Facility: GRAND GULF NUCLEAR STATION Examination Level: RO X SRO		Date of Examination: 06/28/2010 Operating Test Number: 6/10		
Administrative Topic (see Note)	Type Code*	Describe activity to be performed		
Conduct of Operations	S; N	Perform 06-OP-1R20-W-0001-02, Attachment II of weekly AC/DC Lineup for ESF 21 Transformer Retest GJPM-OPS-ADMR91.00 K/A 2.1.20: 4.6		
Conduct of Operations	R; N	Review Cooldown Record GJPM-OPS-ADMR92.00 K/A2.1.25: 3.9		
Equipment Control	R; M	Determine Tagging Requirements & Prepare Tagout Tags Sheet for SRV B21-F047L GJPM-OPS-ADMR93.00 K/A 2.2.13: 4.1		
Radiation Control		N/A		
Emergency Procedures/Plan	R; M	Primary Containment Water Level Determination EOP Attachment 29 GJPM-OPS-ADMR94.00 K/A 2.4.21: 4.0		
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.				
* Type Codes & Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1; randomly selected)				

Facility: GRAND GULF NUCLE	AR STATION	Date of Examination: 06/28/2010		
Examination Level: RO	SRO X	Operating Test Number: 6/10		
Administrative Topic (see Note)	Type Code*	Describe activity to be performed		
Conduct of Operations	R; N	Determine Fire Watch Requirements GJPM-OPS-ADMS95.00 K/A 2.1.2: 4.4		
Conduct of Operations	R; M	Determine Plant Safety Index Risk Color with the EOOS Risk Monitor Not Available GJPM-OPS-ADMS96.00 K/A2.1.25: 4.2		
Equipment Control	R; M	Determine LCO Actions and Initiate a Manual LCO Tracking Report GJPM-OPS-ADMS97.00 K/A 2.2.22: 4.7		
Radiation Control	R; M	Determine Protective Action Recommendations GJPM-OPS-ADMS88.00 K/A 2.3.13: 3.8		
Emergency Procedures/Plan	R; M	Determine Entry into Site Emergency Plan and Complete Initial Notification Forms as applicable GJPM-OPS-EAL27.00 K/A 2.4.41: 4.6		
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.				
* Type Codes & Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1; randomly selected)				

Facility: GRAND GULF NUCLEAR STATION Exam Level: RO X SRO-I SRO-U Operating Test No.				
Control Room Systems [®] (8 for RO); (7 for SRO-I);	(2 or 3 for SRO-U,	including 1 ESF)		
System / JPM Title		Type Code*	Safety Function	
a. 201005/201001/295022 Operate CRD System/R Criticality and Commence Reactor Heatup	RCIS to Achieve	S; L; M; A	1	
b. 295030/223001 Raise Suppression Pool Level u	sing HPCS	S; M; A	5	
c. 217000 Restore RCIC to Standby following Stea Isolation	m Supply	S; M	2	
d. 202001 Rapid Restart of Recirc Pump A to Mitigates Stratification	ate Thermal	S; L; M	4	
e. 262001 Align Buses 16AB and 17AC to ESF Tra	nsformer	S; M; A	6	
f. 212000 Transfer RPS B to Normal Power Source Alternate Power Source	e and RPS A to	S; M; A	7	
g. 400000 Align CCW to FPCCU Heat Exchanger A	Ą	S; N; A	8	
h. 21272000 Perform Area Radiation Monitor Functional Test		S; N	9	
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)				
i. 295016 Perform Remote Shutdown Panel Area Actions for Security E; N 7 Code Orange			7	
j. 295015 EP Attachment 22 – Locally Scram Control Rods		R; E; D	1	
k. 295019 Install Nitrogen Bottle on ADS Air Supply		R; E; D	3	
@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.				
* Type Codes Criteria f		for RO / SRO-I / SRO-U		
(A)Iternate path $4-6/4-6/2-3$ (C)ontrol room $\leq 9/\leq 8/\leq 4$ (E)mergency or abnormal in-plant $\geq 1/\geq 1/\geq 1$ (EN)gineered safety feature $-/-/2$ (L)ow-Power / Shutdown $\geq 1/\geq 1/\geq 1$ (N)ew or (M)odified from bank including 1(A) $\geq 2/\geq 2/\geq 1$ (P)revious 2 exams $\leq 3/\leq 3/\leq 2$ (randomly selection)(R)CA $\geq 1/\geq 1/\geq 1$				

·		of Examination: ating Test No.: 6		
Control Room Systems [®] (8 for RO); (7 for SRO-I);	(2 or 3 for SRO-U,	including 1 ESF)		
System / JPM Title		Type Code*	Safety Function	
a. 201005/201001/295022 Operate CRD System/R Criticality and Commence Reactor Heatup	CIS to Achieve	S; L; M; A	1	
b. 295030/223001 Raise Suppression Pool Level u	sing HPCS	S; M; A	5	
c. 217000 Restore RCIC to Standby following Stea Isolation	m Supply	S; M	2	
d. 202001 Rapid Restart of Recirc Pump A to Mitigation	ate Thermal	S; L; M	4	
e. 262001 Align Buses 16AB and 17AC to ESF Tra	ansformer 21	S; M; A	6	
f. 212000 Transfer RPS B to Normal Power Source Alternate Power Source	and RPS A to	S; M; A	7	
g. 400000 Align CCW to FPCCU Heat Exchanger A	Ą	S; N; A	8	
h. N/A				
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2	2 for SRO-U)			
i. 295016 Perform Remote Shutdown Panel Area Actions for Security Code Orange		E; N	7	
j. 295015 EP Attachment 22 – Locally Scram Control Rods		R; E; D	1	
k. 295019 Install Nitrogen Bottle on ADS Air Supply		R; E; D	3	
@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.				
* Type Codes Criteria t		for RO / SRO-I / SRO-U		
(A)Iternate path $4-6/4-6/2-3$ (C)ontrol room $\leq 9/\leq 8/\leq 4$ (E)mergency or abnormal in-plant $\geq 1/\geq 1/\geq 1$ (EN)gineered safety feature $-/-/2$ (L)ow-Power / Shutdown $\geq 1/\geq 1/\geq 1$ (N)ew or (M)odified from bank including 1(A) $\geq 2/\geq 2/\geq 1$ (P)revious 2 exams $\leq 3/\leq 3/\leq 2$ (randomly selections)(R)CA $\geq 1/\geq 1/\geq 1$				

Facility: GRAND GULF NUCLEAR STATION Exam Level: RO SRO-I SRO-U Date of Examination: 06/28/2010 Operating Test No.: BACKUP JPMS					
Control Room Systems [@] (8 for RO); (7 for SRO-I);	(2 or 3 for SRO-U,	including 1 ESF)			
System / JPM Title		Type Code*	Safety Function		
a. 201005 Control Rod Operability Surveillance		S; M; A	1/7		
b. 223002 Isolate Division 2 Valves following Failur	e to Auto Isolate	S; N	5		
c.					
d.					
e.					
f.					
g.					
h.					
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2	? for SRO-U)				
i. 263000 Battery Charger Startup		D	6		
j.					
k.					
All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.					
* Type Codes	Criteria for RO / SRO-I / SRO-U				
(A)Iternate path $4-6/4-6/2-3$ (C)ontrol room $\leq 9/\leq 8/\leq 4$ (E)mergency or abnormal in-plant $\geq 1/\geq 1/\geq 1$ (EN)gineered safety feature $-/-/\geq 1$ (control room something selection of the selection					

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JOB PERFORMANCE MEASURE

Revision: 00 Page: 1 of 1 Rtype:

QA Record	
Number of pages	

Number of pages ______
Date _____ Initials _____

	OPER	RATOR TRAI	NING		
TITLE:					
		W-0001-02, At for ESF 21 Tra		· ·	
New Mater	ial	Levision	ajor Revision	Cancellation	
EASON FOR R HIS DOCUME	<u>EVISION</u> : NT REPLACES:	new JPM NA			
EVIEW / APP	ROVAL (Print Na	me): TEAR App	roval (TEAR #)		
Prepared By:		Kyle Grillis	1:	1/17/09	
		**Preparer		Date	
Ops Review ^{++:}	R	. Thompson	4/2	4/20/2010	
	Technical Review	Technical Reviewer (e.g., SME, line management)		Date	
Validated By:		M. Rasch	3/1	17/2010	
•	Training Representative			Date	
Approved By:					
*Discipline Training Supervisor				Date	
approval Date:*	<u> </u>				
Indicates that the LP ha TQJA-201- DD06, Trai Indicates that Operation	e Training Material Checklist s been reviewed by the Train ning Material Checklist. s has reviewed and approved	ing Supervisor for inclusion of this material for exam use.	Management Expectations a	and items referenced on	
Indexing Information The requirements of the Indicates that the LP ha TQJA-201- DD06, Trai Indicates that Operation	e Training Material Checklist s been reviewed by the Train ning Material Checklist. s has reviewed and approved	ing Supervisor for inclusion of	Management Expectations a	and items referenced on	



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Number: GJPM-OPS-ADMR91

JOB PERFORMANCE MEASURE

Task: Perform 06-OP-1R20-W-0001-02

Setting: Classroom

Type: RO

Task: CRO-R20/27-008

<u>K&A</u>: Generic 2.1.20- 4.6/4.6; 2.1.31: 4.6/4.3

Safety Function: NA; 10CFR55.45a (12)]

Time Required: 15 minutes

Time Critical: No
Faulted: No
Performance: Actual

Reference(s): 06-OP-1R20-W-0001 Plant AC and DC Electrical Power

Distribution Weekly Lineup

Tech Spec 3.8.1

Handout(s): 06-OP-1R20-W-0001 Plant AC and DC Electrical Power

Distribution Weekly Lineup, Attachment II

Manipulations: N/A # Critical Steps: 1 Group: N/A

Simulator Setup/Required Plant Conditions:

- Reset to any IC with the normal electrical distribution alignment
- Insert override ao_1r25r603 at severity 5
- Place a Condition Identification (CI) Tag on 1H13P807 beside bus 11R voltmeter R25R603 stating "Bus 11R potential xfmr 1XRPT1 is damaged, R25R603 reading is inaccurate"

Safety Concerns:

None

THIS IS AN ADMINISTRATIVE JPM.



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Number: GJPM-OPS-ADMR91

JOB PERFORMANCE MEASURE

Initial Condition(s):

- The Plant is at rated power.
- ESF Transformer 21 has just been re-energized and placed into it's normal alignment following maintenance.

Initiating Cue(s):

• You have been directed to perform 06-OP-1R20-W-0001 Attachment II as a retest for ESF Transformer 21. Use the marked-up partial surveillance data package provided.

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Number: GJPM-OPS-ADMR91

JOB PERFORMANCE **MEASURE**

Task: Perform 06-OP-1R20-W-0001-02

Notes:

1. None

Task Overview:

This task is to perform the data collection for the surveillance used to verify the Offsite and On-Site Power sources required to satisfy Surveillance Requirement SR3.8.1.1 in order to restore ESF Transformer 21 operable following maintenance.

Note: Critical steps are underlined, italicized, and denoted by an (*). Sequence is not critical.

□* Record data using 06-OP-1R20-W-0001 Attachment II.

> **Standard:** Candidate records data using 06-OP-1R20-W-0001 Attachment II. The candidate will conduct a breaker lineup verification and use the Voltmeter Selector switches to determine and record phase voltages on buses 11R and 21R and INC VOLTAGE (4160 volts) for the individual bus feeder voltages on pages 2 and 3.

> The candidate should note the CI tag for bus 11R voltmeter, determine those readings cannot be obtained, and make a notation to this effect in the comments section on the surveillance Data Package Cover Sheet, which may be done later when completing the Data Package Cover Sheet. The candidate should determine the bus 11R voltage reading is not required for Tech Spec acceptance criteria in accordance with Note (1) on page 3 of the surveillance data package.

For the 4160V buses, to obtain the INC VOLTAGE they will go to each Incoming Transformer Feeder circuit breaker on H13-P864 and H13-P601 section 16C and select the listed feeder SYNC SWITCH to the ON position to read Incoming Voltage. It is critical that the candidate turns OFF each Sync Switch after taking the appropriate reading before turning the next SYNC switch ON.

Cue: None.

Notes: Refer to evaluator's copy of 06-OP-1R20-W-0001 Attachment II where Critical items are highlighted.

