V.C. SUMMER NUCLEAR STATION

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NRC JOB PERFORMANCE MEASURE JPSF-026 START A REACTOR COOLANT PUMP (NRC)

Revision No. 0

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START A REACTOR COOLANT PUMP (NRC)

TRAINEE	EVALUATOR
EVALUATOR SIGNATURE	DATE
EVALUATION METHOD: PERFORM EVALUATION LOCATION: SIMULATOR	
ESTIMATED TIME: 20.0 MINUTES	TIME STARTED:
10CFR55.45(a)2 MANIPULATE THE CO TO OPERATE THE FA AND DESIGNATED PO	NSOLE CONTROLS AS REQUIRED CILITY BETWEEN SHUTDOWN WER LEVELS
TIME CRITICAL: NO FAULTE	D 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.	1.	The j	plant	is	in	cold	shutdown	with	а	solid	pressurizer	and
	all	RCPs	secur	ced.								

- 2. 2. Pressure control is being accomplished using letdown.
- 3. 3. The PRT is filled and vented per SOP-101, Section IV.
- 4. 4. Personnel are on station to monitor the oil level during the RCP start.

TOOLS AND EQUIPMENT NEEDED:

NONE

REFERENCED DOCUMENTS:

REV DATE

REACTOR COOLANT SYSTEM SOP*101 1.

10/29/97

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START A REACTOR COOLANT PUMP (NRC)

TASK STANDARDS:

1. RCP 'A' started with flow verified.

INITIATING CUES:

1. CRS directs NROATC to start 'A' RCP to begin plant heatup per SOP-101, Section III.A.

TERMINATING CUES:

1. The 'A' RCP is running and its associated oil lift pump secured.

SAFETY CONSIDERATIONS:

NONE

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JOB PERFORMANCE MEASURE CHECKLIST

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

PERFORMANCE CHECKLIST:

STANDARD

S 1. Verifies all precautions/initial conditions to start "A" RCP are met. FOR ATTACHMENT GOD (0) Notes seal injection flow < 6 gpm, RCS pressure <325 psig and 'A' RCP #1 Seal D/P <200 psid.

NOTE 2: Increasing RCS pressure to > 325 psid should also increase #1 seal D/P to >200 psid.

STEP

STEP

*2. Increases RCS pressure to >325 psig. Throttles HCV-142 to increase RCS pressure >325 psig.

STANDARD

COMMENTS:

<u>STEP</u>

STANDARD

*3. Raises seal injection flow to specifications. Throttles HCV-186 to increase seal injection flow to between 6 gpm and 13 gpm.

COMMENTS:

STEP

STANDARD

*4. Places Low Pressure Letdown in manual. Places PCV-145 controller in MAN.

COMMENTS:

SAT. UNSAT.

JOB PERFORMANCE MEASURE CHECKLIS

illuminated.

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

PERFORMANCE CHECKLIST:

STEP

STANDARD

PCV-444D controller is in MANUAL with

demand signal at 0% and closed light is

5. Verify PCV-444D, PZR SPRAY is in manual and closed.

STEP

STANDARD

S*6. Start Oil Lift pump and allow to run for 2 minutes.

XPP-0087A, A OIL LIFT PP, indicates ON and waits 2 minutes.

COMMENTS:

NOTE 7: RCP A #1 SL LKOFF FLO HI/LO may be in alarm.

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STEP

STANDARD

7. Verify annunciators are clear.

The following annunciators are not in alarm for RCP 'A' LIFT PP PRESS LO, STNDPIP LVL HI/LO, UP OIL RESVR LVL HI/LO, LOW OIL RESVR LVL HI/LO, #1 SL DELTA P LO, #1 SL LKOFF FLO HI/LO, #1 SL INJ FLO LO

NOTE 8: Prompt student that 2 minutes has expired in order to expidite the JPM.

STEP

S*8. Start RCP *A*

STANDARD

XPP-0030A, PUMP A, indicates red light ON, green light OFF

COMMENTS:

SAT. UNSAT.

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JOB PERFORMANCE MEASURE CHECKLIST

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

PERFORMANCE CHECKLIST:

PAGE 4

STEP

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S 9. Observe the locked rotor LED display for first 17 seconds of RCP startup.

STEP

Verify loop "A" RCS flow 10

STANDARD

of pump start on XCP-6090.

STANDARD

Observes that the locked rotor LED does

not illuminate during first 17 seconds

Verifies loop "A" RCS flow increasing on FI-414, 415, 416.

STEP

Stop XPP-0087A "A" oil lift at 11 least one minute after start of RCP "A".

Examiner Stops JPM At This Point

TIME STOPPED

GENERAL COMMENTS:

STANDARD

XPP-0087A, A OIL LIFT PP indicate OFF > one minute after pump start.

SAT. UNSAT.



START A REACTOR COOLANT PUMP (NRC)

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NRC KA REFERENCES:

KA NUMBER

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003000.A3.04

Ability to monitor automatic operation of the RCP including RCS flow.

IMPORTANCE	FACTOR
RO	SRO
3.6	3.6