

JPM#	1. Dym (D/S)	2. LOD (1-5)	3. Attributes				4. Job Content		5. U/E/S	6. Explanation (See below for instructions)
			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-Lap	Job-Link		
RA1										<p>1. Initial Conditions, fourth bullet: remove the words "are to be used for the calculation and" Directions to the applicant are in the Initiating Cue.</p> <p>2. Initiating Cue - do we need the third bullet? If they fill out the Data Sheet, isn't all the required info captured? Also, delete second bullet since direction is given in the NOTE before step 8.1</p> <p>3. Add JPM step 17 for the applicant to inform the SM for N-43 per OPT-302, step 5.2.4.</p> <p>4. JPM step 10 - What is the basis for the .015 margin? <i>ok any. calc range</i></p> <p>5. JPM step 12 and 15 - Examiner Note: would the step also be failed if N-42 and N-44 APTR is greater than 1.02?</p> <p>6. JPM step 16 - change the word "Ration" to "Ratio."</p>
RA2										<p>1. Initiating Cue - as written, the applicant only needs to determine boron concentration at equilibrium 50% power (950 ppm). JPM step 6 asked for boration amount. Change the cue to "Calculate the amount of boration/dilution required for equilibrium 50% power ..." Also, delete all bullets as they provide cueing to the applicant. <i>Reference prac steps</i></p>
RA3										<p>1. Initiating Cue - why not just direct the applicant to initiate a PCN for ABN-107? Let the applicant determine the appropriate procedure and what needs to be filled out on the STA-202-7 form. If this happened in the Control Room, how would the US ask the RO for the procedure change?</p> <p><i>Replaced JPM</i></p> <p>2. JPM step 2 - Do the Rad Alarm and Rad Alert pushbuttons sound the same alarm? <i>yes</i></p> <p>3. JPM steps 1 and 3 - add Examiner Cue to inform applicant to simulate making the announcement to the Examiner.</p>
RA4										<p>1. JPM title identifies only Event Reportability, not TS.</p> <p>2. Delete JPM step 3 - incorporate this wording into the next two steps to indicate the requirements are being reviewed per sta-501.</p> <p>3. Change Initiating Cue to 2-bullets: 1) Determine any Tech Specs EGO and Condition and 2) Determine any Reportability Requirements. <i>add it away</i></p> <p>4. Written report requirements in JPM step 5 should be per 10CFR50.73(a)(2)(ii) NOT 10CFR50.72(b)(3)(ii)(A) or (B) (this is the oral notification requirement).</p>
SA1										<p>1. see comments for RA1</p> <p>2. Corrective Actions section of Answer Key is blank.</p> <p>3. <i>JPM step 19 - add additional CEO reqd actions (if any)</i></p> <p>4. <i>Highlight applicants answers</i></p>
SA2										<p>1. Initiating Cue - delete second bullet and all sub-bullets.</p> <p>2. JPM steps 3-6: identify procedure page that identifies correct answer.</p> <p>3. <i>JPM step 2 - change state to 3/21/2010</i></p> <p>4. <i>add procedure for training steps</i></p>
SA3										<p>1. JPM step 6 - referring to a procedure step is not an adequate Performance Standard. delete "for guidance"</p> <p>2. JPM step 8 - Standard says "ensure" individual is equipped with respiratory equipment - why? Initial Conditions only states that RP is concerned with general area radiation. delete this step</p> <p>3. JPM cue sheet - eliminate the bullets and replace with the table (on page 2 of the JPM)</p> <p>4. <i>Delete the bullet for the table in the cue sheet</i></p>
SA4										<p>1. JPM step 6 - referring to a procedure step is not an adequate Performance Standard. delete "for guidance"</p> <p>2. JPM step 8 - Standard says "ensure" individual is equipped with respiratory equipment - why? Initial Conditions only states that RP is concerned with general area radiation. delete this step</p> <p>3. JPM cue sheet - eliminate the bullets and replace with the table (on page 2 of the JPM)</p> <p>4. <i>Delete the bullet for the table in the cue sheet</i></p>