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JOB PERFORMANCE MEASURE

	Completes the surveillance Data Package Cover Sheet.				
	Standard: The operator checks Criteria Acceptable , All Other obtain bus 11R readings), and Cover Sheet. If not done earli- comments section that bus 11E problem listed on the CI Tag. signature, date, time and Tech	r Steps/Data Unaccepta signs and dates Performer, the candidate should R voltage could not be of The critical portions of	med by on the Data Package I make a notation in the obtained due to the equipment This step are the performer's		
	Cue : End of JPM.				
	Notes:		<u> </u>		
Read	<u>x Standard(s)</u> : dings for Surveillance 06-OP-11 umented on the surveillance data been completed by the test perfo	a sheets and the surveill	nt II have been obtained and ance Data Package Cover Sheet		
Nam	ne:	Time Start:	Time Stop:		



ENTERGY NUCLEAR Number: GJPM-OPS-ADMR91

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JOB PERFORMANCE MEASURE

Task: Perform 06-OP-1R20-W-0001-02

Follow-Up Questions & Answers:
Comments
<u>Comments</u> :
•

CONTINUOUS USE

GRAND GULF NUCLEAR STATION

SURVEILLANCE PROCEDURE

X	QA RECORD	
	RT = B6.61	
	NON-QA RECORD	
	INITIALS	
NUM	BER OF PAGES	
DATE		
RELATED DOCUMENT		
NUMBER =		

06-OP-1R20-W-0001	Revision 106
Attachment II	Page 1 of 4

Model WO# 50289936 RTYPE B6.61 XRef

SURVEILLANCE PROCEDURE DATA PACKAGE COVER SHEET SAFETY RELATED

		SA	FEII KELAIED		
Title	e: <u>P</u>	lant AC and DC Electrical Power	Distribution Week	ly Lineup	
Techi	nical	Specifications: SR 3.8.1.1			
1.0	IMPA	CT STATEMENT			
	1.1	Performance of this procedure	has no impact on p	lant operation.	
2.0	PROC	EDURE			
	2.1	Plant Mode is (circle one): 1	2 3		
	2.2	Permission to begin the test _	Shift Superviso	/ r / I	Date
	2.3	Radiation Protection Review	N/A		
		RWP #	N/A		
3.0	TEST	RESULTS			
	3.1	Test Completion: (Check one is Entire procedure completed Tech Spec Acceptance Criteria All other steps/data Acceptabl	n each category.) [] Par Acceptable <mark>[]</mark> Una e [] Una	tial procedure comp cceptable cceptable	pleted [] [] []
	3.2	Inop Electrical Equipment (inc	lude LCO #)		
	3.3	Comments:			
	3.4	Test performed by		Date/Time	/
4.0	DEFI	CIENCIES			
	CR I	ssued #			
	LCO	Entered #	WR I	ssued #	
5.0	APPR	OVAL			
	Tech	Spec Operability Requirements	Acceptable []	Unacceptable []	
	Shif	t Supv./Mgr.		Date	
	Comm	ments:			
	CONC	URRENCE			
	Oper	ations Management		Date	

DATA SHEET I PLANT AC AND DC ELECTRICAL POWER DISTRIBUTION WEEKLY LINEUP SAFETY RELATED

(Step 5.2.2) Div 1, 2 & 3 Offsite Feeders

(Beep 3:2:2)			LIDICC ICCACID				
	OFFSITE	ENERGIZED	VOLTAGE	RECORDED	FREQUENCY	RECORDED	INITIALS
	FEEDER		INDICATOR	VOLTAGE	INDICATOR	FREQUENCY	
		YES/NO	(LOCATION)	(ACCEPTANCE	(LOCATION)	(ACCEPTANCE	
				CRITERIA)		CRITERIA)	
	BAXTER				500 kV FREQ.		
\$	WILSON	*	JACKSON	kV	SR27-SR-R600	Hz	
			DISPATCHER		(H13-P807)		
\$	FRANKLIN	*		(496-525kV)***	or Pine Bluff	(57-61.8Hz)	
					Dispatcher		
			**	x 27.64			
			152-1511	= kV			
	115kV LINE		152-1611	(120.75-			
Ġ	PORT GIBSON	*	152-1704	112.13) kV			

- * To determine status of offsite feeders, contact load dispatcher. Ensure that the feeders are independently energized from the grid, such that the loss of one feeder would not result in the loss of another.
- ** To determine voltage of the Port Gibson 115kV line, record ESF 12 incoming voltage at Bus 15AA, 16AB or 17AC placing the Sync switch for the designated breaker to ON. Multiply this reading by 27.64 for equivalent feeder voltage. Return Sync switch to OFF after taking reading.
- *** Allowable Value of minimum voltage is ≥491 kV for operability of Offsite Feeders. This value is based on analysis of the Class 1E ESF buses and includes an allowance for instrument uncertainty associated with the voltage measurement in the switchyard. Extended operation beyond the normal continuous operating limits should be evaluated and caution should be taken when starting large loads under these conditions.

GRAND GULF NUCLEAR STATION

<u>CONTINUOUS USE</u> SURVEILLANCE PROCEDURE

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PLANT AC AND DC ELECTRICAL POWER DISTRIBUTION WEEKLY LINEUP SAFETY RELATED

						RECORDED	
						VOLTAGE	
	REQUIRED	ACTUAL			INSTRUMENT	ACCEPTANCE	
BREAKER	POSITION	POSITION	INITIALS	COMMENTS	(LOCATION)	CRITERIA	
Service Tr	ansformer 1	1 - Bus 11R	to ESF 15A	A, 16AB & 17AC			
					34.5kV Bus	A-B =	(1)
\$ 552-1105	Closed				11R Volts	B-C =	(1)
					1R25-EI-R603	C-A =	(1)
\$ 552-1104	Closed				(H13-P807-1B)	(31.05-37.95k	∀)
					Bkr 152-1514	*	
					Inc Voltage	(3952-4576)	
					Bkr 152-1601	*	
\$ 152-1901	Closed				Inc Voltage	(3952-4576)	
•					Bkr 152-1706	*	
\$ 152-1902	Closed				Inc Voltage	(3952-4576)	

* <u>Note</u>: For these breakers verify voltage is available to the ESF Bus by placing the Sync switch on 1H13-P864 or 1H13-P601 for the designated breaker to ON and recording incoming voltage. Return Sync switch to OFF after taking reading.

(1) Voltage indication from 1R25-EI-R603 is not required to meet Tech Spec acceptance criteria. Voltage indication is met by acceptable incoming voltage for breakers 152-1514, 152-1601, and 152-1706.

GRAND GULF NUCLEAR STATION

<u>CONTINUOUS USE</u> SURVEILLANCE PROCEDURE

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PLANT AC AND DC ELECTRICAL POWER DISTRIBUTION WEEKLY LINEUP SAFETY RELATED

(Step 5.2.2)

	(Step 5.2	• 4)					
							RECORDED VOLTAGE
		REOUIRED	ACTUAL			INSTRUMENT	ACCEPTANCE
	BREAKER	POSITION	POSITION	INITIALS	COMMENTS	(LOCATION)	CRITERIA
	Service Tr	ansformer 2	1 - Bus 21R	to ESF 15AA,	16AB & 17AC	,	•
						34.5kV Bus	A-B =
							(1)
\$	552-2105	Closed				21R Volt	B-C =
							(1)
						2R25-EI-R603	C-A =
	550 0104	a				(10 -007 4-)	(1)
\$	552-2104	Closed				(H13-P807-4B)	(31.05-37.95kV)
						Bkr 152-1501	
						Inc Voltage	(3952-4576)
	150 0001	Q1 1				Bkr 152-1614	
\$	152-2901	Closed				Inc Voltage	(3952-4576)
Ś	152-2902	Closed				Bkr 152-1705	(3952-4576)
Þ			AA, 16AB & 1	730		Inc Voltage	(3952-4576)
	TID KV LIII	e co ESF IS	AA, IOAB & I	. /AC			1
\$	Ј3885	Closed				N/A	N/A
•						Bkr 152-1511	*
						Inc Voltage	(3952-4576)
						Bkr 152-1611	*
\$	152-1903	Closed				Inc Voltage	(3952-4576)
						Bkr 152-1704	*
\$	152-1904	Closed				Inc Voltage	(3952-4576)

- * <u>Note</u>: For these breakers verify voltage is available to the ESF Bus by placing the Sync switch on 1H13-P864 or 1H13-P601 for the designated breaker to ON and recording incoming voltage. Return Sync switch to OFF after taking reading.
- (1) Voltage indication from 2R25-EI-R603 for Bus 21R is not required to meet Tech Spec acceptance criteria. Voltage indication is met by acceptable incoming voltage for breakers 152-1501, 152-1614, and 152-1705.

	REFERENCE TECHNICAL SPECIFICATION REQUIRED
ACCEPTANCE CRITERIA	ACTION(S) IF ACCEPTANCE CRITERIA NOT MET FOR:
SR 3.8.1.1 - Mode 1, 2, 3 -	LCO 3.8.1 - Condition A, C, D
two of the above circuits between	
the offsite transmission network	
and the onsite Class 1E distribution	
system are Operable; correct breaker	
lineup and power available.	

Perform 06-OP-1R20-W-0001-02

Initial Condition(s):

- The Plant is at rated power.
- ESF Transformer 21 has just been re-energized and placed into it's normal alignment following maintenance.

<u>Initiating Cue(s)</u>:

• You have been directed to perform 06-OP-1R20-W-0001 Attachment II as a retest for ESF Transformer 21. Use the marked-up partial surveillance data package provided.

GRAND GULF NUCLEAR STATION

SURVEILLANCE PROCEDURE

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SURVEILLANCE PROCEDURE DATA PACKAGE COVER SHEET SAFETY RELATED

Title	: <u>Plan</u>	at AC and DC Electrical Power Distribution Weekly Lineup
Tec	hnical	Specifications: SR 3.8.1.1
1.0	<u>IMP</u>	ACT STATEMENT Performance of this procedure has no impact on plant operation. Partial marky Verified M
	1.1	Performance of this procedure has no impact on plant operation.
2.0	PRC	CEDURE
	2.1	Plant Mode is (circle one): 1 2 3
	2.2	Test Start Time// Performer / Date Time
	2.3	Radiation Protection Review RWP # KX/XX/XX
3.0		T RESULTS
	3.1	Test Completion: (Check one in each category.) Entire procedure completed [] Partial procedure completed [] Tech Spec Acceptance Criteria Acceptable [] Unacceptable [] All other steps/data Acceptable [] Unacceptable []
	3.2	Inop Electrical Equipment (include LCO #)
	3.3	Comments: retest for ESF 2115.
	3.4	Test performed byDate/Time/
4.0	DEF	CIENCIES
	CR Is	ssued #
	LCO	Entered # WR Issued #
5.0	APP	ROVAL
	Tech	Spec Operability Requirements
	Shift	Supv./MgrDate
	Comr	ments:
	CON	CURRENCE
	Opera	ations Management

GRAND GULF NUCLEAR STATION

SURVEILLANCE PROCEDURE

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DATA SHEET I PLANT AC AND DC ELECTRICAL POWER DISTRIBUTION WEEKLY LINEUP SAFETY RELATED

(Step 5.2.				Div 1,	2 & 3 Offsite	Feeders
OFFSITE	ENERGIZED	VOLTAGE	RECORDED	FREQUENCY	RECORDED	INITIALS
TEEDER	YES/NO	(LOCATION)	VOLTAGE (ACCEPTANCE	(LOCATION)	FREQUENCY (ACCEPTANCE	
			CRITERIA)		CRITERIA)	
\$ BAXTER WILSON	·NA	JACKSON	NA kv	500 kV FREQ. SR27-SR-R600	NA Hz	NA
\$ FRANKLIN	**	DISPATCHER	(496-525kV)***	(H13-P807) or Pine Bluff Dispatcher	(57-61.8Hz)	The contribution of the co
\$ 115kV LINE PORT GIBSON		152-1511 152-1611 152-1704	x 27.64 = kV (120.75- 112.13) kV			- Caracana and Car

- * To determine status of offsite feeders, **CONTACT** load dispatcher. Ensure that the feeders are independently energized from the grid, such that the loss of one feeder would **NOT** result in the loss of another.
- ** To determine voltage of the Port Gibson 115kV line, record ESF 12 incoming voltage at Bus 15AA, 16AB <u>OR</u> 17AC placing the Sync switch for the designated breaker to ON. **MULTIPLY** this reading by 27.64 for equivalent feeder voltage. **RETURN** Sync switch to OFF after taking reading.
- Allowable Value of minimum voltage is ≥491 kV for operability of Offsite Feeders. This value is based on analysis of the Class 1E ESF buses <u>AND</u> includes an allowance for instrument uncertainty associated with the voltage measurement in the switchyard. Extended operation beyond the normal continuous operating limits <u>Should</u> be evaluated <u>AND</u> caution <u>Should</u> be taken when starting large loads under these conditions.

GRAND GULF NUCLEAR STATION

SURVEILLANCE PROCEDURE

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DATA SHEET I (Continued) PLANT AC AND DC ELECTRICAL POWER DISTRIBUTION WEEKLY LINEUP SAFETY RELATED

		T	T	T			
		1					RECORDED
							VOLTAGE
		REQUIRED	ACTUAL			INSTRUMENT	ACCEPTANCE
	BREAKER	POSITION	POSITION	INITIALS	COMMENTS	(LOCATION)	CRITERIA
	Service Trai	nsformer 11 - E	Bus 11R to ES				OTUTERUA
						34.5kV Bus	A-B = (1)
\$	552-1105	Closed				11R Volts	· · · · · · · · · · · · · · · · · · ·
•		0.0000					B-C =(1)
	=======================================					1R25-EI-R603	C-A =(1)
\$	552-1104	Closed	****			(H13-P807-1B)	(31.05-37.95kV)
						Bkr 152-1514	*
						Inc Voltage	(3952-4576)
						Bkr 152-1601	*
\$	152-1901	Closed				Inc Voltage	(3952-4576)
						Bkr 152-1706	*
\$	152-1902	Closed				Inc Voltage	(3952-4576)

^{*} Note: For these breakers VERIFY voltage is available to the ESF Bus by placing the Sync switch on 1 H13-P864 OR 1H13-P601 for the designated breaker to ON AND RECORDING incoming voltage. RETURN Sync switch to OFF after taking reading.

(1) Voltage indication from 1R25-EI-R603 is <u>NOT</u> required to meet Tech Spec acceptance criteria. Voltage indication is met by acceptable incoming voltage for breakers 152-1514, 152-1601, <u>AND</u> 152-1706. SELECT phase of bus to be monitored by use of the voltage select switch. INSURE voltage select switch is <u>NOT</u> left in OFF.

