

ES-401

Form ES-401-9

FACILITY: Comanche Peak  
 EXAM DATE: May 2001  
 CHIEF EXAMINER: G Johnston  
 REVIEWER: RE LANTZ

| 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 |             |                                                                                                                                                                                                                              |
| 1  | H                  | 2                  |                       |      |     | X              |         |                      |         |             |               | E           | Is D correct if expose <5 but >12? If not, delete exposure ref in D. (No "D" is not correct - >10mrem)                                                                                                                       |
| 2  | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                              |
| 3  | F                  | 2                  |                       |      |     |                | X       |                      |         |             |               | S           | Potential for more than one correct answer (kaok)(must resolve with licensee)                                                                                                                                                |
| 4  | F                  | 2                  | X                     |      |     |                |         |                      |         |             |               | E           | Are you asking where to look to see if the operator is <u>Qualified</u> to operate, or if the component can be operated given a set of plant conditions? Modified question                                                   |
| 5  | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                                                                       |
| 6  | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | E           | Give Stem conditions of 100%, steady state. Then state the following conditions read 3 minutes later... do not give trends. Makes Q less GFES (Modified question - must make sure conditions are accurate with the licensee) |
| 7  | F                  | 4                  | X                     |      |     |                |         |                      |         |             |               | E           | Q is wordy, par down to ask directly... one EDG, T/S requirements? Simplified                                                                                                                                                |
| 8  | H                  | 3                  |                       | X    |     | X              |         |                      |         |             |               | E           | ans only one not header press... change d to a loss of power to a bus that does not affect the steam dumps (changed one answer - added single vs coincident)                                                                 |
| 9  | F<br>H             | 4                  | X                     |      |     |                |         |                      |         |             |               | E           | Add the procedure in the stem that gives the requirement, reword c,d to action stmtnt: Secure ECCS when RCS subcooling exceeds ....(kaok)                                                                                    |
| 10 | H                  | 2                  |                       |      |     |                |         | X                    |         |             |               | U           | GFES as asked. See comments on Q6 (kaok) (modified to include actual plant parameters)                                                                                                                                       |
| 11 | H                  | 4                  | X                     |      |     |                |         |                      |         |             |               | S           | Answer does not seem responsive to the Q, although correct... may need to reword Q (kaok)                                                                                                                                    |
| 12 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | E           | Need to complete edits on Q                                                                                                                                                                                                  |
| 13 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | d is always correct... would be better: There are NO required actions to these indications. Delete "Inform the SM" from c, add "per (ABN???? for CR EVAC)"                                                                   |
| 14 | H                  | 2                  |                       |      |     |                | X       |                      |         |             |               | S           | C looks also correct - level signal used for FRV control not MFP speed control - C ok                                                                                                                                        |
| 15 | H                  | 3                  |                       |      |     |                |         | X                    |         |             |               | E           | GFES as asked. See comments on Q6, Q10 (modified to include actual plant parameters)                                                                                                                                         |
| 16 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                                                                       |
| 17 | F                  | 2                  |                       |      |     |                | X       |                      |         |             |               | E           | C may also be true (will need to check with licensee)                                                                                                                                                                        |

| 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 |             |                                                                                                                                                                           |
| 18 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 19 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 20 | F                  | 3                  |                       | X    |     |                |         |                      |         |             |               | E           | If a is true, b must be, If C is true, d must be, so a and c cannot be... reword the stem or rewrite these two distractors to a power loss and other. (Reworded the stem) |
| 21 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                    |
| 22 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                    |
| 23 | H                  | 3                  |                       |      |     | X              |         |                      |         |             |               | E           | a and c not credible. Delete part of Q about mass changes (changed the stem)                                                                                              |
| 24 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 25 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 26 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | delete reason given in b,(kaok) (deleted reason)                                                                                                                          |
| 27 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | d is not responsive to the Q, are we sure it is false? Change to no major plant affects (changed stem)                                                                    |
| 28 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 29 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                    |
| 30 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | K/A more appropriate as 001-2.1.12. SDM determination is a task in CRD system. Believe this K/A is appropriate based on SDM reference in APE 005.                         |
| 31 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 32 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 33 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 34 | F                  | 4                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                    |
| 35 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                    |
| 36 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 37 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                           |
| 38 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | verify d is incorrect. (Reviewed ABN-706 - "d" appears to be incorrect)                                                                                                   |
| 39 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | move common part of answers into stem or remove from two distractors...(removed part of common answer to the stem)                                                        |

