# NRC COMMENTS TO INITIAL EXAM SUBMITTAL

# INCLUDING ES-410-9 AND OPERATING COMMENTS

# FOR THE DAVIS-BESSE INITIAL EXAMINATION - MAY 2004

| 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 | | | | | | | | | | | | U | New. 1) LOD=1. 2) Consider re-wording question as follows: Following a reactor trip, all but one Control Rod in Groups 1 through 7 is verified to be fully inserted. Adequate shutdown margin: a. Does exist. No boration of the RCS is required. (Correct Answer) b. Does NOT exist. Boric Acid addition to the MU Tank is preferentially used to ensure adequate shutdown margin. c. Does NOT exist. Boration from the BWST to the MU Pump suction is preferentially used to ensure adequate shutdown margin. d. May not exist. Reactor power is monitored and boration is initiated if an unexpected increase in neutron count rate is observed. RESOLUTION: Comments incorporated. |
| 2 | H | 3 | | | | | | | | | | | | S | Modified. |
| 3 | F | 2 | | | | | | | | | | | | E | Bank. Delete the comma in distractor d. RESOLUTION: Comment incorporated. |
| 4 | F | 3 | | | | | | | | | | | | S | Bank. |
| 5 | H | 2 | | | | | | | | | | | | E | Bank. Distractor d is NOT plausible (to trip the reactor due to the letdown isolation valves being closed when hot). RESOLUTION: Comment incorporated. |

### Instructions

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

1.     Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.

2.     Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 - 4 range are acceptable).

3.     Check the appropriate box if a psychometric flaw is identified:
- The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
- The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
- The answer choices are a collection of unrelated true/false statements.
- One or more distractors is not credible.
- One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).

4.     Check the appropriate box if a job content error is identified:
- The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
- The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
- The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
- The question requires reverse logic or application compared to the job requirements.

5.     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).

6.     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?

7.     At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

A "+" in the "Q #" column indicates that question was reviewed as part of the representative sample of 30 questions.

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. Other | | 6. | 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | U/E/S | Explanation |
| 6+ | H | 3 | | | | | | | | | | | | S | New. |
| 7+ | F | 2 | | | | | | | | | | | | S | New. |
| 8+ | H | 3 | | | | | | | | | | | | U | New.  Q≠K/A. The K/A is associated with a knowledge requirement, but the question is associated with actions required for an instrument malfunction. RESOLUTION:  Re-worded question stem and changed distractors to make the question satisfy the K/A. |
| 9 | F | 3 | | | | | | | | | | | | S | Bank. |
| 10+ | F | 3 | | | | | | | | | | | | S | New. |
| 11 | H | 3 | | | | | | | | | | | | E | New.   Re-word the title of the ARTS switches similar to that described in the Plant Heatup procedure. RESOLUTION:  Comment incorporated. |
| 12 | F | 2 | | | | X | | | | | | | | E | Bank.  Distractor a is NOT plausible, since one should know that if offsite power is lost that the RCPs are NOT running, and so RCS flow indication is NOT required. RESOLUTION:  Comment incorporated. |
| 13 | F | 1 | | | | | X | | | | | | | U | Bank.  1) LOD=1.  2) Distractors b and d could also be considered correct, since Automatic Action 2.1.2 of DB-OP-02000 states that a turbine trip is verified by the following valves closing: Main Stop Valves, Control Valves, Intercept Valves, and Intercept Stop Valves, and since verifying either the control valves or main stop valves closed would verify that the main turbine has tripped. RESOLUTION:  Comments incorporated. |
| 14 | H | 3 | | | | | | | | | | | | S | Modified. |
| 15+ | H | 3 | | | | | | | | | | | | S | New. |
| 16 | H | 3 | | | | | | | | | | | | S | Modified. |
| 17 | H | 2 | | | | | | | | | | | | S | Modified. |
| 18+ | F | 3 | | | | | | | | | | | | S | New. |
| 19+ | F | 2 | | | | | . | | | | | | | E | New.  Add the following words after the word "available" in the question stem: "in the Control Room". RESOLUTION:  Comment incorporated. |