GRAND GULF NUCLEAR STATION

SURVEILLANCE PROCEDURE

06-OP-1R20-W-0001	Revision XX
Attachment II	Page 4 of 4
Pa	ge
XR	ef

DATA SHEET I (Continued) PLANT AC AND DC ELECTRICAL POWER DISTRIBUTION WEEKLY LINEUP SAFETY RELATED

	(Step 5.2.2	2)					
							RECORDED
		REQUIRED	ACTUAL				VOLTAGE
	BREAKER		ACTUAL	INUTIALO		INSTRUMENT	ACCEPTANCE
	The second secon		POSITION	INITIALS	COMMENTS	(LOCATION)	CRITERIA
	Service Tra	nsformer 21 - E	Sus 21R to ES	F 15AA, 16AB	& 17AC		
	550 0405					34.5kV Bus	A-B =(1)
\$	552-2105	Closed				21R Volt	B-C =(1)
]			2R25-EI-R603	C-A =(1)
\$	552-2104	Closed				(H13-P807-4B)	(31.05-37.95kV)
						Bkr 152-1501	*
					1	Inc Voltage	(3952-4576)
	,					Bkr 152-1614	*
\$	152-2901	Closed				Inc Voltage	(3952-4576)
						Bkr 152-1705	*
\$		Closed				Inc Voltage	(3952-4576)
	115 kV Line	to ESF 15AA,	16AB & 17AC				1 (0002 1010)
	10005		NΑ	× / Δ	A I A		
\$	J3885	Closed	/V/N	NA	NA	N/A	N/A
			Mayora	***	Moderates	Bkr 152-1511	* NAT
ı						Inc Voltage	(3952-4576)
				Water State of the		Bkr 152-1611	*
\$	152-1903	Closed	(parterio)			Inc Voltage	(3952-4576)
			acciones //	/		Bkr 152-1704	* //
\$[152-1904	Closed		J/	V	Inc Voltage	(3952-4576)

- * Note: For these breakers VERIFY voltage is available to the ESF Bus by placing the Sync switch on 1H13-P864 OR 1H13-P601 for the designated breaker to ON AND RECORDING incoming voltage.

 RETURN Sync switch to OFF after taking reading.
- (1) Voltage indication from 2R25-EI-R603 for Bus 21R is <u>not</u> required to meet Tech Spec acceptance criteria. Voltage indication is met by acceptable incoming voltage for breakers 152-1501, 152-1614, <u>AND</u> 152-1705. SELECT phase of bus to be monitored by use of the voltage select switch. INSURE voltage select switch is <u>NOT</u> left in OFF.

ACCEPTANCE CRITERIA SR 3.8.1.1 - Mode 1, 2, 3 - two of the above circuits between the offsite transmission network AND the onsite Class 1E distribution system are Operable; correct breaker lineup AND power available.	REFERENCE TECHNICAL SPECIFICATION REQUIRED ACTION(S) IF ACCEPTANCE CRITERIA NOT MET FOR: LCO 3.8.1 - Condition A, C, D
---	---

Entergy

ENTERGY NUCLEAR

JOB PERFORMANCE MEASURE

Number:	GJPM-OPS-ADMR92
---------	-----------------

Revision: 00 Page: 1 of 1 Rtype:

QA Record	
Number of nages	

Date _____ Initials _____

	OPER	RATOR TRA	INING		
ΓITLE:					
	Revie	w Cooldown	Record		
New Mater	rial Minor R	Revision	Major Revision	☐ Ca	ancellation
REASON FOR R	REVISION: NT REPLACES:	new JPM NA			
REVIEW / APP	ROVAL (Print Na	me): TEAR A _I	proval (TEAR #)	
Prepared By:	**Preparer R. Thompson Technical Reviewer (e.g., SME, line management) M. Rasch			11/17/09 Date 4/20/2010 Date 3/15/2010	
-					
Ops Review ^{++:}					
_					
Validated By:		w. Rascn		O/ 1 O/ E	
Validated By:	Trair	ning Representative		Date	
•	Trair				3
Validated By: Approved By:					
Approved By:		ning Representative		Date	
Approved By: Approval Date: * Indexing Information * The requirements of th Indicates that the LP ha TQJA-201- DD06, Tra		ning Representative ne Training Supervisor t have been met. ing Supervisor for inclusion		Date Date	
* Indexing Information * The requirements of th Indicates that the LP ha TQJA-201- DD06, Tra † Indicates that Operation	*Discipli Training Material Checklist as been reviewed by the Train ining Material Checklist. as has reviewed and approved	ne Training Supervisor thave been met. ing Supervisor for inclusion this material for exam use.	of Management Expectat	Date Date	
* Indexing Information * The requirements of the Indicates that the LP has TQJA-201- DD06, Trath Indicates that Operation FLEET/REGIO Fleet	* Discipli * e Training Material Checklist as been reviewed by the Train ining Material Checklist. as has reviewed and approved NAL PROGRAM ENS ENN	ne Training Supervisor thave been met. ing Supervisor for inclusion this material for exam use. CONCURRENCE Not Applicable	of Management Expectat	Date Date	ms referenced on
Approved By: Approval Date: * Indexing Information * The requirements of th Indicates that the LP ha TQJA-201- DD06, Tra † Indicates that Operation	*Discipli Training Material Checklist as been reviewed by the Train ining Material Checklist. as has reviewed and approved	ne Training Supervisor thave been met. ing Supervisor for inclusion this material for exam use.	of Management Expectat	Date Date tions and iter	



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Number: GJPM-OPS-ADMR92

JOB PERFORMANCE MEASURE

Task: Review Cooldown Record

Setting: Classroom

Type: RO

Task: CRO-ADMIN-007

<u>K&A</u>: Generic 2.1.25: 3.9/4.2; 2.1.23: 4.3/4.4

Safety Function: NA; 10CFR55.45a (12)]

Time Required: 15 minutes

Time Critical: No
Faulted: No
Performance: Actual

Reference(s): 03-1-01-3 Plant Shutdown

Tech Spec 3.4.11 RCS P/T Limits w/ Figure 3.4.11-1 RCS P/T Limit

Curve for the current point in service life

Handout(s): 03-1-01-3 Attachment III with temperature data (ATTACHED)

Technical Specifications

Manipulations: N/A # Critical Steps: 1 Group: N/A

Simulator Setup/Required Plant Conditions:

None

Safety Concerns:

None

THIS IS AN ADMINISTRATIVE JPM.



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Number: GJPM-OPS-ADMR92

JOB PERFORMANCE MEASURE

Initial Condition(s):

- The Plant is in Mode 3.
- Plant cooldown is in progress for a planned shutdown.
- A non-licensed operator has collected cooldown data using 03-1-01-3 Attachment III, but no reviews have been performed yet.

Initiating Cue(s):

• You have been directed to review the cooldown data recorded by the non-licensed operator as the Reactor Operator in accordance with 03-1-01-3 to determine whether any limits have been exceeded.

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ENTERGY NUCLEAR

Revision: 00 Page: 4 of 4

JOB PERFORMANCE **MEASURE**

Number: GJPM-OPS-ADMR92

\mathbf{T}	ask:	Rev	iew	C_{00}	ldow	n Rec	hro
	431		1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11 IXC	

Notes:

1. None

Task Overview:

The candidate will review cooldown data recorded on 03-1-01-3 Attachment III and identify the administrative limit of 90°F has been exceeded.

Note: Critical steps are underlined, italicized, and denoted by an (*).

* Reviews temperature data on 03-1-01-3 Attachment III and determines the Administrative Limit of 90°F has been exceeded.

Standard: The operator determines the hourly temperature change for the data provided on 03-1-01-3 Attachment III page 1 for each parameter. The operator identifies the Administrative Limit of 90°F/hr has been exceeded for R643 Pt. 4, Bottom Drain between time 0800 (385°F) and 0900 (288°F), but the Tech Spec limit of 100°F/hr has not been exceeded. The operator compares the readings for Head Flange Temperature, Shell Flange Temperature and Reactor Pressure against the Minimum Reactor Vessel Metal Temperature vs. Reactor Vessel Pressure curve, TS Figure 3.4.11-1, and determines all temperatures are to the right of curve B and are, thus, within limits.

Cue: none.

Notes: $385^{\circ}F$ minus $288^{\circ}F = 97^{\circ}F$ in one hour



ENTERGY NUCLEAR Number: GJPM-OPS-ADMR92

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JOB PERFORMANCE **MEASURE**

	etes the Reactor Opera 1-3 Attachment III page		cooldown record data sheet,
Limit (• •	Criteria Acceptable , Admin view performed by on 03-1-01-3
Cue:	End of JPM.		
Notes:			
Гask Standa	rd(s):		
Review the	cooldown record data sl	heet for plant shut down he Administrative coold	in accordance with 03-1-01-3 own rate limit has been
Vama.		Time Start.	Time Ston:



ENTERGY NUCLEAR Number: GJPM-OPS-ADMR92

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JOB PERFORMANCE MEASURE

Task: Review Cooldown Record Follow-Up Questions & Answers: **Comments:**

Review Cooldown Record

Initial Condition(s):

- The Plant is in Mode 3.
- Plant cooldown is in progress for a planned shutdown.
- A non-licensed operator has collected cooldown data using 03-1-01-3 Attachment III, but no reviews have been performed yet.

<u>Initiating Cue(s)</u>:

• You have been directed to review the cooldown data recorded by the non-licensed operator as the Reactor Operator in accordance with 03-1-01-3 to determine whether any limits have been exceeded.

INTEGRATED OPERATING INSTRUCTION

03-1-01-3	Revision: XX
Attachment III	Page 1 of 3

DATA SHEET I PLANT SHUTDOWN HEATUP/COOLDOWN DATA SHEETS SAFETY RELATED

Record Every 30 Minutes; Recorder 1B21-R643 suggested for temps, if not available, PDS may be used.

Date		REACT	OR VESSEL	TEMPERATU	JRES		PRESSURE			
6 XX XX	R643 Pt.1	R643 Pt.2 BOTTOM	R643 Pt.3 SHELL	R643 Pt.4 BOTTOM	R643 Pt.5	R643 Pt.6	REACTOR	TEMPS MEET TS CURVE per	INIT	TALS
TIME	HEAD FLANGE	HEAD	FLANGE	DRAIN	RECIRC A SUCT	RECIRC B SUCT	PRESSURE	SR3.4.11.1** Y/N	PERF	VERIF*
_07 30**	429	296	413	412	371	369	180			
08 00**	407	258	390	385	342	341	110			
08 30**	377	240	359	337	313	313	81			
09 00**	348	223	331	288	283	286	49			
09 30**	329	201	313	263	269	271	34			
10 00**	308	175	295	246	250	252	21			
10 30**	290	161	279	230	234	235	12			

^{*}Tech Spec Acceptance Criteria: *Verifier to evaluate every 60-minute segment to ensure H/U, C/D limits (< 100°F/Hr) are not exceeded.

**Every 30 minutes compare head flange temperature, shell flange temperature and reactor pressure to ensure reactor metal temperature vs. reactor pressure is to the right of the curve as required in Tech Spec SR 3.4.11.1.

Tech Spec Acceptance Criteria:	Acceptable []	Unacceptable []	Admin l	Limit Criteria (≤	90°F/HR):	Acceptable []	Unacceptable []
Review performed by			1	1			
	(Reactor Operato	or)	Da	ate	Time		
<u>DEFICIENCIES:</u> CR Issue	ed #		LCO Ente	red #			
APPROVAL: Shift Supv/Mgr					Dat	е	

GRAND GULF NUCLEAR STATION

INTEGRATED OPERATING INSTRUCTION

03-1-01-3	Revision: 117
Attachment III	Page 3 of 3

DATA SHEET II PLANT SHUTDOWN HEATUP/COOLDOWN DATA SHEETS SAFETY RELATED

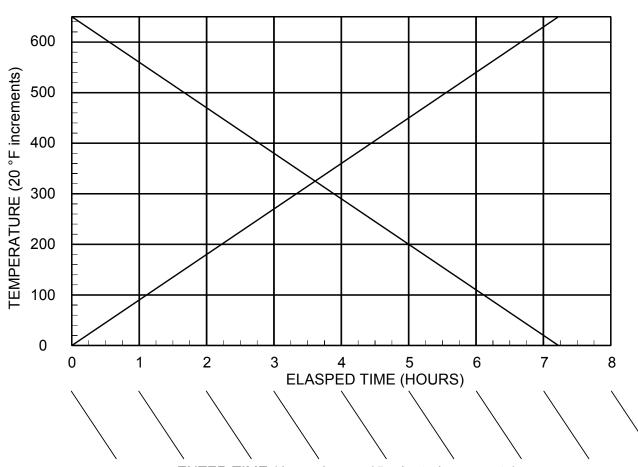
_			
CA	 _	\sim	NI
ι.Δ	 		N
\mathbf{v}			

Exceeding 100°F/hr is a violation of Tech Specs

Check Recorder Point Used:

Recirc A 🛛 Recirc B 🗆 Bottom Head Drain 🗖

Maintain the Heatup or Cooldown Rate less than the slope of the curve. (Administrative limit of 90 degree F/hr.)



ENTER TIME (tic marks are 15 minute increments)

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JOB PERFORMANCE MEASURE

Number:	GJPM-	OPS-	ADM	R93
Number:	GJPM-	OPS-	ADM	R9

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OA	Record	

Number of pages ______ Date _____ Initials _____

TRAINING PROGRA	AM:	
	OPERATOR TRAINING	
TITLE:		
Determine 7	ADMINISTRATIVE JPM Fagging Requirements and Prepare Sheet for SRV B21-F047L	e a Tagout Tags
New Materia	l Minor Revision Major Revisio	n Cancellation
REASON FOR RE		
THIS DOCUMENT	<u>Γ REPLACES</u> : N/A	
REVIEW / APPR	OVAL (Print Name): TEAR Approval (TEAF	R#)
Prepared By:	Kyle Grillis	10/29/09
_	**Preparer	Date
Ops Review ^{++:}	R. Thompson	4/20/2010
_	Technical Reviewer (e.g., SME, line management)	Date
Validated By:	M. Rasch	3/15/2010
Training Representative		Date
Approved By:		
	⁺ Discipline Training Supervisor	Date
Approval Date:*_		

FLEET/REGIONAL PROGRAM CONCURRENCE: Fleet FNS FNN Not Applicable

Fleet	JENS LENN			
DATE TRANSMITTED TO RM	INITIAL RECEIPT BY RM (DATE/INITIAL)	RETURNED FOR CORRECTIONS (DATE/INITIAL)	(DATE/INITIAL)	FINAL ACCEPTANCE BY RM (DATE/INITIALS)

^{*} Indexing Information

^{**} The requirements of the Training Material Checklist have been met.

