

OPERATING EXAM COMMENTS

- **SRO Admin, JPM use "SRO Shift Turnover" as a spare JPM.**
- **Revise SRO Admin JPM, "Shift Staffing Requirements" to determine which operators to call based on watchbill information provided.**
- **Revise SRO Admin JPM, " SRO Review and Approve a Radioactive Liquid Waste Release Permit" to add additional error.**
- **Revise RO JPM "RO Shift Turnover" initiating cue to make more focused as to what logs are to be reviewed.**
- **JPM, B.1.c, "A" EDG operability Test", all steps up to step #12 cue are completed - these are call out items anyway - little evaluation value.**
- **JPM, B.1.f, "Respond to RCP seal problems" revise initiating cue to make less leading eg respond to panel indications.**
- **General Comment - Scenario Guides need to be revised to provide all required actions scripted out.**
- **Sim Guide, ES02LI1, revise scenario to force applicant into once through cooling.**
- **Make guide #3 the spare.**
- **Revise guide #4 to add a malfunction that causes the computer displays PPC to lockup.**

| 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 | | |
| 1B | F | 2 | | | | | | | | | | | | E | Modified. Error on answ. Justification shows "A" as incorrect. (How was question Mod) corrected jsutification |
| 2B | H | 3 | | | | | | | | | | | | S | Bank |
| 3B | H | 3 | | | | | | | | | | | | S | New |
| 4B | H | 3 | | | | | | | | | | | | S | New |
| 5B | H | 3 | | | | | | | | | | | | S | New |
| 6B | H | 3 | | | | | | | | | | | | S | New |
| 7R | H | 3 | X | | | X | | | | | | | | U | Modified. Stem cue. "A" correct also. "C" not credible Remove RCS P/T Curve from the stem unnecessary cue. Revised stem and 2 distractors. |
| 8B | F | 2 | | | | | | | | | | | | S | Modified |
| 9B | F | 3 | | | | | | | | | | | | S | New |
| 10R | H | 3 | | | | | | | | | | | | S | Bank |

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.
 - 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).
- 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 the appropriate box if the sampled question does not match the approved K/A or an SRO-only question is not at the SRO level.
- 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?
- For any "U" ratings, at a minimum, explain how the Appendix B psychometric attributes are not being met.

[illegible]

| 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 | | |
| 31B | H | 3 | | | | X | | | | | | | | U | New. Given small steady rise, how can rapid rise be credible "A&D"? <i>Revised distractor to avoid cuing</i> |
| 32B | F | 1-2 | | | | X | | | | | | | | U | New distractors not plausible and LOD low not idiscriminating <i>Replaced question and used same K/A</i> |
| 33B | H | 3 | | | | | | | | | | | | S | New |
| 34B | H | 3 | | | | | | | | | | | | S | Modified? This question not significantly modified per guidance in ES401 treat as a bank |
| 35B | H | 3 | | | | | | | | | | | | S | New |
| 36B | F | 3 | | | | | | | | | | | | S | Modified |
| 37R | H | 2 | | | | | | | | | | | | S | New |
| 38B | H | 4 | | | | | | | | | | | | S | Modified |
| 39R | H | 3 | | | | | | | | | | | | S | New |
| 40B | F | 2 | | | | | | | | | | | | S | Modified |
| 41B | H | 3 | | | | | | | | | | | | S | New |
| 42R | H | 3 | | | | | | | | | | | | S | New |
| 43R | H | 3 | | | | | | | | | | | | S | New |
| 44R | F | 2 | | | | | | | | | | | | S | Bank |
| 45R | H | 3 | | | | | | | | | | | | S | New |
| 46B | H | 3 | | | | | | | | | | | | S | Modified |
| 47B | H | 3 | | | | | | | | | | | | S | New |
| 48R | H | 3 | | | | | | | | | | | | S | New |
| 49B | H | 3 | | | | | | | | | | | | S | New |
| 50R | F | 2 | | | | | | | | | | | | S | Modified |

