

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)	Overlap	Job-Link	Minutia		
RO (A1)	S	2								S	Revision 1 (NRC Validation Week) Added the word "given" prior to "work history" in initiating cue.
RO (A2)	S	3								E S	-Applicants will likely interpolate final SF Pool Volume to determine final SF Pool Level, show interpolation at bottom of Att C2 key ( Elev = 400.483, LI-2004 = -0.017). -Final SP Pool level acceptable range is -0.1 to 0.0 based on LI-2004 significant figures. No justification to accept +0.1. Revision 2 <ul style="list-style-type: none"> <li>• Changed Task Standard to accept 0.0 to -0.1 feet (Affected pages 2, 3 and 4)</li> <li>• Added calculation to interpolate an actual level of -0.017 feet from Attachment C2 (Page 4 and Handout Key (Rev. 2))</li> </ul>
RO (A3)	S	3								E S	-Will applicants have P&ID library available to them during administration if they desire to retrieve additional prints for review? -Revise task standard to: "The applicant identified the following components at minimum for danger tagging: A-306 (racked down), etc ...." Revision 1 <ul style="list-style-type: none"> <li>• Yes, applicants will have access to the plant reference library during Admin JPMS</li> <li>• Changed Task Standard as described above. (Page 2)</li> </ul> Revision 2 (NRC Validation Week) <ul style="list-style-type: none"> <li>• Changed step 3 standard by adding "or MU-22A" since these valves are in series.</li> <li>• EN-OP-102 does NOT say that a stop-check can or cannot be used as an isolation. MU-22A is a stop-check valve.</li> <li>• Verified breaker A306 is first in sequence in the standard.</li> </ul>
RO (A4)	S	2								E S	-Clarify task standard acceptable value for stay time is 26.1 min (-0.1 min). -Add a line in JPM stating that applicant determines his remaining available dose is 50 mR. -You can delete from task standard, "Referred to the attached RWP ....", it's implicit. [JPM completely replaced following draft submittal] Revision 1 <ul style="list-style-type: none"> <li>• Task Standard now reads as follows Using available information, applicant determined:                             <ul style="list-style-type: none"> <li>• Remaining available dose is 50 mR</li> <li>• MAXIMUM stay time at the P-34A pump inboard seal area is 26.1 to 26.0 minutes</li> <li>• Required protective clothing requirements are single set of anti-Cs</li> </ul>                             (Affected pages 2, 3, 4, and 5)                         </li> </ul>
SRO (A5)	S	2								S	[Same at A1] No Changes
SRO (A6)	S	3								E S	[Same at A2] Revision 2 <ul style="list-style-type: none"> <li>• Changed Task Standard to accept 0.0 to -0.1 feet (Affected pages 2, 3 and 4)</li> </ul> Added calculation to interpolate an actual level of -0.017 feet from Attachment C2 (Page 4 and Handout Key (Rev. 2))
SRO (A7)	S	3								E S	-Specify the 3 errors in the task standard. -Clarify what guidance dictates that A-306 should be the first tag in the sequence. Revision 1

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											<ul style="list-style-type: none"> <li>Task Standard now reads as follows (Page 2) The examinee has correctly identified the following three errors on the provided list and should not approve of sending this list to the tagging group. 1) MU-20A should be added instead of MU-20B 2) Breaker A-306 should be the first sequence component instead of third 3) MU-21A should be added to the tagout in the CLOSED position.</li> <li>Added reference to EN-OP-102 for tagging sequence recommendations. (Pages 3 and 4) Revision 2 (NRC Validation Week) Deleted Step 2, this step was unnecessary. Step 3, added "per EN-OP-102" to standard in second sentence.</li> </ul>
SRO (A8)	S	2								E S	<p><b>-Change</b> Operator E's (DPW) accumulated dose to less than 50 mrem such that the 400 mrem gestation limit will not be exceeded, but applicant has to recognize the 50 mrem per month limit is exceeded.</p> <p>Rev. 1</p> <ul style="list-style-type: none"> <li>Changed Operator E's (DPW) initial accumulated dose to 50 mrem. (Pages 3, 4, 5, and 7)</li> </ul> <p>Rev. 2 (NRC Validation Week) Changed Operator E's (DPW) initial accumulated dose to 25 mrem. (Pages 3, 4, 5, and 7).</p>
SRO (A9)	S	3								S	<p>-Include an EPZ map for examiner.</p> <p>No change to JPM, attached EPZ Map as last page of package.</p>

**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)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- 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 **red text** so that each JPM used on the exam is reflected by a (S)atisfactory resolution on this form.