| 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 | | Explanation |
| 20+ | H | 2 | | | | | | | | | | | | S | New. |
| 21 | H | 2 | | | | | | | | | | | | S | Bank. |
| 22+ | F | 1 | | | | | | | | | | | | U | New. Q≠K/A. The question is NOT associated with guidance contained in the EOPs for Loss of Containment Integrity. RESOLUTION: Comment incorporated. |
| 23 | H | 1 | | | | | | | | | | | | U | Modified. LOD=1. Replace question. RESOLUTION: Question replaced with a Bank question. Comment incorporated. |
| 24+ | H | 2 | | | | | | | | | | | | S | New. |
| 25 | H | 2 | | | | X | | | | | | | | U | Modified. 1. Distractors c and d are NOT plausible, since there is NO SFAS actuation. 2) The reason stated that distractor a is wrong contradicts the correct answer. Does SW Pump 2 start 25 seconds or 40 seconds after EDG 2 output breaker closes? RESOLUTION: 1) Comment incorporated. 2) SW Pump 2 starts at 25 seconds after EDG output breaker closes. |
| 26 | F | 2 | | | | | | | | | | | | S | Bank. |
| 27+ | H | 2 | | | | | | | | | | | | S | New. |
| 28 | F | 3 | | | | | | | | | | | | S | Modified. |
| 29 | F | 2 | | | | | | | | | | | | E | Bank. In distractor b, change "essential" to "nonessential". RESOLUTION: Comment incorporated. |
| 30 | H | 2 | | | | X | | | | | | | | U | Bank. 1) Re-word correct distractor c to get rid of the word "should" (e.g., Stop #1 DH pump if reducing flow does NOT stabilize flow and current.). 2) Distractors a and d are NOT plausible (that the DH pumps would autostart on low DH flow). RESOLUTION: Comments incorporated. |
| 31 | F | 2 | | | | | | | | | | | | E | Modified. Step 1 of Attachment 12 of DB-OP-02000 says to verify that the High Pressure Injection Termination criteria of Specific Rule 3 have been met and BOTH HPI Pumps have been stopped. How does the question stem ensure that this requirement is met in order to use HPI to Aux Spray? RESOLUTION: Comment incorporated. Reworded stem to ensure distractor a is the correct answer. |
| 32+ | F | 2 | | | | | | | | | | | | S | New. |
| 33 | H | 2 | | | | | | | | | | | | S | Bank. |
| 34 | F | 2 | | | | | | | | | | | | S | Bank. |

| 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 | | |
| 35+ | H | 4 | | | | | | | | | | | | E | New.   1) Add the following sentence at the beginning of the stem: "The plant is operating at 100% power with all systems in their normal lineup." 2) Add a sentence after the question stem to state the elementary wiring diagrams that are available as references. NOTE: Question requires references. RESOLUTION: Comments incorporated. |
| 36+ | F | 3 | | | | | | | | | | | | S | New. |
| 37 | F | 2 | | | | | | | | | | | | S | Bank. |
| 38 | H | 3 | | | | X | | | | | | | | E | Bank.   Distractor b is NOT plausible (that NO CRD breakers will trip on the trip of RPS channels 2 and 4). RESOLUTION: Comment incorporated. |
| 39 | H | 2 | X | | | | | | | | | | | E | Modified.   Change the stem to: "The plant was operating at 100% power when PT2000, Containment Wide Range Pressure, failed to mid-scale (30 psia). What is the expected response?" RESOLUTION: Comment incorporated. |
| 40 | H | 3 | | | | | | | | | | | | S | Bank. |
| 41 | H | 3 | | | | | | | | | | | | E | Modified.   This question should be classified as a Bank question, since there is NO pertinent condition changed in the stem to make the question become modified. RESOLUTION: Comment incorporated. |
| 42 | H | 2 | | | | X | | | | | | | | E | Modified.   1) This question should be classified as a Bank question, since there is NO pertinent condition changed in the stem to make the question become modified.   2) The question stem does NOT state what the RCS conditions are at this point in the cooldown which could be pertinent to answering the question.   3) Distractor b is NOT plausible, since a rate of RCS cooldown is NOT mentioned in the question stem. 4) Change the wording of distractor d to: "to minimize thermal stress on the Steam Generator, since HOT STANDBY conditions can be maintained without a MODE change". In the stem, delete the word "ensure" and reword distractors. Would this make distractor d also correct? RESOLUTION: Comments incorporated. |
| 43 | H | 2 | | | | X | | | | | | | | U | Bank.   Distractors c and d are NOT plausible, since one would expect to see AFP flow before SG level would show an increase. RESOLUTION: Comments incorporated. |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | Explanation |
| 44 | H | 2 | | | | | | | | | | | | U | Modified.  1) Q≠K/A. The question is NOT related to the impact on the condensate system for a loss of condensate pump.  2) This question should be classified as a Bank question, since there is NO pertinent condition changed in the stem to make the question become modified. RESOLUTION:  Question replaced with a New, Higher Cognitive Level question. |
| 45 | H | 3 | | | | | | | | | | | | E | Bank.  To provide symmetry, change distractor a Tave from 556°F to 550°F. NOTE: Question requires reference. RESOLUTION: Comment incorporated. |
| 46 | F | 2 | | | | | | | | | | | | U | Modified.  1) Q≠K/A. The question is NOT related to AFWP head effects when the SG level control valve is closed.  2) The question is just a collection of True/False statements. RESOLUTION: A different K/A (K/A 061-K5.05) was selected.  Question replaced with a different question (Bank, Fundamental). |
| 47 | H | 3 | | | | | | | | | | | | E | Bank.  Change "SFRCS" to "AFW" in all distractors. RESOLUTION: Comment incorporated. |
| 48 | F | 3 | | | | X | X | | | | | | | U | Bank.   1) The first part of the question provides training: "The OUT OF SYNC light on YV2 is normally OFF." It is not necessary and should be eliminated.  The question should be: "Which ONE of the following will cause the OUT OF SYNC light on YV2 to ILLUMINATE?" 2) Distractor d could also be considered correct, since a difference in voltage between the inverter and its reference would be a correct answer.  Change distractor d to only mention "current" and change distractor a to only mention voltage.  3) The wording for distractors a and d should be consistent.  4) Distractor b is NOT plausible (i.e., for the OUT OF SYNH light to be lit when the inverter is in proper phase to be paralleled). RESOLUTION: Comments incorporated. |
| 49 | F | 3 | | | | | | | | | | | | E | Bank.  Change the item 2 load in the stem from "RCP 2-1 DC Lift Pump" to "RCP Backup Oil Lift Pump 1-2", which is still incorrect since both loads are fed from DC-MCC-2. RESOLUTION: Comment incorporated. |
| 50+ | H | 3 | | | | | | | | | | | | E | New.  1) Change the stem to state: "While attempting to start EDG1 for the Monthly Test, the following alarms actuate:"  2) Editorial: Change "begin" to "begun" in stem.  3) Editorial: Make distractor b into one sentence similar to other distractors. RESOLUTION: Comments incorporated. |
| 51 | H | 3 | | | | | | | | | | | | E | Modified.  Fully capitalize the word "inoperable" in the stem. RESOLUTION: Comment incorporated. |

| 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 | | |
| 52 | H | 2 | | | | | | | | | | | | E | Bank.  Typo: Change "Cooling" to "Coolant' in question stem. <u>RESOLUTION</u>: Comment incorporated. |
| 53 | H | 2 | | | | | | | | | | | | S | Bank. |
| 54 | F | 2 | | | | | | | | | | | | E | Bank.  Editorial: In distractor d, change ", the" to "so the" to make the wording similar to the other distractors. <u>RESOLUTION</u>: Comment incorporated. |
| 55 | F | 1 | | | | X | | | | | | | | U | Modified.  Item 4 is NOT a design feature; it is an administrative procedure (i.e., control of containment isolation valves per a locked valve procedure).  With item 4 NOT plausible, distractors b and d are NOT plausible.  <u>RESOLUTION</u>: Comment incorporated. |
| 56+ | H | 3 | | | | | | | | | | | | E | New.  Change from "Fundamental" to "Higher Cognitive Level", since one needs to evaluate plant conditions and then determine if the Hot Leg Level Monitoring System is providing a valid display. <u>RESOLUTION</u>:  Comment incorporated. |
| 57 | H | 3 | | | | | | | | | | | | U | Bank.  Q≠K/A. <u>RESOLUTION</u>:  Replaced question with a new K/A (K/A 011-K6.04). The replacement question is New, Higher Cognitive Level. |
| 58 | H | 3 | | | | | | | | | | | | S | Bank. |
| 59 | F | 3 | | | | | | | | | | | | S | Bank. |
| 60 | F | 3 | | | | | X | | | | | | | U | Bank.  Why wouldn't distractor a also be a correct answer based on DB-OP-02000, step 5.11 Details? <u>RESOLUTION</u>: Changed stem and distractor d to make distractor a the correct answer. |
| 61 | H | 3 | | | | | | | | | | | | E | Modified.  Re-word question and distractors to ask what option is available to reduce SFP temperature (with the correct answer being that the Decay Heat system can be aligned to cool the SFP). <u>RESOLUTION</u>: Comment incorporated. |
| 62 | H | 3 | | | | | | | | | | | | S | Modified. |
| 63 | H | 3 | | | | | | | | | | | | S | Bank. |
| 64 | H | 2 | | | | | | | | | | | | S | Bank. |
| 65 | H | 3 | | | | | | | | | | | | S | Bank. |
| 66+ | F | 2 | | | | | | | | | | | | S | New. |
| 67 | F | 2 | | | | | | | | | | | | S | Bank. |

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. Other | | 6. U/E/S | 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | Explanation |
| 68 | H | 3 | | | | | | | | | | | | S | Bank. |
| 69+ | F | 2 | | | | | | | | | | | | E | New. Typo: In distractor d, change "poant" to "plant". RESOLUTION: Comment incorporated. |
| 70+ | F | 2 | | | | X | | | | | | | | U | New. Item 4 (Radiation Protection Technician) is NOT plausible as far as being required to be in direct communication with the Control Room. This makes distractors b and d NOT plausible. Delete/replace item 4 and rearrange distractors. RESOLUTION: Comment incorporated. |
| 71 | F | 2 | | | | | | | | | | | | S | New. |
| 72 | F | 2 | | | | | | | | | | | | S | Bank. |
| 73 | H | 2 | | | | | | | | | | | | E | Modified. Editorial: In distractor c change the word "check" to "checking" to make the sentence grammatically correct. RESOLUTION: Comment incorporated. |
| 74+ | F | 2 | | | | | | | | | | | | S | New. |
| 75 | H | 2 | | | | | | | | | | | | S | Modified. |
| 76 | H | 2 | | | | | | | | | | | X | E | New. In the stem change the one condition to say: "The RCS pressure input signal to the heaters ..." (In order to distinguish that an actual RCS pressure transient had NOT occurred). RESOLUTION: Comment incorporated. |
| 77+ | H | 3 | | | | | | | | | | | X | E | New. In the question stem add another sentence to say: "Assume in each case that the ONLY plant parameter that is abnormal is the one causing the alarm". RESOLUTION: Comment incorporated. |
| 78+ | H | 2 | | | | | | | | | | | X | E | New. 1) The question should be re-worded to relate to the upper limits of the temperature of components cooled by CCW. 2) The Technical References supplied with the Question Worksheet are associated with loss of CRD cooling flow and temperature limits (NOT RCP loss of CCW flow). RESOLUTION: Comments incorporated. |
| 79+ | F | 2 | | | | | | | | | | | X | S | New. |
| 80+ | H | 2 | | | | | | | | | | | X | S | New. |
| 81 | F | 2 | | | | | | | | | | | X | E | Bank. Delete the words "within three hours" in the question stem, since these words tend to point to distractor a as the correct answer. RESOLUTION: Comment incorporated. |

