

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws |      |     |             |         | 4. Job Content Flaws |         |         |           | 5. Other |          | 6. U/E/S | 7. Explanation |  |
|----|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|-----------|----------|----------|----------|----------------|--|
|    |              |              | Stem Focus            | Cues | T/F | Cred. Dist. | Partial | Job-Link             | Minutia | #/units | Back-ward | Q=K/A    | SRO Only |          |                |  |
| 1  | F            | 1            |                       |      |     |             |         |                      |         |         |           |          | X        |          | U(S)           | doesn't test knowledge of communications procedures associated with EOP implementation regarding loss of RHR per KA. <i>Replaced with NEW question.</i>  |
| 2B | F            | 2            |                       |      |     |             |         |                      |         |         |           |          | -        |          | E(S)           | <b>PV 2002 NRC #25</b> ; references supplied do not support proposed answer; <i>supporting references provided.</i>  |
| 3  | H            | 3            |                       |      |     |             |         |                      |         |         |           |          | X        |          | U(S)           | references supplied do not support proposed answer; make distractors more credible; doesn't test knowledge of EOP guidance related to loss of SRNI per KA; too much overlap with JPM-C-3. <i>Selected new KA and wrote NEW question.</i> |
| 4B | H            | 3            |                       |      |     |             |         |                      |         |         |           |          | -        |          | S              |  |
| 5B | H            | 2            |                       |      |     |             |         |                      |         |         |           |          | -        |          | S              |  |
| 6  | F            | 2            |                       |      |     |             |         |                      |         |         |           |          | X        |          | U(S)           | references supplied do not support proposed answer; doesn't test knowledge of effect of LOOP on Fuel Bldg exhaust FAN per KA. <i>Replaced with NEW question.</i>   |
| 7  | H            | 2            |                       |      |     |             |         |                      |         |         |           |          | -        |          | S              |  |
| 8B | F            | 3            |                       |      |     |             |         |                      |         |         |           |          | -        |          | S              |  |
| 9B | H            | 3            |                       |      |     |             |         |                      |         |         |           |          | -        |          | S              |  |
| 10 | H            | 3            |                       |      |     |             |         |                      |         |         |           |          | -        |          | S              |  |

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- 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).
- 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.
  - @ One or more distractors is (are) 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).
- 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.
- Check questions that are sampled for conformance with the approved K/A and those that are designated SRO-only (K/A and license level mismatches are unacceptable).
- 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?
- At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

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|     |              |              | Stem Focus            | Cues | T/F | Cred. Dist. | Partial | Job-Link             | Minutia | #/units | Backward | Q=K/A    | SRO Only |          |                |  |
| 11B | H            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 12  | H            | 2            |                       |      |     | X           |         |                      |         |         |          |          | X        |          | U(S)           | I disagree with the licensee's LOK rating; distractor 'C' is not credible; doesn't test knowledge of procedures/limitations involved in INITIAL core load with respect to NI's per KA. <i>Replaced with NEW question.</i>                              |
| 13  | H            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 14M | F            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 15B | F*           | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | I disagree with the licensee's LOK rating; references supplied do not support proposed answer; the referenced "zones" need to use correct nomenclature (ie: "core clear area"); <i>Fixed.</i>  |
| 16  | F            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | interlock nomenclature needs to be correct and all distractors need to refer to actual interlocks. <i>Fixed.</i>   |
| 17B | F            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | change 'C' to "either CIAS or CPIAS"; <i>Fixed.</i>  |
| 18B | H            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | change 'D' to "D. Power distribution systems remain OPERABLE ..."; <i>Fixed.</i>   |
| 19B | F            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 20B | F            | 3            |                       | X    |     |             |         |                      |         |         |          |          | -        |          | E(S)           | answer is cued by "instrumentation" in stem - need to reword; <i>Fixed.</i>  |
| 21B | H            | 2            |                       |      |     |             |         |                      |         |         |          |          | X        |          | U(S)           | doesn't test ability to construct and use 1/M plots with respect to the CVCS system per KA. <i>Fixed.</i>  |
| 22B | F            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 23  | H            | 2            |                       |      |     | X           |         |                      |         |         |          |          | -        |          | U(S)           | delete the phrase "Total system failure could result in which ONE of the following;" in the stem; none of the three distractors could reasonably be understood to have anything to do with the Control Room Essential FILTRATION System. <i>Fixed.</i> |
| 24  | H            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 25B | H*           | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | I disagree with the licensee's LOK rating; <i>Fixed.</i>   |
| 26B | F            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |
| 27  | H            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | delete the word "prevent" from the stem. <i>Fixed.</i>   |
| 28B | H            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |  |

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| 29B | H            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
| 30B | H            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
| 31B | F            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
| 32B | F            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
| 33B | H*           | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | I disagree with licensee's LOK rating; <i>Fixed.</i>  |
| 34  | H            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | change "last" to "previous" in stem and delete phrase "...for the LSRO to use ...this problem" from stem; <i>Fixed.</i>           |
| 35B | F            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
| 36B | H            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
| 37B | F            | 3            |                       |      |     | X           |         |                      |         |         |          |          | -        |          | U(S)           | distractors 'A' and 'B' are not credible; <i>Fixed.</i>   |
| 38B | F            | 3            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | change stem to "Which ONE of the following would be an entry condition for 40AO-..."; <i>Fixed.</i>                               |
| 39  | H            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | E(S)           | change stem to "...is throttled____, which causes the mass flow..."; in the distractors, change "opened" to "open"; <i>Fixed.</i> |
| 40  | F            | 2            |                       |      |     |             |         |                      |         |         |          |          | -        |          | S              |   |
|     |              |              |                       |      |     |             |         |                      |         |         |          |          |          |          |                |   |
|     |              |              |                       |      |     |             |         |                      |         |         |          |          |          |          |                |   |
|     |              |              |                       |      |     |             |         |                      |         |         |          |          |          |          |                |   |
|     |              |              |                       |      |     |             |         |                      |         |         |          |          |          |          |                |   |
|     |              |              |                       |      |     |             |         |                      |         |         |          |          |          |          |                |   |