







68 3/30/90

WORK INSTRUCTIONS: PERFORM ENGINE LOGIC TESTING PER PROCEDURE 27563-C, REV 2. COOPER ENERGY SERVICES PERSONNEL WILL BE PERFORMING APPLICABLE PORTIONS OF THE PROCEDURE WITH ASSISTANCE FROM GPC PERSONNEL, AS REQUIRED. THE ELECTRICAL PORTIONS OF THE PROCEDURE NEED NOT BE RETESTED. ADDITIONAL INSTRUMENTATION MAY BE CONNECTED BY TEST PERSONNEL TO AID IN TROUBLESHOOTING ANY INSTRUMENTATION CONNECTED OR ADJUSTMENTS MADE SHALL BE DOCUMENTED COMPLETELY ON THIS MWO. DOCUMENT ANY PROBLEMS ENCOUNTERED WHILE PERFORMING THIS TEST.

STEP 1: FOLLOWING THE LOGIC TEST THE ENGINE WILL BE STARTED IN THE EMERGENCY MODE AND A LEAK TEST PERFORMED ON THESE LINES:

- E-10A - TRIP LOW PRESSURE LUBE OIL
  - B - " " " " " " " "
  - C - " " " " " " " "
- E-16A - TRIP HIGH TEMPERATURE JACKET WATER
  - B - " " " " " " " "
  - C - " " " " " " " "
- E-68 - TRIP HIGH PRESSURE CRANKCASE
- E-92 - TRIP LOW PRESSURE TURBO OIL
- E-14 - TRIP LOW PRESSURE JACKET WATER
- E-23H - TRIP HIGH VIBRATION
- E-19 - TRIP HIGH TEMPERATURE ENGINE BEARINGS
- E-18 - TRIP HIGH TEMPERATURE LUBE OIL.

TEST FOR LEAKAGE BY DISCONNECTING TUBING AT CONTROL PANEL BULKHEAD AND CONNECTING PNEUMATIC BUBBLE TESTER. OBSERVE TESTER FOR AIR FLOW WHEN LINE IS PRESSURIZED. RESTORE TUBING CONNECTION AT BULKHEAD AND CONTINUE WITH NEXT INSTRUMENT LINE.

STEP #2 NORMAL START  
-TRIP BY HI-TEMP LUBE OIL

STEP #3 LOSP START (JUMPER IN GEN CONTROL PANEL 211 TO 213)  
-TRIP BY HIGH VIBRATION

STEP #4 NORMAL START  
-TRIP BY HIGH PRESS CRANKCASE

STEP #5 SI START (JUMPER IN GEN. CONTROL PANEL 204 TO 209)  
-TRIP BY 2 OF 3 L.O. PRESSURE

NOTE

THE AREA OF TESTING SHALL BE ROPED AND ENTRANCE LIMITED TO ESSENTIAL PERSONNEL AS DETERMINED BY COOPER REPRESENTATIVES AND GPC ENGINEERING.

GPC ENGINEERING SHALL BE PRESENT FOR ALL TESTING AND QC REPRESENTATIVE PRESENT AS REQUIRED.

GEORGIA POWER CO

MAINTENANCE WORK ORDER REVISION SHEET

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CAUTION

PERFORM ENGINE LOGIC TESTING PER PROCEDURE 27563-C, REV 2. COOPER ENERGY SERVICES PERSONNEL WILL BE PERFORMING APPLICABLE PORTIONS OF THE PROCEDURE WITH ASSISTANCE FROM GPC PERSONNEL, AS REQUIRED. THE ELECTRICAL PORTIONS OF THE PROCEDURE NEED NOT BE RETESTED. ADDITIONAL INSTRUMENTATION MAY BE CONNECTED BY TEST PERSONNEL TO AID IN TROUBLESHOOTING ANY INSTRUMENTATION CONNECTED OR ADJUSTMENTS MADE SHALL BE DOCUMENTED COMPLETE ON THIS MWO. DOCUMENT ANY PROBLEMS ENCOUNTERED WHILE PERFORMING THIS TEST.

NOTE:

STEP 1: FOLLOWING THE LOGIC TEST THE ENGINE WILL BE STARTED IN THE EMERGENCY MODE AND A LEAK TEST PERFORMED ON THESE LINES.  
E-10A - TRIP LOW PRESSURE

E-10A - TRIP LOW PRESSURE LUBE OIL

	LOW	PRESSURE	LUBE	Oil
B				
C				
A				

E-16A - TRIP HIGH TEMPERATURE JACKET WATER  
B - " " " " " "  
C - " " " " " "

B - HIGH TEMPERATURE JACKET WATER  
C - " " " " " "

E-68 - TRIP HIGH PRESSURE CRANKCASE  
E-92 - TRIP LOW PRESSURE CRANKCASE  
E-14 - TRIP LOW PRESSURE TURBO OIL  
E-23H - TRIP LOW PRESSURE JACKET WATER  
E-19 - TRIP HIGH VIBRATION  
E-18 - TRIP HIGH TEMPERATURE ENGINE BEARINGS  
AFTER RECONNECTING THE LINE.

E-92 - TRIP HIGH PRESSURE CRANKCASE

E-14 - TRIP LOW PRESSURE TURBO OIL

E-23H - TRIP LOW PRESSURE JACKET WATER  
E-19 - TRIP HIGH VIBRATION

E-19 - TRIP HIGH VIBRATION

E-28 - TRIP HIGH TEMPERATURE ENGINE BEARINGS  
AFTER RECONNECTING TEMPERATURE LUBE OIL

AFTER RECONNECTING THE LINES LUBE OIL

AFTER RECONNECTING THE LINES FOLLOWING THE TEST,  
 PERFORM LEAK DETECTION BY SNOOP DETECTOR AND FIX ANY LEAKS.  
 -TEST FOR LEAKAGE BY DISCONNECTING

-TEST FOR LEAKAGE BY DISCONNECTING TUBING AT CONTROL PANEL BULKHEAD AND CONNECTING PNEUMATIC BUBBLE TESTER. OBSERVE TESTER FOR AIR FLOW WHEN LINE IS PRESSURIZED. RESTORE TUBING CONNECTION AT BULKHEAD AND CONTINUE WITH NEXT INSTRUMENT LINE.

