

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)		1			X					U	1. (GENERIC COMMENT) Need to identify exactly what is to be handed out to applicants (procedures, attachments, graphs, etc). 2. This JPM has little discriminatory value. 3. Why are the temps given in the initial conditions? Major revisions made
RO (A2)					X					U	1. Reference the procedure in the Initiating Cue (... in accordance with...). Minor revisions made
RO (A3)										E	1. Cue steps 2 and 3 are essentially the same (as identified in the JPM Standard) 2. Do NOT provide the note under the Initiating Cue. 3. Review during validation with full size prints. Minor revisions made
SRO/RO (A4)								X		U	1. Little discriminatory value. This JPM is required of all Rad Workers. Replaced JPM
SRO (A5)										U	1. Little discriminatory value. First Critical Step is simple math. Second Critical Step is simple math and knowledge of steam tables. The one non-Critical Step is given in the cue. 2. JPM Step 3 is part of JPM Step 4. (Attachment 1 only has 3 steps) Major revisions made
SRO (A6)										E	1. Initial Conditions – does “last shift” mean current shift? Consider “at the beginning of your shift all safety levels” and “during your shift, the following changes have occurred.” 2. Initial Conditions – first bullet: Upper Storage Pool is “at” not “a” 3. Initiating Cue – what is the “attached sheet?” 4. Step 4 – the Standard does not identify the correct answer. Revisions made
SRO (A7)					X					U	1. Initial Conditions – “At the beginning of <u>your</u> shift” 2. Step 1 – this Critical Step is a direct lookup. 3. Step 2 - what is the reference for this step? Replaced JPM
SRO (A8)										E	1. Must inform the applicant on the cue sheet that this JPM is time critical. 2. Step 3 – A General Emergency has already been declared. Requirement is to notify state and local authorities within 15 minutes. 3. What method is used to transmit PARs to state and local authorities? How long does it take? This will determine how long applicant has to complete the PARs form. 4. Initiating Cue states “declaration time is the time you received this form.” Declaration has already been made. Minor revisions made

Instructions for Completing Matrix

This form is not contained in or required by NUREG-1021. Utilities are not required or encouraged to use it. The purpose of this form is to enhance regional consistency in reviewing operating tests. Additional information on these areas may be found in Examination Good Practices Appendix D. Check or mark any item(s) requiring comment and explain the issue in the space provided.

1. 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.

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:
 - 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.
4. 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.
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.

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C1	S	3								E	1. (GENERIC COMMENT) Every JPM must clearly identify the TASK STANDARD (i.e. the predetermined qualitative and/or quantitative outcome) against which task performance will be measured. (See 1021, Appendix C, Section B.3) 2. Several minor editorial comments 3. Outline (ES-301-2) identifies the JPM as a Low-Power but Initial Conditions do not state the power level. Fixed
C2	S	3								E	Several minor editorial comments Fixed
S1	D									E	1. (GENERIC COMMENT) All JPM steps must have a performance standard. 2. Step 10 – what procedure is used for the Alternate Path? 3. Outline (ES-301-2) identifies the JPM is for Recirc Pump “A” Fixed
S2	D									E	1. Step 1 – can the procedure be completed without rotating collar? If not, then the step is Critical. 2. Step 3 – are any of the valves manually shut? If not, then step is not Critical. Fixed
S3	D									E	1. Step 3 – no operator actions therefore step is not Critical Step 2. Step 4 – applicant cannot finish without going to Section 5.4.7 so step is Critical. 3. Step 5 – no operator actions therefore step is not Critical. 4. Step 7 – no operator actions therefore step is not Critical. 5. Step 10 – no operator actions therefore step is not Critical. 6. Initiating Cue – add “The CRS directs you to rotate...” and add “in accordance with SOP-0066, Control Building HVAC Chilled Water System, Section 5.4.” Fixed
S4	D									E	1. Step 5 – no operator actions therefore step is not Critical. 2. Step 8 – no operator actions therefore step is not Critical. 3. Step 10 – operator must depress button to restore therefore step is Critical. Fixed
S5	D									E	Fixed
S6	D									E	1. Step 5 – no operator actions therefore step is not Critical Step 2. Step 6 – no operator actions therefore step is not Critical Step 3. Steps 8 and 9 could be Critical Steps depending on how the Task Standard is written. 4. Outline (ES-301-2) identifies the JPM as a Low-Power but Initial Conditions do not state the power level. Fixed
P1	S	3								E	1. Step 3 – How does the applicant know “needed contents?” 2. Initiating Cue – add “You are directed to supply the SVV Supply Header from IAS.”

