Vermont Yankee 2014 Initial Licensed Operator Examination – Operating Test Review Comments

Admin JPMs

1) **A1a, Post Surveillance Board Walkdown** (Admin JPM 1 appears to be very simple. Have a spare handy during on-site validation.)
   - Initial Conditions (Examinee Handout also)
     - Specify job position (e.g., extra RO on shift)
   - Performance Step (PS) 3 – Revise "Interim Cue"
     - Specify that the applicant's role has changed and that he is now the CRS, and is to determine the operability of the HPCI system and identify any required Technical Specification actions.
   - PS 5 – Revise "Interim Cue"
     - Add cue to identify actions necessary to return HPCI to an operable configuration.
     - Add performance step(s) for identifying necessary actions to return HPCI to operable status.

A1b, Review Daily SRM Response Check Prior to Conducting Core Alteration

- References – add reference that includes standards/expectations of CRS (SRO) responsibilities/actions for reviewing completed surveillance/test packages.
- Initial Conditions (Examinee Handout also) – Specify job position (e.g., CRS)
- Initiating Cue
  - Revise to direct applicant to conduct the supervisory review of the completed test package.
  - Remove bulleted direction. This should be self-evident from the assigned task.
- PS 1 – unnecessary step since completed test package is provided to applicant when given the initial conditions and read the initiating cue.
- PS 2, Interim Cue – change "CRS" to "test performer".
- PS 4, "Evaluator Note" – need additional information on use of OP 2130 Figure 4
- PS 5 & 6, TYPO – both steps included within same step block (no line separating steps)
- PEDIGREE – need to identify link between assigned task and selected K/A (2.1.36)

A2, Review Completed Surveillance and Take Action for Out of Spec Data

- PEDIGREE – need to identify link between assigned task and selected K/A (2.2.12)
- References – add reference that includes standards/expectations of CRS (SRO) responsibilities/actions for reviewing completed surveillance/test packages.
- Initial Conditions (Examinee Handout also) – Specify job position (e.g., CRS)
- PS 1 – unnecessary step since completed test package is provided to applicant when given the initial conditions and read the initiating cue.
- PS 3, Spelling – "personal" should be "personnel"
- PS 4 thru 6 are essentially the same step with three elements to the standard.
  - Combine into one PS
- Add new "critical" PS (replaces current PS 10) to "Identify/determine operability of affected components/system.
- PS 11, and initiates required actions

A3, Determine the Radiological Protection Requirements for Entering a Locked High Radiation Area

- Revise "Initiating Cue"
- Determine the radiological requirements to locally close HPCI 16
- The bulleted questions should be the standards for completing the assigned task.
- Performance Steps (refer to 2013 CPS Exam RO Admin JPM)
    - Identify location of HPCI 16 and obtain associated Survey Map
    - From Survey Map identify type of RCA (Posting Requirements)
    - Locate associated RWP
    - Identify Task
    - Complete "trip ticket"

A4, Classify an Event and Complete Event Notification Form

- Initial Conditions (Examinee Handout also)
- Outline states Mode 5, the IC states Mode 4 preparing to enter Mode 5.
- Specify job position (e.g., SM)

Systems JPMs (None of the JPMs are designated as (L)ow power JPMs, although 2 are low power)

CR(a), Startup the Turbine to Rated Speed (Alternate Path)

- Initial Conditions (Examinee Handout also) – Specify job position (e.g., ATC/BOP)
- PS 1 – unnecessary step since marked up procedure is to be provided to applicant when given the initial conditions and read the initiating cue.
- Add (non-critical) PS to verify that Main Turbine is tripped (stop valves closed and speed decreasing)

CR(b), Open the MSIVs after a Group I Isolation

- Initial Conditions (Examinee Handout also) – Specify job position (e.g., ATC/BOP)
- PS 1 – unnecessary step since marked up procedure is to be provided to applicant when given the initial conditions and read the initiating cue.

CR(c), Manually Start HPCI and Inject to the Vessel (Alternate Path)

- Initial Conditions (Examinee Handout also) – Specify job position (e.g., ATC/BOP/third RO)
- Based on the Initial Conditions, explain why Appendix C wouldn't be used over Appendix D.
- PS 7, How long can HPCI be operated below min flow before damage may occur. Seems to me this should be a critical step, since valve will not open automatically under the give conditions.

IP(j), Startup the "A" RPS MG Set

- Initial Conditions (Examinee Handout also) – Specify job position (e.g., extra operator on shift or AO)
- PS 1 – unnecessary step since marked up procedure is to be provided to applicant when given the initial conditions and read the initiating cue.
- PS 5 should be incorporated in to the standard/cues for PS 4

Simulator Scenarios

Scenario 1

- Start SBLC is not a critical task if the end point of the scenario is "all rods in." With all rods in, it doesn't matter if you started SBLC or not.
- Please remove event numbers from pre-loads and add description in the body of the D-1.
- #10 and #11 are not identified as M, I, or C. Identify, add pre-loads to the description.
- Event 4 should also be flagged as a Reactivity Maneuver
- The critical tasks seem to be correctly identified in the expected operator actions section but not in the scenario summary.
- Summary does not identify inhibiting ADS
- Summary identifies rod insertion, but should also include SLC initiation
- Tech Spec calls don't appear to be overly challenging. Consider scripting a follow-up on Tech Specs for RPS and Gr 5 Isolation failures.

Scenario 2

- Please remove event numbers from pre-loads and add description in the body of the D-1.
- First HPCI failure has no success path and can't be counted as a separate event. Combine it with the second HPCI failure and make it a simple ramp of the HPCI failure.
- Event 1 – Torus Temperature
  - What is the initial temperature?
  - What is the minimum allowable temperature?
  - Will the minimum temperature be reached before the major?
- Event 2
  - Do APRM A and F need to be restored first?
- Event 3
  - Which Aux Oil Pump?
  - What major systems are impacted?
- Event 5
  - Critical Task states SCRAM before Exceeding MAX SAFE, but standard says with 5 minutes of exceeding MAX SAFE.
  - Should standard have stated MAX NORMAL?
  - Guide says SRO directs STA to verify Table A but has BOP perform verification of Table A. Which one does it?
  - Standard for CT-2 requires action to terminate release within 10 minutes. I thought leak was unisolable. Need clarification.
- Line 29 should state stabilize pressure, THEN commence cooldown.

- Line 33 – Standard of 5 minutes seems a bit excessive. What is the basis for the 5 minutes?
- Line 40 – Emergency Classification during a scenario by the SRO is not required. This is a SM function.