STARTING TIME BETWEEN EACH START MUST BE AT LEAST 10 MIN.  
RECORD THE TIME IN WORKORDER.

CONTROL NO. 19001576 00

STEP #2 NORMAL START  
-TRIP BY HI-TEMP LUBE OIL

STEP \$5 SI START (JUMPER IN GEN. CONTROL PANEL 204 TO 209)  
-TRIP BY 2 OF 3 L. O. PRESSURE

### NOTE

GPC ENGINEERING SHALL BE PRESENT FOR ALL TESTING AND QC REPRESENTATIVE PRESENT AS REQUIRED.



Nuclear Plant Maintenance Work Order Continuation Sheet

MPL No. 1-2403-PS-DG2

MWO No. 19001576

pg 1 of 5

Work Description BLOCK 27 PROCEDURE VEGP 27563-C

CAP LINES E-16A, B, C AND E18 TO ALLOW SENSORS TO BE CALIBRATED -

OPEN LINK F10 TO DEENERGIZE DISABLED DG CKT BRK  
INOPERABLE ANNUNCIATOR WINDOW

4.1.14 131.8 VARS DC READ

DISCONNECTED HORN WIRE # 402 *Dis. 3/29/00*

4.2.31 Per request from Engineering, timed  
group II lockout signal from when  
start was initiated 63 seconds,  
satisfactory.

4.2.37 Repeated group II lockout time, 65 sec.,  
satisfactory. Repeated one more time,  
63 seconds, satisfactory. Group II  
lockout timer is consistent. *TJH 3-29-90*

4.2.421 CLOSED LINKS L25 & L26 TO PERFORM STEP

RECONNECTED TUBES TO E-16A, B, C AND E-18

*Mark Dwyer 3-29-90*  
Block 23 cont) Maintain Zone II Housekeeping. *AKB 4-1-91*

## Nuclear Plant Maintenance Work Order Continuation Sheet

pg. 2 of 5

MPL No. 1-2403-P5-DG2

MWO No. 19001576

Work Description BLOCK 27

PROCEDURE YEGP 27563-C

WHILE ENGINE RUNNING IN EMERGENCY MODE A BUBBLE TEST WAS CONDUCTED ON THE PNEUMATIC LINES LISTED BELOW. AFTER RECONNECTING PNEUMATIC LINES, A SNOOP TEST WAS CONDUCTED ON FITTING. ONE HIGH TEMP JACKET WATER SENSOR TRIPPED AFTER ENGINE STARTED.

## BUBBLE TEST SNOOP TEST

E-10A	TRIP LOW PRESSURE LUBE OIL	SATISFACTORY	SATISFACTORY
E-10B	TRIP LOW PRESSURE LUBE OIL	SATISFACTORY	SATISFACTORY
E-10C	TRIP LOW PRESSURE LUBE OIL	SATISFACTORY	SATISFACTORY
E-68	TRIP HIGH PRESSURE CRANKCASE	SATISFACTORY	SATISFACTORY
E-42	TRIP LOW PRESSURE TURBO OIL	1 BUBBLE/SECOND	WEEPS
E-14	TRIP LOW PRESSURE JACKET WATER	SATISFACTORY	HAS BUBBLES
C-23H	TRIP HIGH VIBRATION	2 BUBBLES/SECOND	WEEPS
E-19	TRIP HIGH TEMP ENG BRGS	1 BUBBLE/SECOND	SATISFACTORY
E-18	TRIP HIGH TEMP LUBE OIL	SATISFACTORY	WEEPS
E-16C	TRIP HIGH TEMP JACKET WATER	TRIPPED ENGINE	DID NOT PERFORM
E-16A	TRIP HIGH TEMP JACKET WATER	3 BUBBLES/SECOND	DID NOT PERFORM

1020

ADDED PRESSURE GAUGES AT SENSORS OF LINES E-16A, B, C FOR TROUBLE SHOOTING TO OBSERVE SENSOR OPERATION DURING ENGINE STARTING. FOUND SENSOR A MOVEMENT SWITCH.

STEP # 2	TRIP BY HI-TEMP LUBE OIL	SATISFACTORY	SATISFACTORY
STEP # 3	TRIP BY HIGH VIBRATION	SATISFACTORY	SATISFACTORY
STEP # 4	TRIP BY HIGH PRESS CRANKCASE	SATISFACTORY	SATISFACTORY
STEP # 5	TRIP BY 2 OF 3 LO. PRESSURE	SATISFACTORY	SATISFACTORY

E-16A, E-16B & E-16C REQUIRE BUBBLE TESTING

Lowell P. Piment 3/31/90 12:06 AM

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# Nuclear Plant Maintenance Work Order Continuation Sheet

MPL No. 12402G4001/12304P5 PG 2

MWONo. 19091576

pg. # 3 of 5 HDP 2/1/90

Work Description Block 27

MULTIPLE STARTS WITH AIR COMPRESSORS OFF

AIR COMP #1 OFF TIME 22:30

AIR COMP #2 OFF TIME 22:30

STARTING AIR PRESSURE

AIR RECEIVER #1

AIR RECEIVER #2

TIME

PI-9060

PI-9064

STEP # 2

START

22:35

240 PSI

240 PSI

STOP

22:42

220 PSI

220 PSI

STEP # 3

START

23:55

220 PSI

220 PSI

STOP

23:00

200 PSI

200 PSI

STEP # 4

START

23:13

200 PSI

200 PSI

STOP

23:17

185 PSI

185 PSI

STEP # 5

START

23:29

185 PSI

185 PSI

STOP

23:34

170 PSI

170 PSI

AIR COMP #1 START TIME 23:36

AIR COMP #2 START TIME 23:36

Block 26 cont) WP steps 9

Recorded by H. Quinn 3/31/90

# Nuclear Plant Maintenance Work Order Continuation Sheet

pg # 4 of 5

MPL No. 1-2403-P5-DG2

MWO No. 19001576

Work Description BLOCK 27

PROCEDURE VEGP 27563-C

PRESSURE GAUGE INSTALLED TO MONITOR PILOT PRESSURE OF PILOT VALVE P3. THIS WAS DONE IN CONJUNCTION WITH MWO 19001684 TO MONITOR PRESSURE DURING SENSOR TRIP TEST. <sup>DDP 3/31/90</sup> 1900 HRS

PILOT PRESSURE 46.281 REACHED WITH TWO JACKET WATER HIGH TEMP SENSORS.