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. Other | | 6. U/E/S | 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | Explanation |
| 82 | H | 2 | | | | | | | | | | | X | U | Modified.  Q≠K/A. The K/A is associated with a Westinghouse EOP for a LOCA outside containment.  The question submitted is associated with a small Makeup System leak (NOT LOCA) outside containment, which does NOT fit the K/A.  Should probably pick another K/A. RESOLUTION:  Another K/A was selected, and a Modified, Higher Cognitive Level replacement question was written. |
| 83+ | H | 3 | | | | | | | | | | | X | S | New. |
| 84 | H | 2 | | | | | | | | | | | X | S | Bank. |
| 85 | H | 2 | | | | | | | | | | | X | E | Modified.  1) This question should be classified as a Bank question, since there is NO pertinent condition changed in the stem to make the question become modified.  2) Change distractor a to: "... but the crew must trip the reactor if power drops below 5%." RESOLUTION:  Comments incorporated. |
| 86+ | F | 2 | | | | | | | | | | | X | S | New. |
| 87+ | H | 3 | | | | | | | | | | | X | S | New. |
| 88 | H | 3 | | | | | | | | | | | X | U | Bank.  1) This question does NOT meet any criteria in 10CFR55.43(b) to be classified as an SRO level question.  2) This question should be classified as a Higher Cognitive Level question instead of Fundamental, since a calculation is required. RESOLUTION: Comment incorporated. Question was replaced (New, Fundamental). |
| 89 | F | 2 | | | | | | | | | | | X | U | Bank.  This question does NOT meet any criteria in 10CFR55.43(b) to be classified as an SRO level question. RESOLUTION: Comment incorporated. Question was replaced (New, Higher Cognitive Level). |
| 90+ | H | 3 | | | | | | | | | | | X | E | New.  1) Typo: In stem change "Cnotainment" to "Containment". 2) Typo: In distractor b change "Black" to "Block".   3) In correct distractor d, change the first sentence to : "Leave CAC-1 running". RESOLUTION:  Comments incorporated. |
| 91 | F | 2 | | | | | | | | | | | X | U | Modified. 1) This question does NOT meet any criteria in 10CFR55.43(b) to be classified as an SRO level question.  2) This question should be classified as a Bank question, since there is NO pertinent condition changed in the stem to make the question become modified. Also, the distractors are the same. RESOLUTION:  Comment incorporated. Question was replaced (New, Fundamental). |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | U/E/S | Explanation |
| 92 | H | 3 | | | | X | | | | | | | X | E | Modified. To make distractor d more plausible, change distractor d to: "MANUALLY trip the breakers immediately to prevent turbine damage due to overspeed". RESOLUTION: Comment incorporated. |
| 93 | H | 3 | | | | | | | | | | | X | S | Modified. |
| 94+ | H | 2 | | | | | | | | | | | X | E | New. Editorial: For the first word in distractors b, c, and d, change to a lower case letter. RESOLUTION: Comment incorporated. |
| 95 | H | 3 | | | | | | | | | | | X | S | Bank. |
| 96 | H | 2 | | | | | | | | | | | X | S | New. |
| 97 | F | 3 | | | | | | | | | | | X | S | New. |
| 98 | F | 3 | | | | | | | | | | | X | E | Bank. Editorial: In the stem, change: "MU Pump. 2" to " MU Pump 2." RESOLUTION: Comment incorporated. |
| 99 | F | 2 | | | | | | | | | | | X | S | New. |
| 100 | F | 2 | | | | X | | | | | | | X | S | New. |

