

V.C. SUMMER NUCLEAR STATION

NRC JOB PERFORMANCE MEASURE

JPS-008

LOSS OF POWER RANGE INSTRUMENT N-44 (NRC)

Revision No. 3

A114

LOSS OF POWER RANGE INSTRUMENT N-44 (NRC)

TRAINEE _____ EVALUATOR _____

EVALUATOR SIGNATURE _____ DATE _____

EVALUATION METHOD: PERFORM
EVALUATION LOCATION: SIMULATOR

ESTIMATED TIME: 10.0 MINUTES TIME STARTED: _____

10CFR55.45(a)4 IDENTIFY THE INSTRUMENTATION SYSTEMS AND
THE SIGNIFICANCE OF FACILITY INSTRUMENT
READINGS

TIME CRITICAL: No FAULTED JPM: No

TRAINEE PERFORMANCE: SATISFACTORY _____ UNSATISFACTORY _____

READ TO OPERATOR:

WHEN I TELL YOU TO BEGIN, YOU ARE TO PERFORM THE ACTIONS AS DIRECTED IN THE INITIATING CUES. I WILL DESCRIBE GENERAL CONDITIONS UNDER WHICH THIS TASK IS TO BE PERFORMED AND PROVIDE THE NECESSARY TOOLS WITH WHICH TO PERFORM THIS TASK. BEFORE STARTING, I WILL EXPLAIN THE INITIAL CONDITIONS, WHICH STEPS TO SIMULATE OR DISCUSS, AND PROVIDE INITIATING CUES.
WHEN YOU COMPLETE THE TASK SUCCESSFULLY, THE OBJECTIVE FOR THIS JOB PERFORMANCE MEASURE WILL BE SATISFIED.

INITIAL CONDITIONS:

1. The reactor is at 75% power. All controls are in automatic.

TOOLS AND EQUIPMENT NEEDED:

NONE

REFERENCED DOCUMENTS:

1. AOP*401.10 POWER RANGE FAILURE

REV DATE

09/13/95

TASK STANDARDS:

1. Control rod motion has been stopped (Bank selector switch placed in MAN).
2. Tavg within 1°F of Tref.
3. N-44 has been removed from service (control power fuses removed)

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TASK STANDARDS:

INITIATING CUES:

1. Respond to Nuclear Instrumentation System annunciators.

TERMINATING CUES:

1. Upper and lower detector current comparator switches positioned to PR N44 position.

SAFETY CONSIDERATIONS:

NONE

JOB PERFORMANCE MEASURE CHECKLIST

(S) DENOTES SEQUENCED ELEMENT
(*) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST:

SAT. UNSAT.

STEP

STANDARD

S 1. Identify power range channel N-44 has failed.

Operator identifies N-44 has failed low by MCB indication.

NOTE 2: Steps 2 and 3 are Immediate Operator Actions.

STEP

STANDARD

S*2. Manually control rods.

Positions the ROD CNTRL BANK SEL switch to the MAN position.

COMMENTS: _____

STEP

STANDARD

3. Stop any transients in progress.

Verifies no load change is in progress.

NOTE 4: Cue operator that no testing is in progress.

STEP

STANDARD

4. Verify no testing is in progress.

Looks at NI panel and/or asks examiner if any testing is in progress

STEP

STANDARD

5. Set the rod stop bypass switch for the failed channel to bypass and verifies bistable light lit.

Positions the ROD STOP BYPASS switch to the BYPASS PR N-44 position and verifies XCP 6111 status light B2 OP ROD STOP BYP is lit.

STEP

STANDARD

*6. Maintain Tav_g within 1°F of Tref.

Controls Tav_g within 1°F of Tref with manual rods.

JOB PERFORMANCE MEASURE CHECKLIST

PAGE 3

(S) DENOTES SEQUENCED ELEMENT
(*) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST:

SAT. UNSAT.

COMMENTS: _____

NOTE 7: Instruct NROATC that the CRS has requested him to remove N-44 from service.

STEP

STANDARD

*7. Remove control power fuses from the N-44 power range "A" drawer.

Control power fuses for the N-44 power range "A" drawer removed.

COMMENTS: _____

STEP

STANDARD

8. Remove instrument power fuses from the N-44 power range "B" drawer.

Instrument power fuses from the power range N44 B drawer removed.

STEP

STANDARD

9. Set the comparator defeat switch on the comparator and rate drawer to position associated with failed channel.

Positions the comparator channel defeat switch to the N44 position.

JOB PERFORMANCE MEASURE CHECKLIST

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(S) DENOTES SEQUENCED ELEMENT
(*) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST:

SAT. UNSAT.

STEP

STANDARD

10. Set UPPER SECTION and LOWER SECTION switches on the detector current comparator to position associated with the failed channel.

Upper and lower section switches on the detector current comparator indicate PR N44 position.

STEP

STANDARD

11. Ensure NR-45 is selected to operable channels.

Selects pen 2 (delta I) to N42 (delta F II).

STEP

STANDARD

12. Verify the status lights indicate the bistables trip.

Operator verifies that bistable lights for Channel IV, PR RATE HI, PR LO and HI setpoints have energized to bright.

Examiner Stops JPM At This Point

TIME STOPPED: _____

GENERAL COMMENTS:

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NRC KA REFERENCES:

<u>KA NUMBER</u>		IMPORTANCE	FACTOR
		<u>RO</u>	<u>SRO</u>
015GEN.15	Ability to recognize abnormal indications for system operating parameters which are entry-level conditions for emergency and abnormal operating procedures.	3.5*	3.6†