↓ 56 PSI ↓ LOW PRESSURE <sup>DDP 3/31/90</sup> JWS JACKET WATER SENSOR

DECONNECTED. <sup>DDP 3/31/90</sup> 2024 HRS

HIGH TEMP JACKET WATER SENSORS A & B CHANGED OUT. <sup>DDP 3/31/90</sup>

WHILE ENGINE SHUTDOWN A BUBBLER TEST WAS CONDUCTED ON THE FOLLOWING PNEUMATIC LINES.

E-16A	TRIP HIGH TEMP JACKET WATER	:	1 BUBBLE / SECOND
E-16B	↓ ↓ ↓ ↓ ↓	:	SATISFACTORY
E-16C	↓ ↓ ↓ ↓ ↓	:	SATISFACTORY

WHILE ENGINE RUNNING IN <sup>DDP 3/31/90</sup> ~~EMERGENCY~~ NORMAL MODE A BUBBLER TEST WAS CONDUCTED ON THE FOLLOWING PNEUMATIC LINES: A SWEEP TEST WAS DONE ON THE FITTING BEFORE FOR BUBBLER TEST.

	TRIP HIGH TEMP JACKET WATER	BUBBLER TEST	SWEEP TEST
E-16A		1 BUBBLE / SECOND	SAT.
E-16B	↓ ↓ ↓ ↓ ↓	1 BUBBLE / 5 SECONDS	SAT.
E-16C	↓ ↓ ↓ ↓ ↓	SATISFACTORY	SAT.

*DDP 3/31/90*

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Nuclear Plant Maintenance Work Order Continuation Sheet

MPL No. 1-2403-6+CO1 / 1-2403-PS-062

MWO No. 9061576

Pg. # 15.85

Work Description BK 26) Ray Moore 3-30-90

MWO No: 19001576

QC HOLD / WITNESS POINTS  
PROCEDURE & REV No: 257 27563-C 1/2

B5010-C FIG. 1  
PAGE 1 OF 1

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY  
OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT  
DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP No.	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT   DATE	NOTIFIED INIT   DATE	QC ACTION INIT   W-N/A
H	Notify QC At the hold points in procedure 27563-C	PC 3/28/90	PC 3/29/90	PC I
H	Notify QC prior to starting the diesel		PC 3/31/90	PC I
H	Notify QC prior to performing leak test		PC 3/31/90	PC I
H	Notify QC prior to performing the following steps			
	Step #2 Normal Start		PC 3/30/90	PC I
	Step #3 Load Start			
	Step #4 Normal Start			
	Step #5 SI Start		PC 3/30/90	PC I
Note: Steps 2, 3, 4, 5 are witness points for QC only. No inspection required.				

MENTS & IR NUMBERS: (initial and date entries)

IR 34189 PC 3/29/90  
IR 34128 PC 3/31/90

IR 34174 3-31-90



# Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2

34174

Georgia Power

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WO/ODR/DR No. 19001576	Building 1A TRAIN DIESEL	Procedure/Spec. No./Rev. NA
Room No./Level No. 103 / 1	Sys./Start-Up Designator 2403	Tag No. 1-2403-P5-DG2
Drawing No./Rev. NA	Vendor Manual Log No. NA	Other NA

- Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
- Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
- Upon completion of the inspection activity, enter results below and sign and date.

Remarks	LINE	RESULTS	SNDOP TEST
QUALITY VERIFIED: PERFORMANCE OF LEAK TEST ON THE FOLLOWING LINES PER STEP 1 OF P43 PUMP ODR.			
	E-10A TRIP LOW PRESSURE LUBE OIL	NO BUBBLES	NO LEAKS
	E-10B	NO BUBBLES	NO LEAKS
	E-10-3	NO BUBBLES	NO LEAKS
	E-63 TRIP HIGH PRESSURE CRANK CASE	NO BUBBLES	NO LEAKS
	E-92 TRIP LOW PRESSURE TURBIN OIL	LEAK 2.1 BUBBLES PER SEC.	VISIBLE BUBBLES
	E-14 TRIP LOW PRESSURE TURBIN OIL	NO BUBBLES	VISIBLE BUBBLES
	E-13A TRIP HIGH VIBRATION	LEAK 3.5 BUBBLES PER SEC.	VISIBLE BUBBLES
	E-19 TRIP HIGH TEMPERATURE ENGINE OIL	LEAK 3.1 BUBBLES PER SEC.	VISIBLE BUBBLES
	E-18 TRIP HIGH TEMPERATURE LUBE OIL	NO BUBBLES	VISIBLE BUBBLES
SATISF LERKS ABOVE HAVE SEE CONT SAT. NOT BEEN CORRECTED! PER MW0			

Inspection Results

☐ SAT.

☒ UNSAT—ODR/DR NO.(s):

