

| 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 |          |                |
| <p><b>Instructions</b></p> <p>[Refer to Appendix B for additional information regarding each of the following concepts.]</p> <ol style="list-style-type: none"> <li>Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.</li> <li>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).</li> <li>Check the appropriate box if a psychometric flaw is identified:                             <ul style="list-style-type: none"> <li>The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).</li> <li>The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).</li> <li>The answer choices are a collection of unrelated true/false statements.</li> <li>More than one distractor is not credible.</li> <li>One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).</li> </ul> </li> <li>Check the appropriate box if a job content error is identified:                             <ul style="list-style-type: none"> <li>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).</li> <li>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).</li> <li>The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).</li> <li>The question requires reverse logic or application compared to the job requirements.</li> </ul> </li> <li>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?</li> <li>For any "U" ratings, at a minimum, explain how the Appendix B psychometric attributes are not being met.</li> </ol> |              |              |                       |      |     |             |         |                      |         |         |          |          |                |

FACILITY: Washington Nuclear 2

EXAM DATE: OCT 2000

REVIEWER: RE LANTZ CHIEF EXAMINER: T MCKERNON

| 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 |          |  |
| 001 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 002 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 003 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 004 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | K/A 215001 K107 1.8/1.9 OR A2.04 1.8/2.0   |
| 005 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | RO level? KAOK   |
| 006 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 007 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 008 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        | SRO level? KAOK  |
| 009 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 010 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | Consider a different EOP other than ATWS   |
| 011 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        | EDIT B "late in care life"   |
| 012 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 013 | H            | 2            |                       |      |     |             |         | ✓                    |         |         |          | U        | DLU, A seems arguably correct, change stem to read.. WOTF correctly addresses the ... KAOK <i>which one of the following</i> ↓ ↓ ↓ |
| 014 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 015 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | SRO level?   |
| 016 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 017 | H            | 4            |                       |      |     |             |         |                      |         |         |          | U        | DLU KAOK <i>Done. (Revise Q)</i>   |
| 018 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        | RO level?  |
| 019 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 020 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 021 | H            | 3            |                       |      |     |             |         |                      |         |         |          | U        | DLU Is D correct later? Possibly add to stem.. Initial response?   |
| 022 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | K/A 3.8/4.2 vice 3.9/3.9   |
| 023 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 024 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 025 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |

*edit to No reflect AUTO Action*

*Reverse.*

ES-401

2

Form ES-401-9

| Q#  | 1.<br>LOK<br>(F/H) | 2.<br>LOD<br>(1-5) | 3. Psychometric Flaws |      |     |                |         | 4. Job Content Flaws |         |             |               | 5.<br>U/E/S | 6.<br>Explanation  |
|-----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-------------|--|
|     |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward |             |  |
| 026 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | U           | DLU <del>Remain</del> Ref.   |
| 027 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | E           | DLU ← Do not issue Basis to Cand.                                  |
| 028 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 029 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 030 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | E           | Edit B, D not credible ✓   |
| 031 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 032 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 033 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | KAOK   |
| 034 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | KAOK   |
| 035 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 036 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | E           | as written, A and B also correct, add "maximum" roo rate to stem ✓ |
| 037 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | U           | DLU NEW Q. NO REF.   |
| 038 | F                  | 2                  |                       | ✓    |     |                |         |                      |         |             |               | U           | DLU ? Revised.   |
| 039 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 040 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | U           | DLU ✓ MINOR REVISION ON ORIG.                                      |
| 041 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | U           | DLU KAOK ✓ MADE CLOSED REF.  |
| 042 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 043 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 044 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | KAOK   |
| 045 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 046 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | Edit justification section   |
| 047 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 048 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |  |
| 049 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | KAOK   |
| 050 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | U           | DLU, stem missing, "with RB effluent monitor OOS" EWG NEW Q.       |

