NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: RESTORE LC-103 FROM LC-104

JPM NUMBER: JPM-E.4-07-001 **REV.** 4

RELATED PRA INFORMATION: "ACB309409Y"

TASK NUMBERS / TASK TITLE(S): CR305.125
Restore LC-103 from LC-104

K/A NUMBERS: 295003 AA1.01
A.C. electrical distribution system **RO/SRO:** 3.7/3.8

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [ ] Perform: [X]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [X] Other: [ ]

Lab: [ ]

Time for Completion: 10 Minutes Time Critical: No

Alternate Path: No

TASK APPLICABILITY: SRO: [X] RO: [X] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:		
	Developer	Date
Validated by:		
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM Number: JPM-E.4-07-001

JPM Title: Restore LC-103 from LC-104

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

(Modify text in Briefing/Turnover Box as necessary)

JPM BRIEFING/TURNOVER
Add required site specific JPM briefing material here: for example: *This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.* *You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.* *EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.* *If this JPM is performed on the simulator, the JPM administrator should only give cues that are NOT indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should NOT have to give a cue to the trainee to continue the evolution.*

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- A LONOP occurred 45 minutes ago. C.4-B.09.02.B (Loss of Normal Off-Site Power) had been performed up to Step 12. No. 12 EDG is running, supplying 16 Bus and LC-104. No. 11 EDG failed to start and 15 Bus is dead. Reactor water level is being maintained using RCIC.
- There are NO Faults on LC-103.

INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to restore LC-103 from LC-104 using procedure E.4-07. Steps 1 and 2 have been performed. You are to perform Steps 3 through 8 to energize LC-103, the remaining steps will be performed by an Outplant operator at a later time.

JPM PERFORMANCE INFORMATION

Required Materials: Simulator

General References: None

Task Standards: E.4-07, Rev 1

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step SHALL result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 **Critical Y**	(Procedure STEP 3) Place 52-301/CS, 103 LOAD CTR SEC ACB-52-301, to TRIP.
Standard:	Trips ACB 52-301, 103 LC SEC ACB. Verifies Red light OFF and Green light ON for ACB 52-301.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical Y**	(Procedure STEP 4) Verify 103/104 LC BUS TIE ACB-52-309 is OPEN.
Standard:	Verifies or OPENS ACB-52-309, 103/104 LC BUS TIE. Verifies Green light ON and Red light OFF for ACB 52-309.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical Y**	(Procedure STEP 5) Place 52-409/CS, 103/104 LC BUS TIE ACB-52-409, to CLOSE.
Standard:	Closes 52-409 ACB, 103/104 LC BUS TIE. Verifies Red light ON and Green light OFF for ACB 52-409.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical Y**	(Procedure STEP 6) Place 52-309/SS, SYNC 103/104 LC BUS TIE ACB-52-309, to ON.
Standard:	Places 52-309/SS to ON.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical Y**	(Procedure STEP 7) **<u>NOTE</u>: ACB 5-309 will <u>NOT</u> CLOSE unless ACB-52-409 is CLOSED.** Place 52-309/CS, 103/104 LC BUS TIE ACB-52-309, to CLOSE
Standard:	Closes 52-309ACB, 103/104 LC BUS TIE. Observes 103 LC amperage meter for indication. **(Non-Critical portion of Standard)**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 6 **Critical N**	(Procedure STEP 8) Place 52-309/SS, SYNC 103/104 LC BUS TIE ACB-52-309, to OFF.
Standard:	Turns OFF 52-309/SS, Sync 103/104 LC BUS TIE.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 7 **Critical N**	**INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED**
Standard:	Operator informs evaluator that the task is completed.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Terminating Cues:

Stop Time: _____

Historical Record: MNGP JPM Bank
Minor edits for 2009 NRC Exam

SIMULATOR SET UP: (*Modify table as necessary)*

Simulator Setup Instructions:

- Initialize to IC-16 (IC-288 for 2009 NRC Exam).
- Trigger Event #1.
- Complete appropriate C.4-A actions.
- Complete C.4-B.09.02.B through Step 11.
- RCIC will be used for reactor level control.

SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.	ED12	Loss of Off-site Power	00:00:00	00:00:00	1	FALSE	TRUE
2.	DG02A	11 EDG Failure to Start	00:00:00	00:00:00	NONE	TRUE	TRUE
3.							
4.							

SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							
* Set for current weather condition							

SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							
3.							
4.							

TURNOVER SHEET

INITIAL CONDITIONS:

- A LONOP occurred 45 minutes ago. C.4-B.09.02.B (Loss of Normal Off-Site Power) had been performed up to Step 12. No. 12 EDG is running, supplying 16 Bus and LC-104. No. 11 EDG failed to start and 15 Bus is dead. Reactor water level is being maintained using RCIC.
- There are NO Faults on LC-103.

INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to restore LC-103 from LC-104 using procedure E.4-07. Steps 1 and 2 have been performed. You are to perform Steps 3 through 8 to energize LC-103, the remaining steps will be performed by an Outplant operator at a later time.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? NOT applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? NOT applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

All applicable questions must be answered "YES" or the JPM is NOT valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

_____	_____
Validation Personnel /Date	Validation Personnel/Date
_____	_____
Validation Personnel /Date	Validation Personnel/Date
_____	_____
Validation Personnel /Date	Validation Personnel/Date
_____	_____
Validation Personnel /Date	Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record
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To be able to use the macros, after opening Word go to: Tools/Macro/Security and set the security level at either Low or Medium, close completely out of Word and reopen Word to activate Macros. If you are concerned with macro viruses, check with your site to be assured of active virus scanning.

Buttons	Results from pressing toolbar buttons
	Update JPM Information - Runs the macro for inputting information into the cover sheet. [Note: - The JPM Title and Number is automatically added to the top of the second page by the use of Cross Reference fields.]
	Add JPM Step - Adds a Performance Step table at the end of that section, prior to the 'Terminating Cues:'.
	Insert JPM Step - Inserts a Performance Step table in front of an existing Performance Step table. [NOTE: - You must have your cursor inside a Performance Step table, otherwise; you will get an error message if your cursor is anywhere else.]
	Critical Step - Toggles the Performance Step to 'Critical'. Removes **all** of the text to the right of the words '**Critical**' and replaces them with the text string ' **Y (SEQ-)**'. The cursor is placed between the '**-**' and the '**)**', to allow you to insert the sequence number for the performance step. [NOTE - You must have your cursor inside the Performance Step table you want to make into a critical step otherwise you get an error message.]
	Non-Critical Step - Toggles the Performance Step to 'Non-Critical'. Removes **all** of the text to the right of the words '**Critical**' and replaces them with the text string ' **N (SEQ-)**'. The cursor is placed between the '**-**' and the '**)**', to allow you to insert the sequence number for the performance step. [NOTE - You must have your cursor inside the Performance Step table you want to make into a non-critical step otherwise you get an error message.]
	Evaluator Note - Adds a row to the Performance Step table under the '**Standard:**' line, to allow you to enter any notes for the Evaluator.
	Remove Evaluator Note - Removes the '**Evaluator Note:**' line if it was added to the Performance Step table. [NOTE - You must have your cursor inside the Performance Step you want to remove the Evaluator Note from otherwise it removes two lines from the table above the cursor.]
	Evaluator Cue - Adds a row to the Performance Step table above the '**Performance:**' line, to allow you to enter any cues for the Evaluator.
	Remove Evaluator Cue - Removes the '**Evaluator Cue:**' line if it was added to the Performance Step table. [NOTE - You must have your cursor inside the Performance Step you want to remove the Evaluator Cue from otherwise it removes two lines from the table above the cursor.]
	Simulator Setup Page - Adds a Simulator Setup page near the end.
	Remove Simulator Setup Page - Removes the inserted Simulator Setup page.
	Update Turnover Sheet - Takes the turnover information from page 3 (JPM Briefing / Turnover page) and updates the Trainee's version of the turnover page, located prior to Attachment 1 (the last page of the JPM).
	Not For Exam Use - Places a shaded Word Art text box diagonally across the first page. To remove the text, place your cursor near the top right side of the coversheet and select the Word Art text and delete.

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