D.C. \* 1-90-0154

⊕

7000 15A MC3101

Inspector

Date

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WO/ORD No/Other

1900576

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T.P. 34174

Remarks

Visually Verified Performance of Multiple Starts per Following  
SEIS per Pg 4 of MWO  
STEP #2 NORMAL START, TRIP BY HIGH TEMPERATURE OIL BY LOOSENING FITTING  
AT 1754 HRS, ALSO RETIGHTENING OF FITTING.  
STEP #3 LOSS START BY PLYING JUMPER IN GEN CONTROL PANEL  
ACROSS T.P. 211 AND 213. THEN TRIP BY LOOSENING FITTING ON  
VIBRATION SWITCH. VERIFIED JUMPER REMOVED AND FITTINGS TIGHTENED.  
STEP #4 NORMAL START, TRIP BY LOOSENING FITTING ON HIGH OIL PRESSURE  
PRESSURE SWITCH. VERIFIED RETIGHTENING OF FITTING.  
STEP #5 ST START BY PLYING JUMPER IN GEN CONTROL PANEL ACROSS  
T.P. 204 AND 205. THEN TRIP BY LOOSENING OF FITTINGS ON 205TH  
3 LOW OIL PRESSURE SWITCHES. VERIFIED REMOVAL OF JUMPER  
AND FITTINGS TIGHTENED. ALL CONNECTION OF FITTINGS WERE  
SAFELY TESTED AND ACCEPTABLE.  
KEL-A, EN-B, FICC ARE NOT FINAL TESTED TEST 1911 AND  
1912 WERE NOT FUNCTIONING PROPERLY WILL BE  
REQUIRED. THIS WAS NOTICED ON START OF DISCH. WHEN  
HIGH TEMPERATURE STEAM WATER MALFUNCTION LIGHT CAME ON  
SO TO DETERMINE WHICH SWITCH WAS INITIATING ALARM  
3 GAGES, ONE FOR EACH TEMP SWITCH WAS CONNECTED  
IN LINE TO WARE 4 PRESSURE. PRESSURE GAGE FOR 1754 AM  
DID NOT INCREASE AS RAPIDLY AS THE OTHER TWO GAGES  
SO COOPER RCP. CLIMBED CLOSED TURNING LINE TO 1754 AM  
AND PRESSURE INCREASED RAPIDLY. <sup>AT GAGE</sup> HE THEN RELEASED  
TURNING AND PRESSURE FELL BACK DOWN. THIS WAS  
REPEATED A COUPLE OF TIMES. THEN PRESSURE STARTED  
TO INCREASE UNTIL IT REACHED OPERATING PRESSURE.

705517 MC3191

Inspector

*Tony Williams*

Date

3-31-80

WHITE—Work Package

CANARY—O.C. Supv.

PINK—Inspector

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# Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2

34128

Georgia Power

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WOVDR No. 19001576	Building Diesel Generator	Procedure/Spec. No./Rev. 275634R/2
Room No./Level No. Room 103 Level 4	Sys./Start-Up Designator 2403	Tag No. 1-2403-P5-DG2
Drawing No./Rev. N/A	Vendor Manual Log No. N/A	Other N/A

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks

Visually verified checking for leaks in Engine Control Panel 12403 P5 DG2. Lines E-16A, E-16B and E-16C were checked. During Bubble Test results were as follows.

E-16A 1 Bubble/sec

E-16B 1 Bubble/3sec

E-16C no leakage detected.

Visually verified soap test for leaks on Lines in Engine Control Panel 12403 P5 DG2. Results were

E-16A - no leakage visible

E-16B - some leakage detected this problem was solved by tightening

E-16C - no leakage visible

Sketch

Inspection Results

☒ SAT

☐ UNSAT—OODRDR NO. (S)

Form No. MC2191

Inspector

*Patricia L. Colman*

Date

5/31/90

WHITE—Work Package


CANARY—QC Supv

PINK—Inspector

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Quality Control Inspection Report  
VOGTLE GENERATING PLANT—UNITS 1 & 2

Georgia Power   
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34172

MWO/ODR No. <u>19001576</u>	Building <u>"A" TRAIN DIESEL</u>	Procedure/Spec. No./Rev. <u>27563-C R2</u>
Room No./Level No. <u>103 / 1</u>	Sys/Start-Up Designator <u>2403</u>	Tag No. <u>12443 PS-DK-2</u>
Drawing No./Rev. <u>NA</u>	Vendor Manual Log No. <u>AK44401-509</u> <u>TRFED R11</u>	Other <u>NA</u>

- Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
- Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
- Upon completion of the inspection activity, enter results below and sign and date.

Remarks: Visually Verified: RECONNECTION OF TUBING BY  
CAP LINE PER STEP 4.2.59 AND DEENERGIZATION  
OF ALARM PER STEP 4.2.59.1. UNIT AVAILABLE EMER  
STATUS LIGHT ENERGIZED PER STEP 4.2.64.1 AND DROPPED  
PC. START POWER FAILURE ALARM DEENERGIZED PER  
STEP 4.2.64.2. RELAY R-23B DEENERGIZED PER  
STEP 4.2.66.1 INCORRECT ON DATA SHEET. SHOWS R-23D.  
FREQUENCY GENERATOR OFF AND TUBING FILA #B  
RECAPED PER STEP 4.2.72 DATA SHEET DOES NOT SHOW A/B  
4.2.74 TUBING LINES E16B AND E16C RECAPED  
4.2.76 TUBING LINES E16A AND E16C RECAPED.  
4.2.77.1 GROUP I PRESSURE < 2.5 PSID. THERE IS NO  
Sketch  
I.D. on Gauge stating it is GROUP I GAUGE ENG.  
PAUL COCHERY VERIFIED THIS GAUGE AS PROPER GAUGE  
PER ULVOR MANUAL AK44401-509 R1 PRESSURE GAUGE  
IS CORRECT

NA

Inspection Results

☒ SAT

☐ UNSAT—ODR/DR NO. (S)

6016A MCB 101

Inspector

John Williams

WHITE—Work Package

CANARY—OC. Supv

PINK—Inspector

Date

3-28-90

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WVWORD No./Other

19001576

I.R. 34172

Remarks

4.2.77.2 BY PASS TEST FAILURE LIGHT IS OVERSIZED  
4.2.77.3.1 BY PASS TEST FAILURE LIGHT EXCEEDED.

4.2.89.1 TURBINE RECONNECTED AT FITTING E10A

4.2.89.2 E10B

4.2.89.3 E10C

4.2.90 E92

4.2.91 E14

4.2.94 REPAIRING OF LIFTED WIRE PER LIFTED LEAD DATA  
4.2.95

VERIFIED ALSO LINES CHECKED PER LIFTED LEAD DATA  
CST. AND TURBINES REMOVED AND LIFTED WIRES REPAIRED.