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. Other | | 6. U/E/S | 7. Explanation |
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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job- Link | Minutia | #/ units | Back- ward | Q K/A | SRO Only | | |
| 51R | H | 3 | | | | | | | | | | | | S | New |
| 52B | F | 3 | | | | | | | | | | | | S | New |
| 53B | H | 3 | | | | | | | | | | | | E | New. <i>Change "a" to "c" in justification.</i> |
| 54R | H | 3 | | | | | | | | | | | | S | New |
| 55B | F | 3 | | | | | | | | | | | | S | Modified |
| 56R | F | 2 | | | | | | | | | | | | S | Modified |
| 57R | F | 2 | | | | | | | | | | | | S | New |
| 58B | F | 2 | | | | | | | | | | | | S | New |
| 59B | F | 2 | | | | | | | | | | | | S | New |
| 60R | H | 2 | | | | | | | | | | | | S | New |
| 61B | F | 2 | | | | | | | | | | | | E | New how are safety inj. Valve interlocks tested with this question - throttling a valve is not an interlock <i>Revised answer choice to fit K/A and balance choices to avoid cuing</i> |
| 62R | H | 3 | | | | | | | | | | | | E | New. <i>Minor revisions</i> |
| 63B | H | 3 | | | | | | | | | | X | | U | Modified. No malfunction of the Pzr LCS. <i>Revised stem to add malfunction to match K/A</i> |
| 64B | H | 3 | | | | | | | | | | | | S | New |
| 65B | F | 2 | | | | | | | | | | | | S | New |
| 66B | H | 3 | | | | | | | | | | | | S | New |
| 67R | F | 2 | | | | | | | | | | | | S | New Elect supply question okay in limited number |
| 68B | F | 2 | | | | | | | | | | X | | U | New How is this question testing containment purge system? <i>Replaced question same system different K/A</i> |
| 69B | F | 2 | | | | | | | | | | | | E | Bank. In justification, change "c" to "d" <i>Corrected Typo</i> |
| 70B | H | 3 | | | | X | | | | | | | | U | New "A,B,C" distractors not plausible TDS, pH, and power lose to rad monitor <i>Replaced "A&B" distractors</i> |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job- Link | Minutia | #/ units | Back- ward | Q/ K/A | SRO Only | | |
| 71B | F | 2 | | | | | | | | | | | | S | Bank |
| 72B | H | 2 | | | | | | | | | | | | E | New How would the operator tell that condenser air in leakage/air removal flow doubled in the CR? If this can not be determined then how is this a valid question and not minutia? Revised stem to make more operationally oriented. |
| 73B | F | 2 | | | | | | | | | | | | S | New |
| 74B | H | 3 | | | | | | | | | | | | S | New |
| 75B | H | 3 | | | | | | | | | | | | S | Bank |
| 76B | F | 1-2 | | | | X | | | | | | | | U | Bank "A&B" distractors not plausible also LOD low does not discriminate Revised distractor |
| 77B | F | 3 | | | | | | | | | | | | S | Modified |
| 78B | F | 1-2 | | | | X | | | | | | | | U | New distractors not plausible also LOD low does not discriminate Replaced question |
| 79B | F | 2 | | | | | | | | | | | | S | New. Could "c" be correct? Reverified not correct |
| 80B | H | 3 | | | | | | | | | | | | S | Modified |
| 81B | F | 2 | | | | | | | | | | | | S | New |
| 82R | F | 2 | | | | | | | | | | | | S | New |
| 83B | F | 2 | | | | | | | | | | | | E | New revise one distractor to be similar to "D" correct answer stands out also edit stem Revised "C" distractor |
| 84R | F | 3 | | X | | | | | | | | | | S | New |
| 85B | F | 3 | | | | | | | | | | | | S | New |
| 86R | H | 3 | | | | | | | | | | | | S | Bank |
| 87R | H | 3 | | | | | | | | | | | | S | New |
| 88B | F | 2 | | | | | | | | | | | | E | New. "Changing" should be "increasing" to fit the answer Edit completed |
| 89B | H | 3 | | | | | | | | | | X | | U/E | New. K/A does not cover "ability" to obtain.... Accepted as an approved deviation per recent guidance |

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|------|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|----------|-------------|-------------|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job- Link | Minutia | #/ units | Back- ward | Q K/A | SRO Only | | |
| 90B | F | 2 | | | | | | | X | | | | | U | New This appears to be minutia. Is this required knowledge from memory Replaced question using same K/A. |
| 91B | F | 2 | | | | | | | | | | | | S | New |
| 92B | H | 2 | | | | | | | | | | | | S | New |
| 93B | F | 1-2 | | | | | | | | | | | | U | New LOD is low does not discriminate. This is get level not license specific Replaced question using same K/A |
| 94B | H | 2 | | | | | | | | | | | | S | New |
| 95B | F | 2 | | | | | | | | | | | | S | New |
| 96B | F | 3 | | | | | | | | | | | | S | New |
| 97B | F | 1-2 | | | | | | | | | | | | S | Bank |
| 98B | F | 1-2 | | | | | | | | | | | | S | Modified |
| 99B | F | 2 | | | | | | | | | | X | | U | Bank the k/a tests knowledge of fire prot. Procedures. To answer this question all I need to remember is the titles of the procedures it doesn't really demonstrate any knowledge of the actual procedure. Question replaced using same K/A. |
| 100B | H | 3 | | | | | | | | | | | | S | Bank |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | SRO ONLY | | | | | | | | | | | | | | |
| 7S | H | 2 | | | | | | | | | | | | S | New |
| 10S | F | 3 | | | | | | | | | | X | | U | New. Ability to determine not covered. Stem revised "What is the bases discussed in TS bases..." Question revised to match K/A |
| 15S | H | 3 | | | | | | | | | | | | S | New |
| 16S | H | 3 | | | | | | | | | | | | S | New |
| 17S | H | 3 | | | | | | | | | | | | E? | New Is it necessary to tell them in the stem what reference to use? Removed procedural reference from stem |
| 21S | H | 3 | | | | | | | | | | | | S | Bank |
| 37S | H | 1 - 2 | | X | | | | | | | | X | | U | New LOD=1 with reference provided For a TS question give them the situation and let them find the correct answer better tested in an admin JPM or scenario. Revised stem and distractors |

[illegible]