⁺ Indicates that the LP has been reviewed by the Training Supervisor for inclusion of Management Expectations and items referenced on TQJA-201- DD06, Training Material Checklist.

⁺⁺ Indicates that Operations has reviewed and approved this material for exam use.



Revision: 00

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Page: 2 of 14

JOB PERFORMANCE **MEASURE**

Determine Tagging Requirements and Prepare a Task: Tagout Tags Sheet for SRV B21-F047L

Classroom Setting:

Type: RO

Task: CRO-ADMIN-005 K&A: Generic 2.2.13: 4.1/4.3

Safety Function: NA

Time Required: 45 minutes

Time Critical: No Faulted: No Performance: Actual

Reference(s): EN-OP-102, EN-OP-102-1, Drawings M1077E; E1161-

04,11,12,14,17; E0300 fuse sort page 1, panel sort pages 20; 23

Technical Specifications 3.3.5.1, 3.3.6.5, 3.4.4

Completed Work Impact Statement, partially completed Tagout Handout(s):

> Request Form, completed Tagout Cover Sheet, completed Tagout Tags Sheet, Dwgs M1077E; E1161-01, 04, 11, 12, 14, 17; E0300

Technical Specifications

N/A # Manipulations: # Critical Steps: 1 N/A Group:

Simulator Setup/Required Plant Conditions:

None

Safety Concerns:

None

THIS IS AN ADMINISTRATIVE JPM.



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Number: GJPM-OPS-ADMR93

JOB PERFORMANCE MEASURE

Initial Condition(s):

- The Plant is in Mode 4.
- Electrical Maintenance is to rework the wiring connections for 1B21F505P and 1B21F506P, Pilot Solenoid Valves for SRV 1B21F047L locally, at the SRV.
- The work will require electrical isolation only. The air supply portion of the system will not be breached.
- The next sequential tag serial number is "01".

Initiating Cue(s):

 You have been directed to prepare a Tagout Tags Sheet using Attachment 9.3 of procedure EN-OP-102 for electrical isolation of 1B21F505P and 1B21F506P.
 Use the drawings and forms provided.

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Revision: 00

JOB PERFORMANCE **MEASURE**

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Number: GJPM-OPS-ADMR93

<u>Tas</u>	ask: Determine Taggin Tagout Tags Shee	_	ents and Prepare a 21-F047L
Not	otes:		
1. N	None		
Prepa	ask Overview: epare a tag out in preparation for local 21F505P and 1B21F506P, Pilot Soler	•	C
Note	ote : Critical steps are underlin	ed, italicized,	and denoted by an (*)
*	* COMPLETE Attachment 9.3 of pro- required components and their req sequence and tag type are not critical	uired positions fo	_
	Standard: The operator prepares the an asterisk (*) in the tag serial num critical. Critical Item is must have	ber field. Order	listed on the sheet is NOT
	<u>Cue</u> :		
	Notes: See attached Evaluator	<u>Key</u>	
Corre local	sk Standard(s): brectly prepare a Tagout Tags Sheet (leally reworking the wiring connections alves for SRV 1B21F047L in accordance.	s for 1B21F505P a	and 1B21F506P, Pilot Solenoid
Nam	me:	_Time Start:	Time Stop:



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Number: GJPM-OPS-ADMR93

JOB PERFORMANCE MEASURE

<u>Task</u>: Determine Tagging Requirements and Prepare a Tagout Tags Sheet for SRV B21-F047L

Follow-Up Questions & Answers:
Comments:

DO NOT GIVE THIS PAGE TO THE STUDENT

Entorov	NUCLEAR MANAGEMENT	Non-Quality Related	EN-OP-102-01 REV. 6				
= Entergy	MANUAL	Informational Use	PAGE 7 OF 25				
Protective and Caution Tagging Forms & Checklist							

		Аттасни	ENT 9.3			٦	TAGOUT	TAGS SHEET			
	CLEAF	RANCE:MANUAL		TAGOUT:							
Tag Serial No.	Tag Type	Equipment Equipment Description Equipment Location	Place. Seq.	Placement Configuration	Place. 1st Verif Date/Time	Place. 2nd Verif Date/Time	Rest. Seq.	Restoration Configuration	Rest. 1st Verif Date/Time	Rest. 2nd Verif Date/Time	Placement/R emoval Tag Notes
XXX1	Danger	1B21M605P ADS VALVE 1B21-F047L COA-166-0C504 -1H13P601	1	OFF							
XXX2	Danger	1B21M606P ADS VALVE 1B21-F047L COA-166-0C504 -1H13P631	1	OFF							
*	Danger	1-B21 FUSE -1 B21F11A 1H13-P628 BAY "A" FUSE #21 ON TERMINAL BOARD "D" FOR 1B21F047L (B21CF11A) COA-189	2	REMOVED							
**	Danger	1-B21 FUSE -1 B21F12A 1H13-P628 BAY "A" FUSE #22 ON TERMINAL BOARD "D" FOR 1B21F047L (B21CF12A) COA-189	2	REMOVED							

DO NOT GIVE THIS PAGE TO THE STUDENT

Entergy	NUCLEAR MANAGEMENT MANUAL	Non-Quality Related	EN-OP-102-01	REV. 6					
		Informational Use	PAGE 7 OF 25						
Protective and Caution Tagging Forms & Checklist									

ATTACHMENT 9.3				TAGOUT TAGS SHEET							
	CLEAF	RANCE:MANUAL		TAGOUT:							
Tag Serial No.	Tag Type	Equipment Equipment Description Equipment Location	Place. Seq.	Placement Configuration	Place. 1st Verif Date/Time	Place. 2nd Verif Date/Time	Rest. Seq.	Restoration Configuration	Rest. 1st Verif Date/Time	Rest. 2nd Verif Date/Time	Placement/R emoval Tag Notes
*	Danger	1-B21 FUSE -1 B21F11B 1H13-P631BAY "A" FUSE #21 ON TERMINAL BOARD "D" FOR 1B21F047L (B21CF11B) COA-166	2	REMOVED							
XXX6 *	Danger	1-B21 FUSE -1 B21F12B 1H13-P631 BAY "A" FUSE #22 ON TERMINAL BOARD "D" FOR 1B21F047L (B21CF12B) COA-166	2	REMOVED							

Determine Tagging Requirements and Prepare a Tagout Tags Sheet for SRV B21-F047L

Give this page to the student

Initial Condition(s):

- The Plant is in Mode 4.
- Electrical Maintenance is to rework the wiring connections for 1B21F505P and 1B21F506P, Pilot Solenoid Valves for SRV 1B21F047L locally, at the SRV.
- The work will require electrical isolation only. The air supply portion of the system will not be breached.
- The next sequential tag serial number is "01".

<u>Initiating Cue(s)</u>:

• You have been directed to prepare a Tagout Tags Sheet using Attachment 9.3 of procedure EN-OP-102 for electrical isolation of 1B21F505P and 1B21F506P. Use the drawings and forms provided.

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E ntergy	NUCLEAR	Non-Quality Related	EN-OP-102-01	REV. XX		
	MANAGEMENT MANUAL	INFORMATIONAL USE PAGE 6 C		5 OF 25		
Protective and Caution Tagging Forms & Checklist						

ATTACHMENT 9.2	TAGOUT COVER SHEET
Clearance:MANUAL	Tagout:
Component to be worked:	B21-F505P, B21-F506P B21-F047L Solenoid Valves DRYWELL 166'
	E 1B21F047L IN ORDER TO REWORK WIRING NOID VALVES 1B21F505P AND 1B21F506P
	noid valves for SRV 1B21F047L. -01, 04, 11, 12, 14, 17; E0300 fuse sort page 1, panel sort pages 20; 23
Hazards: NONE	
Restoration Inst: Post-maintenance testing and	d recovery method required; SRV "click test".

Attribute Description	Attribute Value
High Energy System Concerns	NO
Tech Spec Impact? Enter EOS# or None	NONE IN MODE 4/5
Compensatory Actions Req?	NO
Locked Components?	NO
Fire Protection Impairment?	NO
Equip Drain / Vent rig required?	NO
Scaffold Required?	NO
Is an LCO start time required?	NO
Tech Spec Impact on System Restoration?	NO
Component Deviation Required?	NO
50.59 Screening Attached	N/A
Crew Assigned Walk down	Yes
Walk down complete?	
Reason this tag was created?	Scheduled work
Tagout prepare issues:	No issues

Work Order Number	Description
XXXXXX	REWORK WIRING CONNECTIONS AT SOLENOID VALVES 1B21F505P AND 1B21F506P

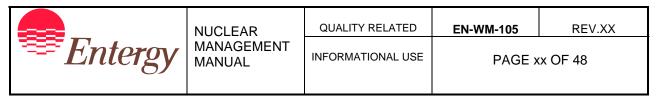
Status	Description	User	Verification Date
Prepared	Prepared		
Technical Reviewed	Reviewed		
Approved	Approved		
Tags Verified Hung	Tags Verified Hung		
Removal Approved	Removal Approved		
Tags Verified Removed	Tags Verified Removed		

Entergy	NUCLEAR MANAGEMENT	Non-Quality Related	EN-OP-102-01	REV. XX	
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Protective and Caution Tagging Forms & Checklist					

		ATTACH	MENT 9.3			1	AGOUT	TAGS SHEET			
	CLEAF	RANCE:MANUAL		TAGOUT:							
Tag Serial No.	Tag Type	Equipment Equipment Description Equipment Location	Place. Seq.	Placement Configuration	Place. 1st Verif Date/Time	Place. 2nd Verif Date/Time	Rest. Seq.	Restoration Configuration	Rest. 1st Verif Date/Time	Rest. 2nd Verif Date/Time	Placement/R emoval Tag Notes

Entergy	NUCLEAR MANAGEMENT	Non-Quality Related	EN-OP-102-01	REV. XX	
	MANUAL	INFORMATIONAL USE	PAGE 7 OF 25		
Protective and Caution Tagging Forms & Checklist					

		ATTACH	MENT 9.3		TAGOUT TAGS SHEET						
	CLEAF	RANCE:MANUAL		TAGOUT:							
Tag Serial No.	Tag Type	Equipment Equipment Description Equipment Location	Place. Seq.	Placement Configuration	Place. 1st Verif Date/Time	Place. 2nd Verif Date/Time	Rest. Seq.	Restoration Configuration	Rest. 1st Verif Date/Time	Rest. 2nd Verif Date/Time	Placement/R emoval Tag Notes



		IMPACT TEMP	ΙΔΤΕ
		INII ACT TENII	
		1	
 E	REVIEW	ER DAT	E
TIONS AT SOLEN	OID VALVES 1B2	21F505P AND	
SV (X)OOSV	() AVAILABL	E	
321F505P and 1B21F5	06P must be electric	ally isolated.	
TEM AND COMPONE	NTS:		
e of being opened elect	rically, either manua	lly or automatically.	
:			
S:			
FENTIAL TO SCRAM/TRI	P THE PI ΔΝΤ·	() YES (X) NO	
WELOT E BARRIER BR	LAOII.		
CTED (IF YES LIST ON A	ATTACHED SHEET\		
	TIONS AT SOLENG SV (X)OOSV 321F505P and 1B21F5 FEM AND COMPONEN e of being opened elect : S: FENTIAL TO SCRAM/TRI NVELOPE BARRIER BRI	TIONS AT SOLENOID VALVES 1B2 SV (X)OOSV () AVAILABLE 321F505P and 1B21F506P must be electricated and Components: e of being opened electrically, either manuals: S: ENTIAL TO SCRAM/TRIP THE PLANT: NVELOPE BARRIER BREACH:	TIONS AT SOLENOID VALVES 1B21F505P AND SV (X)OOSV () AVAILABLE 321F505P and 1B21F506P must be electrically isolated. TEM AND COMPONENTS: e of being opened electrically, either manually or automatically. : S: TENTIAL TO SCRAM/TRIP THE PLANT: () YES (X) NO

	NUCLEAR	QUALITY RELATED	EN-WM-105	REV.XX
**Entergy	MANAGEMENT MANUAL	INFORMATIONAL USE	PAGE xx OF XX	

ATTACHMENT 9	0.3	OPERATIONAL IMPA	CT TEMPLATE
Sheet 1 of 1			
OPERATIONAL IN	<u>IIPACT</u>		
			/
SRO	DATE	REVIEWER	DATE
TECHNICAL SPEC	CIFICATIONS:		
NONE IN MODE 4	OR 5		
LIMITING CONDIT	TIONS FOR OPERATIONS:		
NONE IN MODE 4	OR 5		
REACTIVITY IMPA	ACT (REQUIRED):		
NONE			
POTENTIAL SYST	TEM/COMPONENT EFFECTS	: :	

This work only affects capability of one SRV, 1B21F047L.

ACTUAL OR POTENTIAL MEASURE OR CONTINGENCY ACTION REQUIRED:

At least two SRVs must be operable in Mode 4 and in Mode 5 until the RPV head is removed.

