

WISCONSIN PUBLIC SERVICE CORPORATION KEWAUNEE NUCLEAR POWER PLANT JOB PERFORMANCE MEASURE	NO. O-LRQ-JPM-078A-2 REV. F TITLE: OPERATE THE DIESEL GENERATOR (LOCALLY) DATE: PAGE: 1
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APPROVED BY:

 Nuclear Training Supervisor - Operations

 Assistant Manager - Plant Operations

PERFORMED BY:

 Trainee

 Evaluator

EVALUATION LOCATION:	PLANT/SIMULATOR/CONTROL ROOM	PLANT
EVALUATION METHOD:	PERFORM/SIMULATE	SIMULATE
AVE. COMPLETION TIME:	AVE. TIME FOR THIS JPM	19 MINUTES
TIME CRITICAL TASK:	YES/NO	YES
MAX. COMPLETION TIME:	N/A FOR NON-TIME CRITICAL TASKS	3 min. for steps 7-12
PERFORMANCE LEVEL:	SRO/RO/NAO	SRO/RO
TASK NUMBER:	FROM OPS TRNG DATABASE	E060010501
TASK TYPE:	INITIAL/CONTINUING (FROM OPSTRNG DATABASE)	CONTINUING
PLANT SYSTEM:	NUMBER AND NAME	10, DGM
CRITICAL STEPS:	(C) = CRITICAL	2, 7, 10 and 12
	(S) = SEQUENCE CRITICAL	NONE
	(T) = TIME CRITICAL	7-12 (3 Minutes)
SPECIAL TOOLS AND EQUIPMENT:	SPECIAL ITEMS REQUIRED TO COMPLETE JPM	NONE
REFERENCES:	REFERENCES USED FOR PERFORMANCE OF JPM	E-0-06, step 14 Rev. N

READ THE FOLLOWING TO THE OPERATOR:

THIS TASK IS TIME CRITICAL

THE TASK CONDITIONS ARE:

THE PLANT IS AT hot shutdown during the performance of procedure E-0-06, Fire in Alternate Fire Zone.

E-0-06 has been completed through Step 13.

THE STEPS IN THIS JPM SHOULD BE: SIMULATED

INITIATING CUE:

You are directed by E-0-06 to start Diesel Generator A and energize the 4160 Volt and 480 Volt Dedicated Shutdown Electrical System per step 14.

DO YOU HAVE ANY QUESTIONS BEFORE WE BEGIN?

Answer any questions the Operator may have, THEN read the following to the Operator to initiate the JPM performance:

LET'S BEGIN

THIS TASK IS TIME CRITICAL

THE TASK CONDITIONS ARE:

THE PLANT IS AT hot shutdown during the performance of procedure E-0-06, Fire in Alternate Fire Zone.

E-0-06 has been completed through Step 13.

THE STEPS IN THIS JPM SHOULD BE: SIMULATED

INITIATING CUE:

You are directed by E-0-06 to start Diesel Generator A and energize the 4160 Volt and 480 Volt Dedicated Shutdown Electrical System per step 14.

LOG START TIME:

STEP	PERFORMANCE ITEM	* STANDARD	SAT/	UNSAT
			S	U
1.	REFER to E-0-06, Fire in Alternate Fire Zone, Step 14.	* REFER to E-0-06, Step 14.		
(c) 2.	POSITION 1A Diesel Generator Voltage Control Local/Remote switch to LOCAL (Cue: Switch in local position)	* POSITION Diesel Generator Voltage Control Local/Remote SW to LOCAL at Diesel Generator Control & Excitation Cabinet DR-101.		
3.	REPLACE the following fuses at Diesel Generator Control and Excitation Cabinet: Fuse F4 & Fuse F5 (Cue: Fuses Replaced)	* OBTAIN fuses and fuse puller from Appendix "R" Spare Fuse Box #2 near Gai-tronics * In Diesel Generator Control and Excitation Cabinet DR-101, REPLACE Fuses F4 and F5 (located on right side of cabinet)		
4.	REPLACE the following fuses at 1A Diesel Engine Control Panel: Fuse F4 and Fuse F5 (Cue: Fuses Replaced)	* OBTAIN fuses and fuse puller from Appendix "R" Spare Fuse Box #2 near Gai-tronics * In Diesel Engine Control Panel D1A, REPLACE fuses F4 & F5 (located at upper right)		
5.	VERIFY Engine Control Panel Green Power ON, light is ON (Cue: Green Power Light ON)	* At Diesel Engine Control Panel D1A, VERIFY green power light ON		
6.	DEPRESS Engine Control Panel Failure Reset Push button to CLEAR any local alarms (Cue: Red Alarm lights OFF)	* At Diesel Engine Control Panel D1A, DEPRESS Failure Reset push button		

