Exelon Nuclear

Job Performance Measure

Place a Standby Battery Charger in Service

JPM Number: P-DC-02

Revision Number: 02

Date: 08/31/2012

Developed By:	Instructor	Date
Validated By:	SME or Instructor	Date
Reviewed By:	Operations Representative	Date
Approved By:	Training Department	Date

SRRS: 3D.105 (when utilized for operator initial or continuing training)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

_____ 1. Task description and number, JPM description and number are identified.

_____ 2. Knowledge and Abilities (K/A) references are included.

_____ 3. Performance location specified. (in-plant, control room, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) are properly identified.

_____ 6. Task standards identified and verified by SME review.

_____ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).

_____ 8. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure _____ Rev: _____
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

Revision Record (Summary)

1. **Revision 00,** New JPM
2. **Revision 01,** Added Initiating Cue to the Examinee's initial conditions. Updated to revision 7 of LOA-DC-201.
3. **Revision 02,** Updated to current Procedures and Template for ILT 11-1 NRC Exam.

INITIAL CONDITIONS

1. A fire has occurred in the operating Unit 2 Division 2 125 VDC Battery Charger 2BA.
2. The Fire Brigade has extinguished the fire.
3. Battery Charger 2BA has been removed from service.
4. No damage has occurred to MCC-236X-3 or DC Bus 2B[2DC15E].
5. The AC feed to 2BA battery charger is open and removed from service. (236X-3, B5)
6. All C/O for the 2BB Unit 2 Division 2 125 VDC Battery Charger have been lifted.
7. All levels of the Auxiliary Building are open for personnel access.
8. You are an extra NSO.
9. You have a plant radio.

INITIATING CUE

The Unit 2 NSO directs you to place the standby Unit 2 Division 2 125 VDC Battery Charger 2BB in service IAW LOA-DC-201 starting at Section B.1 step 17.

Contact the Unit 2 NSO when Battery Charger 2BB float voltage is acceptable.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time: _____

STEP (LOA-DC-201)	**ELEMENT**		**SAT**	**UNSAT**	**Comment Number**
NOTE:	**The procedure states, steps 1 and 2 *must* be done IN ORDER LISTED.**				
1. (B.1.17)	At Battery Charger 2BB, LOCALLY OPEN the DC Output Breaker.	The Examinee verifies the DC Output Breaker on Battery Charger 2BB is open. (off)	____	____	____
CUE:	**The breaker is in the position you describe.**				
2. (B.1.17)	At Battery Charger 2BB, LOCALLY OPEN the AC Input Breaker.	The Examinee verifies the AC Input Breaker on Battery Charger 2BB is open. (off)	____	____	____
CUE:	**The breaker is in the position you describe.**				
***3**. (B.1.18)	At MCC-236X-3, LOCALLY CLOSE AC Feed Breaker A6 for the 2BB Battery Charger.	The Examinee simulates closing the A6 Breaker on MCC-236X-3.	____	____	____
CUE:	**The breaker is in the position you describe.**				
NOTE:	**The Examinee may verify breaker 2B[2DC15E], 2D (DC Feed Breaker) for Battery Charger 2BA is open. If this occurs, inform the Examinee that breaker 2D is open.**				
***4.** (B.1.19)	At DC Bus 2B[2DC15E], LOCALLY CLOSE DC Feed Breaker 2A for the 2BB Battery Charger.	The Examinee simulates closing the 2A Breaker on 2B[2DC15E].	____	____	____
CUE:	**The breaker is in the position you describe.**				
NOTE:	**Steps 5, 6, and 7 are performed locally at Battery Charger 2BB and *must* be done IN ORDER LISTED.**				
***5.** (B.1.20)	CLOSE the AC Input Breaker.	The Examinee simulates closing the AC Input Breaker on Div 2 Charger 2BB	____	____	____
CUE:	**The breaker is in the position you describe.**				

STEP (LOA-DC-201)	**ELEMENT**		SAT	UNSAT	Comment Number
***6.** (B.1.20)	DEPRESS the pushbutton and VERIFY FLOAT light energized.	The Examinee depresses the pushbutton and verifies Float-light energized on Div 2 Charger 2BB	____	____	____
CUE:	**The green light is lit.**				
*7. (B.1.20)	CLOSE DC Output Breaker.	The Examinee simulates closing the DC Output Breaker on Div 2 Charger 2BB	____	____	____
CUE:	**The breaker is in the position you describe.**				
CUE:	**Battery Charger Float voltage has been determined acceptable by another EO.**				
	The JPM is complete when the Unit 2 NSO is notified that Battery Charger Float Voltage is acceptable.				

JPM Stop Time: _____

JPM SUMMARY

Operator's Name: _____

Job Title: ☐ EO ☐ RO ☐SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Place a Standby Battery Charger in Service

JPM Number:P-DC-02 Revision Number: 02

Task Number and Title: 6.008
Startup or shutdown a battery charger

K/A Number and Importance:263000 (DC Electrical Systems) 2.1.30 4.4/4.0
Ability to locate and operate components, including local controls

Suggested Testing Environment: In-Plant

Alternate Path: ☐Yes ☒No SRO Only: ☐Yes ☒No Time Critical: ☐Yes ☒No

Reference(s): LOA-DC-201 Unit 2 DC Power System Failure, Rev 14

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☐ Perform

Estimated Time to Complete: 20 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐Yes ☐No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐Unsatisfactory

Comments:_____

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Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date**: _____

INITIAL CONDITIONS

1. A fire has occurred in the operating Unit 2 Division 2 125 VDC Battery Charger 2BA.
2. The Fire Brigade has extinguished the fire.
3. Battery Charger 2BA has been removed from service.
4. No damage has occurred to MCC-236X-3 or DC Bus 2B[2DC15E].
5. The AC feed to 2BA battery charger is open and removed from service. (236X-3, B5)
6. All C/O for the 2BB Unit 2 Division 2 125 VDC Battery Charger have been lifted.
7. All levels of the Auxiliary Building are open for personnel access.
8. You are an extra NSO.
9. You have a plant radio.

INITIATING CUE

The Unit 2 NSO directs you to place the standby Unit 2 Division 2 125 VDC Battery Charger 2BB in service IAW LOA-DC-201 starting at Section B.1 step 17.

Contact the Unit 2 NSO when Battery Charger 2BB float voltage is acceptable.

Exelon Nuclear

Job Performance Measure

Local Emergency Start of 1C VP Chiller

JPM Number: P-VP-03

Revision Number: 12

Date: 08/31/2012

Developed By:	Instructor	Date
Validated By:	SME or Instructor	Date
Reviewed By:	Operations Representative	Date
Approved By:	Training Department	Date

SRRS: 3D.105 (when utilized for operator initial or continuing training)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

_____ 1. Task description and number, JPM description and number are identified.

_____ 2. Knowledge and Abilities (K/A) references are included.

_____ 3. Performance location specified. (in-plant, control room, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) are properly identified.

_____ 6. Task standards identified and verified by SME review.

_____ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).

_____ 8. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure _____ Rev: _____
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

Revision Record (Summary)

1. **Revision 07,** Reformatted and minor editorial changes.
2. **Revision 08,** Revised task numbers to reflect current task numbers
   Revised K/A numbers to reflect NUREG 1021 Rev 8
   Revised format to meet NTAFT JLOR03 Rev 2
   Revised to reflect Rev 6 of LGA-VP-01
   Made JPM specific to Unit 1.
   Incorporated comments from TR 98-2238
3. **Revision 09,** Minor corrections. Changed estimated time to complete to 10 minutes based on validation.
4. **Revision 10,** Changed procedure from LGA-VP-01 to LOP-VP-02. Changed the task based on a new task in the operating matrix. Changed estimate completion time based on year 2000 data.
5. **Revision 11,** Added the initiating cue to the examinee's initial conditions.
6. **Revision 12,** Updated to current procedures and templates for ILT 11-1 NRC Exam

Materials

1. The following material is required to be provided to examinee:
   a. One copy of LOP-VP-02 (after demonstrating knowledge of location of controlled copy)
   b. One laser pointer

INITIAL CONDITIONS

- You are an extra NSO.
- Unit _____ scrammed due to high drywell pressure.
- Drywell temperature is 141°F and increasing at approximately 1°F/minute.
- LGA-03 has been entered.
- LGA-VP-01 is in progress and completed up to and including Step C.9.b.
- 1C (2C) VP Chiller had been running prior to the scram on the 1A (2A) VP loop.
- The SAT is supplying all AC buses.
- All support systems are operating as expected.
- Radiological conditions are at or below normal levels.
- You have a plant radio.

INITIATING CUE

The Unit 1 (2) NSO has directed you to perform an emergency restart 1C (2C) VP Chiller IAW LOP-VP-02.

Inform the Unit NSO when 1C (2C) VP Chiller is restarted.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time: _____

STEP (LOP-VP-02)	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment**
1.	Obtain copy of LOP-VP-02	Examinee identifies where copy of LOP-VP-02 can be obtained.	___	___	___
CUE	**After examinee identifies where copy of LOP-VP-02 can be obtained, provide examinee with copy of LOP-VP-02.**				
Note	**The following steps should be performed at 1C (2C) VP Chiller Unit, 1(2)VP01CC at PRIM. CNMT. WATER CHILLER 1VP14S (2VP14S) (U1 AB 786' L-19) (U2 AB 786' L-19).**				
***2.** (E.2.1)	DEPRESS RESET push button	Examinee depresses the RESET pushbutton.	___	___	____
CUE	**The button you identified has been depressed.**				
3. (E.2.1)	VERIFY no alarms except COMPRESSOR LOW OIL DIFFERENTIAL PRESSURE alarm.	Examinee verifies that all alarms except COMPR. LOW OIL DIFFRNT'L PRESS. are clear.	___	___	____
CUE	**Alarm lights are all OFF except for COMPR. LOW OIL DIFFRNT'L PRESS.**				
4. (E.2.2)	VERIFY Chiller Panel TROUBLE alarm power switch in ON position.	Examinee verifies that the Chiller Panel Trouble Alarm power switch in ON.	___	___	____
CUE	**The switch you have identified is in the ON position.**				
5. (E.2.3)	Notify the NSO of pending chiller start.	Examinee notifies the Unit 1 (2) NSO of the pending start of 1 (2) VP01CC, C VP Chiller.	___	___	____
CUE	**As Unit 1 NSO, acknowledge the pending start of 1 (2) VP01CC, C VP Chiller.**				
***6.** (E.2.4)	DEPRESS START pushbutton.	Examinee depresses START pushbutton.	___	___	____
CUE	**The START pushbutton has been depressed.**				

STEP (LOP-VP-02)	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment**
7. (E.2.5.1)	Verify start sequence as follows: Oil pump starts and COMPR OIL PUMP ON indicating light (amber) energized	COMPR OIL PUMP ON indicating light verified energized	___	___	___
CUE	**The oil pump started and the COMPR OIL PUMP ON amber indicating light is energized.**				
8. (E.2.5.2)	Verify start sequence as follows: Chiller Compressor Motor 1 (2) VP14C starts.	Chiller Compressor Motor 1 (2) VP14C verified running	___	___	___
CUE	**The 1 (2) VP14C Compressor Motor Ammeter indication spikes high and then indicates approximately 400 amps.**				
9. (E.2.5.2)	Verify start sequence as follows: COMPR MOTOR ON indicating light (amber) is energized	COMPR MOTOR ON indicating light verified energized	___	___	___
CUE	**The COMPR MOTOR ON amber indicating light is energized.**				
Note	**If the Examinee takes action to verify operating parameters per LOP-VP-02, inform the examinee that operating parameters are per procedure.**				
10.	NOTIFY the Unit 1 (2) NSO that the 1C (2C) VP Chiller has been restarted.	Examinee notifies the Unit 1 (2) NSO that the 1C (2C) VP Chiller has been restarted.	___	___	___

JPM Stop Time: _____

JPM SUMMARY

Operator's Name: _____
Job Title: ☐ EO ☐ RO ☐SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Local start of 1C VP Chiller

JPM Number: P-VP-03 Revision Number: 12

Task Number and Title: 96.006 Given a tripped PCCW chiller, perform an emergency start of that chiller.