CABLE 1ACBAGOSASR FOR STEP 4.2.94 TB. E10A

CABLE 1ACBAGOSASR FOR STEP 4.2.95 TB. E10B

Inspector

*W. J. Williams*

Date

3-29-70

WHITE—Work Package

CANARY—QC Supv

PS/K—Inspector

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08/17/04

# Quality Control Inspection Report

## VOGTLE GENERATING PLANT—UNITS 1 & 2

34189

Georgia Power  
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MWO/ODR No. 19001576	Building Diesel	Procedure/Spec No./Rev. 27563-C R/2
Room No./Level No. TRAIN A	Bye/Start-Up Designator 2403	Tag No. 12403.P5 DG 2
Drawing No./Rev. N/A	Vendor Manual Log No. N/A	Other N/A

- Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
- Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
- Upon completion of the inspection activity, enter results below and sign and date.

Remarks

① Started witnessing Engine Logic Testing at approximately 1500 CST using 27563-C R/2

M&TE used

Function Generator	VP 1283	CDD 7-27-90
Fluke	VP 1028	CDD 4-9-90
Fluke	VP 1-1044	CDD 4-8-90

② Visually witnessed the following steps performed in procedure 27563-C R/2

step 4.1.13 60 PSI at Control air pressure gauge

step 4.1.14 12.5 VDC across circuit breaker CB-1+2

Sketch

4.2.24.1	125 volts present
4.2.24.3	contact closed
4.2.24.4	Relays energized
4.2.24.5	Contact closed
4.2.24.6	S-I signal light Energized
4.2.24.7	Shutdown light de-Energized
4.2.24.8	No voltage on solenoid

continued on page 2

### Inspection Results

☒ SAT

☐ UNSAT—ODR/DR NO. 12

Inspector

J. P. Harvey

Date

3-29-90

WHITE—Work Package

CANARY—O.D. Supp.

PINK—Inspector

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MWO/ORD No./Other

19001576 IR 34189

Remarks

4.2.26.2

Shut down cylinder not extended

4.2.27

Tubing E-18 Reconnected

4.2.27.1

GROUP 1 PRESSURE gauge 160 PSI

4.2.27.2

Hi temp alarm de-energized

4.2.28.1

Stopping Light Energized

4.2.28.2

Low pressure alarm energized

4.2.28.5

Engine shutdown cylinder extended

4.2.30

E-42 Plug installed

4.2.30.1.1

Relay 1143 Energized

4.2.30.1.4

Ready to load Light energized

4.2.30.2.4

Ready to load Light de-energized

4.2.31.1

No voltage present

4.2.31.2

Relay R-513 Energized

4.2.32.1

Relay R-23B Energized

4.2.32.12

Relay R-35 Energized

4.2.32.12.1.1

Relay R-35 Energized

4.2.32.12.1.2

Emergency trip de-energized

4.2.35.2

Over speed trip de-energized

4.2.36.1

Relay R-23B de-energized

4.2.36.5

Emergency stop light de-energized

4.2.36.6

Stopping light de-energized

4.2.36.7

Relay R-35 de-energized

4.2.37.1

125 VDC present

4.2.37.2

DG Auto Start signal Energized

4.2.37.2.1

Relay R-313 Energized

4.2.41.1

Emergency trip alarm is Energized

4.2.41.3

Relay R-35 Energized

4.2.42.3

Relay R-35 de-energized

4.2.48.1

125 VDC present

4.2.48.2

Failure to start ALARM Energized

4.2.49.1

No voltage present

4.2.49.5

Starting Light Energized

4.2.49.6

Relay R-1 Energized

4.2.49.7

Running Light Energized

Inspector

J.C. Harvey

See continuation pg. 3

DATE 3-29-90

WHITE—Work Package

CANARY—QC Supv

PINK—Inspector

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Quality Control Inspection Report (CONTINUATION SHEET)  
VOGTLE GENERATING PLANT—UNITS 1 & 2

Georgia Power

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WORKORD No./Other

19001576

IR 34189

Remarks

step 4.2.44 per 3/29/90

step 4.2.50.1

Shutdown cylinder Extended

4.2.51.1

Hi bearing temp Alarm De-Energized

4.2.53.1

125V DC Present

4.2.55

Tubing E-68 Reconnected

4.2.55.1

Hi Pressure Alarm De-Energized

4.2.55.4

Shutdown Cylinder Not extended

4.2.57

Tubing E-23-1d Reconnected

4.2.57.1

Vibration Alarm De-energized

All km per 4.3.29.91

All steps were performed as required by  
procedure 77563-C 1/90

N

A

Inspector

J.C. Harvey

Date

3-29-90

WHITE—Work Package

CANARY—OC Study

PINK—Inspector

Int

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EQ EVALUATION CHECKLIST  
FOR USE ON PROJECT CLASSES Q111, Q212,  
Q313, Q013, Q015, Q11E, Q11J, Q12E, 61J

141

MWO NO. 19001576

PART A ORIGINAL PART

SECTION I

1. DESCRIPTION DIESEL GEN
2. TAG NO. 1-2403-G4-001
3. PROJECT CLASS 015
4. SPECIFICATION (EQGP) NO. X9AK01
5. MANUFACTURER DELAVAL
6. MODEL NO. N/A
7. PART NO. 1

PART B REPLACEMENT PART

1. DESCRIPTION \_\_\_\_\_
2. MFR NO. \_\_\_\_\_
3. STOCK NO. \_\_\_\_\_
4. SPECIFICATION (EQGP) NO. \_\_\_\_\_
5. MANUFACTURER \_\_\_\_\_
6. MODEL NO. \_\_\_\_\_
7. PART NO. \_\_\_\_\_
8. PO NO. \_\_\_\_\_

COMMENTS NO PARTS USED

SECTION II WORK PLANNING

1. ARE PROCEDURES, VENDOR MANUALS, DRAWINGS OR INSTRUCTIONS AVAILABLE TO DISASSEMBLE/REWORK COMPONENT?
2. ARE SPECIFICATION NUMBERS FOR ORIGINAL AND REPLACEMENT ITEMS THE SAME?
3. ARE MANUFACTURER MODEL/PART NUMBERS OF THE ORIGINAL AND REPLACEMENT PARTS THE SAME?
4. IS BULK MATERIAL LISTED ON ATTACHMENT ACCEPTABLE? LIST ITEM NO. FROM ATTACHMENT IF "NO" IS CHECKED.

