

FACILITY: Grand Gulf Initial June 2001

EXAM DATE: 6/1/2001

REVIEWER: R.E. LANTZ Chief Examiner: M.E. MURPHY

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. U/E/S | 6. Explanation | |
|------|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|----------|----------|--|-----------------------------|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | | | |
| ✓ 1 | F | 1 | | | | | | | | | | U | Generic Fundamentals - <i>Replaced</i> | <i>Replacement accepted</i> |
| ✓ 2 | F | 2 | X | | | | X | | | | | E | Remove Unnecessary info in stem. B appears to be answer from ref given | <i>OK</i> |
| 3 | H | 2 | | | | | | | | | | S | | |
| 4 | H | 3 | | | | | | | | | | S | Kaok | |
| ✓ 5 | H | 3 | X | | | X | | | | | | E | answer cued, only one with 2.16 diff. Remove 2.16 cue from stem, can be gleaned from info handed out. Check answer, key says 1.6/3.76 Kaok | <i>OK</i> |
| 6 | H | 2 | X | | | | X | | | | | E | a looks correct due to Q wording - <i>NOT ACCEPTED</i> | <i>OK JUSTIFIED</i> |
| ✓ 7 | H | 3 | X | X | | | | | | | | E | move common items in answer/dist to stem. Modify one dist, since answer is only one with bypass insert block | <i>OK</i> |
| 8 | F | 2 | | | | | | | | | | S | word c/d similarly Kaok - <i>NOT ACCEPTED</i> | <i>OK</i> |
| 9 | F | 2 | | | | | | | | | | S | move common words to stem - <i>NOT ACCEPTED</i> | <i>OK</i> |
| 10 | H | 3 | | | | | | | | | | S | | |
| 11 | F | 3 | | | | | | | | | | S | | |
| 12 | F | 3 | | | | | X | | | | | S | verify only one correct answer | <i>OK</i> |
| 13 | H | 2 | | | | | | | | | | S | Kaok | |
| 14 | F | 2 | | | | | | | | | | S | | |
| 15 | H | 2 | | | | | | | | | | S | Kaok | |
| 16 | F | 3 | | | | | | | | | | S | | |
| 17 | H | 3 | | X | | | | | | | | S | modify dist c, reverse last two steps (dc then ac) - <i>NOT ACCEPTED</i> | <i>OK JUSTIFIED</i> |
| ✓ 18 | F | 3 | | | | | | | | | | S | reword answer to : <u>continue</u> monitoring RWL on P680 ... | <i>OK</i> |
| ✓ 19 | H | 3 | | X | | | | | | | | E | reword answer to address... sufficient margin to not exceed | <i>OK</i> |
| 20 | H | 3 | | X | | | | | | | | S | | |
| ✓ 21 | F | 2 | | X | | | | | | | | E | c,d.. Remove redundant Evacuation distances... ie, evac to 5, not evac to 2, and evac to 5 Kaok | <i>OK as change</i> |

