify that distractor C is the correct answer. 2) The structure of the question stem is such that only the first dashed items in the distractors apply to the question stem. Need to expand the question stem such that the other dashed items in the distractors are included. 3) In the distractors, change the word "should" to "would" or some other word that is more definite. <u>RESOLUTION</u> : 1) Additional information provided. 2) Re-worded question stem. 3) Comment incorporated.
21	H	3												S	New.
22	F	2												E	Bank. 1) In distractor B, delete the words "after control power has been restored to C1 bus. 2) Editorial: In distractor C, delete the word "the." <u>RESOLUTION</u> : Comments incorporated.

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23+	H	3											X		U	New. Q ≠ K/A, since the K/A is associated with the Process Radiation Monitoring System and the question is associated with the Area Radiation Monitoring System. <u>RESOLUTION:</u> Replaced question. The replacement question is New and at the Higher Cognitive Level.
24	F	3													S	New.
25	F	3													S	New.
26+	F	3													E	New. In distractor D, change "should" to "will." <u>RESOLUTION:</u> Comment incorporated.
27	H	3													U	New. 1) Since valve RC225A is outside containment, why would this valve fail closed on a loss of IA to containment? It appears that distractor B (correct answer) is not correct. 2) Change question type from Fundamental to Higher Cognitive Level. <u>RESOLUTION:</u> 1) In distractor B, changed valve to RC225A. 2) Comment incorporated.
28	H	3													S	New.
29+	H	3													E	Modified. Change question from New to Modified. <u>RESOLUTION:</u> Comment incorporated.
30	H	3													U	New. 1) Distractor D (correct answer) says overlap between the IR and SR must occur when the SR is at 10,000 CPS, whereas procedure DB-OP-06912 says overlap must occur by 100,000 CPS. 2) In distractors B and D, use the exponent notation for the CPS, if the meters read out in exponent notation. <u>RESOLUTION:</u> 1) Distractor D changed to 10 ⁵ CPS. Changed distractor B to 10 ⁴ CPS. 2) Changed to exponent notation for the CPS number in distractors B and D.
31	F	3													E	New. For distractor D to be a more complete answer (correct answer), does PZR temperature need to be transferred to TT RC15-2 per step 4.1.5 of DB-OP-02532? <u>RESOLUTION:</u> Changed distractor D to reflect transferring the PZR temperature transmitter.
32	F	3													S	New.
33+	F	3													S	New.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only		
34	H	3												E	New. In the question stem, add the word "open" after "62%." <u>RESOLUTION</u> : Comment incorporated.
35	H	3												S	New.
36+	F	3												E	Bank. Is the turbine runback setting based on Reactor Power or Unit Load Demand? If based on Unit Load Demand, then change distractors to reference Unit Load Demand instead of Reactor Power. <u>RESOLUTION</u> : Changed distractors to reference Unit Load Demand instead of Reactor Power.
37	F	3												S	New.
38	F	3												S	New.
39+	H	3												S	New.
40	H	3												S	New.
41	H	3												S	New.
42	F	2												E	Bank. 1) Is the RCP trip setpoint based on lower bearing temperature $\geq 200^{\circ}\text{F}$ or $> 200^{\circ}\text{F}$? If based on $\geq 200^{\circ}\text{F}$, then change question stem to reference a value $> 200^{\circ}\text{F}$. 2) Change distractor D to: Reduce power to 49%, trip the reactor, and then trip RCP 1-1." <u>RESOLUTION</u> : 1) The RCP trip setpoint is based on lower bearing temperature $\geq 190^{\circ}\text{F}$. Changed question stem to reflect a temperature of 195°F . 2) Comment incorporated.
43+	H	3												S	Modified.
44	F	3												E	New. Change distractor B from "23 feet" to "23.2.feet." <u>RESOLUTION</u> : Comment incorporated.
45	F	2												S	Bank. Change question from Modified to Bank, since there is no pertinent condition changed in the question stem. <u>RESOLUTION</u> : Comment incorporated.