DRAFT OPERATING TEST COMMENTS

ADMIN JPMS

JPM#	1. Dyn (D/S)	2. LOD (1-5)	3. Attributes				4. Job Content Errors		5. U/E/S	6. Explanation (See below for instructions)
			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link		
SAS										

Instructions for Completing Matrix

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- Determine whether the task is dynamic (D) or static (S). A dynamic task is one that involves continuous monitoring and response to varying parameters. A static task is basically a system reconfiguration or realignment.
- Determine level of difficulty (LOD) using established 1-5 rating scale. Levels 1 and 5 represent inappropriate (low or high) discriminatory level for the license being tested.
- Check the appropriate box when an attribute weakness is identified:
 - The initiating cue is not sufficiently clear to ensure the operator understands the task and how to begin.
 - The JPM does not contain sufficient cues that are objective (not leading).
 - All critical steps (elements) have not been properly identified.
 - Scope of the task is either too narrow (N) or too broad (B).
 - Excessive overlap with other part of operating test or written examination.
- Check the appropriate box when a job content error is identified:
 - Topics not linked to job content (e.g., disguised task, not required in real job).
 - Task is trivial and without safety significance.
- Based on the reviewer's judgment, is the JPM as written (U) acceptable (requiring repair or replacement), in need of (E) editorial enhancement, or (S) satisfactory?
- Provide a brief description of any U or E rating in the explanation column.
- Save initial review comments as normal black text; indicate how comments were resolved using blue text so that each JPM used on the exam is reflected by a (S) satisfactory resolution on this form.

1. Change Initiating Cue to "The SM directs you to determine any required Protective Action Recommendations for the given plant conditions. Then eliminate all bullets.
highlight the decision path on attach 1.

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			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Errors Minutia		
S1											<ol style="list-style-type: none"> OPT-106A, step 8.2.1 states that the pre-test counter demand position for each rod group should be recorded so the Rod Exercise Date Sheet should have that position filled in on the applicant handout. Would JPM Step 1 be completed since the procedure says to go back to step 8.2.2? Revise JPM Step 3 - this step is for the applicant to determine that CBD is NOT greater than or equal to 220 steps. JPM Step 4 would then be the applicant requesting direction of rod movement from the SM. JPM Step 5 would then be the applicant moving the rods with an acceptable range of greater than or equal to 10 but less than 13 steps from the initial recorded position. Need a blank for the examiner to record how far the applicant moved the rods. If rods are moved in procedure step 8.2.3.B.2, how does the applicant record INITIAL step counter demand position as required by procedure step 8.2.4? JPM step 5 - Examiner note refers to CAUTION prior to step 8.1 - but the procedure handout has this CAUTION marked N/A. And this note would be more appropriate at JPM step 3 when the rods are withdrawn. <i>Both in & out steps</i> Should procedure step 8.2.6 be performed prior to step 8.2.5? Test position would be the step counter after rods with moved from their initial position. JPM step 7 may or may not be Critical Step - if applicant moves rods the same distance out and in, this step would be N/A. <i>add comment.</i> After JPM step 8 - need additional JPM steps for CBD Group 2 rods where applicant goes back to procedure step 8.2.2.
S2											<ol style="list-style-type: none"> JPM title doesn't match ES-301-2 (Hot Leg vs Cold Leg) <i>OK</i> PO-010A listed as required material but no hand out? <i>delete for Rogid Mat 1</i> Change JPM steps 1 and 2 to 3 and 4; change JPM steps 3 and 4 to 1 and 2. JPM step 8 - how Critical is pump fails to start? JPM step 8 - does applicant have to cross-connect SIP discharge? JPM step 10 - step is to open 8802A, but standard says 8802B. JPM step 11 - step is to open 8802A, same as JPM step 10? Will applicant attempt to cross-connect SIP discharge? Also, this step's standard says that 8802A will observe red OPEN light LIT but Examiner Note says the valve will not open. JPM step 13 - Critical Step? JPM steps 15 and 16 - are valves in parallel? If yes, then opening one or the other is Critical Step but not both? <i>W/US</i> JPM steps 17 and 18 - same as #9. <i>W/US in series</i> JPM step 24 - Critical Step? Ensure IC snap makes the applicant raise charging flow.
S3											<ol style="list-style-type: none"> JPM title doesn't match ES-301-2. Pre-req 2.8 - not signed off? Should be N/A? <i>yes</i> Lots of P&Ls to review - need to give applicant extra time but not to interfere with schedule (start brief while other applicant is performing the JPM). Procedure step 5.1.3 - what is NDR stand for? <i>W/US Design Report</i> Procedure step 5.1.3.D.4(3) - box not checked? <i>Checked</i> Procedure step 5.1.3.D.5 and 6) - boxes not checked? <i>Checked</i>

