TASK CONDITIONS:

1. You are the Unit 1 Assist NSO standing in for the Unit 1 NSO while he is on break.
2. Unit 1 is in mode 3, following a reactor trip (reactor trip breakers are open).
3. Annunciator 1-10-B1 has just alarmed.

INITIATING CUES:

Respond to alarm 1-10-B1 on 1PM05J.

TASK TITLE: **Respond to a Source Range NI Failure**

JPM No.:	**SIM-710**	REV:	**NRC 09-1**
TPO No.:	4D.OA-13	K&A No.:	015000A2.02
TASK No.:	R-OA-053, Respond to a loss of Source Range Instrumentation	K&A IMP:	3.1/3.5

EXAMINEE: _____ RO SRO (Circle One)

EVALUATOR: _____ DATE:_____

The Examinee: PASSED _____ this JPM. TIME STARTED: _____

FAILED _____ TIME FINISHED:_____

JPM TIME:_____ MINUTES

CRITICAL ELEMENTS: **(*) 4, 6** APPROX COMPLETION TIME **15** MINUTES

CRITICAL TIME: **NA**

EVALUATION METHOD:
_**X**_ PERFORM
___ SIMULATE

LOCATION:
___ IN PLANT
_**X**_ SIMULATOR

GENERAL REFERENCES:

1. 1BwOA INST-1, Attachment C, Rev. 103, Nuclear Instrumentation Malfunction.

MATERIALS:

1. 1BwOA INST-1, Attachment C, Rev. 103.

TASK STANDARDS:

1. Respond to a failed source range instrument.

TASK CONDITIONS:

1. You are the Unit 1 Assist NSO standing in for the Unit 1 NSO while he is on break.
2. Unit 1 is in mode 3, following a reactor trip (reactor trip breakers are open).
3. Annunciator 1-10-B1 has just alarmed.

INITIATING CUES:

1. Respond to alarm 1-10-B1 on 1PM05J.

RECORD START TIME _____

	PERFORMANCE STEP	STANDARD	Circle applicable
1.	Refer to BwAR 1-10-B1	o Locate and Open BwAR 1-10-B1 • Identify 1BwOA INST-1 needs to be performed.	SAT UNSAT N/A **Comments:**
2.	Refer to 1BwOA INST-1, Attachment C **CUE: After the examinee reports condition, tell them that the US is busy with a higher priority task and instructs the examinee to perform the appropriate procedure for the NI failure.** **After examinee locates procedure provide a copy. As US, acknowledge procedure entry and E-plan eval. Direct the NSO to continue with actions of 1BwOA INST-1.**	Locate and Open 1BwOA INST-1 to Attachment C	SAT UNSAT N/A **Comments:**
3.	Check if SR is required	Determines power level < P6. CHECKS P6 permissive light (1-BP-3.2) is LIT.	SAT UNSAT N/A **Comments:**
***4.**	**Re-align audio count rate channel.**	Determine audio count rate is selected to failed channel: AT 1PM07J, selects SR N32 on Audio Count Rate Channel Selector.	SAT UNSAT N/A **Comments:**
5.	Determines mode 3 actions.	DETERMINE unit is in mode 3 from cue and plant indications.	SAT UNSAT N/A **Comments:**
***6**	**Performs required actions for SR failure.** **Cue: When examinee indicates that SR drawer must be opened, give cue that "The Two Phi Meter has been placed in Test".**	Bypass and Block N31 inputs: • At 1PM07J, PLACE Level Trip Switch for N31 in BYPASS. • At 1PM07J, PLACE High Flux at Shutdown Switch for N31 in BLOCK • At 1PM07J (inside N31 drawer), PLACE Two Phi Meter Test Switch for N31 in TEST.	SAT UNSAT N/A **Comments:**

7.	Refer to Tech Specs. **Cue: US acknowledges that Tech Specs may be applicable and will evaluate.** **Cue: (SRO only) If evaluator desires a tech spec evaluation by examinee, prompt them to determine proper Tech Spec entry.**	Refers to Tech Specs: Informs US that Tech Specs may be applicable. (SRO only) (If prompted) Recognize no tech spec applies due to reactor trip breakers being open. (rods are not capable of rod withdrwl)	SAT UNSAT N/A **Comments:**

CUE: THIS COMPLETES THIS JPM.

RECORD STOP TIME _____

COMMENTS:

SIMULATOR SETUP INSTRUCTIONS

JPM NO: SIM-710

REQUIRED SIMULATOR MODE (S): IC-7, Mode 3 with RX trip Breakers open.

MALFUNCTION #'S:

1. **IMF NI03A**

COMMENTS:

1. Ensure audio count rate drawer is aligned to N31 prior to beginning JPM and volume level is raised to appropriate level to detect failure.
2. Fail SR N31 low.