46+	H	3												S	New
47	H	3												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		
48	H	3												S	New.
49+	F	2												S	New.
50	H	3												S	New.
51	H	3												E	New. 1) In the question stem, change the order of the LOOP/LOCA, such that a LOCA occurs first and the a LOOP occurs. 2) Editorial: In the question stem, fully capitalize the word "FIRST." 3) Since the distractors refers to Pump 1 components, add to the question stem: "... first to start on Bus C1 because ..." <u>RESOLUTION:</u> Comments incorporated.
52	H	3												S	Bank.
53+	F	3												S	New.
54	H	3												S	New.
55	H	3												S	New.
56+	F	2												E	New. 1) In the question stem, change the word "recovering" to "recovery." 2) Typo: In distractor B, change the word "breaks" to "breakers." <u>RESOLUTION:</u> Comments incorporated.
57	H	3												S	New.
58	F	3												U	New. This question is at the SRO level as a Tech Spec Bases question per 10 CFR 55.43.(b).(2), unless there is a specific Learning Objective for the RO to know this information. <u>RESOLUTION:</u> Replaced question. The replacement question is New and at the Fundamental Level.
59+	F	3												S	New.
60	H	2												S	New.
61	H	3												E	New. 1) In distractor B (correct answer), delete the "within one hour" from distractors B and C. 2) In distractor D, delete the "within six hours," since are not required to know 6 hour action requirements from memory. <u>RESOLUTION:</u> Comments incorporated.

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		
62	F	3												E	New. In the question stem, change the word "should" to "will." <u>RESOLUTION</u> : Comment incorporated.
63+	F	3												S	New.
64	H	3												S	New.
65	H	3												S	New.
66+	F	2												S	Bank.
67	H	3												U	New. 1) The Explanation on the Question Worksheet states that if Group 38 is operable , to refer to DB-NE-03220. However, DB-OP-02005 states that if Group 38 is inoperable to refer to DB-NE-03220. 2) How can one determine if Group 38 is operable or inoperable? <u>RESOLUTION</u> : Replaced question. The replacement question is New and at the Fundamental Level.
68	F	3												S	New.
69+	H	2												S	Modified.
70	F	3												S	Modified.
71	F	3												E	New. Add the word "ANNUAL" after the word "rems" in distractors B, C, and D. <u>RESOLUTION</u> : Comment incorporated.
72	F	3					X							U	New. 1) This question appears to be an SRO-related knowledge item instead of something that an RO would be expected to know. 2) Distractor A would also be correct, if the problem is not resolved within 72 hours. Suggest adding to diatractor A: ", if the problem is not resolved within 24 hours of the initial sample." <u>RESOLUTION</u> : Replaced question. The replacement question is New and at the Fundamental Level.
73+	F	3												S	New.
74	H	3												S	Modified.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
75	H	1	X			X									U	New. 1) In the question stem, change "MSIVs" to MS safety valves. 2) LOD = 1, since distractors B and C are not plausible that the plant would be at 40 MWe following a Reactor Trip or LOOP, and distractor D is not plausible that the plant would only be at 40 MWe following an ATWS from 50% power. RESOLUTION: Replaced question. The replacement question is a Bank question and is at the Higher Cognitive Level.
76+	H	2											X	S		New.
77	H	2					X							X	U	New. 1) Distractor D (leaking PZR safety valve) could also be considered correct. 2) The Explanation on the Question Worksheet for why distractor D is incorrect is not accurate. 3) Distractor C (to determine the RCS leak rate) could also be considered correct. 4) This question is not an SRO-only question, since an RO would be expected to know the correct answer based on his system knowledge. 5) Editorial: In the question stem, change "14 psig" to "14.7 psia." RESOLUTION: Replaced question. The replacement question is New and at the Higher Cognitive Level.
78	H	3										X	X	U	New. Q ≠ K/A, since the question does not require one to operate controls identified in the Alarm Response Manual. RESOLUTION: Replaced question. The replacement question is New and at the Higher Cognitive Level.	
79+	H	3				X								X	U	New. 1) Distractors C and D are not plausible that one would be required to know 8 hour Tech Spec action statements from memory. 2) Editorial: In distractor A, move the comma to before the word "open" instead of after the word "open." 3) In the question stem, change "Bus E11B tripped" to "MCC E11B immediately tripped." RESOLUTION: 1) and 2) Re-worded question stem to ask what action is required within one hour and deleted time frames from the distractors. 3) Comment incorporated.
80	F	3												X	E	New. In distractor A, delete the words "for > 30 minutes," since these words could lead one to select this distractor as the correct answer. RESOLUTION: Comment incorporated
81	H	3												X	S	New.
82	F	3												X	S	New.
83+	H	3												X	S	New.

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84	H	3											X	S	New.	
85	H	3											X	X	U	New. 1) Q ≠ K/A, since the question does not require use of the alarm response procedures. 2) Obtaining the correct answer relies on one knowing subsequent actions well into an EOP. One is not required to know every action in an EOP, unless the action is based on a system level understanding. <u>RESOLUTION</u> : Replaced question. The replacement question is New and at the Higher Cognitive Level.
86+	F	3				X								X	U	New. 1) An applicant does not need to know Tech Spec 72 hour action statements from memory. Where does the 72 hour clock from distractor A (correct answer) come from? 2) Distractor C is not plausible that one would need to know a 6 hour action statement from memory. <u>RESOLUTION</u> : Replaced question. The replacement question is New and at the Fundamental Level.
87	F	2					X							X	U	New. 1) Change distractor C (correct answer) to "must be suspended." 2) Distractor D could also be considered correct, since without any DHR pump, core temperature could not be maintained less than 212°F. <u>RESOLUTION</u> : 1) Comment incorporated. 2) Replaced distractor.
88	H	3												X	E	New. With the Quench Tank Vent valve open, QT pressure may not rise. Thus, delete "pressure" in the question stem, delete the first word "and" in distractors B and C, and change distractor D to say "level will rise requiring Quench Tank Circ Pump to be started manually ..." <u>RESOLUTION</u> : Comment incorporated.
89+	H	3												X	E	New. In distractor B (correct answer), change the second part of the distractor to "due to exceeding the maximum allowable flux value." <u>RESOLUTION</u> : Comment incorporated.
90	F	2												X	S	New.
91	H	3												X	S	New.
92	F	3												X	U	New. 1) An applicant is not required to know 4 hour requirements from memory. Include the Event Notification procedure DB-OP-00002 as a reference. 2) In the question stem, change "NRC Region III" to "Resident Inspector" to agree with wording in Section 6.4.3 of DB-OP-00002. <u>RESOLUTION</u> : Replaced question. The replacement question is New and at the Fundamental Level.

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93+	H	3											X	U	New. Need to go over with facility how the correct answer is obtained. <u>RESOLUTION</u> : Distractor D was determined to not be correct, resulting in no correct answer. Replaced question. The replacement question is New and at the Higher Cognitive Level.
94	F	2					X						X	U	New. Distractor D could also be considered to be correct, since the Fuel Handling Director performs the independent verification per DB-OP-00030, and also directs the bridge operator to perform a specific line number from the Fuel Movement Sequence Sheets (per step 6.7.1 of DB-OP-00030). <u>RESOLUTION</u> : Replaced question. The replacement question is New and at the Fundamental Level.
95	F	3											X	S	New.
96+	F	3											X	E	New. In the question stem (in the 2 nd paragraph), change the word "affect" to "effect." <u>RESOLUTION</u> : Comment incorporated.