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											3. Steps 11 & 12 – where does it state that these steps may be done in any order? 4. Steps 15 & 16 – where does it state that these steps may be done in any order? Fixed
P2	S	3								E	1. Initiating Cue – add procedure and section 2. Initial Conditions – identify “diesel” as HPCS Diesel Generator 3. Step 16 – are Required Equipment and Pre-reqs of PEP-0026 applicable? Fixed
P3	S	3								E	1. Title – Is this a Manual Start or an Emergency Start? 2. Initiating Cue – add procedure and section 3. Step 1 – add note to Comments that applicant determines 4.2.2.1 and 4.2.2.2 are N/A 4. Is a cue for Pre-requisites being complete required? 5. Step 7 – Valve name is incorrect (cut and paste error?) Fixed

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			X						E	1. At turnover, identify how long has the crew been in LCO 3.0.3. 2. Critical Task (SRV) needs acceptance criteria – what constitutes pass/fail? 3. Critical Task (restore RPV level) – is the critical task the ATC opening FW Pump bypass valve? 4. Event 2 – identify ATC must report that no signal rod scrams (can't grade a "verifies" step). 5. Event 7 – what verifiable operator actions (ATC and BOP) are to be performed in order for this event to count as a component failure? Fixed
2		X	X						E	1. Major event not identified (not corrected from Draft Outlines) 2. D-1 still missing Tech Spec events (not corrected from Draft Outlines) 3. Critical Task (restore RPV level) needs acceptance criteria. Also, make Path 2 not available. 4. Critical Task (restore off-site power) needs acceptance criteria. 5. Event 2 – identify the procedure used for raising power on the D-2. 6. (GENERIC COMMENT) Where possible, include nomenclature names of equipment (not just equipment designator). For instance, identify FW Pump 'A' and not just FWS-P1A. 7. (GENERIC COMMENT) Include procedure names, not just numbers. 8. Event 3 – identify the applicable TS Condition on the D-2. 9. Event 4 – identify the applicable ARP on the D-2. Will the Accumulator Trouble alarms be received prior to starting the standby CRD pump in all runs of this scenario in that we can count on getting the TS calls? 10. Event 8 – what verifiable operator actions are to be performed in order for this event to count as a component failure? 11. Event 1 – The D-1 lists this as Normal evolution for ALL, but D-2 only identifies actions for ATC. Which is correct? Fixed
3			X						E	1. Event 6 – what will the turbine vibrations be during the event? 2. Critical Task (high turbine vibrations) – explain how this is safety significant. 3. Critical Task (ATWS) needs acceptance criteria. 4. Event 7 – does the CRS give direction to scram or is it automatic? Isn't the turbine tripped from Event 6? If so, then the CRS won't direct it to be tripped again. Is the procedure flow is AOP-2, then AOP-1 after the scram? 5. Event 5 – identify what procedure is used to lower power via recirc flow on the D-2. 6. Event 6 – what verifiable operator actions are to be performed in order for this event to count as a component failure? Appears to be a precursor to the Reactor Scram event #7. Renumber events and update Forms ES-301-5 and 6. Fixed
4			C						E	1. Critical Task (ED) needs acceptance criteria. 2. Critical Task (ARI) needs acceptance criteria. Steps containing "verify" cannot be used to determine success/failure.

											3. Event 1 – need SOP-0007 as a reference document. 4. Event 3 – need RCP-15-023 as a reference document. 5. Event 4 – identify ATC must report that no signal rod scrams (can't grade a "verifies" step). Also, identify this event as a "C" on the D-1. Fixed
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Instructions for Completing Matrix

This form is not contained in or required by NUREG-1021. Utilities are not required or encouraged to use it. The purpose of this form is to enhance regional consistency in reviewing operating test scenario sets. Additional information on these areas may be found in Examination Good Practices Appendix D. Check or mark any item(s) requiring comment and explain the issue in the space provided.

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.