✓ YES NO  
CJP 13/24/90  
(Init. Date)

YES NO  
YES NO  
YES NO  
(Init. Date)

N/A  
(Item No.)

NOTE

If items 2, 3, or 4 are checked No, the Checklist must be reviewed by the EQ Group.

- (N/A) PART(S) ARE ACCEPTABLE FOR USE  
(N/A) SEND TO EQ GROUP

7/24/90 14-290  
WFO DATE

SECTION III EQ GROUP EVALUATION

- [ ] PART IS ACCEPTABLE FOR USE [ ] PART IS UNACCEPTABLE FOR USE  
JUSTIFICATION FOR ACCEPTANCE:

FIGURE 5  
EQ ENGINEER DATE

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## VEGP FIRE PROTECTION CHECKLIST

1. MWO NO. 19001576 2. MPL/TAG NO. 124036400
3. LOCATION D.G. Bldg. "A" TRAIL
4. WILL THE WORK INSTALL, IMPAIR, MODIFY, ISOLATE, DEFEAT, OR REMOVE ANY OF THE FOLLOWING? IF THE ANSWER IS "YES" CHECK THE BOX, AND INDICATE APPROPRIATE DETAILS.
- ☐ SPRINKLER SYSTEM
  - ☐ INTERIOR HOSE STATION
  - ☐ HALON SYSTEM
  - ☐ DETECTION SYSTEM
  - ☐ EMERGENCY LIGHTING SYSTEM
  - ☐ PERMANENT COMBUSTIBLES (CABLE, WOOD, PLASTIC, ETC.)
  - ☐ STRUCTURAL STEEL, OR RACEWAY FIREPROOFING
  - ☐ FIRE SUPPRESSION SUPPLY SYSTEM (PUMPS, TANKS, ETC.)
  - ☐ CONDUIT SEALS OR EQUIPMENT ENCLOSURE (CABINET HOUSING)
  - ☐ FIRE EXTINGUISHER
  - ☐ COMMUNICATIONS SYSTEM
  - ☐ RCP OIL COLLECTION SYSTEM
  - ☐ SEISMIC STANDPIPE SYSTEM
5. WILL THE WORK DEFEAT, MODIFY OR IMPAIR ANY OF THE FOLLOWING FIRE SEPARATION FEATURES? IF THE ANSWER IS "YES" CHECK THE BOX, AND INDICATE APPROPRIATE DETAILS.
- ☐ A. FIRE AREA BOUNDARY (WALL, ETC.)
  - ☐ B. PASSIVE AREA BOUNDARY PENETRATION SEAL ASSEMBLY.
    - PENETRATION SEAL
    - WALL BLOCKOUT
    - FLOOR PLUG OR HATCH
    - CABLE TRAY OR CONDUIT WRAP
    - RADIANT ENERGY SHIELD
  - ☐ C. ACTIVE FIRE AREA BOUNDARY PENETRATION SEAL.
    - FIRE DOOR
    - FIRE DAMPER
6. IF ALL THE ANSWERS IN BLOCKS 4 and 5 ARE "NO", STOP THE EVALUATION HERE, AND ENTER "NO" IN BLOCK 11 OF THE MWO FORM. IF ANY QUESTIONS WERE ANSWERED "YES", ENTER "YES" IN BLOCK 11 OF THE MWO FORM.
- EVALUATOR JH Pde DATE 3/28/90
- POST WORK REVIEW (COMPLETE "A, B, OR C" BELOW)
- (A) THE CONDITION IMPACTING THE FIRE PROTECTION COMPONENTS LISTED ABOVE HAS BEEN REMOVED. FPE N/A DATE
  - (B) THE FIRE PROTECTION COMPONENT IS STILL IMPAIRED. FPE  DATE
  - (C) RESTORATION OF THE IMPAIRMENT HAS BEEN TRANSFERRED (Ref: ) AND THE FIRE PROTECTION LCO LOG HAS BEEN CHANGED TO REFERENCE THE NEW MWO FOR THIS IMPAIRMENT. FPE  DATE

FIGURE 1

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## POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

Sheet 1 of 1

1 of 12

☒ Safety Related/QC Holdpoints☐ Non-Safety Related

## NOTES

- a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.

- d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- e. If holdpoints do not apply, NA QC Verification block.
- f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC HOLD POINT QC VERIF. BY/DATE
OPEN LINE ES-4	1-2403-P5-062	TAJ 3/29/90	DJP 3/29/90		DJP 3/29/90	TAJ 3-29-90	TAJ 3-29-90
E4-2							
LS-105							
L4-102							
E19-53							
E22-56							
QC E7-E17-51							
E21-55							
E23-57							
E18-52							
		TAJ 3/29/90	DJP 3/29/90		DJP 3/29/90	TAJ 3-29-90	TAJ 3-29-90

## POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

Sheet 1 of 1

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☒ Safety Related/QC Holdpoints☐ Non-Safety Related

## NOTES

a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.

b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.

c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.

d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.

e. If Holdpoints do not apply, NA QC Verification block.

f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION			QC HOLD POINT	
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE		
ORIG TAGS	E24-59	1-2403-P5-DG2	TAJ 3/29/90	DP 3/29/90	DP 3/29/90	TAJ 3-29-90	TAJ 3-29-90	T.W. 3-29-90	
	E5-77								
	E6-78								
	E57-46								
	E58-47								
	E59-48								
	E60-49								
	F1-73								
	F2-74								
✓	F3-75								
		TAJ 3/29/90	DP 3/29/90		DP 3/29/90	TAJ 3-29-90	TAJ 3-29-90	T.W. 3-29-90	



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# POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

Sheet 1 of 1

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☒ Safety Related/QC Holdpoints

☐ Non-Safety Related

## NOTES

a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.

b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.

c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.

d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.

e. If holdpoints do not apply, NA QC Verification block.

f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC HOLDPOINT QC VERIF. BY/DATE
OPEN LDK F9-76	1-2403-P5-DG2	RAJ 3/29/90	DJP 3/29/90		DR 3/29/90	RAJ 329-90	T.W. 329-90
L30-170							
L31-171							
L32-172							
L33-173							
L23-153							
L20-141							
L21-144							
L24-155							
L51-159		RAJ 3/29/90	DJP 3/29/90		DR 3/29/90	RAJ 329-90	T.W. 329-90