NUREG-1021, Draft Revision

# DAVIS-BESSE MAY 2004 INITIAL LICENSE EXAM
# OPERATING EXAM COMMENTS

| # | Source | Comment | Resolution |
|---|--------|---------|------------|
| 1. | Scenario No. 1 | Have the Auxiliary Boiler heated up at the start of the scenario. [Comment during onsite validation] | Comment incorporated. |
| 2. | Scenario No. 1<br><br>Event No. 1, 2<br>Page 1 of 1 | Near top of page, add the word "level" after "Prz" (i.e, Lower Prz level setpoint ...).<br>[Comment during onsite validation] | Comment incorporated. |
| 3. | Scenario No. 1<br><br>Event No. 1, 2<br>Page 1 of 1 | Typo: Near bottom of page, "Valves" is spelled "Vales". | Comment incorporated. |
| 4. | Scenario No. 1<br><br>Event No. 3<br>Page 1 of 1 | Add "Section 4.5" after it states to place RPS Channel 2 in Manual Bypass per DB-OP-06403.<br>[Comment during onsite validation] | Comment incorporated. |
| 5. | Scenario No. 1<br><br>Event No. 4, 5 | Reverse the order of Events 4 and 5 on the Scenario Outline sheet and within the scenario.<br>[Comment during onsite validation] | Comment incorporated. |
| 6. | Scenario No. 1<br><br>Event No. 4 | Add after it says to "Announce the steam leak and location" to "Go to Attachment 1 for steam leak in AFPT 2. [Comment during onsite validation] | Comment incorporated. |
| 7. | Scenario No. 1<br><br>Event No. 6, 7, 8<br>Page 3 of 6 | Editorial: Near top of page it says to: "Check Containment pressure is **greater** than the SFAS actuation setpoint". This should say: "Check Containment pressure is **less** than the SFAS actuation setpoint". | Comment incorporated. |
| 8. | Scenario No. 1<br><br>Event No. 6, 7, 8<br>Page 4 of 6 | Add where it directs an Equipment Operator to locally control AVV 1: "or operate remotely after D2 is restored (with instrument air back)".<br>[Comment during onsite validation] | Comment incorporated. |
| 9. | Scenario No. 1<br><br>Event No. 6, 7, 8<br>Page 5 of 6 | Editorial: Change "Breakers" to "Breaker" when referring to the Main Generator Field Breaker and the Exciter Field Breaker. | Comment incorporated. |
| 10. | Scenario No. 1<br><br>Event No. 6, 7, 8<br>Page 6 of 6 | Near top of page where it says for the SRO to direct RO/BOP actions per DB-OP-02521, add a statement that one can also use DB-OP-02000 to get D2 bus back. [Comment during onsite validation] | Comment incorporated. |
| 11. | Scenario No. 2 | On the Scenario Outline sheet, for Event No. 1, SFAS RCS Pressure Transmitter Fails High, change the Event Type from "I(RO)" to "I(BOP)".<br>[Comment during onsite validation] | Comment incorporated. |
| 12. | Scenario No. 2 | On the Scenario Outline sheet, for Event No. 8, Loss of Condensate Pumps, change the Event Type from "I(BOP)" to "----". [Comment during onsite validation] | Comment incorporated. |

# DAVIS-BESSE  MAY 2004 INITIAL LICENSE EXAM
## OPERATING EXAM COMMENTS

| 13. | Scenario No. 2<br><br>Event No. 1<br>Page 1 of 1 | Editorial: Under the "Applicant's Actions or Behavior", add the word "failure" after the phrase "Recognize indications of a RCS pressure transmitter". | Comment incorporated. |
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| 14. | Scenario No. 2<br><br>Event No. 1<br>Page 1 of 1 | For the RCS pressure transmitter failure, add that one also needs to refer to Post Accident Tech Specs 3.3.3 for 2/Loop RCS channels required operable.<br>[Comment during onsite validation] | Comment incorporated. |
| 15. | Scenario No. 2<br><br>Event No. 2<br>Page 1 of 1 | State that the operators will initiate a power reduction to 95% using either the normal procedure DB-OP-06902 or the Rapid Shutdown procedure DB-OP-02504? | Comment incorporated. |
| 16. | Scenario No. 2<br><br>Event No. 2<br>Page 1 of 1 | Editorial: Near bottom of page, change: "Verify ES 252 ..." to "Verify **open** ES 252 ..." in accordance with DB-OP-06229, step 5.1.5. | Comment incorporated. |
| 17. | Scenario No. 2<br><br>Event No. 2<br>Page 1 of 1 | Since a power reduction is initiated for the tube leak in the High Pressure Heater, a reactivity change (R) can be credited to the RO for this power reduction or the subsequent power reduction after the RCS leak.<br>Add an "R(RO)" for the power reduction after the High Pressure Heater tube leak as Event No. 3. | Comment incorporated. |
| 18. | Scenario No. 2<br><br>Event No. 2, 3<br>Page 1 of 1 | Where it says to isolate HPFW Heater Train 1, add "per DB-OP-06229, Section 5.1."<br>[Comment during onsite validation] | Comment incorporated. |
| 19. | Scenario No. 2<br><br>Event No. 4<br>Page 1 of 1 | In the Event Description, delete "After the HPFW Heater Train is isolated".<br>[Comment during onsite validation] | Comment incorporated. |
| 20. | Scenario No. 2<br><br>Event No. 4<br>Page 1 of 1 | Add a comment that the crew may start EDG 1 to maintain it OPERABLE.<br>[Comment during onsite validation] | Comment incorporated. |
| 21. | Scenario No. 2<br><br>Event No. 5<br>Page 1 of 1 | In the Event Description, delete "After the SRO has referred to Tech Specs".<br>[Comment during onsite validation] | Comment incorporated. |
| 22. | Scenario No. 2<br><br>Event No. 6, 7<br>Page 1 of 2 | Add after "Monitor MUT level" the following: "Swap MU Pump 2 suction to BWST".<br>[Comment during onsite validation] | Comment incorporated. |
| 23. | Scenario No. 2<br><br>Event No. 6, 7<br>Page 1 of 2 | Add a Cue from the booth that Miscellaneous Waste Tank level is increasing and the containment sump pump run time meters are moving.<br>[Comment during onsite validation] | Comment incorporated. |