K/A Number and Importance: 295028 (High Drywell Temperature) EA1.03 3.9/3.9

Ability to operate and/or monitor the following as they apply to HIGH DRYWELL TEMPERATURE: Drywell Cooling System

Suggested Testing Environment: In-Plant

Alternate Path: ☐Yes ☒No SRO Only: ☐Yes ☒No Time Critical: ☐Yes ☒No

Reference(s): LOP-VP-02 Startup Operation and shutdown of Primary Containment Chilled Water and Ventilation system, Rev 41

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☐ Perform

Estimated Time to Complete: 11 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐Yes ☐No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐Unsatisfactory

Comments: _____

_____

_____

_____

_____

_____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date**: _____

INITIAL CONDITIONS

- You are an extra NSO.
- Unit _____ scrammed due to high drywell pressure.
- Drywell temperature is 141°F and increasing at approximately 1°F/minute.
- LGA-03 has been entered.
- LGA-VP-01 is in progress and completed up to and including Step C.9.b.
- 1C (2C) VP Chiller had been running prior to the scram on the 1A (2A) VP loop.
- The SAT is supplying all AC buses.
- All support systems are operating as expected.
- Radiological conditions are at or below normal levels.
- You have a plant radio.

INITIATING CUE

The Unit 1 (2) NSO has directed you to perform an emergency restart 1C (2C) VP Chiller IAW LOP-VP-02.

Inform the Unit NSO when 1C (2C) VP Chiller is restarted.

Exelon Nuclear

Job Performance Measure

Lineup a Fire Hose To 2A TDRFP for Injection Into The RPV

JPM Number: P-FP-04

Revision Number: 00

Date: 08/31/2012

Developed By:	Instructor	Date
Validated By:	SME or Instructor	Date
Reviewed By:	Operations Representative	Date
Approved By:	Training Department	Date

SRRS: 3D.105 (when utilized for operator initial or continuing training)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

_____ 1. Task description and number, JPM description and number are identified.

_____ 2. Knowledge and Abilities (K/A) references are included.

_____ 3. Performance location specified. (in-plant, control room, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) are properly identified.

_____ 6. Task standards identified and verified by SME review.

_____ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).

_____ 8. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure _____ Rev: _____
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

Revision Record (Summary)

1. **Revision 00,** New JPM based on bank JPM P-FP-03, Rev. 0. Connects FP to the 2A TDRFP rather than the 1A TDRFP. Updated to current template and procedures for ILT 11-1 NRC Exam

SETUP INSTRUCTIONS

1. Be prepared to provide a copy of pages 1-7 and 34-40 of LGA-FP-01, Alternate Vessel Injection Using the Fire Protection System.

INITIAL CONDITIONS

1. A reactor scram has occurred on Unit 2 and all rods are full in.
2. There is no injection into the vessel; Diesel Fire Pumps are the only injection source.
3. The Unit 2 NSO is coordinating LGA-FP-01, “Diesel Fire Pump Makeup to the Reactor”.
4. An Operator has just been assigned to perform the in-plant actions to line up Fire Protection to the MDRFP.
5. The 2B TDRFP is OOS with the pump casing removed.
6. The Unit 2 NSO has verified that all Feedwater System valves are aligned per LGA-FP-01 at control room panels 2PM03J and 2H13-P601.
7. Fire protection header pressure is normal.
8. There is NO fire.
9. The Chemical Feed system is out of service.
10. You have a plant radio.

INITIATING CUE

The Unit 2 NSO directs you to connect the Fire Protection System to the 2A TDRFP IAW LGA-FP-01 Attachment 2A.

Inform the Unit 2 NSO when the alignment is complete.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator’s Use:

UNSAT requires written comments on respective step.
* Denotes CRITICAL step.

Tell examinee he may assume all second verifications and associated paperwork is simulated complete as necessary.

Number any comments in the “Comment Number” column on the following pages. Then annotate that comment in the “Comments” section at the bottom of page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time: _____

STEP (LGA-FP-01 Attachment 2A)	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment Number**
1.	Obtain a copy of LGA-FP-01 and an LGA Support Locker Key	Examinee simulates obtaining procedure and LGA Support Locker Key	____	____	____
CUE:	**Provide examinee with the prepared copy of LGA-FP-01 when he/she describes/demonstrates where to get procedure and Support Locker Key.**				
NOTE:	**The Evaluator will act as Safety Person as required.**				
2.	Obtain equipment from the Main LGA Support Locker	Examinee simulates obtaining equipment from LGA Support Locker (Unit 2 LGA FP-01 Equipment Bag)	____	____	____
CUE:	**You have obtained the equipment you identified.**				
3.	OBTAIN equipment from Local LGA Support Locker	Examinee simulates obtaining equipment from Local LGA Support Locker	____	____	____
CUE:	**You have obtained the equipment you identified.**				
***4.** (1st Line)	Remove fire hose from Hose Station FB451 and install a wye connector	Examinee simulates removing fire hose from Hose Station FB451 and installing a wye connector	____	____	____
CUE:	**The fire hose and wye connector are positioned as you describe.**				
***5.** (2nd Line)	Connect fire station fire hose to one end of wye and run it into 2A TDRFP Room	Examinee simulates connecting fire station fire hose to one end of wye and running it into 2A TDRFP Room			
CUE:	**The fire hose and wye connector are positioned as you describe.**				
NOTE:	**The next step of LGA-FP-01 Attachment 2A is N/A because it performs the same action on the 2B TDRFP, which is out of service per initiating cue.**				
***6.** (4th Line)	(In 2A TDRFP Room) Install wye connector at end of fire hose	Examinee simulates installing wye connector at end of fire hose			

