

## **EX00023**

The primary containment control training material, LO000078, contains objectives and material from PPM 5.0.10 that supports two correct answers, 'A' and 'B'. (see attached slides from PowerPoint presentation used for ILC EOP training - POWERPOINT 521\_ILC.00 - an approved training document for LO000078).

The question stem states that hydrogen and oxygen are above combustible limits. This is an override in the PC Gas leg of 5.2.1. This override drives us to flowpath T (PC vent path) in order to mitigate a breach of primary containment (PPM 5.0.10, pg. 278, step H-24) caused by deflagration. Step H-20 (shutdown CAC statement for flowpath T) is done to ensure that CAC is shutdown to eliminate a potential ignition source thereby mitigating a deflagration (PPM 5.0.10, pg. 277). This step is done in flowpath T in case that flowpath T was directly entered without first securing all recombiners in steps H-9 or H-18 in flowpath U (as would have occurred in this question). Steps H-9/H18 are referenced in step H-20 basis. These steps give the additional information regarding Drywell/Wetwell interface failure.

Both the given correct answer A and distracter B are correct. Accept both answers.

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Learning objectives and Task associated with the question are attached. NUREG 1021, rev. 8, no longer requires learning objective references as the exam is based on a computer generated random selection of BWR K&A's.

## **EX00040**

This question tests the knowledge of the requirements for jumpering out a safety related pressure switch that inputs to a multiple input annunciator.

PPM 1.3.9 gives the direction to perform a Screening for Licensing Basis changes for the safety related pressure switch and the affected annunciator. The Screening for Licensing Basis changes requires a 50.59 evaluation because the pressure switch is safety related. If a 50.59 review is required, PPM 1.3.9 requires that POC approve the TMR prior to installation.

Accept answer A and B

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Reference: PPM 1.3.9 rev. 26, page 12

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## **EX00095**

This question tests the knowledge of how to prevent causing the inoperability of safety systems.

PPM 1.3.9 Temporary Modifications directs that a LBID (Licensing Basis Impact Determination) be performed as part of the process to determine if a 50.59 Safety Evaluation is needed. While the LBID does not itself determine the impact of a Temp. Modification as safety significant, it is the document that directs the 50.59 Safety Evaluation be performed if the Mod is on a Safety related system.

Because it is a part of the whole process, it also helps prevent challenges to safety systems.

Accept both B and C as correct.

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Reference: PPM 1.3.9 rev 26, page 11

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## **EX00104**

This question tests the knowledge of actions during a loss of annunciation.

PPM 4.7.8.3 gives the direction to perform a continuous panel walkdown to verify plant parameters and system operability. It also directs the operator to suspend all operations not essential to plant safety operation.

The A distracter directs similar actions by placing an operator at P601 – P603 and Bds A – C and not changing any system operational status except for emergencies.

These directions are given by the procedure.

Accept both A and B as correct.

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Reference: PPM 4.7.8.3 rev 4, page 2 and PPM 4.603.A7.1-1 rev 23, page 4

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## **EX00108**

This question tests the knowledge of the power supplies to the SGT System and the interlocks for Reactor Building Ventilation.

The question gives the initial conditions with a time delay of 4 minutes before the CRO arrives at BD R and has time to take action. At +1.5" WG, ROA-AD-5 starts to open. When RB pressure reaches +3.5" WG, the damper is full open to limit Reactor Building pressure increase. With the conditions given, there is insufficient information available to determine if the ROA-FN-1A would have tripped.

If the fan did not trip distracter A is also correct. The direction to trip the running ROA fan is given in PPM 4.812.R1.9-3. SGT-FN-1B1 has power in this scenario and could be started for pressure control.

Accept both A and D as correct answers.

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Reference: ABN-HVAC rev 0, page 2,

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