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	Minutia		
S1	S	2								S	-Task Standard: "The applicant completed Section 3.0 of ... and properly verified operability of API and RPI." Delete "as necessary". -All JPMS: Need to differentiate between what is a "Positive Cue" that the applicant is responsible for determining, versus what is an "Examiner Cue" that the examiner is responsible for giving the applicant. I like the inclusion of both positive and negative cues in the in-plant JPMS, but it's less clear in the simulator JPMS. Adding [EXAMINER] to the cue would suffice. Rev. 52 <ul style="list-style-type: none"> <li>• Changed Task Standard as requested</li> <li>• Changed POSITIVE CUE to EXAMINER CUE (Pages 6 and 9)</li> </ul> Rev. 53 After NRC Validation Week <ul style="list-style-type: none"> <li>• Changed validation time to 15 minutes from 10 minutes.</li> <li>• Bolded the expected cue in each step</li> <li>• Added an item to the "Suggested simulator setup" to verify that the PI Panel indication is not stuck following each reset.</li> <li>• Added 250 EFPD to the initial conditions given the applicant.</li> </ul>
S2	D	2		✗				✗		U S	-All alternate path JPMS: it is standard on a JPM pedigree sheet to include fields to identify if a JPM is alternate path or not, or time critical (page 1 of 6). -Identify where the alternate path begins -Step 1: CV-1407 open is a positive cue. Is applicant going to attempt to open CV-1408 in step 1? -Step 1.A state in parentheses which components P-34B, P-36C, and P-35B are. -Weak JPM, only 2 verifiable actions. Also this task will be performed in scenarios where ESAS actuates (albeit without the fault), high overlap. Finally, if ESAS actuated properly then there would presumably be no verifiable actions for the applicant, so the applicant is implicitly cued that this is going to be an alternate path JPM. My preference is to replace this JPM. Rev. 7 <ul style="list-style-type: none"> <li>• Stated on Page 2 that this is an alternate success path JPM (No changes)</li> <li>• Added Alternate Path designators as appropriate. (Pages 3 and 5)</li> <li>• Modified Cue to "POSITIVE / NEGATIVE CUE"</li> <li>• The applicant may attempt to override and open CV-1408 but there is no procedural requirements / guidance for this action.</li> <li>• Added description to Step 1A</li> <li>• Discussed strength of JPM during phone call.</li> <li>• I contend that this is the most discriminating JPM on the test due to the requirement of prompt action and the decision that has to be made prior to throttling HPI flow.</li> </ul> Rev. 8 After NRC Validation Week <ul style="list-style-type: none"> <li>• Changed validation time to 7 minutes from 10 minutes. (Page 1)</li> <li>• Added "HPI Pump P-36C must be secured" to the task standard. (Page 2)</li> <li>• Bolded expected cues. (Pages 3 – 5)</li> <li>• Added EXAMINER NOTE to Page 4 explaining that Channels 5 and 6 may</li> </ul>

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			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Minutia		
											<p>actuate and the applicant may re-perform previous steps.</p> <ul style="list-style-type: none"> <li>Modified Initial Conditions to reflect actual plant conditions and inform the applicant that ESAS is imminent. (Pages 2 and 6)</li> </ul>
S3	D	2								S	<p>-For all JPMS in which the applicant picks up at a mid-point in a procedure, ensure the procedure he is given is marked up to that point for completed steps. -step 8.2.13 should be a negative cue.</p> <p>Rev. 5</p> <ul style="list-style-type: none"> <li>Changed Step 8.2.13 to a Negative Cue. (Page 4)</li> <li>Indicated beginning and end of alternate path. (Page3 and 6)</li> </ul> <p>Rev. 6 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Changed Rod index for initial conditions to reflect current plant conditions. (Pages 2 and 7)</li> <li>Added "without causing a Reactor Trip" to the task standard. (Page 2)</li> <li>Bolded expected cues. (Pages 3 – 6)</li> <li>Deleted N/A steps. (Page 6)</li> </ul>
S4	D	3								S	<p>-The task standard is supposed to be the desired end-state, which if not met indicated a JPM failure. In this JPM and a few others, the task standard appears just to be the initiating cue. Task Standard for S4 should read, "The applicant secured P-32A RCP in accordance with OP-1103.006 Section 10.0, recognized reverse pump rotation, and tripped the reactor."</p> <p>Rev. 3</p> <ul style="list-style-type: none"> <li>Changed Task Standard to read as follows: The Applicant secured P-32A RCP in accordance with OP-1103.006 Section 10.0, recognized reverse pump rotation, and tripped the reactor and all other running RCPs. (Page 2)</li> <li>Changed Step 10.7.1 to a NEGATIVE CUE. (Page 5)</li> <li>Indicated beginning and end of alternate path. (Page5 and 6)</li> </ul> <p>Rev. 4 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Changed initial conditions to reflect current reactor power. (Pages 2 and 8)</li> <li>Added EXAMINER NOTE to Page 3 to show that the applicant will verify oil pumps running by checking flow switches on plant computer.</li> <li>Bolded expected cues. (Pages 3 – 6)</li> <li>Place kept procedure up to Step 10.5 and N/A'd 10.5.2, 10.5.3, and 10.5.4 for the C, D and B RCPs respectively.</li> </ul>
S5	D	3								S	<p>Rev. 9 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Changed validation time to 7 minutes from 10 minutes. (Page 1)</li> <li>Changed task standard to "Quench Tank lowered to ~5100 gallons without causing the low level alarm".</li> <li>Revised initial conditions to reflect changes to the JPM. (Pages 2 and 5)</li> <li>Bolded expected cues. (Pages 3 and 4)</li> <li>Adjusted Simulator IC to have Quench Tank level at ~5200 gallons.</li> </ul>