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| 24. | Scenario No. 2<br><br>Event No. 8, 9<br>Page 1 of 1 | In the Event Description, delete "After the power reduction has started".<br>[Comment during onsite validation] | Comment incorporated. |
| 25. | Scenario No. 3 | Add a normal evolution Event at the start of the scenario for the BOP for performing a Governor Overspeed Trip Test for MFW Pump 2.<br>[Comment during onsite validation] | Comment incorporated. |
| 26. | Scenario No. 3<br><br>Event No. 1, 2<br>Page 1 of 1 | After the statement that says "Place MU32 in automatic control", add a statement that says "Throttle open MU6 to lower PZR level to normal".<br>[Comment during onsite validation] | Comment incorporated. |
| 27. | Scenario No. 3<br><br>Event No. 2<br>Page 1 of 1 | For the failure of the PZR temperature transmitter (which causes PZR level to indicate low), do the following Tech Specs apply?<br>(NOTE: DB-OP-02513, page 27 states that the Tech Specs below are affected for a failure of LT RC 14-1 or LT RC 14-3)<br>- TS 3.3.3.5, Remote Shutdown Instrumentation<br>- TS 3.3.3.6, Post-Accident Monitoring Instrumentation | No, the Tech Specs listed do NOT apply. |
| 28. | Scenario No. 3<br><br>Event No. 2<br>Page 1 of 1 | Tech Spec 3.4.4 is NOT explicitly associated with the failure of the PZR temperature transmitter (this Tech Spec is associated with actual PZR level being between upper and lower limits). | No change required. Would expect that Pressurizer level would exceed the Tech Spec Upper Limit of 228 inches during the malfunction. |
| 29. | Scenario No. 3 | Delete Event No. 3 that was added related to CRD Breaker Trip, since a third Tech Spec event is NOT required.  [Comment during onsite validation] | Comment incorporated. |
| 30. | Scenario No. 3<br><br>Event No. 6<br>Page 1 of 1 | In the Event Description, delete "After the Shield Building Tech Spec is entered".<br>[Comment during onsite validation] | Comment incorporated. |
| 31. | Scenario No. 3<br><br>Event No. 6<br>Page 1 of 1 | After the statement that says "Verify the Mechanical Hogger starts", add  "at 4.5 inches".<br>[Comment during onsite validation] | Comment incorporated. |
| 32. | Scenario No. 3<br><br>Event No. 5<br>Page 1 of 1 | The crew may decide to secure MFP 2 instead of MFP 1. Thus, where it mentions "MFP 1", say " MFP 1(2)". | Comment incorporated. |
| 33. | Scenario No. 3<br><br>Event No. 6,7<br>Page 1 of 3 | In the "Event Description" at the top of the page, change "MFP 1" to " MFP 1(2)". | Comment incorporated. |

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| 34. | Scenario No. 3<br><br>Event No. 7,8<br>Page 1 of 3 | In the Event Description, delete "After MFPT 1(2) is removed from service"<br>[Comment during onsite validation] | Comment incorporated. |
| 35. | Scenario No. 3<br><br>Event No. 7,8<br>Page 2 of 3 | Delete the statement that says "Recognize an AFW system overfeed of SG 2" since an underfeed condition actually exists.<br>[Comment during onsite validation] | Comment incorporated. |
| 36. | Scenario No. 3<br><br>Event No. 7,8<br>Page 2 of 3 | At the bottom of the page:<br>- Change "Recognize SG 2 level is rising above the appropriate setpoint" to "Recognize AFW flow to SG 2 is low".<br>- Delete "Reduce AFPT 2 speed" since an underfeed condition exists (NOT an overfeed condition).<br>[Comments during onsite validation] | Comments incorporated. |
| 37. | Scenario No. 3<br><br>Event No. 7,8<br>Page 3 of 3 | After the statement "Begin cooling down the RCS using Atmospheric Vent Valves (AVV)", add "to 500°F at a maximum rate of 100°F/hr."<br>[Comment during onsite validation] | Comment incorporated. |
| 38. | JPM A<br>Simulator | Editorial: In the Initiating Cue, change "Safety Rod groups 1" to "Safety Rod Group 1". | Comment incorporated. |
| 39. | JPM A<br>Simulator | In step 1, add a Cue that says: "If asked, a second operator is monitoring absolute and relative rod position at the Position Indication panel."<br>[Comment during onsite validation] | Comment incorporated. |
| 40. | JPM A<br>Simulator | In steps 6 and 24, delete the Cues.<br>[Comment during onsite validation] | Comment incorporated. |
| 41. | JPM A<br>Simulator | In step 27, change the Comment to a Cue and state that "An Equipment Operator has been dispatched to the CRD cabinets."<br>[Comment during onsite validation] | Comment incorporated. |
| 42. | JPM A<br>Simulator | In steps 31 and 32, change the Comment to a Cue.<br>[Comment during onsite validation] | Comment incorporated. |
| 43. | JPM A<br>Simulator | Performance Steps 36 and 37 should be reversed in sequence, since they correspond to steps 4.1.16 and 4.1.15 of DB-OP-06402. | Comment incorporated. |
| 44. | JPM A<br>Simulator | In step 44, change the Cue to state: "... rotated from a square to a diamond configuration."<br>[Comment during onsite validation] | Comment incorporated. |
| 45. | JPM C<br>Simulator | In the "Initiating Cue", do NOT state what section of DB-OP-06003 to use to equalize boron between the RCS and the PZR. | Comment incorporated. |
| 46. | JPM C<br>Simulator | Editorial: In Step 3 change the word "trainee" to "applicant" in the "Comment" section. | Comment incorporated. |

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| 47. | JPM D<br>Simulator | In step 1, change the Standard to say "DH Cooler 1" instead of "DH Cooler".<br>[Comment during onsite validation] | Comment incorporated. |
| 48. | JPM D<br>Simulator | In step 11, change the Standard to say "DH Cooler 1" instead of "DH Cooler".<br>[Comment during onsite validation] | Comment incorporated. |
| 49. | JPM D<br>Simulator | In step 12:<br>- Change "Decay Heat Pump" to Decay Heat Pump 1".<br>- Add a Cue to state that the Fuel Handling Director has been informed.<br>[Comment during onsite validation] | Comments incorporated. |
| 50. | JPM D<br>Simulator | In step 13:<br>- Change "Decay Heat Pump" to Decay Heat Pump 1".<br>- Add a Cue to state that Radiation Protection has been informed.<br>[Comment during onsite validation] | Comments incorporated. |
| 51. | JPM E<br>Simulator | In step 1 say to "Block and Open CV 5037" instead of just "Open CV 5037".<br>[Comment during onsite validation] | Comment incorporated. |
| 52. | JPM E<br>Simulator | In step 2 say to "Block and Open CV 5038" instead of just "Open CV 5038".<br>[Comment during onsite validation] | Comment incorporated. |
| 53. | JPM E<br>Simulator | Editorial: In step 3 "CUE", change "PDI 5095B" to "PDI 5059B" to agree with DB-OP-06502, step 5.3.8. | Comment incorporated. |
| 54. | JPM E<br>Simulator | Editorial: In steps 3 and 4 in the "CUE", change "Blower 1" to "Blower 1-1" to agree with wording in DB-OP-06502, step 5.3.9. | Comment incorporated. |
| 55. | JPM F<br>Simulator | Typo: On the Cover Sheet for the JPM under the "Task Standard", change "D! Bus" to "D1 Bus". | Comment incorporated. |
| 56. | JPM I<br>In-Plant | Typo: On the Cover Sheet for the JPM, change the K/A from "006-A4.03" to "006-A4.05". | Comment incorporated. |
| | JPM I<br>In-Plant | In step 3, the procedure (DB-OP-02000, Attachment 14) incorrectly states that the switch nomenclature is DH63A instead of DH63. | Comment incorporated.<br>A Cue was added to the steps that the Shift Manager recognizes that the switch nomenclature is incorrect and directing the applicant to continue with the procedure. |
| 57. | JPM I<br>In-Plant | In steps 6,7,15, and 16, mention that the valve needs to be unlocked and opened (not just opened).<br>[Comment during onsite validation] | Comment incorporated. |

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| 58. | JPM I<br>In-Plant | In step 12:<br>- In the Standard, change "HSDH64A" to "HSDH64".<br>- The procedure (DB-OP-02000, Attachment 14) incorrectly states that the switch nomenclature is DH64A instead of DH64. [Comments during onsite validation] | Comments incorporated. A Cue was added to the steps that the Shift Manager recognizes that the switch nomenclature is incorrect and directing the applicant to continue with the procedure. |
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| 59. | JPM J<br>In-Plant | In the Initiating Cue, add that the Shift Manager has also given permission to remove the Caution Tag on the local Start switch NP0150 for the Startup Feedwater Pump. [Comment during onsite validation] | Comment incorporated. |
| 60. | JPM J<br>In-Plant | In step 7, in the Cue, <u>delete</u> mention of the ammeter going offscale high and then stabilizing at 20% of scale, and <u>add</u> that one hears noise from pump. [Comment during onsite validation] | Comment incorporated. |
| 61. | JPM K<br>In-Plant | In the "Initiating Cue", do NOT state what section of DB-OP-06334 to use to emergency shutdown the Station Blackout DG. | Comment incorporated. |
| 62. | JPM K<br>In-Plant | In the Initiating Conditions on the Cover Sheet and on the Initiating Cue on page 2, add that the SBODG is loaded on D2 bus.<br>[Comment during onsite validation] | Comment incorporated. |
| 63. | JPM K<br>In-Plant | In step 1, in the Cue, add that there will be no change seen on the Electrical panel, and that breaker AD301 remains closed. [Comment during onsite validation] | Comment incorporated. |
| 64. | Administrative<br>JPM A 1-1 (SRO)<br>[Admin JPM A (SRO)] | Typo: In Step13 in "Comment" section, change "simulatoe" to "simulator". | Comment incorporated. |
| 65. | Administrative<br>JPM A 1-2 (RO)<br>[Admin JPM A (RO)] | Change the K/A to 001-A4.11 with Importance Ratings of 3.5/4.1, since the K/A referenced in the JPM is only used for Generic Fundamentals Exams | Comment incorporated. |
| 66. | Administrative<br>JPM A 1-2 (RO)<br>[Admin JPM A (RO)] | Editorial: In Step 1 in the "Standard" section, change "Attachment 6" to "Attachment 10". | Comment incorporated. |
| 67. | Administrative<br>JPM A 1-2 (RO)<br>[Admin JPM A (RO)] | In the "Initiating Cue", do NOT state what section of DB-NE-06202 to use to perform the Shutdown Margin Calculation. | Comment incorporated. |
| 68. | Administrative<br>JPM A 1-3 (SRO)<br>[Admin JPM B (SRO)] | Attachment 4 of the filled out DB-NE-0602 should say APSR = 28.5% instead of 30%.<br>[Comment during onsite validation] | Comment incorporated. |