Ozit tizza stige t	<u> </u>						
Entergy	NUCLEAR	Non-Quality Related	EN-OP-102-01	REV. XX			
	MANAGEMENT MANUAL	INFORMATIONAL USE	PAGE 14 OF 25				
Protective and Caution Tagging Forms & Checklist							

A					
ATT	ACHMENT 9.10			<u> </u>	AGOUT REQUEST
	Tagout Request Ins	tructions			
	e/condition and shou	•		stailed information on the value of the valu	
	Work Order #	Task #	Mark#	Requester	Ext. / Pager
	XXXXXX	1		Smith	555
•	Provide a detaile drawing numbers	-	on of the mainte	nance activity and the re	eference
				ENOID VALVES 1B21F50 ; E0300 fuse sort pg 1, pan	
•	If known, provide required prot		s Clearance/Tag	out number which provi	des the
المائد ،	systems:				
	Yes Air-	No	Back Seat MOV	Open Closed	
F	luid Components T Isolation Valves (A		<u>.</u>)
	Drain/Vent Valves	:			
	Special Instruction Need sole		electrically isolate	ed	
E	lectrical Compone	nts To Be T Yes	agged and Requ	iired Position: No	
	Control Switches: Breakers:	⊠ □ □ Tag	on Breaker	☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐)oor
	Fuses/Leads to P	ulled/Lifted:			
	Grounds/Ground I	_ocations:			
	Special Instruction	ue.			

Click test required for retest.

ENTERGY NUCLEAR

JOB PERFORMANCE MEASURE

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OPERATOR TRAINING							
TTLE:							
Prima	ry Containment Wa EOP Attac		nination				
New Material	☐ Minor Revision	Major Revision	Cancellation				
EASON FOR REV	VISION: new JPM						
HIS DOCUMENT	REPLACES: NA	EAD Assurance 1 /TEAD #	,				
EVIEW / APPRO	REPLACES: NA OVAL (Print Name): THE		,				
	REPLACES: NA) 11/9/09 Date				
EVIEW / APPRO	NA OVAL (Print Name): The Kyle Grillist **Preparer	s	11/9/09				
EVIEW / APPRO	REPLACES: NA OVAL (Print Name): THE Kyle Grillis	s on	11/9/09 Date				
EVIEW / APPROPRICE Prepared By: Ops Review ++:	PREPLACES: NA OVAL (Print Name): The Kyle Grillist **Preparer R. Thompson	on line management)	11/9/09 Date 4/20/2010				
EVIEW / APPRO	PREPLACES: NA OVAL (Print Name): The Kyle Grillist **Preparer R. Thompson Technical Reviewer (e.g., SME,	on line management)	11/9/09 Date 4/20/2010 Date				
EVIEW / APPROPRICE Prepared By: Ops Review ++	PREPLACES: NA OVAL (Print Name): The Kyle Grillist **Preparer R. Thompson Technical Reviewer (e.g., SME, M. Rasch	Dine management) tative	11/9/09 Date 4/20/2010 Date 3/15/2010				

FLEET/REGIONAL PROGRAM CONCURRENCE:

DATE TRANSMITTED TO RM	INITIAL RECEIPT BY RM (DATE/INITIAL)	RETURNED FOR CORRECTIONS (DATE/INITIAL)	RETURN RECEIPT (DATE/INITIAL)	FINAL ACCEPTANCE BY RM (DATE/INITIALS)
TO RM	(DATE/INITIAL)	(DATE/INITIAL)		(DATE/INITIALS)

⁺ Indicates that the LP has been reviewed by the Training Supervisor for inclusion of Management Expectations and items referenced on TQJA-201- DD06, Training Material Checklist.

⁺⁺ Indicates that Operations has reviewed and approved this material for exam use.



ENTERGY NUCLEAR Number: GJPM-OPS-ADMR94

Revision: 0 Page: 2 of 2

JOB PERFORMANCE MEASURE

Task: Primary Containment Water Level Determination

Setting: Classroom

Type: RO

Task: CRO-EP-029

K&A: 295029 EA2.01: 3.9/3.9; EA2.03: 3.4/3.5; Generic 2.4.21: 4.0/4.6;

2.1.25: 3.9/4.2; 2.1.20: 4.6/4.6

Safety Function: Containment Integrity [10CFR55.45a (4)]

Time Required: 15 minutes

Time Critical: No
Faulted: No
Performance: Actual

Reference(s): 05-S-01-EP-1, Attachment 29

Handout(s): None# Manipulations: N/A# Critical Steps: 4Group: N/A

Simulator Setup/Required Plant Conditions:

None

Safety Concerns:

None

THIS IS AN ADMINISTRATIVE JPM.

Initial Condition(s):

- A LOCA has occurred.
- Suppression Pool water level indication is offscale high.
- RCIC is shut down with suction aligned to the Suppression Pool.

Initiating Cue(s):

- Determine Primary Containment water level IAW EP Attachment 29.
- Use the attached images for current plant indications.



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Number: GJPM-OPS-ADMR94

JOB PERFORMANCE MEASURE

Task: Primary Containment Water Level Determination

Notes:

1. None

Task Overview:

Using EP Attachment 29 and the attached images to obtain RCIC Suction Pressure and Containment Pressure, determine Primary Containment Water Level from the Delta Pressure to Ctmt Level Conversion Table, EP Attachment 29 Table 1.



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JOB PERFORMANCE **MEASURE**

Task: Primary Containment Water Level Determination

Tas	ks : Critical steps are underlined, italicized, and denoted by an (*)
_*	DETERMINES RCIC Pump Suction Pressure indicated on E51-R604 is 15 psig.
	Standard: The operator determines RCIC Pump Suction Pressure indicated on E51-R604 from image 1 is 15 psig and records it on EP Attachment 29 step 2.4.
	<u>Cue</u> : none.
	Notes:
_*	DETERMINES Containment Pressure indicated on SPDS is 2.2 psig.
	Standard: The operator determines Containment Pressure indicated on the SPDS display from image 2 is 2.2 psig and records it on EP Attachment 29 step 2.5.
	<u>Cue</u> : none.
	Notes:
_*	<u>DETERMINES Delta Pressure to be 12.8 psig by subtracting Containment Pressure from RCIC Pump Suction Pressure.</u>
	Standard: The operator determines Delta Pressure to be 12.8 psig by subtracting Containment Pressure recorded in step 2.5 from RCIC Pump Suction Pressure recorded in step 2.4 and records it in step 2.6.
	<u>Cue</u> : none.
	Notes:



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Time Stop: _____

JOB PERFORMANCE MEASURE

DETERMINES Primary Containment water level to be 35.5 feet.

 Standard: The operator determines Primary Containment water level using EP Attachment 29 Table 1 by moving down the Delta Pressure whole number column to 12 and then to the right to the 0.8, Tenths of Pound Delta Pressure column, which lists Containment Level as 35.5 feet.

 Cue: End of task.

 Notes: EP Attachment 29 provides the following example:

 IF delta pressure obtained in Step 2.6 was 14.2 psig, THEN determine CTMT level by going down the left hand column to 14 and then across to the 0.2 column. This example results in containment level of 38.8 ft.

 Task Standard(s):

Determine Containment Water level using Containment pressure and RCIC Suction pressure and 05-S-01-EP-1 Attachment 29.

Name: Time Start:



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JOB PERFORMANCE MEASURE

Task: Primary Containment Water Level Determination

Follow-Up Questions & Ar	nswers:		
Comments:			

Primary Containment Water Level Determination

Give this page to the student

Initial Condition(s):

- A LOCA has occurred.
- Suppression Pool water level indication is offscale high.
- RCIC is shut down with suction aligned to the Suppression Pool.

Initiating Cue(s):

Determine Primary Containment water level IAW EP Attachment 29.

Use the attached images for current plant indications.

HDOL																+0 GPM	AD GPM SIES
нст		RPVST	CSIPL	9	PSP												100
REACTOR POWER	+0.0 %	HYDROGEN CONC	NOT HIGH	EFFLUENT RAD DATA	AVAILABLE										ć	KHK A RHR B	RHRC
-		Í	_		A										CINCIN CO.	+0.0 MLB/HR	+0 GPM
EP-2A ATWS	+0 RODS	SUPP POOL LEVEL	+25.50 FT	AREA WATER LEVEL	NOT HIHI											FWB	HPCS
SCRAM STATUS	SCRAM	DRYWELL PRESSURE	+5.49 PSIG	AREA RAD	NOT HIGH	4			CONTAINMENT	+99 F	+2.20 PSIG	+0.0 %H2	+1.0 R/HR		SUPP POOL	+112 F	+25.50 FT
DRYWELL PRESSURE	+5.49 PSIG	CTMT	+99 F	HVAC EXH RAD LEVEL	NOT HIHI						<u> </u>			M	ns T	T	7-
RPV PRESSURE	+8.2 PSIG	DRYWELL	+224 F	AREA	NOT HIGH				DRYWELL	+224 F	+5.49 PSIG	+0.0 %H2	+3.3 R/HR				
RPV NR LEVEL	-15.0 IN	SUPP POOL TEMP	+112 F	FHA DIFF PRESSURE	NOT HIGH		RPV PRESS	+8.2 PSIG	-15.0 IN	+60.0 IN	FZ LEVEL	-17.4 IN	RX PWR	+0.0%	+0 RODS	WITHDRAWN	
EP-2		EP-3		EP-4			RP	8	NR NR	WR +6	24 24			Prove		IM	REFRESH SPDS

Image 2 – 1H13P601– Give this page to the student SOE FLOW E51-R606 DISCH FLO 800 000 RCIC PMP DISCH PRESS 120 E51-R601 SUCT PRESS E51-R604 80 9 20 EXH PRESS E51-R603 100 80 09 RCIC TURB E51-R605 SPEED 5000 _0009 SUPP STM PRESS E51-R602 90 9



JOB PERFORMANCE MEASURE

Nur	nb	er:	GJPM-OPS-ADMS88
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QA Record

Number of pages _____ Date _____ Initials _

TRAINING PROGI	RAM:				
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*LESSON PLAN T	TTLE:				
De	termine Prote	ctive Action R	ecommendation	1	
⊠ New	Material M	inor Revision	Major Revision	Cancellation	
REASON FOR R THIS DOCUME		new JPM NA			
REVIEW / APP	ROVAL (Print Na	me): TEAR App	roval (TEAR #)		
Prepared By:	ŀ	Kyle Grillis	11/1	7/09	
		**Preparer	Da	te	
Ops Review ^{++:}	R.	Thompson	4/20/2010		
•		er (e.g., SME, line manag			
Validated By:		M. Rasch	3/19/	2010	
·	Train	ing Representative	Da	te	
Approved By:					
	†Disciplin	ne Training Supervisor	Da	te	
Approval Date:	*				
 Indicates that the LP has Training Material Check 		ng Supervisor for inclusion of	Management Expectations and i	tems referenced on TQJA-201- DE	
	NAL PROGRAM (
Fleet	ENS ENN	Not Applicable	_		
DATE	INITIAL RECEIPT	RETURNED FOR	RETURN RECEIPT	FINAL ACCEPTANCE	
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GRAND GULF NUCLEAR STATION

Number: GJPM-OPS-ADMS88

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JOB PERFORMANCE MEASURE

Task: Determine Protective Action Recommendation

<u>Setting</u>: Classroom

<u>Type</u>: SRO

<u>Task</u>: SRO-A& E-041

<u>K&A</u>: Generic 2.3.13: 3.8; 2.4.29: 4.0; 2.4.40: 4.5; 2.4.44: 4.4

<u>Safety Function</u>: Administrative Time Required: 15 minutes

<u>Time Critical</u>: No No Performance: Perform

<u>Reference(s)</u>: 10-S-01-1, Activation of the Emergency Plan (Section 6.1.6k)

10-S-01-12, Radiological Assessment and Protective Action Recommendations

(Section 6.2)

Handout(s): 10-S-01-1, Activation of the Emergency Plan

10-S-01-12, Radiological Assessment and Protective Action Recommendations 2-mile Emergency Planning Zone Map (a copy is located at Shift Manager's desk

in the simulator)

Manipulations: N/A # Critical Steps: 1 Group #: N/A

Simulator Setup/Required Plant Conditions: None.

Safety Concerns: None.

Equipment Needed: None.

THIS IS AN ADMINISTRATIVE JPM.

GJPM-SRO-A&E45.00 Page 2 of 7

GRAND GULF NUCLEAR STATION

Number: GJPM-OPS-ADMS88

Revision: 00 Page: 3 of 7

JOB PERFORMANCE MEASURE

Initial Condition(s):

- The Emergency Plan has been entered and a General Emergency declared.
- An uncontrolled offsite radioactive release is occurring.
- The On-Shift Chemist has performed Dose Calculations and projected the following exposures:

Site Boundary

- 1.5 Rem TEDE
- 7.5 Rem CDE Thyroid

5 Miles from the plant

- 0.2 Rem TEDE
- 5.1 Rem CDE Thyroid

10 Miles from the plant

- 0.03 Rem TEDE
- 0.12 Rem CDE Thyroid
- Wind direction is from 225 degrees to 45 degrees.
- NO abnormal weather conditions exist.

Initiating Cue(s):

- You are the Emergency Director.
- Determine the Protective Action Recommendations, if any, to be made to State and Local Agencies for the offsite public, identifying the affected downwind sectors.

GJPM-SRO-A&E45.00 Page 3 of 7



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JOB PERFORMANCE MEASURE

Task: Determine Protective Action Recommendation

Notes

1. This is an Administrative Job Performance Measure.

<u>Task Overview:</u> This task is to determine based on plant conditions during an emergency the recommendations for protective measures for offsite persons and emergency response personnel. This will involve understanding of radiological conditions and applying the Emergency Plan Procedures to the situation and determining protective actions.