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			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Minutia		
S6	D	3								S	<p>Add “only” to end of Task Standard.</p> <p>Rev. 1</p> <ul style="list-style-type: none"> <li>Added “only” to the Task Standard. (Page 2)</li> <li>Indicated beginning and end of alternate path. (Page 6)</li> <li>Added EXAMINER CUE after Step 8.4. (Page 6)</li> </ul> <p>Rev. 2 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Selected specific aspects of each step that are critical rather than designating the entire step as critical. Bolded applicable parts for emphasis. (Pages 4 – 7)</li> <li>Corrected numbering for H2 bus transfer steps. (Page 7)</li> <li>Deleted Step 8.6.1 since it is N/A</li> <li>Adjusted Simulator IC to include the faulted breaker condition as part of the setup, so that I will not have to remember to insert the failure.</li> </ul>
S7	S	2				×				E S	<p>-JPM is effectively a single step as-written; modify to test 3 monitors, at least one of which has an out-of-acceptance alarm setpoint. Hesitant to credit this as an alternate path JPM as written - if the setpoint wasn't out of tolerance, there would be no verifiable actions in this JPM.</p> <p>Replaced with A1JPM-RO-RPS02_R4</p> <p>Rev. 5 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Changed validation time to 10 minutes from 5 minutes. (Page 1)</li> <li>Modified the task standard to include “without tripping channel during JPM”. (Page 2)</li> <li>Made Step 8.2.2 a Critical Step, if this is not performed the channel will trip when taken out of bypass.</li> <li>Added a description of the modules to check in Step 8.2.1</li> <li>Added a description of the bistables to reset in Step 8.2.2</li> <li>Added EXAMINER CUE following Step 8.2.5 since the simulator does not fully model all four RPS Channels.</li> <li>Added EXAMINER NOTE prior to step 11.5, to verify that the applicant performing the S8 JPM is clear of the area before proceeding to the next step.</li> </ul>
S8	D	2								S	<p>Step 10.1.5 changed “POSTITIVE CUE” to “EXAMINER CUE” (Page 4)</p> <p>Step 10.1.9 changed “POSTITIVE CUE” to “EXAMINER CUE” (Page 5)</p> <p>Rev. 11 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Changed validation time to 7 minutes from 10 minutes. (Page 1)</li> <li>Deleted EXAMINER CUE since the information is given in the initial conditions.</li> <li>Changed POSITIVE CUE for Step 10.1.8 to ~2400 gpm.</li> </ul>
P1	D	3								S	<p>-Step 15.3.5 modify positive cue to “CO2 outlet pressure increases from 0 psig to ~75psig ...”</p> <p>-Add to examiner note before 15.3.6 that “Alternate Path Starts Here” [repeat for all alt path JPMS].</p> <p>Rev. 2</p>