| 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 |             |                                                                                                                                                                                     |
| 40 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | verify answer, c or d?                                                                                                                                                              |
| 41 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 42 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 43 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                              |
| 44 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 45 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                              |
| 46 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 47 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 48 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 49 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 50 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                              |
| 51 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | Need a time limit on a and b for validity. Change stem to reduce redundant statement in answers.. (no operational impact due to....) (Put in time limit and removed red. Statement) |
| 52 | F                  | 2                  | X                     |      |     |                |         |                      |         |             |               | S           | Consider changing stem to be more operationally valid... HI ALM on RE-5895A (changed stem)                                                                                          |
| 53 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                              |
| 54 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                              |
| 55 | F                  | 2                  |                       |      |     |                | X       |                      |         |             |               | E           | Ensure the three distractors are clearly wrong... they all seem to be arguably correct. (Modified answer and distractors - all distractors should be incorrect)                     |
| 56 | F                  | 3                  |                       | X    |     |                |         |                      |         |             |               | E           | For a and b, delete the reasons given, not asked for in the stem: a: and demineralizers are bypassed, b: and the demineralizers are placed in service. (distractors changed)        |
| 57 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 58 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                              |
| 59 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                     |
| 60 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | Verify answer (changed the answer and verified)                                                                                                                                     |

| 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 |             |                                                                                                                                                                                                                                             |
| 61 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | consider listing the procedure in the stem that states these methods. (Not in a procedure, comes from training lesson)                                                                                                                      |
| 62 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | E           | put "reset SIAS" in stem and delete Att 9 reference in the answers. Does the EOP direct restoration from the control room vice locally?(kaok) (Changed and Yes)                                                                             |
| 63 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                                             |
| 64 | F                  | 3                  | X                     |      |     |                |         |                      |         |             |               | E           | Move Annunciator 6B-4.7, "LWPS PNL TRBL" to stem as an indication, and modify answers as appropriate. (Removed "LWPS PNL TRBL from Q&A)                                                                                                     |
| 65 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                                                                                      |
| 66 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | E           | this may require a handout, and then may need revised to prevent DLU (kaok) (modified question, so they should know based on RCS requirements the answer)                                                                                   |
| 67 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | K/A weak, better 06K1.03 or 09EK3.21 4.2/4.5 or 11EK 3.12 4.4/4.6 - changed K/A to 06K1.03                                                                                                                                                  |
| 68 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                                             |
| 69 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                                             |
| 70 | H                  | 3                  | X                     |      |     |                |         |                      |         |             |               | E           | Modify stem... "What are the minimum actions required to verify the S/D safety function after verification of reactor trip and bypass breakers open, neutron flux decreasing?" Delete "verify reactor trip by..." in each answer (modified) |
| 71 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                                                                                      |
| 72 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | (kaok)                                                                                                                                                                                                                                      |
| 73 | H                  | 3                  |                       |      |     | X              |         |                      |         |             |               | E           | Verify a not also correct. C is not credible. (Chaged "c" and verified answer)                                                                                                                                                              |
| 74 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           | Consider referencing the procedure that specifies the action (no change - don't believe it adds anything - Other than more information that )                                                                                               |
| 75 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                                             |
| 76 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                                             |
| 77 | F                  | 3                  | X                     |      |     |                |         |                      |         |             |               | E           | delete sections of answers that are ot plant impacts, as requested by the stem, ie, DG remains operable...(modified)                                                                                                                        |
| 78 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                                                             |
| 79 | F                  | 1                  |                       |      |     |                |         |                      |         |             |               | U           | generic fundamentals question, delete (need help with finding or writing a new question) (Per Gary, leave as is)                                                                                                                            |

[illegible]

[illegible]

| 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 |             |                                                                                                                                                                                                        |
| S94  | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                        |
| S95  | F                  | 2                  |                       |      |     |                |         | X                    |         |             |               | E           | This appears to be immediate actions of AOP. If so, this is not SRO only. 55.43 (b) 5 requires assessment and selection of procedures. ( NOT an immediate action)                                      |
| S96  | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | E           | All background info in Q is unnecessary, just ask the Q. This Q is general EOP format information, not 55.43(b)5. Closer to 55.43(b)2 or 55.41(b)10 (Just asked the question and changed to 55.43(b)2) |
| S97  | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                        |
| S98  | F                  | 3                  |                       |      |     |                |         |                      |         |             |               | S           | Is this subsequent action required from memory? Yes                                                                                                                                                    |
| S99  | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | U           | 55.41(b)13, not .43(b)5 (New question, deemed acceptable for SRO only level)                                                                                                                           |
| S100 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               | S           |                                                                                                                                                                                                        |