<u>Tasks</u>: Critical steps are underlined, italicized, and denoted by (*).

□* <u>Using 10-S-01-1 section 6.1.4k **OR** 10-S-01-12 section 6.2, make a Protective Action</u> Recommendation for the State and Local Agencies based on radiological conditions.

Standard: Candidate uses references to determine the **EXTENDED PAR** is applicable, which requires evacuating 2 miles All Sectors and 10 miles Downwind Sectors (B, C, D) and Shelter the remainder of the 10 mile Emergency Planning Zone. Additionally a recommendation to consider use of Potassium Iodide in accordance with State Plans should be made. The affected sectors are **B**, **C**, **D**. The Ad Hoc PAR should not be made since dose projections at 10 miles are well below the Ad Hoc limit.

Cue: None

Notes: If needed use a followup question to determine the Down Wind Sectors.

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JOB PERFORMANCE MEASURE

Task Standard(s): Recommends EXTENDED PAR : evacuation of all sectors within a 2-mile radius, evacuation of sector B , C , D within a 10-mile radius, and use of Potassium Iodide in accordance with State Plans in accordance with 10-S-01-1 and 10-S-01-12.								
Name:	Time Start:	Time Stop:						



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JOB PERFORMANCE MEASURE

Task: Determine Protective Action Recommendation

ollow-Up Questions & Answers:	
omments:	

Determine Protective Action Recommendation

Initial Condition(s):

- The Emergency Plan has been entered and a General Emergency declared.
- An uncontrolled offsite radioactive release is occurring.
- The On-Shift Chemist has performed Dose Calculations and projected the following exposures:

Site Boundary

- 1.5 Rem TEDE
- 7.5 Rem CDE Thyroid

5 Miles from the plant

- 0.2 Rem TEDE
- 5.1 Rem CDE Thyroid

10 Miles from the plant

- 0.03 Rem TEDE
- 0.12 Rem CDE Thyroid
- Wind direction is from 225 degrees to 45 degrees.
- NO abnormal weather conditions exist.

<u>Initiating Cue(s)</u>:

- You are the Emergency Director.
- Determine the Protective Action Recommendations, if any, to be made to State and Local Agencies for the offsite public, identifying the affected downwind sectors.

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JOB PERFORMANCE MEASURE

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OPERATOR TRAINING			
TLE:			
Determine Fire Watch Requirements			
New Materia	l Minor Revision Major Revision	Cancellation	
EASON FOR RE			
REVIEW / APPR	OVAL (Print Name): TEAR Approval (TEAR	#)	
Prepared By:	Kyle Grillis	11/17/09	
· · ·	**Preparer	Date	
Ops Review ^{++:}	R. Thompson	4/20/2010	
-	Technical Reviewer (e.g., SME, line management)	Date	
Validated By:	M. Rasch	3/19/2010	
. -	Training Representative	Date	
Approved By:			
ipproved by:	⁺ Discipline Training Supervisor	Date	
Approval Date:*			

Fleet	ENS ENN			
TRANSMITTED	INITIAL RECEIPT BY RM (DATE/INITIAL)	RETURNED FOR CORRECTIONS (DATE/INITIAL)	RETURN RECEIPT (DATE/INITIAL)	FINAL ACCEPTANCE BY RM (DATE/INITIALS)



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Number: GJPM-OPS-ADMS95

JOB PERFORMANCE MEASURE

Task: Determine Fire Watch Requirements

<u>Setting</u>: Classroom

Type: SRO

Task: SRO-NO-035

<u>K&A</u>: Generic 2.1.2: 4.4; 2.1.8: 4.1; 2.2.22: 4.7;2.1.25: 4.2; 2.4.25: 3.7

Safety Function: N/A [10CFR55.45a (12)]

Time Required: 20 minutes

Time Critical: No
Faulted: No
Performance: Actual

Reference(s): 02-S-01-17, Control of Limiting Conditions for Operation

06-OP-SP64-D-0044 Daily Fire Door Checks TRM 6.2.1, Fire Detection Instrumentation

TRM 6.2.8, Fire Rated Assemblies

Fire Watch Maps

UFSAR App. 9A, Fire Hazards Analysis

E-1800

<u>Handout(s)</u>: Copy of Tech Specs/TRM

02-S-01-17, Control of Limiting Conditions for Operation

06-OP-SP64-D-0044 Daily Fire Door Checks

02-S-01-27, Operations Philosophy (to show door 1A213 is not a HELB

door)

Fire Watch Map for Auxiliary Bldg 119' elevation. (ATTACHED)

UFSAR App. 9A, Fire Hazards Analysis for room 1A220 (ATTACHED)

E-1800

Manipulations: N/A # Critical Steps: 3 Group: N/A

Simulator Setup/Required Plant Conditions:

None

Safety Concerns:

None

THIS IS AN ADMINISTRATIVE JPM.



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JOB PERFORMANCE MEASURE

Initial Condition(s):

- The plant is at rated power.
- Painters are working in under an approved work order and have requested to block open door 1A213 for work in Piping Penetration Room 1A220 in Area 9/10, Elevation 119'.
- A smoke detector in room 1A220 will be covered, P65N528E.
- All other fire protection related equipment and structures are operable.

<u>Initiating Cue(s)</u>:

- Determine the Fire Watch requirements associated with this work.
- Use the references provided.



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Number: GJPM-OPS-ADMS95

JOB PERFORMANCE MEASURE

Task: Determine Fire Watch Requirements

Notes:

1. None

Task Overview:

The student will use references to determine TRM LCO requirements for inoperable required fire detection instrumentation and an inoperable fire rated assembly.



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JOB PERFORMANCE MEASURE

Task: Determine Fire Watch Requirements

Sequence is not critical.
<u>Determines Fire Detection Instrumentation required by TRM 6.2.1 will be inoperable</u>
Standard: Candidate uses provided references to identify the smoke detector to be covered in room 1A220 is for fire detection zone 2-3 and is required operable by TRM 6.2.1 as listed in TRM Table 6.2.1-1 C.2. Candidate determines entry into TRM 6.2.1 Condition A, Action A.1 is required for the work.
<u>Cue</u> : none
Notes:
<u>Determines door1A213 is a Fire Rated Assembly required by TRM 6.2.8 and will be inoperable.</u>
Standard: Candidate uses provided references to identify the door to be blocked open required operable by TRM 6.2.8. Candidate determines entry into TRM 6.2.8 Conditi A is required for the work.
Cue: none
Notes:

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Time Stop: _____

JOB PERFORMANCE MEASURE

*	Determines appropriate action for the combination of Fire Detection Instrumentation and Fire Rated Assembly inoperable is to establish an hourly fire watch patrol to inspect room 1A220.
	Standard: Candidate determines fire detection instrumentation on at least one side of door 1A213 is operable, zone 2-2, per TRM Action A.2.1. Candidate determines establishing an hourly fire watch patrol to inspect room 1A220 is required to meet TRM 6.2.1 Action A.1 and that this will meet the requirement to establish an hourly fire watch patrol to inspect at least one side of door 1A213 per TRM 6.2.8 Action A.2.2. Candidate identifies he would establish an hourly fire watch patrol to inspect room 1A219.
NO	TE : Though for TRM 6.2.8 Condition A, either Action A.1 (continuous firewatch) <u>OR</u> Actions A.2.1 and A.2.2 (verifying fire detection on one side of door 1A213 and an hourly firewatch) will satisfy TRM actions, selection of an hourly firewatch patrol versus a continuous firewatch is Operations preference to accommodate staffing conditions.
	1A222 is acceptable as an additional area, but NOT required. 1A220 MUST be hourly fire watch to satisfy 6.2.1 condition A.
	Cue: end of JPM
	Notes:
Candio	Standard(s): late identifies he would establish an hourly fire watch patrol to inspect room 1A220 in ance with TRM 6.2.1 and TRM 6.2.8.

Name: ______ Time Start: _____



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JOB PERFORMANCE MEASURE

Task: Determine Fire Watch Requirements

Follow-Up Questions & Answers:	
Tonow of Questions & Timowers.	
Comments	
<u>Comments</u> :	

Determine Fire Watch Requirements

Initial Condition(s):

- The plant is at rated power.
- Painters are working in under an approved work order and have requested to block open door 1A213 for work in Piping Penetration Room 1A220 in Area 9/10, Elevation 119'.
- A smoke detector in room 1A220 will be covered, P65N528E.
- All other fire protection related equipment and structures are operable.

<u>Initiating Cue(s)</u>:

- Determine the Fire Watch requirements associated with this work.
- Use the references provided.

The reference pages have been redacted due to providing specific equipment location information.

ENTERGY NUCLEAR

JOB PERFORMANCE MEASURE

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QA Record	

Number of pages ______ Date ____ Initials _____

	OPER	ATOR TRAI	NING		
FITLE:					
Determine Plant Safety Index Risk Color with the EOOS Risk Monitor Not Available					
New Mater	ial Minor R	evision	ajor Revision	C	ancellation
REASON FOR R THIS DOCUME		new JPM NA			
REVIEW / APP	ROVAL (Print Na	me): TEAR Appr	oval (TEAR #)	
Prepared By:	r	Kyle Grillis		11/20/09	
J.		**Preparer		Date	
Ops Review ^{++:}	R.	R. Thompson 4/20/2010		010	
•	-	chnical Reviewer (e.g., SME, line management) Date			
Validated By:		M. Rasch	3/16/2010		010
·	Train	ing Representative		Date	2
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Approved By:	*Disciplin	ne Training Supervisor		Date	2
Approved By: Approval Date:	•	ne Training Supervisor		Date	
* Indexing Information ** The requirements of th Indicates that the LP ha TQJA-201- DD06, Tra Indicates that Operation FLEET/REGIO	e Training Material Checklist as been reviewed by the Traini ining Material Checklist. as has reviewed and approved	have been met. ng Supervisor for inclusion of this material for exam use.	Management Expecta		
* Indexing Information ** The requirements of the Indicates that the LP has TQJA-201- DD06, Tra ** Indicates that Operation	e Training Material Checklist is been reviewed by the Trainining Material Checklist. is has reviewed and approved	have been met. ng Supervisor for inclusion of this material for exam use.	Management Expecta	tions and ite	



ENTERGY NUCLEAR Number: GJPM-OPS-ADMS96

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JOB PERFORMANCE MEASURE

<u>Task</u>: Determine Plant Safety Index Risk Color with the EOOS Risk Monitor Not Available

Setting: Classroom Type: SRO

Task: SRO-ADMIN-054

<u>K&A</u>: Generic 2.1.25: 4.2; 2.1.1: 4.2; 2.2.17: 3.8

Safety Function: N/A [10CFR55.45a (12)]

Time Required: 15 minutes

Time Critical: No
Faulted: No
Performance: Actual

Reference(s): 01-S-18-6, Risk Assessment of Maintenance Activities Handout(s): 01-S-18-6, Risk Assessment of Maintenance Activities

Manipulations: N/A # Critical Steps: 1 Group: N/A

Simulator Setup/Required Plant Conditions:

None

Safety Concerns:

None

THIS IS AN ADMINISTRATIVE JPM.



Number: GJPM-OPS-ADMS96 Revision: 00 Page: 3 of 7

JOB PERFORMANCE MEASURE

Initial Condition(s):

- The plant is at 70% power.
- A Severe Thunderstorm Watch has just been issued for Claiborne County, MS.
- Heater Drain Pump A is red tagged out of service for preventive maintenance.
- Standby Service Water Pump C is red tagged out of service for preventive maintenance.
- The EOOS computer program is not available.
- All other equipment and structures are operable.

Initiating Cue(s):

• Determine the Plant Safety Index risk color manually in accordance with 01-S-18-6, provided.

ENTERGY NUCLEAR

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Number: GJPM-OPS-ADMS96

JOB PERFORMANCE MEASURE

<u>Task</u>: Determine Plant Safety Index Risk Color with the EOOS Risk Monitor Not Available

Notes:

1. None

Task Overview:

The candidate will determine the Plant Safety Index risk color for the given plant conditions using 01-S-18-6 Attachment IV.

Note: Critical steps are underlined, italicized, and denoted by an (*)

□* Determines the Plant Safety Index risk color using 01-S-18-6 Attachment IV.

Standard: Candidate performs a manual quantitative analysis in accordance with 01-S-18-6 step 6.5.2a. Candidate reviews the listed systems on 01-S-18-6 Attachment IV page 1 and determines SSW C is listed and the associated risk color for SSW C out of service is Yellow. Candidate determines Heater Drain Pumps are not a listed system, so only one listed system, SSW C, is affected. Therefore he can determine risk level without the aid of the PSA group as specified in the note at the top of 01-S-18-6 Attachment IV. Candidate reviews the listed environmental conditions on 01-S-18-6 Attachment IV page 2 and determines for a Severe Thunderstorm Watch there is NO risk impact and the note at the top of page 1 still applies. The candidate determines risk color for this combination of Level 1 equipment out of service and environmental conditions is YELLOW.

Note: Candidate should perform a qualitative risk analysis using 01-S-18-6 Attachment V, but this is not critical since no missile barriers are out of service, thus the risk color is unchanged.

Cue: n	<u>one</u>		
Notes:			



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JOB PERFORMANCE **MEASURE**

Name: ______ Time Start: _____ Time Stop: _____

<u> Γask Standard(s)</u> :
Determines the Plant Safety Index risk color is YELLOW in accordance with 01-S-
8-6.



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JOB PERFORMANCE MEASURE

<u>Task</u>: Determine Plant Safety Index Risk Color with the EOOS Risk Monitor Not Available

Follow-Up Questions & Answers:
Comments:

Determine Plant Safety Index Risk Color with the EOOS Risk Monitor Not Available

Initial Condition(s):

- The plant is at 70% power.
- A Severe Thunderstorm Watch has just been issued for Claiborne County, MS.
- Heater Drain Pump A is red tagged out of service for preventive maintenance.
- Standby Service Water Pump C is red tagged out of service for preventive maintenance.
- The EOOS computer program is not available.
- All other equipment and structures are operable.

