

Callaway July 2000
Reviewer: Ryan Lantz
CE: Howard Bundy

INITIAL EXAMINATION DESK GUIDE APPENDIX E - REGION IV OPERATING TEST JOB PERFORMANCE MEASURE QUALITY REVIEW MATRIX											
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		
B1a	D				6					E	Repetitive, sugg simulate rod movements and counter indications after SD Bank B. <i>RES: No change. Not realistic to condense.</i>
B1b	S				6	✓				U	System line-up, no system knowledge needed, non-discrimin. See ES-301 D1d <i>RES: No change. Licensee justified importance of task.</i>
B1c	D				4					E	Should set up task so pressure needs to be adjusted (So it will go high during refill) <i>RES: Incorporated</i>
B1d	D			✓	3					E	IC says fan previously secured due to high vib, this provides a cue to coming events. <i>RES: Incorporated</i>
B1e	D				2					S	
B1f	S				2	✓				U	System lineup, minimal system knowledge. See ES-301 D1d <i>RES: Replaced</i>
B1g	S				3					S	System lineup, but meets ES-301 D1d
B2a	S				3					S	
B2b	S				2					S	
B2c	S				4					S	
ADM1	-				-					S	JPM steps? Need an answer key and how key was arrived at (for all admin JPMs) <i>RES: Incorporated</i>
ADM2	-				-					S	See ADM1 <i>RES: Incorporated</i>
ADM3	-				-					S	See ADM1 <i>RES: Incorporated</i>
ADM4	-			✓	-					S	See ADM1. Questions following 2 nd bullet in cue detract from operational validity. <i>RES: Revised</i>
ADM5	-				-	✓				U	This is an admin Q, not a JPM. Replace w/ JPM or add another Q. <i>RES: Replaced</i>
ADM6	-				-					E	See ADM1. Which QPTR is out of limits? <i>RES: Identified OOL QPTR in key</i>
ADM7	-				-					E	Clarify key... seq is OK, just one wrong valve number. <i>RES: Revised</i>
ADM8	-				-					S	See ADM1 <i>RES: Incorporated</i>

Instructions for Completing Matrix (Complete for either all items or all items requiring comment):

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 an system reconfiguration or realignment.
2. Determine level of difficulty (LOD) using established 1-5 rating scale.
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 problem in the explanation column.

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B1c	D				4					E	Should set up task so pressure needs to be adjusted (So it will go high during refill) <i>RES: Incorporated</i>
B1d	D			✓	3					E	IC says fan previously secured due to high vib, this provides a cue to coming events. <i>RES: Incorporated</i>
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B1f	S				2	✓				U	System lineup, minimal system knowledge. See ES-301 D1d <i>RES: Replaced</i>
B1g	S				3					S	System lineup, but meets ES-301 D1d
B2a	S				3					S	
B2b	S				2					S	
B2c	S				4					S	
ADM1	-				-					S	JPM steps? Need an answer key and how key was arrived at (for all admin JPMs) <i>RES: Incorporated</i>
ADM2	-				-					S	See ADM1 <i>RES: Incorporated</i>
ADM3	-				-					S	See ADM1 <i>RES: Incorporated</i>
ADM4	-			✓	-					S	See ADM1. Questions following 2 nd bullet in cue detract from operational validity. <i>RES: Revised</i>
ADM5	-				-	✓				U	This is an admin Q, not a JPM. Replace w/ JPM or add another Q. <i>RES: Replaced</i>
ADM6	-				-					E	See ADM1. Which QPTR is out of limits? <i>RES: Identified OOL QPTR in key</i>
ADM7	-				-					E	Clarify key... seq is OK, just one wrong valve number. <i>RES: Revised</i>
ADM8	-				-					S	See ADM1 <i>RES: Incorporated</i>

Instructions for Completing Matrix (Complete for either all items or all items requiring comment):

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INITIAL EXAMINATION DESK GUIDE APPENDIX F - REGION IV OPERATING TEST QUESTION QUALITY REVIEW MATRIX													
Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Errors					4. Job Content Errors				5. U/E/S	6. Explanation (See below for instructions)
			Stem Focus	Direct L/U	One Ans	Min Resp	Scope (TS?)	Job- Link	Minu- tia	SRO Only	Back- wards		
ADM1	F	2	✓					✓				U	Accountability/ not a license level Q. Should also read "Site <u>Area</u> Emergency" is declared <i>RES: Replace</i>
ADM2	F	2	✓					✓				U	See above comment. <i>RES: Revise</i>
ADM5	F	2		✓								E	Change to closed ref/ or replace <i>RES: Replace</i>
Instructions for Completing Matrix (Complete for either all items or all items requiring comment): 1. Classify level of knowledge (LOK) as either (F)undamental or (H)igher cognitive level. 2. Determine level of difficulty (LOD) using established 1-5 rating scale. 3. Check the appropriate box when a psychometric error is identified: • Stem lacks sufficient focus to solicit only the answers listed (e.g., unclear on intent, answer needed, or unnecessarily negatively phrased) • Direct lookup (e.g., desired answer contained in obvious reference), • Question does NOT solicit single demonstrably correct answer, • Minimum response for passing credit NOT described in key, • Scope of question outside guidance of NUREG (e.g., why not how, TS bases not system, emergency not emergency plan), 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, invalid K/A). • Recall of too specific knowledge, • RO test items test at the SRO job level or vice versa, • Reverse logic or application compared to job. 5. Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory? 6. Provide a brief description of problem in the explanation column.													

Dynamic Scenario Review Comments:

Generic:

Form ES-D-1, Scenario Outline, does not annotate which board operator is expected to perform the failure actions. *RES: Incorporated*

Expected actions do not list the expected boration/dilution amounts or rule of thumb to accomplish power changes. Should briefly describe how a rapid shutdown is accomplished. *RES: Incorporated*

Expected actions should be specific to the event failure, for example, should say: Identify failed pressurizer pressure channel BB-PT 455. Select alternate channel ??? or ???. *RES: Incorporated*

Scenario 1:

- Unclear Initial condition. Is a power change in progress at turnover? This is probably against conduct of Ops practice/procedure. *RES: No change in progress. Clarified initial conditions.*
- Event D, Step 9 expected action. Delete. Cover in briefing that EP classification is not required unless requested. *RES: Incorporated*
- Event E/F/G/H. Should there not be a critical step for stopping steam release through failed safety valve. *RES: Revised to make stopping feed to SG and not restarting critical.*

Scenario 2:

Although Scenario 2 does contain an annunciator type component failure, (expectation of our desktop guide) it does not result in alternate monitoring by the crew, since no annunciators are disabled, and also should not be counted as a component or instrument failure, since it has no effect on the plant. Do the expected actions not include testing of the annunciators? This was not listed as an expected action. *RES: Revised to include failure for which monitoring is required.*