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# POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

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[X] Safety Related/QC Holdpoints

[ ] Non-Safety Related

## NOTES

- To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- If holdpoints do not apply, NA QC Verification block.
- If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION			QC HOLD POINT
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	
OP&W LHK L52-160	1-2403-P5-DG2	RAJ 3/29/90	DP 3/29/90		DP 3/29/90	RAJ 3-29-90	DP 3-29-90	
L53-169								
L54-165								
L55-166								
L56-167								
L57-168								
L58-169								
L59-179								
L60-180								
L35-175		RAJ 3/29/90	DP 3/29/90		DP 3/29/90	RAJ 3-29-90	DP 3-29-90	

NA

DP 3/29/90

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# POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

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☒ Safety Related/QC Holdpoints

☐ Non-Safety Related

## NOTES

- To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s), scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- If holdpoints do not apply, NA QC Verification block.
- If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC HOLD POINT QC VERIF. BY/DATE
OPEN LINES L36-176	1-2403-PS-DG2	RAJ 3/29/90	DJP 3/29/90		DJP 3/29/90	RAJ 3-29-90	W 3-29-90
L2-137							
L10-138							
L11-139							
L12-140							
L14-336							
L15-337							
L49-5981							
L50-5982							
L25-79-180		RAJ 3/29/90	DJP 3/29/90		DJP 3/29/90	RAJ 3-29-90	W 3-29-90



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## POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

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☒ Safety Related/QC Holdpoints☐ Non-Safety Related

## NOTES

- a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- e. If holdpoints do not apply, NA QC Verification block.
- f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION			QC HOLD POINT
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	QC VERIF. BY/DATE
OPEN LW16 L26-90-180	1-2403-PS-DG2	TAJ 3/29/90	DR 3/29/90		DR 3/29/90	TAJ 3/29/90	TAJ 3/29/90	TAJ 3/29/90
CS-244					DR 3/29/90			
C9-245								
C5-246								
C11-247								
C7-239								
C8-240								
G3-253								
G4-254								
G5-255		TAJ 3/29/90	DR 3/29/90		DR 3/29/90	TAJ 3/29/90	TAJ 3/29/90	TAJ 3/29/90

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**POWER AND SIGNAL REMOVAL**

☒ **Safety Related/QC Holdpoints**

**DATA SHEET**

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**NOTES**

☐ **Non-Safety Related**

- a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- e. If holdpoints do not apply, NA QC Verification block.
- f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LIFTS OFF, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC HOLD POINT QC VERIF. BY/DATE
OPEN LOCK G6-256	1-2403-P5-DG2	RAJ 3/29/90	DP 3/29/90		DP 3/29/90	RAJ 3-29-90	200 3-29-90
G7-257							
G8-258							
G9-259							
G10-260							
G11-261 TRAF							
G12-262 TRAF							
G13-263							
G14-264							
G15-265		RAJ 3/29/90	DP 3/29/90		DP 3/29/90	RAJ 3-29-90	200 3-29-90

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## POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

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☒ Safety Related/QC Holdpoints

☐ Non-Safety Related

### NOTES

- a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- e. If holdpoints do not apply, NA QC Verification block.
- f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. OC BY/DATE HOLD POINT
OPED LINK G16-266	1-2405-PS-DG2	RAJ 3/29/90	DJP 3/29/90		DJP 3/29/90	RAJ 3-29-90	266 3-29-90
G17-267							
G18-268							
G19-269							
G20-270							
G21-271							
G22-272							
G23-273							
G24-274							
✓ H1-275		RAJ 3/29/90	DJP 3/29/90		DJP 3/29/90	RAJ 3-29-90	275 3-29-90



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 976-11-11  
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**POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET**

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☒ Safety Related/QC Holdpoints

☐ Non-Safety Related

**NOTES**

- a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00365-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- e. If holdpoints do not apply, NA QC Verification block.
- f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC HOLDPOINT QC VERIF. BY/DATE
OPW LWS H2-276	1-2403-PS-0G2	RAJ 3/29/90	DJP 3/29/90		DR 3/29/90	RAJ 3-29-90	12/3/29/90
H19-298							
H20-299							
H3-277							
H4-278							
H7-281							
H8-282							
H9-283							
H10-284							
H11-285							
		RAJ 3/29/90	DR 3/29/90		DR 3/29/90	RAJ 3-29-90	12/3/29/90

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# POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

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[X] Safety Related/QC Holdpoints

[ ] Non-Safety Related

## NOTES

- To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/schema number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
- Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
- Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
- If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
- If holdpoints do not apply, NA QC Verification block.
- If applicable, tags shall remain intact and will only be removed by the independent verifier.

IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	REMOVAL			RECONNECTION		
		PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC HOLD POINT VERIF. BY/DATE
OPW WUK H12-286	1-2403-PS-DG2	NAJ 3/29/90	DP 3/29/90		DP 3/29/90	NAJ 3-29-90	202 3-29-90
H13-287							
H14-288							
H15-289							
H16-290							
H17-296							
H18-297							
A35-612							
A36-613							
E7-79		NAJ 3/29/90	DR 3/29/90		DR 3/29/90	NAJ 3-29-90	202 3-29-90





POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

(X) Safety Related/QC Holdpoints

[ ] Non-Safety Related

## NOTES

- Sheet 1 of 1  
 12 of 12

IDENTIFY LEADS LIFTED  
 JUMPERS TAGS

LOCATION

HOLDPOINTS

MA QC VERIFICATION SHEET

[ ] Non-Safety Related

NOTES

  - a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift Supervisor and comply with his instructions.
  - b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.
  - c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.
  - d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.
  - e. If holdpoints do not apply, MA QC Verification block.
  - f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

[illegible]