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			IC Focus	Cues	Critical Steps	Scope (NB)	Over-lap		
S4									<p>1. ABN-101: procedure has no section 3? <i>add all proc.</i></p> <p>2. How are JPM steps 2 and 3 different? <i>OK</i></p> <p>3. If applicant reaches decision to perform JPM step 4 regardless of decision making process in JPM step 3, then JPM step 3 is NOT Critical Step.</p> <p>4. JPM step 4, Standard: should only be to trip the reactor. Observing reactor trip breakers (at least one open) should be included in JPM step 5 as immediate action steps of EOP-0.0A.</p> <p>5. While no alternate path exists for immediate actions of E-0, JPM step 5 should be Critical Step (need to define Task Standard appropriately).</p> <p>6. Need to add EOP 0.0A as Required Materials for JPM.</p> <p>7. Since ABN directs applicant to E-0 and informs them that other operators will continue with the ABN, an Examiner Cue is required to redirect applicant back to ABN.</p> <p>8. How does this JPM qualify as an Alternate Path? There is no evolution being performed when the malfunction occurred, therefore the procedure path taken by the applicant to address the malfunction is done without alteration. The applicant does not demonstrate the ability to determine an alternate success path while addressing the seal failure.</p>
S5									<p>1. Numerous pre-reqs, P&Ls, and notes - brief applicants early.</p> <p>2. For JPM steps 3 through 6 - will the control outputs already be at 0% demand? If so, then steps are not Critical. <i>NO</i></p> <p>3. JPM step 7 - add Examiner Note that only 1MS-0742 should be opened since initial conditions stated that 1-HS-2452-1 (MS-4) is available to warm steam lines.</p> <p>4. JPM step 7 - the 2 minutes having expired should be an Examiner Cue, not a Booth Cue. Examiner will give the cue after the Booth reports the valve(s) open.</p> <p>5. JPM step 8 - Standard (first bullet) states the PEO should be directed to increase speed to 1800 rpm, but procedure says 2000. Second bullet states the PEO should observe both red 1-HS-2452H OPER & VLV lights illuminated... are these lights in the Control Room such that the applicant should observe them?</p> <p>6. Does Operations consider raising TDAFW pump speed to 2000 ppm with warning steam important? If so, then JPM step 8 is Critical Step (need to word Task Standard appropriately).</p>

E-0 neg. slm note? WEST

look at other Cues? WEST

GR

OK leave in.