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|------|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|-----------|----------|---|-----------------|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Back-ward | | | |
| ✓ 22 | F | 1 | | X | | | | | | | | U | DLU w ref... remove ref or replace | OK |
| 23 | F | 3 | | | | | | | | | | S | | |
| 24 | F | 4 | | | | | | | | | | S | | |
| 25 | H | 3 | | | | | | | | | | S | | |
| 26 | F | 4 | | | | | | | | | | S | | |
| ✓ 27 | F | 3 | | | | X | | | | | | E | answer does not sound like a design basis... something is missing? Kaok | OK as changed |
| 28 | H | 3 | | | | | | | | | | S | | |
| 29 | F | 3 | | | | | | | | | | S | | |
| 30 | H | 4 | | | | | | | | | | S | BOTH level... possibly SRO only? | no change OK |
| 31 | F | 4 | | | | | | | | | | S | | |
| 32 | H | 3 | | | | | | | | | | S | | |
| 33 | F | 3 | | | | | | | | | | S | Kaok | |
| 34 | H | 3 | | | | | | | | | | S | Kaok | |
| 35 | H | 3 | | | | X | | | | | | E | A is not credible... replace dist A - no change | OK justified |
| 36 | H | 2 | | | | | | | | | | S | | |
| 37 | F | 3 | | | | | | | | | | S | | |
| ✓ 38 | H | 2 | X | | | | | | | | | S | reword Q... ask "At what position and by which function of RCIS will a rod block occur?" Then modify answers... A. Posn 16, RWL | OK as modified |
| 39 | H | 2 | | | | | | | | | | S | | |
| 40 | H | 2 | | | | | | | | | | S | | |
| 41 | F | 2 | | | | | | | | | | S | Kaok | |
| 42 | H | 3 | | | | | | | | | | S | | |
| 43 | H | 2 | | | | | | | | | | S | | |
| ✓ 44 | H | 3 | | | | X | | | | | | E | A or B must be correct... consider adding a why? or other options? K/a 215005 - A 4.06 3.6/3.8 | OK |
| 45 | H | 3 | | | | X | | | | | | E | check the answer, doesn't DIV III require manual init, and all others auto on level? Kaok - no change | OK |
| 46 | F | 4 | | | | | | | | | | S | | |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | | |
| 47 | H | 3 | | | | | | | | | | S | |
| 48 | F | 3 | | | | | | | | | | S | |
| 49 | H | 3 | | | | | | | | | | S | |
| 50 | H | 4 | | | | | | | | | | S | |
| 51 | H | 3 | | | | | | | | | | S | |
| 52 | F | 2 | | | | | | | | | | S | Kaok |
| 53 | H | 3 | | | | | | | | | | S | Kaok |
| 54 | F | 2 | | | | | | | | | | S | Kaok |
| 55 | H | 3 | | | | | | | | | | S | |
| 56 | H | 4 | | | | | | | | | | S | |
| 57 | F | 3 | | | | | | | | | | S | |
| 58 | H | 3 | | | | | | | | | | S | |
| 59 | H | 3 | | | | | | | | | | S | |
| 60 | H | 3 | | | | | | | | | | S | |
| 61 | H | 4 | | | | | | | | | | S | Kaok |
| 62 | H | 3 | | | | | | | | | | S | |
| 63 | H | 3 | | | | | | | | | | S | Kaok |
| 64 | H | 3 | | | | | | | | | | S | |
| 65 | F | 3 | | | | | | | | | | S | |
| 66 | F | 3 | | | | | | | | | | S | |
| 67 | F | 4 | | | | | | | | | | S | |
| ✓ 68 | F | 4 | X | X | | | | | | | | E | B must be the correct answer.... highest press/level(most energy)... reword Q to ask which minimally meets T/S and change dist such that 2 are in spec, only one clearly minimally in spec |
| 69 | F | 4 | | | | | | | | | | S | |
| 70 | F | 4 | | | | | | | | | | S | |
| 71 | H | 3 | | | | | | | | | | S | Kaok |

012

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|-------|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|----------|----------|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | | |
| 72 | H | 2 | | | | | | | | | | S | |
| 73 | F | 3 | | | | | | | | | | S | BOTH level? Possible SRO only? <i>No!</i> |
| 74 | F | 2 | | | | | | | | | | S | |
| 75 | H | 3 | | | | | | | | | | S | |
| R76 | F | 2 | | | | | | | | | | S | |
| R77 | H | 2 | | | | | | | | | | S | |
| R78 | H | 3 | | | | | | | | | | S | Kaok |
| ✓ R79 | H | 3 | | | | | X | | | | | E | add "only" to a and b Kaok |
| R80 | H | 2 | | | | | | | | | | S | |
| R81 | H | 3 | | | | | | | | | | S | Kaok |
| R82 | F | 2 | | | | | | | | | | S | |
| R83 | H | 2 | | | | | | | | | | S | |
| ✓ R84 | H | 3 | | | | X | | | | | | S | reword a ... RPS A and B are unaffected/reset |
| R85 | H | 2 | | | | | | | | | | S | |
| R86 | F | 3 | | | | | | | | | | S | |
| R87 | H | 3 | | X | | | | | | | | S | similar to prior Q? Do search <i>No!</i> |
| R88 | F | 2 | | | | | | | | | | S | |
| R89 | F | 2 | | | | | | | | | | S | Kaok |
| R90 | H | 2 | | | | | | | | | | S | |
| R91 | H | 2 | | | | | | | | | | S | Kaok |
| R92 | F | 2 | | | | | | | | | | S | |
| R93 | H | 3 | | | | | | | | | | S | |
| R94 | H | 2 | | | | | X | | | | | E | Is D also true? <i>No!</i> |
| R95 | F | 2 | | | | | | | | | | S | |
| R96 | H | 2 | | | | | | | | | | S | |
| R97 | F | 3 | | | | | | | | | | S | |