97	F	2											X	S	Bank.
98	H	3											X	E	Bank. 1) Since there are no longer any Temporary Modifications, change distractor B to a different distractor. 2) Editorial: Add the word "ONLY" to distractor A. 3) Typo: Change the title of distractor D from "A" to "D". <u>RESOLUTION</u> : Comments incorporated.
99+	F	3											X	S	New.
100	F	3											X	S	New.

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#	Source	Comment	Resolution
1.	<p style="text-align: center;">Admin JPM A (Calculate RCS Flow with F755 Inoperable) RO</p>	<p>1) Page 3, step 3 – Instead of providing a summary page with the computer point values already given, have the applicant obtain the values of the parameters from the computer.</p> <p>2) As written, step 3 is not a Critical Step, since one is just copying information from a given sheet to Attachment 7 of the specified procedure.</p> <p>3) The specific volume number calculated in steps 2 and 4 is given to 5 digits. However, since the 2 values being extrapolated against are only to 4 digits, the final extrapolated value should only be to 4 digits.</p> <p><u>This JPM is initially Unsatisfactory</u>, since the task only involves multiplying 3 numbers together. No matter how one extrapolates the specific volume between the 2 given values of RCS pressure, an RCS flow value within the acceptable range will be obtained.</p> <p>[Comments above during initial review before onsite validation]</p> <p>[Comments below were during onsite validation]</p> <p>4) In the Initial Conditions, add that SPDS is not available.</p>	<p>1) Comment incorporated.</p> <p>2) Step changed such that candidate needs to obtain point values from the simulator computer. Step is now a Critical Step.</p> <p>3) Changed extrapolated values to 4 digits.</p> <p>4) Comment incorporated.</p>

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2.	<p style="text-align: center;">Admin JPM A (Perform an On-Line Risk Determination) SRO</p>	<p>NOTE: This JPM was replaced from that given on the outline, since this task is better related to being only an SRO task.</p> <p>1) Page 1 – The intake temperature during Winter is given as 58°F. A lower value seems more appropriate.</p> <p>2) Step 2 – Add an Evaluator Note to state that components modeled in the PSA have a Type “PM” in the Safety Monitor.</p> <p>3) In step 10, what Service Water Pump is stopped? Is it SW pump 3?</p> <p>4) In steps 14 and 20, add a Comment with what the risk is at this step (e.g., Green Risk or White Risk).</p> <p>[Comments above during initial review before onsite validation] [Comment below were during onsite validation]</p> <p>5) Delete steps 20 and 21, since these steps will not be performed.</p>	<p>1) The value was changed to 40°F.</p> <p>2) Comment incorporated.</p> <p>3) Step 10 changed to say SW Pump 3.</p> <p>4) Comment was incorporated for step 14. Step 20 was deleted based on comment during onsite validation.</p> <p>5) Comment incorporated.</p>
3	<p style="text-align: center;">Admin JPM B (Review an Auxiliary Feedwater Surveillance Test and Determine Operability) SRO</p>	<p>1) In step 2, change “1274.4 psid” to “1275 psid” as the correct ΔP.</p> <p>2) At the end of step 5, add a CUE for the Evaluator to ask if there are any Tech Spec operational implications associated with the AFW pump being inoperable (if the applicant determines that the AFW pump is inoperable) (i.e., 72 hour clock or be in HSD within 12 hours).</p> <p>[Comments above during initial review before onsite validation] [Comment below were during onsite validation]</p> <p>3) Change step 4 such that it is not a Critical Step, since on pump speed is provided in surveillance.</p>	<p>1) Comment incorporated.</p> <p>2) Comment incorporated.</p> <p>3) Comment incorporated.</p>