DRAFT OPERATING TEST COMMENTS

CONTROL ROOM/IN-PLANT SYSTEMS JPMs

JPM#	1. Dyn (D/S)	2. LOD (1-5)	3. Attributes					4. Job Content		5. U/E/S	6. Explanation (See below for instructions)
			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Minutia		
S6										<p>1. JPM step 6 - change Examiner Note to Examiner Cue <i>Not triggered</i></p> <p>2. JPM step 9 - What CNTMT Fan Coolers are initially running in the JPM IC (Why only Chilled Water Return V/vs open for Fans 2 and 4)? What is the relationship between Containment Recirc Fans to CNTMT FN CLRS? <i>Same component</i></p> <p>3. JPM step 11 - is flow < 875 gpm (needed before containment entry)?</p> <p>4. JPM step 18 - applicant will have to perform one valve/breaker at a time. Is this step not Critical? <i>Yes</i></p> <p>5. How does this JPM qualify as an Alternate Path? There is no evolution being performed when the malfunction occurred, therefore the procedure path taken by the applicant to address the malfunction is done without alteration. The applicant does not demonstrate the ability to determine an alternate success path while addressing the containment failure.</p> <p>6. Since another operator has verified proper Chill Water System operation (JPM step 10), why does the applicant need a copy of SOP-814? ~</p>	
S7										<p>1. Initial Conditions - Battery Charger aligned to Bus 4E83? Procedure step 5.3.2.A not real clear.</p> <p>2. JPM step 4 - should the standard also include observing the feeder breaker opens?</p>	
S8										<p>1. Validation is easier if a copy of ALM-0081A, 1-ALB-8A would have been provided with the JPM in order to validate JPM steps 1-8.</p> <p>2. JPM step 3 - per the ALM procedure step 1.A, transition to ABN-707 is only directed if one level channel is indicating > 5% from operable channels. What guidance allows applicant to go directly to ABN-707 as stated in Examiner Note? <i>Early Condition of 707</i></p> <p>3. After JPM step 7, add step to address ALM procedure step 5.B (If press < 1125 ...)</p> <p>4. JPM Step 8 - Examiner Cue: Examiner shouldn't need to cue the applicant to go to ABN-707 since it is directed by the ALM procedure. Make this an Examiner Note that the applicant should transition to ABN-707 at this step.</p> <p>5. After JPM step 10, add step for RNO 1.b (Manually control feedwater pump master</p>	

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CONTROL ROOM/IN-PLANT SYSTEMS JPMs

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			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link		
P1										<p>1. Remove line from Attach 1, step 1. Then make step Critical Step.</p> <p>2. JPM step 5: why does examiner (examiner cue) point out location of Overspeed Trip Lever? Isn't the intent of the JPM to determine if applicant can locate this on their own? Is this step not critical? <i>NO</i></p> <p>3. Add JPM Step after Step 9 - Applicant determines that procedure step 9 is not applicable and marks the procedure accordingly.</p> <p>4. Modify Examiner Cue in JPM Step 10 to include the results of the other operator performing Steps 10-18 of Attach 1. Also, revise cue that "Another operator has completed Steps 10-18 of ABN-601, Attach 1, for Diesel Generator u-01."</p> <p>5. JPM Step 11: add MODE SELECT after u-HS-3419-1A, DG-01.</p> <p>6. Common Turnover Procedure? Is this JPO-003A, Power Operations? Is this going to be handed out to all applicants for P-1? (not listed as Req'd Materials on JPM coversheet.</p>
P2										<p>1. Title of JPM doesn't match ES-301-2.</p> <p>2. JPM Step 5 - what is the normal (as found) position of u-8388-RO? <i>open . not critical</i></p> <p>3. Consider adding procedure steps 5.3.1 I, J, and K to the JPM (depending on time)</p>
P3										<p>1. Reformat Perform Step 3 block to match style in Step 2.</p> <p>2. Add Examiner Note to Step 3 for location of 125 VDC panels. <i>and step 2</i></p> <p>3. Remove Examiner Cue to inform examinee that Time Critical portion is complete.</p> <p>4. JPM Step 4 - Examiner Note states Unit 2 breaker is located at North Wall but procedure says South Wall.</p> <p>5. Make format of JPM steps consistent.</p> <p>6. JPM Step 7 - breaker nomenclature should be SI Pump, not CCP.</p> <p>7. JPM Step 9 - valve nomenclature should be SI Pump, not CCP.</p> <p>8. Numerous procedure enhancement opportunities in ABN-807A(B), Attach 1. Track until exam complete.</p>
										<p>Generic Comments:</p> <p>1. Task Standards are weak. Need good Task Stds to accurately identify Critical Steps. Should be written in past tense. (Verified, not verify)</p> <p>2. Should include reading of Caution/Note statements into JPMs.</p> <p>3. Examiner Cues are written to imply the examiner just informs the applicant of the desired state - in reality, the examiner will indicate level/pressure/etc and the applicant will have to determine/interpret meaning.</p>

speed controller as necessary).