ES-401

2

Form ES-401-9

| 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 |          |  |
| 051 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 052 | H            | 2            |                       | ✓    |     |             |         |                      |         |         |          | U        | DLU, answers tell candidate to enter 5.2.1, then ref gives other procedure <i>Revised.</i> |
| 053 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 054 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 055 | H            | 2            | ✓                     |      |     |             |         |                      |         |         |          | S        | edit stem KAOK <i>Keep original.</i>   |
| 056 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 057 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 058 | H            | 3            |                       |      |     |             | ✓       |                      |         |         |          | S        | could A be correct? <i>Hi RPV Press</i>  |
| 059 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 060 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | B not credible for both pumps ✓  |
| 061 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 062 | F            | 3            |                       |      |     | ✓           |         |                      |         |         |          | S        | edit D, C and D not discriminating KAOK <i>SAT.</i>  |
| 063 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 064 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 065 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 066 | H            | 3            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 067 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 068 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 069 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 070 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 071 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 072 | F            | 4            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 073 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 074 | F            | 4            |                       |      |     |             |         |                      |         |         |          | S        | KAOK   |
| 075 | F            | 2            |                       |      |     |             | ✓       |                      |         |         |          | U        | DLU, C is the correct answer, not A? <i>Revised</i>  |





| 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 |          |  |
| 130 | H            | 3            |                       |      |     |             |         |                      |         |         |          | E        | Answer in ref seem different, verify. Chage "and" to "then" in B |
| 131 | H            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 132 | F            | 3            |                       |      |     |             |         |                      |         |         |          | S        | req'd from memory?   |
| 133 | F            | 2            |                       |      |     |             |         |                      |         |         |          | S        |  |
| 134 | H            | 3            |                       | ✓    |     |             |         |                      |         |         |          | S        |  |
| 135 | H            | 3            |                       | ✓    |     |             |         |                      |         |         |          | U        | same as Q#98 (SRO only) make both or SRO only <i>Boh</i> ✓       |

WNP2 Initial Examination  
Nov 2000  
Chief Examiner: T. MCKERNON  
Reviewer: R. LANTZ

| 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 |          |  |
| RA.1.2   | S            | 2            |               |      | 1              |             |          |                       |         | S        |  |
| SA.1.1   | S            | 3            |               |      | 1              |             |          |                       |         | S        | What are the results of step 5.1.31?   |
| A.2  | S            | 3            |               |      | 1              |             |          |                       |         | S        |  |
| RA.3   | S            | 2            |               |      | 6              | N           |          |                       |         | E        | Simple, uncomplicated RCA entry. Consider adding actions to be taken for dropped dosimeter while he is conducting a system JPM |
| SA3  | S            | 4            |               |      | 9              |             |          |                       |         | S        |  |
| SA4  | S            | 4            |               |      | 1              |             |          |                       |         | S        |  |
| 1  | D            | 4            |               |      | 8              |             |          |                       |         | S        |  |
| 2  | D            | 3            |               |      | 2              |             |          |                       |         | S        |  |
| 3  | D            | 3            |               |      | 4              |             |          |                       |         | S        |  |
| 4  | D            | 3            |               |      | 4              |             |          |                       |         | S        |  |
| 5  | D            | 3            |               |      | 4              |             |          |                       |         | E        | Step 5 looks time critical, establish criteria for maximum time to trip CB-11/1  |
| 6  | D            | 3            |               |      | 2              |             |          |                       |         | S        | Need a pause between response to first rod drift and second alarm, to discuss actions required in this condition               |
| 7  | S            | 2            |               |      | 2              |             |          |                       |         | S        |  |
| 8  | S            | 3            |               |      | 3              |             |          |                       |         | S        |  |
| 9  | S            | 3            |               |      | 6              |             |          |                       |         | S        |  |
| 10   | S            | 3            |               |      | 3              |             |          |                       |         | S        |  |

**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 |          |   |
| RA.1.1.a | H            | 2            |                        |            |         |          |             |                       |          |          |            | S        |   |
| RA.1.1.b | F            | 2            |                        |            |         |          |             |                       |          |          |            | S        |   |
| SA.1.2.a | H            | 2            |                        |            |         |          |             |                       |          |          |            | S        |   |
| SA.1.2.b | H            | 2            |                        |            |         |          |             |                       |          |          |            | S        |   |
| RA.4.a   | H            | 3            |                        |            |         |          |             |                       |          |          |            | S        |   |
| RA.4.b   | F            | 2            |                        |            |         |          |             |                       |          |          |            | S        |   |

**Scenario Review comments:**

**General:**

No significant comments. Require time validation, and a Critical Task Summary Sheet for each scenario would be a helpful addition. Otherwise, scenarios appear challenging, requiring more than standard minimums, application of T/S, and prioritization of actions by the SRO.

**Other General Comments:**

ES-301-5 for M. Huntsman, J. Bashore does not show them getting R as RO  
 Also note, Supplement 1 QA form ES-401-7 for the written exam was not used