Scenario Review Comments

Prep Week Changes – All Scenarios

1. Added ES-D-1 (Scenario Outline) information to each scenario.
2. Deleted reference to videotape/recording of scenarios from "4" and "6" in Simulator Exercise Job Aid.
3. Added Setup Information line in "2": "ENSURE R-23 PROTECTED TRAIN placard is in place below the R-23 drawer."
4. In "2" and "6," changed "Monitor File" to "SmartTest" and "NRC Extended Value Monitor File" to "SmartTemplate for NRC Exam.xlt file".

Scenario 1

1. Page 20 of 66 – Who normally decides whether Turbine Control in "IMP IN" or not? If crew member let crew make decision not the Floor Instructor.

Prep Week Changes

1. Page 24 of 70, under "4" TURNOVER Crew Direction added procedure information: "Commence Management directed down power using GOP-307."
2. Page 29 of 70, added "flush" to Students action "WHEN Alt Dilution flush complete:"
3. Page 35 of 70, added values and COLR reference to Floor Instructor for "RCS pressure, temperature and flow DNB limits…"
4. Page 36 of 70, added to Students action "Potential for TS 3.4.1 RCS DNB limits…" information.
5. Page 36-37 of 70, changed NOTE concerning bistable tripping not being performed: "The remaining action of AOP-MISC-001 address I&C tripping of the bistables for the failed channel, this action will NOT be performed in this Scenario." Kept steps listed as SM direction for contacting I&C/WWC. Deleted NOTE from Booth Instructor column and changed RESPONSE to reflect timing for providing personnel for bistable tripping. Deleted identified bistables.
6. Page 36 of 70, added note to Floor Instructor, "When Technical Specifications have been addressed, then continue with next event."
7. Page 45 of 70, corrected typo in Students, "Check VST level > 5%" to "Check VCT level > 5%"
8. Page 49 of 70, Added in Students the specific valves closed for isolating feed flow to ruptured SG – AFW-2B and AFW-10B with noun names.
9. Page 52 of 70, added the radiation monitor identifier in parentheses behind name for R-15, R-19, R-33 and R-43.
10. Page 56 -70, added in Students isolating feed flow to the ruptured SG B including the specific valves closed for isolating feed flow to ruptured SG – AFW-2B and AFW-10B with noun names.
11. Page 56 -70, added in Students the specific valves closed and checked closed for ruptured SG – MS-1B and MS-2B. Included in parenthesis behind MS-1A the method for closing "(Depresses Main Steam Isolation Initiate Train B pushbutton)."

Scenario Review Comments

12. Page 66 of 70, corrected Final Value for DI-46331-OPEN and DI-46332-OPEN (CC-610A and CC-610B) from “trip” to ‘norm.”
13. Page 66 of 70, corrected values provided for SG01B under Blind Trigger - Event #30: In Command: changed “9-” to “10” and in description changed “5.6” to “10.”

Scenario 2

1. Page 40 of 94 – Floor Instructor direction should state “… event 3 is expected …”
2. Page 63 of 94 – Is reference to E-3 in the last Floor Instructor cell correct?
3. Page 82+ of 94 – Scenario guide is somewhat confusing on what are the “critical tasks” associated with loss of recirc capability. Is initiating RWST makeup and stopping of pumps critical or not?

Prep Week Changes

1. Page 19 of 82, under “2” for Simulator Setup, added directions on how to change PPCS Boron Concentration: “In **PPCS Functions**, **Operator Entry**, **Boron Concentration**, Enter New Boron Concentration and then press APPLY.”
2. Page 20 of 82, in “3.b” changed the steps the provided documents are completed up to for GOP-106 (Step 5.1.14); NOP-FW-001 (Step 5.1.6.k) and NOP-TB-001 (All Steps of 5.1 and Step 5.2.1.c).
3. Page 23 of 82, Deleted steps listed for actions listed prior to step 5.1.6.l “Position FW-2A/MV-32025, Feedwater Pump 1A and Discharge Valve, control switch to START.”
4. Page 24 of 82, Deleted steps listed for actions listed prior to step 5.2.1.d “Raise load as follows.”
5. Page 25 of 82, Added Booth Instruction for contact to EO from BOP regarding monitoring turbine/generator.
6. Page 25 of 82, corrected typo: “three noted” to “three notes.
7. Page 30 of 82, added Booth Instruction for contact to AO regarding Waste Gas Header High Pressure Alarm.
8. Page 36 of 82, changed NOTE concerning bistable tripping not being performed: “The remaining action of AOP-MISC-001 address I&C tripping of the bistables for the failed channel, this action will NOT be performed in this Scenario.” Kept steps listed as SM direction for contacting I&C/WWC. Deleted NOTE from Booth Instructor column and changed RESPONSE to reflect timing for providing personnel for bistable tripping.
9. Page 37 of 82, change values for Trigger 11 malfunction from “4” to “1.4.” This reflects desired value as listed in CAEP file ROI-06-SE-SC2.
10. Page 38 of 82, consolidated actions for alarms resulting from containment radiation monitors (TLA-15, 47012-B and 47011-B) into one section.
11. Pages 39-41 of 82, consolidated actions for AOP-RM-001 for the containment radiation monitors alarms listing the expected condition for each radiation monitor (automatic actions, as applicable) and operator response.
12. Page 43 of 82, added Booth Instruction for direction provided from AOP-RC-001 to check Aux Building sumps.
13. Pages 50-51 of 82, added NOTE to Floor Instructor detailing the possible action of restarting tripped AFW Pumps per EOP Foldout Page.

