

Modified Questions

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Objectives

- Reduce burden and improve efficiency
 - Question Modification Techniques
- Adhere to regulations
- Clarify and Simplify



Modified Questions

ES-401-D-2

- Select and Develop Questions
- Use a combination of Existing (Bank), Modified, and New Questions



Modified Questions

- These questions must match the K/A's
- Ensure Tier 3 questions maintain their focus on ***Plant Wide Generic Knowledge*** (Not Plant Systems)



Modified Questions

- When writing a question for K/As that test coupled knowledges or abilities try to test both parts
- If that is not possible test the (b) portion, or substitute another randomly selected K/A



Modified Questions

- 010 Pressurizer Pressure Control System
- A2 Ability to (a) predict the impacts of the following malfunctions or operations on the PZR PCS; and...



Modified Questions

- (b) *based on those predictions, use appropriate procedures to correct, control, or mitigate the consequences of those malfunctions or operations*



Modified Questions

- Appendix B Written Exam Guidelines
- Use this Appendix to help in question development



Modified Questions

- Appendix B gives some good examples
- Basically instructs on how to write a multiple choice question



Modified Questions

ES-401.D.2.f

- What does it take to **Modify** a Question?



Modified Questions

- Changing at least one pertinent condition in the stem and at least one distractor
- Change the conditions in the stem such that one of the three distractors in the original question becomes the correct answer



Modified Questions

- What changes to questions would be considered insignificant / minor modifications?



Modified Questions

- Adding or deleting irrelevant information, or making minor changes, such as:
- Unit Number (Unless there is a difference between units)



Modified Questions

- Component Train (Unless one train operated differently than the other)
- A change in power level that makes no actual difference in the correct answer



Modified Questions

Modified Questions Examples



- The unit is at 5% Reactor Power
- A PZR Spray Valve fails open

Which ONE of the following would be the first to trip the reactor?

- A. OT^a T
- B. PRZR high water level reactor trip
- C. PRZR pressure low reactor trip
- D. PRZR pressure low safety injection

answer: D.

- The unit is at 15% Reactor Power
- A PZR Spray Valve fails open

Which ONE of the following would be the first to trip the reactor?

- A. OT^a T
- B. PRZR high water level reactor trip
- C. PRZR pressure low reactor trip
- D. PRZR pressure low safety injection

answer: C.

- Unit is in Mode 3
- Both Startup transformers are inadvertently de-energized

Which ONE of the following correctly describes the air compressors that can be aligned to a power source?

A. 1C only

B. 1B, 1D

C. 1A only

D. 1A, 1C

answer: D.

- Unit is in Mode 3
- The “A”Startup transformer is inadvertently de-energized

Which ONE of the following correctly describes the air compressors that will be aligned to a power source without any operator action?

A. 1D only

B. 1B, 1D

C. 1B only

D. 1A, 1C

answer: B.

Modified Questions

Items the NRC needs to complete a question package.

- Copy of the bank question, or other question that you are modifying
- Plants learning objective (if available)



Modified Questions

- References (lesson plan, procedure page, background document page, Tech Spec etc.)
- Any drawings or prints that support the question



Modified Questions

- If all of these items are included, we can then review the question faster, and this will save you money





Questions ?