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			IC Focus	Cues	Critical Steps	Scope (N/B)	Overlap	Job-Link	Minutia		
											<ul style="list-style-type: none"> <li>Changed POSITIVE CUE to show that CO2 pressure increased from 0 to ~75 psig. (Page 4)</li> <li>Added to the Examiner Note, <b>“ALTERNATE PATH STARTS HERE”</b>. (Page 5)</li> </ul> <p>Rev. 3 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Added “Alternate Path” to Page 1 data</li> <li>Changed Validation Time to 15 minutes from 20 minutes.</li> <li>Bolded all expected cues</li> <li>Added PI-9002A pressure to cue in Step 15.1.3</li> <li>Made Step 15.2 a critical step</li> <li>Corrected typo in Step 15.3.2 and 15.3.4</li> <li>Removed critical step designation from Step 15.3.5 and modified the standard with “(Must call the control room for generator pressure)”.</li> <li>Changed “EXAMINER NOTE” to “EXAMINER CUE” on page 5 and modified the contents of the notes to describe the condition rather than just stating that flow has stopped or that all 15 bottles have been added.</li> </ul>
P2	D	3								S	<p>-Step G, no positive cue required.</p> <p>Rev. 11</p> <ul style="list-style-type: none"> <li>Deleted Cue for Step G. (Page 4)</li> </ul> <p>Rev. 12 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>Bolded all expected cues</li> <li>Added description to Steps E and H to ensure the proper access door is used for Cabinets 72 and 55.</li> <li>Changed “POSITIVE CUE” to “EXAMINER CUE” for steps F.</li> <li>Added some description to EXAMINER NOTE on Page 4 to describe where the tools and PPE can be obtained. Also combined notes into one.</li> <li>Place kept procedure up to Step E since the applicant would be coming from the control room and would most likely bring the working copy with him.</li> <li>Took new picture of C55 cabinet internals.</li> </ul>
P3	S	2								E S	<p>-Number procedure steps in JPM e.g. 18.1.1.</p> <p>-Task standard is the same as initiating cue – should be “Applicant aligned ...”.</p> <p>-Step 1 not critical. Q: Is it not critical because we find it in the correct position? Having the valve closed is required as part of the sampling process.</p> <p>-Step 2: is applicant actually going to be installing a tag? We wouldn’t typically consider this a critical task. Tag should be installed from when the tank was filled, however the tag is required as part of the sampling process.</p> <p>-Very weak JPM – only 2 verifiable actions. Would be improved if system starts out in a different lineup which would require more verifiable actions.</p> <p>Other option: Is applicant using radwaste control panel C112 to start P-47A? Expect applicant to use local handswitch to start pump since it is located near the valves being manipulated. LOD might be improved if the applicant has to secure from lineup, and P-47A</p>

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											<p>fails to stop from C112, therefore applicant has to stop it from local handswitch. Would need to evaluate impact on time and transition, as well as impact on limits for alt path JPMS.</p> <p>Rev. 1 \</p> <ul style="list-style-type: none"> <li>• Numbered steps as found in the procedure. (Pages 3 and 4)</li> <li>• Changed Task Standard as directed. (Page 2)</li> <li>• Removed Critical Step (C) for Step 1. (Page 3)</li> </ul> <p>Discuss performing Steps 13.12 – 13.16.3 as an option with the fact that P-48 was the pump in service and has tripped on high T-16 level. This would add an alternate path and would require closing the valve in Step 18.1 and installing the tag in Step 18.1.1. of the current JPM. There are several more valves to check and more N/A steps to work through.</p> <p>Rev. 2 After NRC Validation Week</p> <ul style="list-style-type: none"> <li>• Added "Alternate Path" to Page 1 data</li> <li>• Bolded all expected cues</li> <li>• Changed description for Step 18.1 to ... "No valve stem visible and limit switch engaged."</li> <li>• Removed critical task designation from Step 18.1.1</li> <li>• Added expected discharge pressure to cue in Step 18.3.3</li> <li>• Changed POSITIVE CUE TO EXAMINER CUE for Step 18.4 and made the cue say that Section 1.0 of Attachment B1 is filled in</li> <li>• Changed EXAMINER CUE for Step 18.5 to tell applicant that sampling and neutralizing operations are complete.</li> <li>• Added Step 18.6 and faulted the response to require the applicant to stop P-47A from an alternate handswitch.</li> <li>• Deleted Attachment B1 from the package since we are going to tell the applicant that it is filled in.</li> </ul>

General:

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2. 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.
3. Check the appropriate box when an attribute weakness is identified:
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  - § All critical steps (elements) have not been properly identified.
  - § Scope of the task is either too narrow (N) or too broad (B).
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4. Check the appropriate box when a job content error is identified:
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  - Task is trivial and without safety significance.
5. Based on the reviewer=s judgment, is the JPM as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
6. Provide a brief description of any U or E rating in the explanation column.
7. 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.