STEP (LGA-FP-01 Attachment 2A)	**ELEMENT**	**STANDARD**	**SAT**	**UNSAT**	**Comment Number**
***7.** (5th Line)	Connect fire hoses to the two ends of this wye connector.	Examinee simulates connecting fire hoses to the two ends of this wye connector			
CUE:	**The Fire hose is connected as you describe**				
***8.** (6th Line)	Install FP to 1" converter on 2FW041A/42A, 2A TDRFP Dsch Line Upstrm/Dwnstr Lo Point Drain	Examinee simulates installing FP to 1" converter on 2FW041A/42A			
CUE:	**The converter is installed as you described.**				
***9.** (7th Line)	Connect one fire hose to 1" converter	Examinee simulates connecting one fire hose to 1" converter			
CUE:	**The Fire hose is connected as you describe**				
***10.** (8th Line)	Install FP to 3/4" converter on 2CB022C, A TDRFP Suct Lo Point Drain Valve	Examinee simulates installing FP to 3/4" converter on 2CB022C			
CUE:	**The converter is installed as you described.**				
***11.** (9th Line)	Connect other fire hose to 3/4" converter	Examinee simulates connecting other fire hose to 3/4" converter			
CUE:	**The Fire hose is connected as you describe**				
12.	Notify Unit 2 NSO that alignment of FP to 2A TDRFP is complete	The Examinee simulates notifying the Unit 2 NSO that alignment of FP to 2A TDRFP is complete	____	____	____
CUE:	**As the Unit 2 NSO, acknowledge the report that FP is aligned to the 2A TDRFP.**				
13.	Complete all required signatures, dates, and times on Attachment 2A	The Examinee completes or simulates completing all required signatures, dates, and times on Attachment 2A			
TERMINATING CUE **The JPM is complete when the Unit 2 NSO is notified.**					

JPM Stop Time: _____

SRRS: 3D.105 (when utilized for operator initial or continuing training)

JPM SUMMARY

Operator's Name: _____
Job Title: ☐ EO ☐ RO ☐SRO ☐ FS ☐ STA/IA ☐ SRO Cert

JPM Title: Lineup a Fire Hose to 2A TDRFP for Injection into the RPV

JPM Number: P-FP-04 Revision Number: 00

Task Number and Title: 414.020
Evaluate plant conditions and control RPV water level using FP

K/A Number and Importance: 295031 (Reactor Low Water Level) EA1.08 3.8/3.9
Ability to operate and/or monitor the following as they apply to REACTOR LOW WATER LEVEL: Alternate Injection Systems

Suggested Testing Environment: In-Plant

Alternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s): LGA-FP-01 Alternate Vessel Injection Using the Fire Protection System, Rev 15

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other

Testing Method: ☐ Simulate ☐ Perform

Estimated Time to Complete: 10 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

