

Millstone Unit 2 LOUT2K01
SRO Upgrade Exam Analysis

Based on the post-exam review, no changes are being made to the exam or the answer key, and the original grades are accepted as final by this facility.

Note: the numbers to the left of each choice letter indicate the number of candidates that selected that answer. The correct answer is circled.

#2 RO/SRO 2 missed / 1 correct

The following plant conditions exist:

- * 100% power, 892 MWe output, steady state
- * All CEAs fully withdrawn
- * One (1) Charging Pump in operation, letdown balanced

Then, a regulating group CEA drops to the fully inserted position, with all other CEAs remaining fully withdrawn.

The Secondary Plant Operator (SPO) immediately lowers turbine load, dropping generator output by fifty (50) MWe to 842 MWe.

Which one of the following is an expected AUTOMATIC plant response to the dropped CEA and the SPO's actions?

- 1 **A** Letdown flow will become greater than charging flow.
- 1 **B** One or two of the backup charging pump(s) will start.
- 1 **C** The letdown heat exchanger RBCCW flow will lower.
- D** The in-service back pressure control valve will be more closed.

Analysis:

The question is technically correct based on known rod worths and the thermodynamic effects of the stated actions on the plant. The question was discussed in the post-exam review to ensure all candidates fully understood the concept and agreed with the solicited answer.

There are no changes to, or comments on, this question.

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#77 RO/SRO 2 missed / 1 correct

The plant is in Mode 1 with the "B" Instrument Air Compressor (IAC) shut down for maintenance. "C" IAC is in lead with the "A" IAC and Station Air Compressor in standby.

Then, the plant trips with the following results:

- * 24C does not transfer to the RSST, but is energized by the "A" diesel generator.
- * All other systems and components respond as designed.

Which one of the following actions is required to maintain Instrument Air Pressure following the plant trip?

- A Ensure the "A" IAC automatically starts on the reenergizing of 24C and continues to supply system loads..
- B Ensure the "C" IA compressor continues to run and supply system loads.
- 1 C Open the Station Air/Instrument Air cross-tie and allow the Station Air Compressor to supply system loads.
- 2 D The Fire Water System must first be aligned to cool the "A" IAC before it can be restarted to supply system loads.

Analysis:

The question is technically correct per System Text ISA-00-C. The candidates that missed the question did not like any of the choices and felt they would just direct Instrument Air be cross-tied with Unit Three. They picked choice "D" because they felt it was most like the answers they have seen in the past for this concept. The candidate who got it correct disagreed and said choice "C" (correct answer) was what should be done based on the info given in the question. The other two candidates agreed that "C" was a possible answer.

There are no changes to, or comments on, this question.

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#78 RO/ SRO 2 missed / 1 correct

The plant is in normal operation at 100% power, when a Fire System Trouble annunciator is received on C06/7. An abnormal condition alarm is noted on panel C-26 and a PEO is subsequently dispatched to the West DC Switchgear Room.

The PEO reports the following:

- * Two photoelectric type smoke detectors are in alarm.
- * The Halon strobe lights and horn are pulsating SLOWLY.
- * There is no sign of combustion, but a cleaning crew is blowing dirt out of the overhead cable trays with station air.

Which one of the following describes the present status of the West DC Switchgear Room Halon System?

- 1 **A** It is in an alarmed state warning that a discharge to the room will occur if any ionization detector actuates.
- B** It is presently discharging or completed discharging to the West DC Switchgear Room.
- 2 **C** It is in an alarmed state warning that a discharge to the West DC Switchgear Room will occur in one minute or less.
- D** It is in an alarmed state and should have already discharged to the room, but a system malfunction has occurred.

Analysis:

The question is technically correct per System Text FPS-00-C. The candidates stated that they did not study this concept and simply forgot the logic of the actuation circuit. In the post-exam review one of the candidates stated the importance of all operational plant concepts, regardless of the applicable job position of responsibility. All candidates agreed on the importance of the concept and on the correct answer.

There are no changes to, or comments on, this question.