<u>Initiating Cue(s)</u>:

• Determine the Plant Safety Index risk color manually in accordance with 01-S-18-6, provided.



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QA Record
Number of pages
Date _____ Initials _____

TRAINING PROG	RAM:			
	OPER	ATIONS TRAIN	IING	
*LESSON PLAN T	ITLE:			
Determine	LCO Actions	and Initiate a Report	Manual LCO T	Tracking
New Ma	terial Minor	Revision	Major Revision	Cancellation
REASON FOR R THIS DOCUME		new JPM NA		
REVIEW / APP	ROVAL (Print Nar	ne): TEAR Appro	oval (TEAR #)	
Prepared By:	K	(yle Grillis	11/20	
	**Preparer Date			te
Ops Review ^{++:} R. Thompson Technical Reviewer (e.g., SME, line management)			4/20/2010 Ont) Date	
		· · · · · · · · · · · · · · · · · · ·	,	
Validated By:	Training Representative		3/19/2	
	Traini	ng Representative	Da	ie
Approved By:				
	*Disciplin	e Training Supervisor	Da	te
Approval Date:	*			
Indicates that the LP ha 201- DD06, Training M	faterial Checklist. Is has reviewed and approved t	ng Supervisor for inclusion of Material for exam use.	Management Expectations and it	tems referenced on TQJA-
	NAL PROGRAM C			
Fleet _	ENS ENN	Not Applicable	DESTRUCTION DESCRIPTION	EDIAL ACCEPTANCE
DATE TRANSMITTED	INITIAL RECEIPT BY RM	RETURNED FOR CORRECTIONS	RETURN RECEIPT (DATE/INITIAL)	FINAL ACCEPTANCE BY RM
TO RM	(DATE/INITIAL)	(DATE/INITIAL)	((DATE/INITIALS)
1	i	1	1	<u> </u>

ENTERGY NUCLEAR

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Number: GJPM-OPS-ADMS97

JOB PERFORMANCE MEASURE

<u>Task</u>: Determine LCO Actions and Initiate a Manual LCO Tracking Report

Setting: Classroom Type: SRO

Task: SRO-ADMIN-038; SRO-NO-030

<u>K&A</u>: Generic 2.2.22: 4.7; 2.2.23: 4.6; 2.2.15: 4.3; 2.2.40: 4.7; 2.2.41: 3.9

Safety Function: N/A [10CFR55.45a (12)]

Time Required: 30 minutes

Time Critical: No Faulted: No

<u>Performance</u>: Simulate

Reference(s): GGNS Tech Specs 3.5.1

02-S-01-17, Control of Limiting Conditions for Operations;

Drawings M1077E; E1161-04,11,12,14,17; E0300 fuse sort page 1,

panel sort pages 20; 23

Handout(s): Completed Work Impact Statement, partially completed Tagout

Request Form, completed Tagout Cover Sheet, Blank copy of Tagout

Tags Sheet, Dwgs M1077E; E1161-04,11,12,14,17; E0300 02-S-01-17, Control of Limiting Conditions for Operations

Technical Specifications

Manipulations: N/A # Critical Steps: 9 Group #: N/A

Simulator Setup/Required Plant Conditions: None.

Safety Concerns: None

Equipment Needed: None

THIS IS AN ADMINISTRATIVE JPM.



ENTERGY NUCLEAR

Number: GJPM-OPS-ADMS97 Revision: 00 Page: 3 of 16

JOB PERFORMANCE MEASURE

Initial Condition(s):

- The Plant is in Mode 3.
- Electrical Maintenance is to rework the wiring connections for 1B21F505P and 1B21F506P, Pilot Solenoid Valves for SRV 1B21F047L locally, at the SRV.
- The work will require electrical isolation only. The air supply portion of the system will NOT be breached.
- A protective clearance has been prepared for the work.
- The next sequential LCO number is "7777".

Initiating Cue(s):

• You have been directed to prepare an LCO using Attachment I of procedure 02-S-01-17 to allow installation of the protective clearance, attached.

Use the drawings and blank LCO Tracking Report provided.

The LCO start time will begin when you complete the LCO Tracking Report.



ENTERGY NUCLEAR Number: GJPM-OPS-ADMS97

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JOB PERFORMANCE MEASURE

Task: Determine LCO Actions and Initiate a Manual LCO Tracking Report

<u>Notes</u>

1. This is an Administrative JPM.

<u>Task Overview:</u> This task is to determine actions to be taken and generate the eSOMS LCO for the conditions.

<u>Tasks</u>: Critical tasks are underlined, italicized, and denoted by (*).

Review the tagout and determines the ADS and Relief functions for ADS/SRV 1B21-F047L are INOPERABLE.

Standard: The candidate reviews the tagout and determines the Division 1 & 2 trip systems for ADS and Relief functions for ADS/SRV 1B21-F047L will be deenergized.

Cue: None

Notes:

□* Identifies Technical Specifications 3.5.1 Condition E is the bounding LCO.

Standard: The candidate determines the applicable Technical Specifications are TS 3.5.1 Condition E and TS 3.4.4 is a potential LCOTR. Of those, the candidate determines TS 3.5.1 Condition E is the most limiting and bounds the others for the given situation.

Cue:

INFORM THE CANDIDATE TO COMPLETE ONLY THE LCO TRACKING REPORT FOR THE ACTUAL LCO TS 3.5.1.

Notes:

Enterg

ENTERGY NUCLEAR Number: GJPM-OPS-ADMS97

JOB PERFORMANCE MEASURE

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□*Initiates a manual LCO Tracking Report.

Standard: The candidate completes the initiation sections of an LCO Tracking Report, 02-S-01-17 Attachment 1 in accordance with 02-S-01-17 section 6.10 with **Critical items** as follows: Highlighted on KEY.

- The System or Component and Initiating Condition fields should accurately represent the inoperable equipment and/or function.
- As a minimum TS 3.5.1 Condition E should be listed in the TS/TRM/ODCM NO. and Condition fields.
- In the Required Action and Completion Time fields, Required Action E, "Restore the ADS Valve to Operable status", "14 Days", should be reflected.

The following **Non-**Critical fields should be completed:

- Date and time
- The LCO number will be M-1-TS-10-7777 in accordance with step 6.10.2 and the next sequential number of "7777" given in the initial conditions.
- Mode (3)
- WO NO. and Other Document & NO. fields should be blank since no WO or Clearance number are provided.
- Station Management Notified should be N/A. No Duty Manager notification is required. No other department notification is required.
- LCO 3.0.6 Entered and Evaluated for Loss of Safety Function should both be N/A. (not a support system; no support systems cue'd as INOP)
- The candidate should sign as Shift Supervisor.

Tech Spec 3.4.4 Condition A & required actions A.1 and A.2 may be listed, but clearly identified as having no completion time.

Tech Spec 3.3.5.1 and 3.3.6.5 may be referenced as Potential LCOs, but no required actions apply.

Cue: If asked, inform the candidate the WO and Clearance numbers are not finalized yet. Also, if contacted as Duty Manager, simply acknowledge receipt of information conveyed.

Notes:



ENTERGY NUCLEAR Number: GJPM-OPS-ADMS97

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JOB PERFORMANCE MEASURE

	1/(
IANCE	Pa

Task Standard(s):		
A manual LCOTR form has been completed in into Tech Spec 3.5.1 Conditions E for SRV 1B2		-01-17 identifying entry
Name:	Time Start:	Time Stop:



ENTERGY NUCLEAR

Number: GJPM-OPS-ADMS97 Revision: 00 Page: 7 of 16

JOB PERFORMANCE MEASURE

<u>Task</u>: Determine LCO Actions and Initiate a Manual LCO Tracking Report

Follow-Up Questions & Answers:		
Comments:		

OPERATIONS	CECTION		
CELKATIONS	SECTION	PKULFIJUKF	

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DO NOT GIVE THIS PAGE TO STUDENT

KEY

LCOTR NO. M-1 -TS-10-7777

DATE to	day's date	TI	IME <i>current ti</i>	me	MODE	1 2 3	4 5
SYSTEM OR 1B21-F047L	COMPONENT						
TS/TRM/ODC	CM NO.		/O NO. xx610		OTHER D	OCUME	ENT & NO.
INITIATING C	ONDITION	7.0	AXOTO		1		
ADS SRV B2	1-F047L out of s	ervice	e to rework el	ectrical connecti	ons at B21-	F505P 8	k F506P
Wording does	not have to be e	xact.				i	
CONDITION		R	REQUIRED AC	CTION		COMP	LETION TIME
E		R	estore ADS V	alve to operable	status.	14 Day	rs
STATION MA	NAGEMENT NO	TIFIE	D Y/ N/A	Other Departme to perform Actio		N	otified Y / N/A
LCO 3.0.6 EN		A	EVALUATE	D FOR LOSS OF		UNCTIO	N Y/ N/A
SHIFT SUPERVISOR SHIFT MANAGER Student signature							
DECLIDABLE ACTION VERIEICATION							
RECURRING ACTION VERIFICATION							
DATE							
0700-1900							
1900-0700							
LCO RESTORED DATE/TIME							
COMMENTS/CORRECTIVE ACTION							
SHIFT SUPER	RVISOR			SHIFT MANAGE	ΕR		
This form may be discarded after all information has been entered in the eSOMS LCO Tracking System							

Determine LCO Actions and Initiate a Manual LCO Tracking Report

Initial Condition(s):

- The Plant is in Mode 3.
- Electrical Maintenance is to rework the wiring connections for 1B21F505P and 1B21F506P, Pilot Solenoid Valves for SRV 1B21F047L locally, at the SRV.
- The work will require electrical isolation only. The air supply portion of the system will NOT be breached.
- A protective clearance has been prepared for the work.
- The next sequential LCO number is "7777".

Initiating Cue(s):

• You have been directed to prepare an LCO using Attachment I of procedure 02-S-01-17 to allow installation of the protective clearance, attached.

Use the drawings and blank LCO Tracking Report provided.

The LCO start time will begin when you complete the LCO Tracking Report.

Fntorov	NUCLEAR	Non-Quality Related	EN-OP-102-01	REV. XX
= Entergy	MANAGEMENT MANUAL	Informational Use	PAGE 6	OF 25
Protective and Caution Tagging Forms & Checklist				

ATTACHMENT 9.2		TAGOUT COVER SHEET
Clearance:MANUAL	Tagout:	_1-C17-B21-XXX
Component to be worked:	B21-F505P/B21-F506P B21-F047L Solenoid Va DRYWELL 166'	lve
Description:	- 1D21F047L DLODDED	TO DEWODY WIDDIC
ELECTRICALLY ISOLATE CONNECTIONS AT SOLE		
Placement Inst: This tagout de-energize soler References: M1077E; E1161		F047L. fuse sort page 20 & 23
Hazards: NONE		
Restoration Inst: Post-maintenance testing and	I recovery method require	d; SRV "click test".

Attribute Description	Attribute Value
High Energy System Concerns	NO
Tech Spec Impact? Enter EOS# or None	YES
Compensatory Actions Req?	NO
Locked Components?	NO
Fire Protection Impairment?	NO
Equip Drain / Vent rig required?	NO
Scaffold Required?	NO
Is an LCO start time required?	NO
Tech Spec Impact on System Restoration?	NO
Component Deviation Required?	NO
50.59 Screening Attached	N/A
Crew Assigned Walk down	Yes
Walk down complete?	
Reason this tag was created?	Scheduled work
Tagout prepare issues:	No issues

Work Order Number	Description
XXX610	REWORK WIRING CONNECTIONS AT SOLENOID VALVES 1B21F505P & 1B21F506P

Status	Description	User	Verification Date
Prepared	Prepared		
Technical Reviewed	Reviewed		
Approved	Approved		
Tags Verified Hung	Tags Verified Hung		
Removal Approved	Removal Approved		
Tags Verified Removed	Tags Verified Removed		

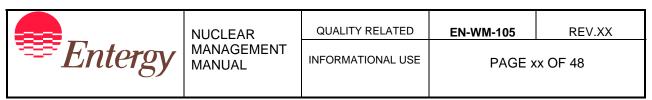
'D'' FOR 1B21F047L (B21CF12A) COA-189

Entormy	NUCLEAR MANAGEMENT	Non-Quality Related	EN-OP-102-01	REV. XX				
≅ Entergy ∣	MANUAL	INFORMATIONAL USE	PAGE 7 OF 25					
Protective and Caution Tagging Forms & Checklist								

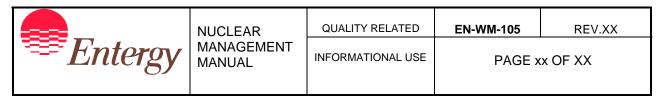
TAGOUT TAGS SHEET ATTACHMENT 9.3 CLEARANCE: ____MANUAL_ TAGOUT: ____1-C17-B21-XXX _____ Equipment Place. Rest. 1st Rest. 2nd Placement/R Tag Tag Place. Serial Type Equipment Description Place. Placement 1st Verif 2nd Verif Rest. Restoration Verif Verif emoval No. Equipment Location Seq. Configuration Date/Time Date/Time Seq. Configuration Date/Time Date/Time Tag Notes Danger 1B21M605P OFF XXX1 ADS VALVE 1B21-F047L COA-166-0C504 -1H13P601 Danger 1B21M606P XXX2 OFF ADS VALVE 1B21-F047L COA-166-0C504 -1H13P631 Danger 1-B21 FUSE -1**B21F11A** REMOVED XXX3 2 1H13-P628 BAY "A" FUSE * #21 ON TERMINAL BOARD **'D''** FOR 1B21F047L (B21CF11A) COA-189 XXX4 Danger 1-B21 FUSE -1**B21F12A** REMOVED 1H13-P628 BAY "A" FUSE * #22 ON TERMINAL BOARD