6. JPM step 15 - should read like ABN-707 step 5: Verify SG level control restored to normal. If not, then RNO a.1) and 2).

7. JPM steps 17 and 18 are the same. *delete Step 18*

8. JPM step 19 - When the controller AUTO pushbutton is depressed, does the MANUAL light go out such that the applicant knows to depress the MANUAL button? *Critical part is controlling in Manual*

not critical

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DRAFT OPERATING TEST COMMENTS

SCENARIOS

Scenario Set	1. ES	2. TS	3. Crit	4. IC	5. Pred	6. TL	7. L/C	8. Eff	9. U/E/S	10. Explanation (See below for instructions)
1										<p>10. Explanation (See below for instructions)</p> <p><i>✓ Event 2 - Component failure versus Normal evolution - Normal evolution is completed with transition to EOS-0.1A (not fixed at 30 sec after trip) NO</i></p> <p><i>✓ Event 8 - consider LOAF on Lead Examiner cue, not on timer done</i></p> <p><i>✓ FRH-0.1A, Step 21, RNO b. - what is available low pressure water source to SGs? See SG cond pumps</i></p> <p><i>✓ What was validation run time for this scenario?</i></p> <p><i>✓ Evaluate Quantitative Attributes - during validation</i></p> <p><i>✓ Does CPNPP have EOP Bases documents? Yes</i></p>
2										<p>1. What was validation run time for this scenario?</p> <p>2. Review potential for a secondary component failure while at low power (steam dump valve fails partially open, inadvertent start of TDAFW pump).</p> <p>3. Securing EDG w/o service water can be considered a Critical Task.</p> <p>4. Event 2 - ALB-4C stays low press alarm is < 605 psig, but D-2, p. 6 says press indication lowers to 610 psig. Will 610 psig give the alarm?</p> <p>5. Event 2 - Last line on page 6: 1-LI-960, ACCUM 1 LVL should be 950 per ARP.</p> <p>6. Event 4 - If restoring flow to SG 3 & 4 when MDAFW 1-02 trips is a CT, then is restoring flow to SG 1 & 2 when loss of MDAFW 1-01 occurs a CT?</p> <p>7. Event 5 - how big is steam line break? Will applicants have time to manually trip reactor and initiate SI?</p> <p>8. Add step 12 of EOS-1.1A to D-2's (p.19).</p>
3										<p>1. What was validation run time for this scenario?</p> <p>2. Event 1 - any requirement to inform Load Controller of downpower, especially given the turnover?</p> <p>3. Event 4 - is an "Initial Operator Action" like an "Immediate Operator Action?"</p> <p>4. Event 6 - what is significance of failing MSIV for SG 1-04 closed? Does it add value?</p>
4										<p>1. What was validation run time for this scenario?</p> <p>2. Event 9 - if SBLOCA allows for applicants to initiate Manual reactor trip prior to auto actuation, this event may not be of any value.</p>

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- ES: ES-301 checklists 4, 5, & 6 satisfied.
- TS: Set includes SRO TS actions for each SRO, with required actions explicitly detailed.

DRAFT OPERATING TEST COMMENTS

SCENARIOS

3. Crit: Each manipulation or evolution has explicit success criteria documented in Form ES-D-2.
4. IC: Out of service equipment and other initial conditions reasonably consistent between scenarios and not predictive of scenario events and actions.
5. Pred: Scenario sequence and other factors avoid predictability issues.
6. TL: Time line constructed, including event and process triggered conditions, such that scenario can run without routine examiner cuing.
7. L/C: Length and complexity for each scenario in the set is reasonable for the crew mix being examined, such that all applicants have reasonably similar exposure and events are needed for evaluation purposes.
8. Eff: Sequence of events is reasonably efficient for examination purposes, especially with respect to long delays or interactions.
9. Based on the reviewer's judgment, rate the scenario set as (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory.
10. Provide a brief description of problem in the explanation column.
11. Save initial review comments as normal black text; indicate how comments were resolved using blue text so that each JPM used on the exam is reflected by a (S)atisfactory resolution on this form.