_____

_____

_____

_____

_____

_____

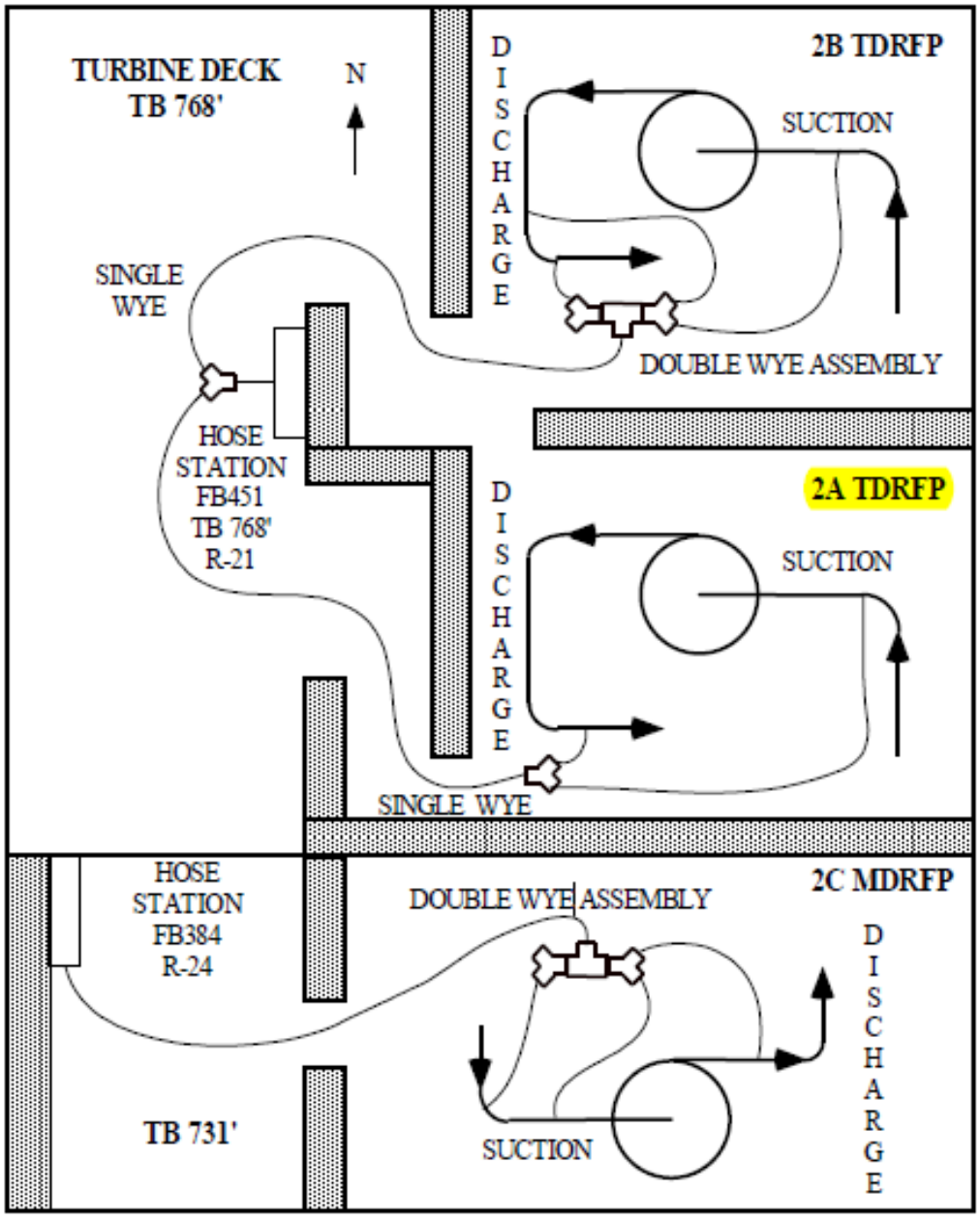
Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date**: _____

KEY

ATTACHMENT 2B

UNIT 2 FIRE HOSE CONNECTION DIAGRAM



INITIAL CONDITIONS

1. A reactor scram has occurred on Unit 2 and all rods are full in.
2. There is no injection into the vessel; Diesel Fire Pumps are the only injection source.
3. The Unit 2 NSO is coordinating LGA-FP-01, “Diesel Fire Pump Makeup to the Reactor”.
4. An Operator has just been assigned to perform the in-plant actions to line up Fire Protection to the MDRFP.
5. The 2B TDRFP is OOS with the pump casing removed.
6. The Unit 2 NSO has verified that all Feedwater System valves are aligned per LGA-FP-01 at control room panels 2PM03J and 2H13-P601.
7. Fire protection header pressure is normal.
8. There is NO fire.
9. The Chemical Feed system is out of service.
10. You have a plant radio.

INITIATING CUE

The Unit 2 NSO directs you to connect the Fire Protection System to the 2A TDRFP IAW LGA-FP-01 Attachment 2A.

Inform the Unit 2 NSO when the alignment is complete.