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4.	Admin JPM C [Review a Tagout and Determine it is Incorrect] RO and SRO	<p>1) On page 1, change the Task Standard to say: "Review a safety tagout and correct errors."</p> <p>2) On page 1, add at the end of the Initiating Cue: "and determine whether it is acceptable."</p> <p>3) Change JPM to a different component that is not a direct lookup from a procedure (i.e., that requires the applicant to look at P&IDs, electrical prints). Also, include more than one type of error (e.g., include a sequence error in addition to a wrong component listed).</p> <p><u>This JPM was initially Unsatisfactory</u>, since the JPM is a direct lookup to get the correct tagout from a procedure.</p> <p>[Comments above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>4) In the General References to be available to the candidates, add "NOBP-OP-1001, Clearance Program" and "Operations Schematic OS-3."</p> <p>5) In the Initiating Cue, add to the Evaluator Note to provide the applicant with a copy of Operations Schematic OS-3, the Cover Sheet, the Index Sheet, and the tagout sheet.</p> <p>6) In step 4, delete the corrections to the tagging list provided after stating that Breaker AC111 is hung second.</p> <p>7) In step 4 and on the Manual Clearance Tag List, change the incorrect breaker from AD112 to AD111.</p>	<p>1) Comment incorporated.</p> <p>2) Comment incorporated.</p> <p>3) Changed component to an HPI pump, whose safety tagout is not from a procedure.</p> <p>4) Comment incorporated.</p> <p>5) Comment incorporated.</p> <p>6) Comment incorporated.</p> <p>7) Comment incorporated.</p>
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5.	<p style="text-align: center;">Admin JPM D [Calculate radiation Release using SGTL Abnormal Procedure, DB-OP-02531, Attachment 1] RO and SRO</p>	<p>1) In step 6, add an Evaluator Note that the Chemistry Sheets are hanging in the Simulator. 2) In step 7, change the acceptable range to 2.0 to 2.20. 3) At the end of step 7, add a CUE for the Evaluator to ask if there are any Tech Spec operational implications associated with the calculated SG tube leak (i.e., Tech Spec 3.4.6.2). 4) On page 1, change the Task Standard to say: "Determine SG leakrate and applicable Tech Spec for high SG leakrate.</p> <p>[Comments above during initial review before onsite validation] [Comment below were during onsite validation]</p> <p>5) In step 2, change the SJAE radiation monitor readings such that if one uses the higher reading, one obtains a SG leak rate >150 gpd, and if one uses the lower reading one obtains a SG leak rate <150 gpd</p>	1) thru 5) Comments incorporated.
6.	<p style="text-align: center;">Admin JPM E [Make E-Plan Notification] RO</p>	<p>1) On page 1, change K/A importance factors from "3.2/3.8" to "2.8/3.5". 2) Change the Initiating Cue such that it is given that 3 minutes ago an ALERT classification was made. 3) Change the Time to stop the Notification from step 2 to step 4 (when Ottawa County and Lucas County are first notified). Add a comment to step 4 that it is critical to make the notifications in 12 minutes. [Comments above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>4) Add to the Initiating Cue that this JPM is Time Critical. 5) Delete the CUE in step 1, since this information was added to the Initiating Cue.</p> <p>6) In step 6, add a CUE, that once the State of Ohio phone number is found, to have the applicant dial x8282 for the State of Ohio. 7) In step 7, add a CUE for the booth operator to repeat back the information as the State of Ohio.</p>	1) thru 7) Comments incorporated.

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7.	<p style="text-align: center;">Admin JPM E [Security Event Classification and Notification] SRO</p>	<p>1) On page 1, change K/A importance factors from "3.2/3.8" to "2.8/3.5".</p> <p>2) At the end of the Initiating Cue, add "Perform required actions."</p> <p>3) In the Initiating Cue, instead of saying that the plant has received information from a reliable source, say that the plant has received information from the Lucas County Police Department.</p> <p>[Comments above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>4) On page 1 in the General References, add the candidate SAP numbers, the NRC Security Authentication Code Book, and change the title of procedure "Security Events or Threats" from DB-OP-02245 to DB-OIP-02544.</p> <p>5) Add to the Initiating Cue that this JPM is Time Critical.</p> <p>6) Delete the CUE in step 1, since this information was added to the Initiating Cue.</p> <p>7) In step 4, change the CANS number to the number listed in Revision 9 of the procedure.</p> <p>8) Delete step 5, since this step was not in Revision 9 of the procedure.</p> <p>9) For step 9, provide a list to the Evaluators of the candidates SAP numbers.</p> <p>10) In step 12, provide CUEs to act as the NRC Operations Office and to ask for the NRC Security Authentication Code for the ENS call.</p>	1) thru 10) Comments incorporated.