STEP	PERFORMANCE ITEM	* STANDARD	SAT/ UNSAT	S U
(c)7.) 7. (T1)= —	START Diesel Generator 1A by POSITIONING Engine Control Switch to Start (Cue: Diesel Generator A Running)	* At Diesel Engine Control Panel D1A, POSITION 1A Diesel Engine Control Switch to the START NOTE: Step 13 shall be completed within 3 minutes of the completion of step 10.		
8.	At Diesel Generator Control and Excitation Cabinet: VERIFY output frequency at 60 Hz (Cue: Diesel Generator A frequency is at 60 hertz.)	* VERIFY frequency at 60 hertz. Use the Governor Lower/Raise Switch to adjust frequency to 60 hertz at Diesel Generator Control and Excitation Cabinet DR-101.		
9.	At Diesel Generator Control and Excitation Cabinet: VERIFY output voltage at 4160V (Cue: Diesel Generator A voltage is at 4160 volts.)	* VERIFY voltage at 4160 AC Volts. Use Voltage RAISE/LOWER SWITCH to SWITCH to adjust voltage to 4160 volts at Diesel Generator Control and Excitation Cabinet DR-101.		
(c) 10.	CLOSE Diesel Gen. 1-A Bkr 1-509 using control switch on breaker cubicle NOTE: IF Local/Remote switch position is questioned, provide: (Cue: Local/Remote switch positioned to LOCAL in step 13 of E-0-06.) (Cue: Bkr closed, red light on, green light off.)	* At Bkr 1-509 Cubicle PLACE Breaker Control Switch to CLOSE * Red light ON, Green light OFF.		

STEP	PERFORMANCE ITEM	* STANDARD	SAT/ UNSAT	S U
11.	VERIFY that Service Water Cooling is Established to Diesel Generator 1A (Cue: SW-301A valve position indication indicates CLOSED. <u>OR</u> piping Piping at room temperature when the touch.)	* VERIFY that SW301A is Valve position indicator indicates CLOSED. <u>OR</u> VERIFY service water piping downstream of SW301A is at room temperature to the touch		
(C)12. 12. (T2)= — T2-T1 = ≤3 min	Manually OPEN SW-301A (Cue: Valve is rotated in the counterclockwise direction and is in the in-line position.)	* Manually OPEN SW-301A using the attached wrench and rotating in the counterclockwise direction. Valve position indication indicates open.		
13.	REQUEST Control Operator A load equipment as necessary. (Cue: Control Operator A will Load equipment.)	* REQUEST Control Operator A load equipment.		

* Indicates required items for satisfactory completion of performance items.

LOG STOP TIME:

When the operator completes the performance portion of the JPM, then read the following:

THAT COMPLETES THIS PORTION OF THE JPM.

Ask any required follow-up questions and note the questions and answers in the JPM evaluation comments section.

When done with any required follow-up questions, then ask the JPM QUESTIONS.

READ THE JPM QUESTIONS VERBATIM. If the operator requests clarification, then note rephrasing.

When done with the JPM QUESTIONS, then read the following:

THAT COMPLETES THIS JPM.

Make sure your documentation on the next page is complete.

	YES	NO	N/A
Were all of the critical steps performed correctly?			
<u>IF</u> the JPM was time critical, <u>THEN</u> was the JPM completed in the designated time?			
<u>IF</u> the JPM was NOT time critical, <u>THEN</u> was acceptable progress made in performing the task?			
Was the task standard met?			

IF any of the above questions was answered with a NO response, THEN this JPM must be evaluated as UNSATISFACTORY.

THE TASK STANDARD FOR THIS JPM IS:

Satisfactorily operating 1A D/G locally.

Job Performance Measure was:

SATISFACTORY _____ UNSATISFACTORY _____

EVALUATOR SIGNATURE: _____ DATE: _____

COMMENTS: