

**RESOLUTION OF 2001 NRC EXAMINATION BASED ON NRC FEEDBACK**

The exam team identified two typographical errors on the Section B, (JPM) Outline, Form ES-301-2.

1. JPM 1-5, Start, synchronize and load DG D for a maintenance test did not involve starting the DG. This JPM description had been changed to synchronize and load DG D for a maintenance test.
2. JPM 1-7, Bypass and reset Drywell Cooling logic and isolation IAW ES-134-001. This JPM description had been changed to Reset Drywell Cooling logic and isolation IAW ES-134-001.

These changes to the outline were discussed with the NRC team and the changes made.

During scenario 1 a procedure change was found that changed the section number of a procedure used in the scenario (ON-145-001) from 3.7 to 3.8. The change was made.

**Administrative Examination:**

- A1.1 (RO) Plant Parameter Verification. Question stated the reactor was "Critical" when in actuality the reactor was "Super Critical" the term was removed from the question. The NRC requested that the exam team consider changing the question to closed book. A review of the objectives from SRM systems concluded that the reference GO-100-002 is given to the candidates. Since this reference is available during the task conditions it should be available during the examination.
- A1.2 (RO) Plant Parameter Verification. NRC commented that the question was a direct look-up. Exam team explained that answering the question required interpolating data on a graph and was therefore not a direct lookup. No changes were made.
- A1.1 (RO) Logs and Log Keeping, NRC comment that this question would be more valid if the actual logs were used instead of selected data from the logs. They recommended including this information on a portion of the actual logs. Exam team agreed with the NRC and attempted to place this information on the applicable portions of SO-100-006. While reviewing the logs it was determined that this information is not recorded on the log. Only a SAT or UNSAT are recorded based on the agreement of the channel with other channels. The question was revised to state " When performing the daily logs the following are observed." The candidate must make the comparison check from the data given using the correct procedure.
- A1.2 (RO) Logs and Log Keeping, NRC comment that this question directed the candidate to the correct procedure and questioned on only one calculation. The exam team explained that it was not a benefit to have the candidate perform the same calculation 10 times. That to save time the candidate would perform only the first calculation. The reference should remain in the stem because this is a procedure in progress.
- A3.1 (RO) Radiation Protection, NRC comment that there were two questions asked in the one question. They only needed one question. The exam team deleted question 2 of this topic.
- A3.2 (RO) Radiation Protection, NRC comment that there were two questions asked in the one question. They only needed one question. The exam team deleted question 2 of this topic.

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- A1.1 (SRO) Mode Changes, NRC wanted the explanation of the answer clarified. The exam team revised and clarified the explanation of the answer.
- A1.2 (SRO) Mode Changes, NRC wanted the reference to Technical Specifications removed from the question stem. The exam team removed the reference to Technical Specifications.
- A1.1 (SRO) Parameter Verification, NRC wanted the reference to the Technical Requirements Manual removed from the question stem. The exam team removed the reference to the Technical Requirements Manual.
- A1.2 (SRO) Parameter Verification, NRC wanted the reference to the logs removed from the question stem and the actual data sheet given to the candidate. The exam team removed the reference to the logs (and procedure number) and will give the candidate two (2) pages from the logs indicating SAT and UNSAT as appropriate to the original conditions of the question.
- A2.1 (SRO) Surveillance Testing, NRC wanted reference to the section of Technical Specification removed from the question stem. The reference to the section of Technical Specifications was removed.
- A2.2 (SRO) Surveillance Testing, NRC wanted reference to the reportability requirements removed from the question stem. The reference to the reportability requirements was maintained because if it was removed there are other procedural actions required which could be selected and would require more time to answer the question.
- A3.1 (SRO) Radiation Protection, NRC comment that there were two questions asked in the one question. They only needed one question. The exam team concluded that this question only asked one question.
- A3.2 (SRO) Radiation Protection, NRC comment that there were two questions asked in the one question. They only needed one question. The exam team deleted question 1 of this topic.

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Written Examination:

- RO 4            Stem contained inches symbol instead of feet. Correction made.
- RO 8            Answer d could be correct with a 100-second period. Answer d was  
SRO 12          revised to make it incorrect
- RO 32          NRC wanted a more direct relationship with the K/A so the question stem was  
revised to change it from "welding on ventilator ducts" to "from a small fire".
- RO 36          NRC wanted the d distracter made more specific than "more than 24 inches. The  
distracter was changed to 48 inches.
- RO 37          To match the A2 K/A it was necessary to place a procedure (K/A requires procedure  
use) in each of the answer selections. This was done.
- RO 61          Exam team determined that there was a psychometric flaw in answer selection b and  
c. They were revised by adding "only" to insure they could not be used to eliminate  
other selections.
- RO 62          To match the A2 K/A, procedure use must occur in the question. To include this the  
question was revised from describe system response to verify system response at  
panel 0C681, which implies a procedure use.
- RO 65          Redundant use of "using rod controls" in the answers. Left as is because the  
insertion would occur if a reactor scram occurred. Changed 850 to 950 since 850  
was at the threshold pressure.
- RO 66          To match the A2, K/A procedure use must be recognized in the  
SRO68          question. The question stem was revised to include asking for the required action  
which implies a procedure use.
- RO 67          The K/A required using lights and indicators. This question uses the green light  
above the RX RECIRC LIMITER. The green light in the question is a result of  
changing conditions in the question. Determining the status is necessary to answer  
the question. No changes were made.
- RO 83          To match A2, K/A procedure use must occur in the question. The question was  
revised to include a procedural response in all distracters (previously selection d  
lacked a procedural response).
- RO 91          The NRC team thought this question was a level 1 of difficulty. The question was  
replaced with a similar question involving position verification of a safety related  
valve.
- RO 98          The NRC team thought that selection a. could also be correct. The exam team  
agreed and changed the response to a more incorrect response.

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- SRO 2 A2 K/A and 43(b)(5) match.  
The K/A is matched because to determine the correct action the effect of the power loss on system lineups must be determined. Changed the 43(b)(5) to 43(b)(2).
- SRO 4 43(b)(5) match.  
This question will not be credited as SRO only but will remain on the SRO examination. There are 28 SRO only questions and this value is reduced to 27 SRO only questions. Changed 43(b)(5) to 41(b)(10).
- SRO 19 Question is too detailed for the K/A. K/A asks for general guidelines.  
New question was written to replace the current SRO 19.
- SRO 21 43(b)(5) match.  
EO-100-103 reference was removed from the question stem and procedure references were added to the answers.
- SRO 23 43(b)(5) match.  
The correct EOP must be selected and applied to determine the correct answer.  
No change.
- SRO 42 43(b)(2) match.  
TS Table 3.3.1.1-1 and associated bases are applicable to the correct answer. Added these references to the references listed.
- SRO 43 43(b)(2) match. Unclear if the bases are applicable since not referenced.  
TS 3.7.3 LCO bases discusses operability of the trains in this situation. Added TS 3.7.3 LCO bases to the references.
- SRO 50 41(b)(10) is not a SRO only item in 10CFR55.  
Changed 41(b)(10) to 43(b)(2) and corrected the TS reference to TS 3.3.8.2 and bases.
- SRO 53 A2 K/A match.  
Removed Technical Specifications from the question stem and also asked what procedure or procedures are used to confirm the trip set point (TRM) and allowable value (TS). Also changed the trip set point and allowable values to the current values. As a result the as-found and as-left values were changed to maintain the same correct answer.
- SRO 58 A2 K/A match.  
K/A is met. Predict the impact is the operability determination and the affected component(s). Procedure use is the application of TS for this situation.
- SRO 67 43(b)(5) match.  
Procedure references for the procedure applicable to the action were added to the answers.
- SRO 74 43(b)(5) match.  
Removed the reference to ON-117-001 from the question stem. This procedure is available as an authorized reference and can be selected for use.
- SRO 79 43(b)(2) and 43(b)(5) match.  
Removed the reference to 43(b)(5) and maintained the reference to 43(b)(2). TS 3.7.2 and the associated bases discuss the ESW operability. TS 3.7.2 and associated bases were added to the references.
- SRO 85 41(b)(10) is not a SRO only item in 10CFR55.  
Changed 41(b)(10) to 43(b)(1). FSAR section 13.1 is referenced.

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- SRO 87 41(b)(10) is not a SRO only item in 10CFR55.  
Changed 41(b)(10) to 43(b)(2). This is a TS question supported by the associated bases.  
Added associated bases to the references.
- SRO 91 43(b)(5) match.  
Removed the reference to 43(b)(5) and maintained the existing reference to 43(b)(2).  
Added the applicable TS to the references – added TS 3.5.3 LCO and associated bases,  
and added SR 3.5.3.3 and associated bases.
- SRO 92 43(b)(5) match.  
Changed 43(b)(5) to 43(b)(7).
- SRO 95 K/A match.  
K/A matches. No change made to the question.
- SRO 98 43(b)(5) match.  
This question will not be credited as SRO only but will remain on the SRO examination.  
There were 28 SRO only questions and one previously not credited as discussed above.  
This value is now reduced to 26 SRO only questions. Changed 43(b)(5) to 41(b)(10).

**JPMs**

- JPM 1-3:  
Corrected the task conditions for item IV.B. It was too specific. Just tell them the cause is determined and corrected.
- JPM 1-5:  
Corrected the malfunction to ensure that the DG remains in service.
- JPM 1-6:  
Corrected the initiating cue to respond to the alarms and diagnose the failure rather than tell them what alarms are suspect. Changed the setup IC to IC4 from IC10.
- JPM 1-7:  
Clarified the initiating cue to indicate that restoration of the 90# CIG is not required and removed these actions from the JPM.