8.	<p style="text-align: center;">Control Room System JPM A [Loss of Service Water Loop 1 to Primary Loads]</p>	<p>1) On page 1, change K/A importance factors from "3.1/3.1" to "3.2/3.3".</p> <p>2) At step 10, add an Evaluator Note that the Alternate Path starts here.</p> <p>[Comments above during initial review before onsite validation] [Comment below were during onsite validation]</p> <p>3) On page 2, change the MALFUNCTIONS/FAILURE TO INSERT to say to fail the SW Header pressure instrument to <30 psig instead of <50 psig. Also, add a statement that valve SW1395 is initially closed.</p>	1) thru 3) Comments incorporated.

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9.	<p>Control Room System JPM B</p> <p>[Transfer LPI Suction to the Containment Emergency Sump]</p>	<p>1) On page 1, change the Time Critical Task statement from "Yes/No" to "No".</p> <p>2) At step 6, add an Evaluator Note that the Alternate Path starts here.</p> <p>[Comments above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>3) On page 2 in the Simulator Instructions, add that valves HP 2A, 3B, 2C, and 2D are initially open, and that valves MU 62119 thru 22 are initially open.</p> <p>4) In step 9, add to the STANDARD that the valve THROTTLED lights are lit.</p>	<p>1) thru 4) Comments incorporated.</p>
10.	<p>Control Room System JPM C</p> <p>[Putting RPS in Shutdown Bypass]</p>	<p>NOTE: This JPM was changed from the original exam outline to avoid duplication from the Audit Exam.</p> <p>On page 1, in the Initiating Cue, add that the Prerequisites for Section 3.3 are complete.</p> <p>[Comments above during initial review before onsite validation] [There were no comments on this JPM during onsite validation]</p>	<p>Comment incorporated.</p>
11.	<p>Control Room System JPM D</p> <p>[Manually Actuate SFAS After Some Components Blocked]</p>	<p>1) Where is the Alternate Path for this JPM?</p> <p>2) For the Initial Conditions, make the wording on Page and on page 4 the same.</p> <p>3) In step 2, the Comment should be changed to "Step 2 must be performed prior to step 4."</p> <p>4) In step 3, the Comment should be changed to "Step 3 must be performed prior to step 5."</p> <p>5) In steps 6 and 7, in the Comment section, add the word "start" after the word "manually."</p> <p>[Comments above during initial review before onsite validation] [Comment below were during onsite validation]</p> <p>6) In step 8, there were additional valves that needed to be closed to complete the JPM satisfactorily. Add these valves to step 8, and put them in Level 1 through Level 4 order.</p>	<p>1) There was no Alternate Path in the JPM. JPM changed to reflect that this JPM is not Alternate Path.</p> <p>2) thru 6) Comments incorporated.</p>

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12.	Control Room System JPM E [Purge Containment]	<p>On page 1, change the Initial Conditions to read "The plant is in Mode 5," similar to what it says on page 3.</p> <p>[Comments above during initial review before onsite validation] [There were no comments on this JPM during onsite validation]</p>	Comment incorporated.
13.	Control Room System JPM F [CRD Sequence Fault Reset]	<p>On page 1, add a 3rd initial condition "Annunciator 5-6-E CRD SEQ FAULT has just been received," similar to what is given on page 3.</p> <p>[Comment above during initial review before onsite validation] [There were no comments on this JPM during onsite validation]</p>	Comment incorporated.