Entorov	NUCLEAR MANAGEMENT	Non-Quality Related	EN-OP-102-01	REV. XX				
= Entergy 	MANUAL	INFORMATIONAL USE	PAGE 7 OF 25					
Protective and Caution Tagging Forms & Checklist								

	ATTACHMENT 9.3					•	TAGOUT	TAGS SHEET			
	CLEAF	RANCE:MANUAL	TAGOUT:		1-C17-B21-XXX						
Tag Serial No. XXX5	Tag Type Danger	Equipment Equipment Description Equipment Location 1-B21 FUSE -1B21F11B	Place. Seq.	Placement Configuration REMOVED	Place. 1st Verif Date/Time	Place. 2nd Verif Date/Time	Rest. Seq.	Restoration Configuration	Rest. 1st Verif Date/Time	Rest. 2nd Verif Date/Time	Placement/R emoval Tag Notes
*		1H13-P631BAY "A" FUSE #21 ON TERMINAL BOARD "D" FOR 1B21F047L (B21CF11B) COA-166									
*	Danger	1-B21 FUSE -1 B21F12B 1H13-P631 BAY "A" FUSE #22 ON TERMINAL BOARD "D" FOR 1B21F047L (B21CF12B) COA-166	2	REMOVED							



ATTACHMENT 9.2				IMPACT T	EMPLATE
Sheet 1 of 1					
1				1	
PLANNER	DATE		REVIEW	/_ ER	DATE
WORK SCOPE:					
REWORK WIRING CO 1B21F506P.	NNECTION	IS AT SOLENO	ID VALVES 1B	21F505P &	
COMPONENT MODE:	()INSV	(X)00SV	() AVAILABL	.E	
PLANT MODES & CONDIT	TIONS:				
Plant MUST BE IN Mode 3.	1B21F505P	and 1B21F506P m	ust be electrically i	solated.	
EFFECTS ON ASSOCIATE	ED SYSTEM A	AND COMPONENT	S:		
SRV 1B21F047L will not be	capable of be	eing opened electric	cally, either manua	Illy or automati	cally.
PRE-MAINTENANCE ACT	IVITIES:				
None					
POST-MAINTENANCE AC	TIVITIES:				
None					
DOES THE ACTIVITY HAVE 1	THE POTENTIA	AL TO SCRAM/TRIP	THE PLANT:	()YES(X)N	10
SECURITY/FIRE/CONTROL F				()YES (X)N	
RPS AFFECTED:				() YES (X) N	
ESF/EFSAS AFFECTED:				(X) YES ()!	
ALARMS/COMPUTER POINT	S AFFECTED ((IF YES, LIST ON AT	TACHED SHEET)	()YES (X)N	10



ATTACHMENT 9.3	OPERATIONAL IMPA	ACT TEMPLATE
Sheet 1 of 1		
OPERATIONAL IMPACT		
		/
SRO DATE	REVIEWER	DATE
TECHNICAL SPECIFICATIONS:		
LIMITING CONDITIONS FOR OPERATIONS:		
LIMITING CONDITIONS FOR OPERATIONS.		
REACTIVITY IMPACT (REQUIRED):		
NONE		
NONE		
POTENTIAL SYSTEM/COMPONENT EFFECTS:		
This work only affects capability of one SRV, 1B21F047L.		

ACTUAL OR POTENTIAL MEASURE OR CONTINGENCY ACTION REQUIRED:

Give this page to the student **NON-QUALITY RELATED** EN-OP-102-01 REV. XX **NUCLEAR** Entergy **MANAGEMENT** INFORMATIONAL USE **PAGE 14 OF 25 MANUAL Protective and Caution Tagging Forms & Checklist ATTACHMENT 9.10 TAGOUT REQUEST** Tagout Request Instructions The Tagging Requestor is responsible for providing detailed information on the work scope/condition and should recommend boundaries to provide for equipment and personnel safety. Work Order # Requester Ext. / Pager Task # Mark # XXX610 Smith 555 Provide a detailed description of the maintenance activity and the reference drawing 1. numbers: REWORK WIRING CONNECTIONS AT SOLENOID VALVES 1B21F505P & 1B21F506P. Ref. M1077E; E1161-04,11,12,14, 17, E0300 fuse sort pg 1, panel sort pg 20 & 23 If known, provide a previous Clearance/Tagout number which provides the required 2. protection: Fluid systems: No Yes Valve Work Air-Back Seat Yes ☐ No Water-Open Closed MOV Steam-Oil-☐ Test & Maintenance Tag 3. Fluid Components To Be Tagged and Required Position: Isolation Valves (Any Gags, Brakes, or Flanges required): Drain/Vent Valves: Special Instructions: Need solenoid valves electrically isolated 4. Electrical Components To Be Tagged and Required Position: Yes No Control Switches: \boxtimes Breakers: Tag on Breaker Tag to be moved to Door

Fuses/Leads to Pulled/Lifted:

1B21F11A; F12A; F11B; F12B

Grounds/Ground Locations:

Click test required for retest.

Special Instructions:

GRAND GULF NUCLEAR STATION

OPERATIONS	SECTION	PROCEDURE
OFEIVATIONS	SECTION	FROCEDORE

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LCOTR NO. M-1 - - -

	200 IN 110									
DATE			TIME				MODE	1 2 3	3 4	5
SYSTEM OR	COMPONENT									
TS/TRM/ODC	M NO.		WO NO.				OTHER I	OOCUME	NT	& NO.
INITIATING C	ONDITION									-
							· · · · · · · · · · · · · · · · · · ·	T "		
CONDITION			REQUIF	RED AC	TION			COMP	LET	ION TIME
STATION MANAGEMENT NOTIFIED Y / N/A Other Department required to perform Action: Notified Y / N/A							ed Y / N/A			
LCO 3.0.6 EN	NTERED Y/I	N/A	EVA	LUATE	D FOR	LOSS OF	SAFETY F	UNCTIO	N	Y / N/A
SHIFT SUPE	RVISOR		'		SHIFT MANAGER					
		RE	CURRIN	G ACT	ION VE	RIFICATIO	DN			
DATE										
0700-1900										
1900-0700										
LCO RESTOR	RED DATE/TIM	E								
COMMENTS/	CORRECTIVE	ACTIO	ON							
SHIFT SUPERVISOR						SHIFT MANAGER				
This form may be discarded after all information has been entered in the eSOMS LCO Tracking System										



JOB PERFORMANCE MEASURE

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TRAINING	PROGRA	М:				
OPERATIONS TRAINING						
*LESSON	PLAN TITL	.E:				_ ¬
DETE			Y INTO SITE INITIAL NOTI		ENCY PLAN AND N FORMS	
APPROXIM	MATE TIME	REQUIRE	D: 15 Minutes for decla	aration 5 minute	es for form completion	
PREREQU	ISITES: NO	ONE				
SUPPORT	ING LESS	ONS: NONE				
		⊠ New M	aterial Mino	r Revision	☐ Major Revision	
REASON F New JPM	FOR REVIS					
REVIEW /	APPROVA	L (Print Nar	ne): 🗌 Electronic App	roval (TEAR #)	
Prepared By:			M. Rasch		1/26/2010	
			Preparer		Date	
Reviewed By:		Toohni	R. Thompson Technical Reviewer (e.g., SME, line management)		4/20/2010 Date	
	ctional	reciiii	cai Reviewei (e.g., SiviE, IIIIe	management)	Date	
Adequacy Determined By:			W. Ryder		4/20/2010	
Determined by.		ITPL (R	ITPL (Rev 0); Qualified Instructor (All other revisions)		Date	
Appro	ved By:					
			**Discipline Training Supervisor		Date	
Effectiv	ve Date:		*Date		_	
		been reviewed l eview Workshee	by the Training Supervisor for	or inclusion of Man	agement Expectations and items refe	renced on the
FLEET/RE	GIONAL PI ☐ ENS	ROGRAM C	ONCURRENCE: ☑ Not Applicable			
ANO		LIVIN	PNPS	3		
CNPS			RBS			
ECH			VY			
GGNS			WF3			
IPEC			WPO			

^{*} Indexing Information



JOB PERFORMANCE MEASURE

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Number of pages ______ Date Initials

<u>Task:</u> Determine Entry into Site Emergency Plan and Complete Initial Notification Forms as applicable

Setting: Classroom

<u>Type</u>: SRO

<u>Task</u>: SRO-A&E-015; SRO-A&E-003

K&A: Generic 2.4.41: 4.6; 2.4.30: 4.1; 2.4.40: 4.5

Safety Function: N/A

Time Required: 15 minutes for declaration of EAL Classification

5 minutes for completion of Notification Form

Time Critical: YES, EAL CLASSIFICATION ONLY

Faulted: No

<u>Performance</u>: Perform <u>Reference(s)</u>: 10-S-01-1

Handout(s): 10-S-01-1; EAL Flow Chart

Forms EPP 06-01 and EPP 01-06

Manipulations: N/A # Critical Steps: 2 Group #: N/A

ADMINISTRATIVE JPM

Simulator Setup/Required Plant Conditions: None.

Safety Concerns: None.

Equipment Needed: None.



JOB PERFORMANCE MEASURE

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Number of	pages
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<u>Task:</u> Determine Entry into Site Emergency Plan and Complete Initial Notification Forms as applicable

Initial Condition(s):

• The plant has experienced a transient.

<u>Initiating Cue(s)</u>:

- You are the Shift Manager.
- A tornado offsite in Claiborne County caused damage to the Entergy Transmission Lines resulting in a loss of the Baxter Wilson and Franklin 500 KV Transmission Lines and Port Gibson 115 KV Transmission Line 15 minutes ago.
- Division 2 Diesel Generator is in Maintenance and disassembled.
- Divisions 1 and 3 Diesel Generators are operating carrying their respective busses.
- The Reactor Scrammed upon the loss of offsite power.
- All Control Rods are fully inserted.
- RPV water level is being maintained in the Normal Band by RCIC and CRD.
- RPV pressure is being controlled with SRVs.
- All other systems are functioning as designed.
- Classify this event and complete any initial notification forms that are required.

Use Current time for time of Shutdown.

No Meteorological Data is available.

No Release is in progress.

This is a **TIME CRITICAL JPM**.



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<u>Task:</u> Determine Entry into Site Emergency Plan and Complete Initial Notification Forms as applicable

Notes

- 1. This is an Administrative JPM.
- 2. This is an activity performed by an SRO as Emergency Director per the GGNS Emergency Plan Procedures.

<u>Task Overview:</u> This task is to use the Emergency Plan Procedure and Off Normal Event Procedures for classification of plant conditions per the Emergency Action Levels and complete the Initial Notification forms for contact of State and Local Agencies. This is a <u>TIME CRITICAL</u> JPM based on the requirements of 10 CFR50 Appendix E IV.D.3.

<u>Tasks</u>: Critical tasks are underlined, italicized, and denoted by (*).

This is a TIME CRITICAL JPM.

☐ Identify that Division 2 bus 16AB is de-energized and that only Division 1 Diesel Generator powering bus 15AA prevents a Station Blackout.

Standard: Candidate determines that a single failure of Division 1 Diesel Generator will result in a Station Blackout.

Cue: None

Notes: All offsite transmission lines out of service means the station is relying on Diesel Generators for ESF buses.

Station Blackout is defined as a loss of power to both 15AA and 16AB. A loss of Division 1 Diesel Generator would result in the loss of power to 15AA and thus a Station Blackout.



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□*	Classify the event as an ALERT.				
	Standard: Candidate uses 10-S-01-1 Arclassify the event as an ALERT.	ttachments I and II Initiation	ng Conditions SA1 to		
	Cue: None				
	Notes: CLASSIFICATION of the EA	L is the TIME CRITICA	L portion of the JPM.		
□*	Complete the Initial Notification form for contact of State and Local Agencies. (SEE Attached form for critical information.)				
	Standard: Candidate completes Initial Notification form.				
	Cue: None				
	Notes: TIME to Complete the Notification form is NOT TIME CRITICAL.				
Task Star	andard(s):				
ALERT i	is declared per EAL SA1 and Initial Notifi	cation Form is completed.			
Name:		Time Start:	Time Stop:		



JOB PERFORMANCE MEASURE

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Date ____ Initials ____

<u>Task:</u> Determine Entry into Site Emergency Plan and Complete Initial Notification Forms as applicable

Follow-Up Questions & Answers:	
<u>Comments</u> :	

Determine Entry into Site Emergency Plan and Complete Initial Notification Forms as applicable

Give this page to the student

Initial Condition(s):

• The plant has experienced a transient.

<u>Initiating Cue(s)</u>:

- You are the Shift Manager.
- A tornado offsite in Claiborne County caused damage to the Entergy Transmission Lines resulting in a loss of the Baxter Wilson and Franklin 500 KV Transmission Lines and Port Gibson 115 KV Transmission Line 15 minutes ago.
- Division 2 Diesel Generator is in Maintenance and disassembled.
- Divisions 1 and 3 Diesel Generators are operating carrying their respective busses.
- The Reactor Scrammed upon the loss of offsite power.
- All Control Rods are fully inserted.
- RPV water level is being maintained in the Normal Band by RCIC and CRD.
- RPV pressure is being controlled with SRVs.
- All other systems are functioning as designed.
- Classify this event and complete any initial notification forms that are required.

Use Current time for time of Shutdown.

No Meteorological Data is available.

No Release is in progress.

This is a **TIME CRITICAL JPM**.