Scenario Review Comments

14. Page 52 of 82, corrected typo: “crew has not ripped RXCPs” to “crew has not tripped RXCPs.”
15. Page 52 of 82, corrected typo: “E-3” to “E-1.”
16. Page 68 of 82, added Booth Instruction for contact to AO to check breaker status for valves SI-350A (MCC-52F Ext(1CF)) and SI-350B (MCC-62B(B4)).
17. Page 73 of 82, corrected typo for Students action “Open SI-209 and SI-209” to Open SI-208 and SI-209.”
18. Page 77 of 82, under OVERRIDES changed each of the “Severity Or Value” listing and “Final Value” to reflect Simulator Computer Instructor Summary display. (“OFF” versus “NORM” and “NORM/TRIP” versus “ON”)
19. Page 78 of 82, corrected Event #2, Event Action from “hwzcrrcpb==0.0” to “hwzrcrrcpb==0.0.”

Scenario 3

1. Event 1/pages 14 thru 26 – Event is not a NORMAL evolution. The event is an integrated response to a component failure (S/G Tube Leak). There is a lot of verification of actions and communications but very little manipulation until power reduction is initiated.
2. Initial alarm response to event 1 appears to be identical to Scenario 1 – Event 5
3. SI auto start failure malfunction is very similar to auto start failure of AFW in Scenario 1
4. Scenario seems to terminate prematurely. There is a faulted SG with a known tube leak requiring transition to E-3. It would appear that continuing with the E-3 response may be appropriate.

<u>Prep Week Changes</u>

1. Page 15 of 54, corrected typo “CAEP file. ROI-06-SE-SC4-preload.cae.” to “CAEP file. ROI-06-SE-SC3-preload.cae.”
2. Page 21 of 54, changed Trigger 9 to Trigger 15 and added trigger to CAEP file ROI-06-SE-SC3. This trigger had not been included in file and Trigger 9 had already been assigned as a blind trigger.
3. Page 22 of 54, moved from Students to Floor Instructor, “If RCS pressure lowers…” as “TS LCO 3.4.1 will apply if RCS pressure lowers to less than 2217 psig control board or 2219 psig computer indication. This is the COLR for DNB pressure limit identified in TRM 2.11.2.”
4. Page 22 of 54, in Students moved up TS“3.4.1…” one indentation to correspond to other TS items listed.
5. Page 23-24 of 54, consolidated actions for alarms resulting from radiation monitors sensing SG tube leak (TLA-15, 47012-B and 47011-B) into one section.
6. Pages 24-26 of 54, consolidated actions for AOP-RM-001 for the containment radiation monitors alarms listing the expected condition for each radiation monitor (automatic actions, as applicable) and operator response.
7. Page 28 of 54, corrected typo “DELAY: 3minutes” to “DELAY: 3 minutes.”
8. Page 28 of 54, corrected typo in Students “Hot Shudown” to “Hot Shutdown.”
9. Page 46 of 54, corrected typo in “Check Containment Cooling” step, “vavles” to “valves”
10. Page 50 of 54, changed Trigger 7 to Trigger 9. Malfunction MS04 is blind trigger set to Trigger 9 in CAEP file ROI-06-SE-SC3.

Scenario Review Comments

11. Page 50 of 54, changed MALFUNCTIONS the following Event Triggers: (Malfunction / Trigger) For RC10B from “7” to “1”; For MS03B from “5” to “7.”
12. Page 50 of 54, deleted MALFUNCTIONS “MS04B Main Steam Safety Valve Fails Open (1B).” [NOTE: Added to TRIGGERS]
13. Page 50 of 54, added REMOTE FUNCTION “RM101 R-21 Alignment”; Severity or Value “Cntmt”; and Final Value “Cntmt.”
14. Page 50 of 54, changed REMOTE FUNCTION “FW185” Event Trigger from “7” to “5.”
15. Page 50 of 54, added OVERRIDE “MCC DO-46413-G PR-1B”; Event Trigger “15”; Severity or Value “OFF”; and Final Value “OFF.”
16. Page 50 of 54, changed Event #9: corrected “Event Action” from “hwamsg6136(2)==1.0” to “hwzmsg6136(2)==1.0”; added to “Command:” “imf MS04B.”

Scenario 4

1. Consider using this scenario instead of 3

Prep Week Changes

Removed failure of PORV and added to scenario 3

Added steps for TD AFW pump Start

Added ES-d-1