14.	Control Room System JPM G [Respond to High Station Vent Radiation Alarm]	<p>[No comments during initial review before onsite validation] [Comment below were during onsite validation]</p> <p>In step 6 add "(If asked)" to preface the CUE.</p>	Comment incorporated.
15.	Control Room System JPM H [Synchronize the Main Generator to the Grid]	<p>[No comments during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>1) In the Initiating Cue, add that an Equipment Operator is standing by and ready to help. 2) Delete the Cue in step 3, since this verification can be performed by the candidate without a Cue. 3) In step 3, add a Comment that the disconnect is located in a differently in the simulator than in the plant. 4) Add page numbers to the JPM. 5) Add CUES to steps 9, 10, and 11 for the booth operator to repeat back information. 6) Add Comment to step 11 that the booth operator will close ABS 34620.</p>	1) thru 6) Comments incorporated.

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18.	<p style="text-align: center;">In-Plant JPM K [Primary Side Reactor Operator Control Room Evacuation Actions]</p>	<p>1) In the Initial Conditions, add a statement regarding the status of Makeup Pump 1 (i.e., that the pump is running).</p> <p>2) In step 2, by following the procedure Makeup Pump 1 could be stopped instead of Makeup Pump 2. A similar comment applies to steps 3, 4, and 5 regarding MU Pump 1 components instead of MU Pump 2 components.</p> <p>3) Step 7(8) would be a Critical Step if MU Pump 1 (2) was stopped, and step 8(7) would not be a Critical Step.</p> <p>[Comments above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>4) On page 4 before step 1, change so that it says that the sequence of steps 1 and 2 is not critical.</p> <p>5) In step 3, add a Comment that the switch is not labeled and the bottom of the toggle switch should be depressed to stop the pump.</p> <p>6) In step 4, delete mention of RED and GREEN lights since there are no lights. Instead, add a CUE that, if asked, the pump is off by local indication.</p> <p>7) Add a statement before step 7 that the sequence of steps 7 and 8 is not critical.</p>	<p>1) Comment incorporated.</p> <p>2) Changed steps 2 through 5 to account for either MU Pump 1 or 2 being stopped.</p> <p>3) thru 7) Comments incorporated.</p>
19.	<p style="text-align: center;">General Comment for All Control Room and In-Plant JPMs</p>	<p>On page 1 of the JPM, add "Alternate Path" with a "Yes" or "No" added, to assist the Examiners in identifying if the JPM is an Alternate path.</p> <p>[Comment above during initial review before onsite validation]</p>	<p>Comment incorporated.</p>

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20.	Scenario No. 1	<p>[No comments during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>1) In the Initial Conditions, instead of stating the plant is in Middle of Life, state that the core age is 400 EFPD. Also, add this information to the Turnover.</p> <p>2) In the General Description of the scenario, in the 5th paragraph, delete the sentence that says that the Tech Spec limit with a stuck rod and 3 RCPs is 45% power.</p> <p>3) On page 2, add an option for the RO to reduce power using the SG/Reactor Demand station and lowering power using the toggle switch.</p> <p>4) On page 3, add for the SRO to refer to TS 3.4.4 if PZR level exceeds 228 inches.</p> <p>5) On page 3, add a statement for the BOP to reset the ICS input and ICS Transfer alarms at the SASS panel.</p> <p>6) On page 3, add a statement for the RO to add boric acid , as required, in accordance with the Reactor Operator Guidance sheet.</p> <p>7) On page 6, change statement such that the crew requests Reactor Engineering to determine if adequate shutdown margin exists.</p> <p>8) On page 7, delete the statement that the RO would determine the RCS leak rate.</p> <p>9) On page 8, delete mention of Specific Rule 4.</p> <p>10) On page 9, when implementing Attachment 11 for HPI flow balancing, add to open valve MU 6421.</p> <p>11) On page 11, when verifying proper SFAS actuation, add for the RO to close the containment vacuum breaker valves.</p> <p>12) On page 15, change the rate at which the 2500 gpm RCS leak comes in to a slower rate (i.e., from 1 minute to 5 minutes).</p>	<p>1) thru 12) Comments incorporated.</p>