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| 69. | Administrative JPM A 1-3 (SRO) [Admin JPM B (SRO)] | Attachment 4 of the filled out DB-NE-0602 should say 1584 ppm instead of 1589 ppm for B(ROCB). [Comment during onsite validation] | Comment incorporated. |
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| 70. | Administrative JPM A 2-1 (SRO/RO) [Admin JPM C (RO) and Admin JPM C (SRO)] | Will need to supply a copy to the applicant of Attachment 1, Locked Valve Log Sheet, of DB-OP-00008 with the first 8 columns filled out for valve DH2736. | Comment incorporated. |
| 71. | Administrative JPM A 2-1 (SRO/RO) [Admin JPM C (RO) and Admin JPM C (SRO)] | The Initiating Cue should state that one is at Step 3.2 of DB-PF-03272. Include a signed off copy up to Step 3.2 for the applicant. | Comment incorporated. |
| 72. | Administrative JPM A 2-1 (SRO/RO) [Admin JPM C (RO) and Admin JPM C (SRO)] | Step 3 refers to obtaining the stroke times from the Pump and Valve Basis Document. Will this document be available in the simulator? | Yes, the Pump and Valve Basis Document will be available in the simulator. |
| 73. | Administrative JPM A 2-1 (SRO/RO) [Admin JPM C (RO) and Admin JPM C (SRO)] | The "Standard" for Step 3 says to record the maximum and expected stroke times on Attachment 2. This should say to record the times in Step 3.2.3 of DB-PF-03272. | Comment incorporated. |
| 74. | Administrative JPM A 3-1 (RO) [Admin JPM D (RO)] | In the "Task Standard" on the Cover Sheet for the JPM, add words to include mention of securing the containment release when the Main Station Exhaust Fans are found NOT running. | Comment incorporated. |
| 75. | Administrative JPM A 3-1 (RO) [Admin JPM D (RO)] | In step 1, have a Cue that computer point P318 reads 20"$\Delta$P. [Comment during onsite validation] | Comment incorporated. |
| 76. | Administrative JPM A 3-1 (RO) [Admin JPM D (RO)] | In step 6, in the Cue, add that the Independent Verification (IV) is complete in step 4.6.13. [Comment during onsite validation] | Comment incorporated. |
| 77. | Administrative JPM A 3-1 (RO) [Admin JPM D (RO)] | Editorial: In Step 9 "Cue", add the word "stopped" at the end of the cue. | Comment incorporated. |
| 78. | Administrative JPM A 3-2 (SRO) [Admin JPM D (SRO)] | Editorial: In step 2, in the Comment, change "ask" to "asked". [Comment during onsite validation] | Comment incorporated. |

| 79. | Administrative JPM A 3-2 (SRO) [Admin JPM D (SRO)] | Editorial: In step 9, in the Comment and in the Cue, changed "DB-OP-03200" to DB-SC-03200". [Comment during onsite validation] | Comment incorporated. |
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| 80. | Administrative JPM A 3-2 (SRO) [Admin JPM D (SRO)] | In Step 11 in the "Standard", add the following words at the end: "in item 5.a. Attachment 1" to agree with Step 4.5.3.b of DB-OP-03012. | Comment incorporated. |
| 81. | Administrative JPM A 4-1 (SRO) [Admin JPM E (SRO)] | Editorial: In the Initial Conditions, change "An Alert has been declared do to ..." to "An Alert has been declared due to ...". | Comment incorporated. |
| 82. | Administrative JPM A 4-1 (SRO) [Admin JPM E (SRO)] | In the Initial Conditions on the Cover Sheet and in the Initiating Cues on page 2, add the EAL # (EAL 3.B.1) for the Alert condition. [Comment during onsite validation] | Comment incorporated. |
| 83. | Administrative JPM A 4-1 (SRO) [Admin JPM E (SRO)] | In step 8, add a Cue that if "9" is NOT dialed first, say that the number you have dialed can NOT be completed as dialed. [Comment during onsite validation] | Comment incorporated. |
| 84. | Administrative JPM A 4-1 (SRO) [Admin JPM E (SRO)] | In step 17, add at the beginning of the Cue: "After approximately 5 minutes has elapsed,". [Comment during onsite validation] | Comment incorporated. |
| 85. | Administrative JPM A 4-2 (RO) [Admin JPM E (RO)] | The "Standard" for Step 1 says to determine the release pathway if from both AFPT exhausts and both AVVs. Shouldn't this state that the release pathway is from both AFPT exhausts and AVV1? | Comment incorporated. |
| 86. | Administrative JPM A 4-2 (RO) [Admin JPM E (RO)] | In Step 8 the "Comment" says that "Lower $\Delta T$ of -1.0°F is equivalent to a stability class E". This should say a "stability class D". Change the Lower $\Delta T$ to +1.0°F to make it equivalent to stability class E. | Comment incorporated. |