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			✖						E S	<p>-All scenarios – for target quantitative attributes table on D-1, only include numbers for the applicable scenario.</p> <p>-All scenarios – include concise summary of critical tasks in a D-1 table for quick reference.</p> <p>All scenarios – it is helpful to annotate in the D-2 in each procedure step if it is “[N/A]”.</p> <p>-CT-24 (ATWS – manual reactor trip): The measurable performance indicator is stated as “The reactor trip pushbuttons must be depressed within 1 minute of exceeding the reactor trip setpoint of RCS Pressure &lt; 1800 psig, in order to meet the TCOA acceptance criteria. The applicant will ... manually insert control rods while dispatching the AO to open the AC CRD power supply breakers.” The CT however can’t be met by taking an action that will have no impact on mitigating the condition (pushbutton will not trip reactor). The CT is met by dispatching an operator who will successfully open CRD breakers. ANO and NRC need to agree on acceptable bounding criteria for dispatching an operator – “The crew dispatches an operator to open both CRD AC Power Supply breakers ... [ prior to continuing beyond immediate action steps; <b>within 1 minute of exceeding the reactor trip setpoint of RCS pressure &lt; 1800 psig</b>; prior to RCS pressure dropping below 1700 psig; etc.]</p> <p>-Include events 8 and 9 at the top of D2 pages where applicable.</p> <p>-CT-2: Initiate both trains of HPI. I’m not used to seeing a CT success criteria of initiating BOTH trains of ESF equipment – it is always stated that safety is ensured with a single train. ANO’s justification (3) states that one HPI pump is all that is required for adequate core cooling, and the 2<sup>nd</sup> HPI pump simply provides margin. This brings into question the safety significance of the task. Better to either have the ESAS Channel 1 HPI pump trip, thereby making initiation of ESAS Ch 2 the only available pump, or have ESAS Channel 1 and 2 both fail to actuate. Also, if an objective parameter is available as the bounding criteria, that is generally preferable to a procedure transition – a value of SCM would be appropriate for this CT.</p> <p>-Event 6: which of the response actions are verifiable actions in the control room? <b>Starting C-5B</b></p> <p>-Is the crew expected to emergency borate (RT-12)? Front matter says yes and RT-12 included, but Position says “N/A”. <b>NO</b></p> <p>-Page 75 blank. – <b>Deleted</b> <b>Moved continuous rod motion to just before major.</b></p>
2									S	<p>Spare Scenario</p> <p>-All scenarios: we don’t need the dedicated notes section at the bottom of every page; remove to shorten the size of the package.</p> <p>-All scenarios: in the CT supporting documentation write-ups, the numbered items in the “ANO Version” and “Justification for ANO” sections appear to be referencing different specific initiating malfunctions which are not explicitly defined. Please provide for clarity and completeness. Also, please provide the reference document which contains the library of these ANO-specific CTs.</p> <p>-CT-17: does reaching either criteria (P-RCS = 1550 psig or T-cold = 500F) equate to a CT failure, or do both parameters have to be reached? <b>[prior to ESAS actuation is new</b></p>

										threshold] -Event 8: Bold or otherwise highlight the actual manipulations required to satisfy the critical task. Same with other CTs. Replace the term “Examiner Note” with “***CRITICAL TASK***”
3									E S	-Event 1: Add “TS” to event type on D-1 -Event 1 pages 9-10: clarify that the DH Pump is tripping at this point, still same event. -Event 3: specify if CV-4018 fails open or closed on D-1 -Add reference to the TS the CRS enters on RCS leakage in narrative. Correct narrative for event 2 that CRS is entering TRM 3.4.2, not TS 3.4.2 -Add note at end event 2 defining that CRS should enter TRM 3.4.2, and reference but not enter TS 3.4.1. For all scenarios need to explicitly state which TS are expected to be entered, not just referenced. -Event 5: Add reference to CRS next to TS entry page 44 of 82. -CT-19: Confirm that LOCA is large enough to cause RB Pressure to rise to ES CH 7-10 setpoint if operator action is not taken. -All Scenarios: Change “Malf. No.” column to “Applicant” <b>Actuating ES Ch 5 OR 6 satisfies CT.</b>
4									S	-CT10: Is the bounding criteria <u>either</u> OTSG level dropping to 6 inches, or both? Specify the range. <b>Either.</b>
5									S	-Specify TS entries in narrative. -D1 implies there are 3 CTs. -Will the bad SG be expected to be isolated within the scope of this scenario? If so, that is a CT. <b>Correct.</b> <b>-Swapped events 4 and 5.</b>

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