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21.	Scenario No. 2	<p>1) On the Scenario Outline sheet, in the Turnover section, change the turnover so that it states that the plant is at 60% power (to agree with the Initial Conditions on the Scenario Outline sheet) instead of 50-60% power.</p> <p>2) In Event 3, change the writeup so that the Shift Manager informs the Operator of a blown fuse instead of the NRC Examiner informing the Operator.</p> <p>3) In Event 5, change the writeup such that the Ro monitors MU Tank level using "NNI-X powered indication" instead of "NNI-Y powered indication."</p> <p>[Comments above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>4) In the Initial Conditions, instead of stating the plant is in Middle of Life, state that the core age is 400 EFPD. Also, add this information to the Turnover.</p> <p>5) In the Turnover, add that LPI Pump 1 is OOS for maintenance on the motor bearings.</p> <p>6) On page 2, add a statement that the crew may direct a local operator to trip closed the AFPT 1 Trip Throttle valve.</p> <p>7) On page 4, after control rod 5-8 drops, change the power level to which the RO reduces power from 50% to 45%.</p> <p>8) On page 6, move up the step to monitor MU Tank level to the 3rd step on the page.</p> <p>9) Pages 9 and 10 – Re-order steps to control SG pressures using the Atmospheric Vent Valves to an earlier point, and add a statement about using Attachment 8 to place MU/HPI/LPI in service.</p> <p>10) On page 10, delete mention of performing Attachment 1, Primary Inventory Control Actions and performing Attachment 2, SG Inventory and Pressure Control Actions.</p>	1) thru 10) Comments incorporated.
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22.	Scenario No. 3	<p>1) On the page after the Scenario Outline sheet that has a general description of the scenario, add a sentence at the end of the second paragraph as follows: "The crew will evaluate the loss of Makeup Pump 1 and determine that T.S.3.1.2.4 applies.</p> <p>[Comment above during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>2) In the Initial Conditions, instead of stating the plant is in Middle of Life, state that the core age is 400 EFPD. Also, add this information to the Turnover.</p> <p>3) On page 6, where it states for the RO to maintain MU Tank level, add that the RO may transfer MU Tank suction to the BWST.</p> <p>4) On page 10, move the statements about implementing Attachment 8 for placing MU/HPI/LPI in service to an earlier step on page 9 (soon after the SGTR occurs).</p>	1) thru 4) Comments incorporated.
23.	Scenario No. 4	<p>[No comments during initial review before onsite validation] [Comments below were during onsite validation]</p> <p>1) In the Initial Conditions, instead of stating the plant is in Middle of Life, state that the core age is 400 EFPD. Also, add this information to the Turnover.</p> <p>2) In Event 1, add a CUE that, if asked, the Shift Manager will inform the crew to maintain MVARs at the current value.</p> <p>3) In Event 1, delete the NOTE concerning the Lead Examiner determining whether to have the crew perform the Manual Voltage Regulator exercise.</p> <p>4) In Event 2, add a statement that, if required, the Shift manager will have the RO perform the actions in Section 4.1 of DB-OP-06405.</p> <p>5) In Event 2, change bistable BA211 to BA209.</p> <p>6) In Event 3, change the annunciator from PZR Level Hi to PZR Level Lo.</p> <p>7) In Event 5, page 8, add for the SRO to refer to TS 3.4.4 if PZR level exceeds 228 inches.</p> <p>8) In Event 5, page 8, add if >200°F, to close MU 59A.</p>	1) thru 8) Comments incorporated.