OK

OK

OK

OK

OK

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|-------|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|----------|----------|----------------|---|-----------------------------|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | | | | |
| ✓ R98 | F | 2 | | | | | | | | | | | U | why is reference needed? Verify B is incorrect Replace SRO Q87 with this Q Kaok | Ref deleted Swaps w/ 587 |
| R99 | H | 2 | | | | | | | | | | | S | | |
| R100 | H | 2 | | | | | | | | | | | S | Kaok | |
| S76 | F | 2 | | | | | X | X | | | | | U | B may be correct also. ^{No} 55.43 ref is incorrect, not SRO level ^{No} - accepted | OK |
| S77 | H | 2 | | | | | | | | | | | S | | |
| S78 | F | 2 | | | | | | | | | | | S | Kaok | |
| S79 | F | 3 | | | | | | X | | | | | U | sys Q, not SRO level Kaok - New Suggestion - | OK |
| S80 | H | 3 | | | | | | X | | | | | U | containment ventilation system Q, not SRO level | OK as is |
| S81 | F | 2 | | X | | | | | | | | | E | check for similar prior Q - None | OK |
| S82 | F | 1 | | | | | | X | | | | | U | not SRO level | OK as is |
| S83 | F | 1 | | | | | | X | | | | | U | C -- editorial, 55.43 topic incorrect, not SRO level | OK |
| ✓ S84 | F | 2 | | | | | | | X | | | | S | 55.43 (3)... | OK |
| S85 | H | 2 | | | | | | | | | | | S | | |
| S86 | H | 3 | | | | | | | | | | | S | | |
| ✓ S87 | F | 2 | | X | | | | | | | | | E | Same Q (lower level) as RO Q98. Replace this Q with RO Q98 K/A for original S* & is incorrect | Swaps w/ R98 OK |
| ✓ S88 | F | 2 | | | | | | | | | | | S | D - editorial | OK |
| ✓ S89 | H | 2 | | | | | | | | | | | S | 43 (3) vice 43(5) Kept both | OK |
| ✓ S90 | H | 2 | | | | | | | | | | | S | remove 'under' from stem | OK |
| ✓ S91 | F | 1 | | X | | | | | | | | | E | B appears to be obvious answer... lowest energy state/flux... rewrite or replace Kaok | OK as changed |
| ✓ S92 | H | 2 | | | | | | | | | | | S | incorrect 43 ref... possibly 43(5) 43(4) incorrect - add 43(5) | OK |
| S93 | H | 3 | | | | | | | | | | | S | | |
| S94 | H | 3 | | | | | | | | | | | S | | |
| ✓ S95 | F | 1 | | X | | | | | | | | | U | looks like a DLU given the SAPs Modified stem - | OK |
| S96 | F | 2 | | | | | | | | | | | S | | |
| S97 | F | 2 | | X | | | | | | | | | E | check for similar prior Q Kaok | OK |
| S98 | F | 3 | | | | | | | | | | | S | | |

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|--------|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|-----------|----------|--|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Back-ward | | |
| S99 | F | 3 | | | | | | | | | | S | |
| ✓ S100 | F | 2 | X | | | | | | | | | U | not SRO level, modify to ask recovery actions, not admin response. - New Q - |

OK

Instructions

[Refer to Appendix B for additional information regarding each of the following concepts.]

1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
2. 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).
3. Check the appropriate box if a psychometric flaw is identified:
 - 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.
 - More than one distractor is not credible.
 - One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
4. Check the appropriate box if a job content error is identified:
 - 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.
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. For any "U" ratings, at a minimum, explain how the Appendix B psychometric attributes are not being met.

APPENDIX E - REGION IV OPERATING TEST JOB PERFORMANCE MEASURE QUALITY REVIEW MATRIX
FACILITY: GRAND GULF INITIAL EXAM JUNE 2001
CHIEF EXAMINER: M.E. MURPHY PEER REVIEWER: R. E. LANTZ

| 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 | | |
| B.1.1(C11) | D | 3 | | | | | | | | S | |
| .2(E51) | D | 3 | | | | | | | | S | consider moving the steam leak to after step 12 |
| .3(N21) | D | 3 | | | | | | | | S | |
| .4(T48) | D | 2 | | | | | | | | S | |
| .5(E12) | D | 2 | | | | | | | | S | |
| .6(P75) | D | 3 | | | | | | | | S | |
| .7(EP03) | S | 2 | | | | | | | | S | |
| .8(C61) | S | 2 | | | | | | | | S | |
| .9(P53) | S | 2 | | | | | | | | S | |
| .10(L62) | S | 2 | | | | | | | | S | |

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. 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 problem in the explanation column.

Section A: Administrative

No comments.

Section C: Scenarios

Scenario 1

Event 1 does not require plant manipulation, with the exception of the SYNCH SW to verify voltages. This does not meet App. D requirements for a N. *- Deleted event 1*

Event 2 is not needed since events 4 and 5 will require a controlled power reduction. Depending on the BOP involvement, the power reduction could count as his N. *- kept in - called N & added R to event 3.*

Scenario 3

Event 2 appears unnecessary since the RO does not need a N beyond the R. This can be left in the scenario turnover, but not allowed to be accomplished by the crew. *leave as is - will work it according to conditions.*