## COMPLETION SHEET

PROCEDURE 27563-C	REVISION 2	H20 190001576	
TAG NO. 1-2403-G4-001	DESCRIPTION DIESEL GENERATOR	SHEET 1 OF 30	
SERIAL NO. 76021	MANUFACTURER ENTERPRISE	MODEL DSRV-16-4	
TEST EQUIPMENT USED See Block 27	DATE See Block 27	<input checked="" type="checkbox"/> Safety Related/QC Hold Point <input type="checkbox"/> Non-Safety Related	

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.1.1	Prerequisites met	SA 12-29-90	NO	RA 12/28/90
4.1.2	Shift Supervisor notified			
4.1.5.1	Tubing E-10A dis-connected	RA 12-29-90		
4.1.5.2	Tubing E-10B dis-connected	SA 12-29-90		
4.1.5.3	Tubing E-10C dis-connected			
4.1.6.1	Tubing E-92 dis-connected			
4.1.7.1	Tubing E-14 dis-connected	SA 12-29-90		
4.1.8.1	A-Bank Starting Air Valve. Terminals E5 (4) and E4 (2).	RA 12-29-90		
4.1.8.2	B-Bank Starting Air Valve. Terminals L5 (105) and L4 (102).	RA 12-29-90		

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.1.8.3	Field Flash, Exciter Reg Enable. Terminals E19 (53), E22 (56), E17 (51), and E21 (55).	ZAT 12/27/60	No	JCH-13/28/70
4.1.8.4	Preset V.R. and Gov.: Terminals E23 (57), E18 (52), and E24 (59).	/	/	/
4.1.8.5	Ready to Load, DG Brkr.: Terminals F5 (77) and F6 (78).	/	/	/
4.1.8.6	Ready to Load, HVAC Sys.: Terminals E57 (46) and E58 (47).	/	/	/
4.1.8.7	Ready to Load, Spare. Terminals E59 (48) and E60 (49).	/	/	/
4.1.8.8	Start, Spare. Terminals F1 (73) and F2 (74).	/	/	/
4.1.8.9	Stop, Spare. Terminals F3 (75) and F4 (76).	/	/	/
4.1.8.10	Pre-position Gov and V.R. Terminals L30 (170) and L31 (171).	/	/	/
4.1.8.11	186C Trip Delay Terminals L32 (172) and L33 (173).	/	/	/
4.1.8.12	Field Flash, Exciter Reg Enable. Terminals L23 (153), L20 (141), L21 (144), and L24 (155).	/	/	/
4.1.8.13	Trip 52G. Terminals L51 (159) and L52 (160).	/	/	/
4.1.8.14	Emergency Stop. Terminals L53 (164) and L54 (165).	ZAT 12/27/60	↓	↓



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MAINT.  
INIT/DATEHOLD  
POINT  
(Yes/No)QC  
INIT/DATE4.1.8.15 Running, Spare. Terminals  
L55 (166) and L56 (167).4.1.8.16 Running, Spare. Terminals  
L57 (168) and L58 (169).4.1.8.17 Overspeed, Spare. Terminals  
L59 (179) and L60 (180).4.1.8.18 Running W/Delay. Terminals  
L35 (175) and L36 (176).4.1.8.19 Ready to Load - HVAC System.  
Terminals L9 (137) and  
L10 (138).4.1.8.20 Ready to Load - Spare.  
Terminals L11 (139) and  
L12 (140).4.1.8.21 Emergency Stop. Terminals  
L14 (336) and L15 (337).4.1.8.22 ERF Computer. Terminals  
L49 (S4B1) and L50 (S4B2).4.1.8.23 Emergency Stop Annunciation.  
Terminals L25 (79-180) and  
L26 (90-180).4.1.8.24 CC Fan #1. Terminals  
C3 (244) and C9 (245).4.1.8.25 CC Fan #2. Terminals  
C5 (246) and C11 (247).4.1.8.26 Generator Space Heater  
Control. Terminals  
C7 (239) and C8 (240).4.1.8.27 Running Contacts. Terminals  
G3 (253), G4 (254), G5 (255),  
G6 (256), G7 (257), G8 (258),  
G9 (259), G10 (260),  
G11 (161), and G12 (162).

ZAT 13/27/60

No

KLT 13/28/60

ZAT 13/27/60

PROCEDURE  
STEPDESCRIPTIONMAINT.  
INIT/DATEHOLD  
POINT  
(Yes/No)QC  
INIT/DATE

- 4.1.8.28 Running W/Delay Contacts.  
Terminals G13 (263),  
G14 (264), G15 (265),  
G16 (266), G17 (267),  
G18 (268), G19 (269),  
G20 (270), G21 (271),  
G22 (272), G23 (273)  
and G24 (274).
- 4.1.8.29 Loss of DC Annunciation.  
Terminals H1 (275) and  
H2 (276).
- 4.1.8.30 Mechanical Trouble Alarm.  
Terminals H19 (298) and  
H20 (299).
- 4.1.8.31 Lockout Alarm. Terminals  
H3 (277) and H4 (278).
- 4.1.8.32 Failed to Start. Terminals  
H7 (281) and H8 (282).
- 4.1.8.33 Unit Available Local Control.  
Terminals H9 (283) and  
H10 (284).
- 4.1.8.34 Unit Available. Terminals  
H11 (285), H12 (286),  
H13 (287), H14 (288),  
H15 (289), and H16 (290).
- 4.1.8.35 Alarm. Terminals  
H17 (296) and H18 (297).
- 4.1.8.36 Loss of DC Power.  
Terminals A35 (612) and  
A36 (613).
- 4.1.8.37 DC Brkr Inop. Terminals  
F7 (79) and F8 (80).
- 4.1.9 Toggle switches to  
hourmeter open.

ZAJ 13/27/60

No

KJ-13/28/90

ZAJ 13/27/60

ZAJ 13/27/60

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.1.10.1	At on-engine "EJBA" Junction Box, disconnect engine wire number 4 and tape wire end.	RAJ 13/29/90	No	JCH 13/28/90
4.1.11.1	At on-engine "EJBB" Junction Box, disconnect engine wire number 105 and tape wire end.	RAJ 13/29/90		
4.1.12	Verify that all circuit breakers are closed.	RAJ 13/29/90		
4.1.13	Verify 60 psi at control air pressure gauge.	RAJ 13/29/90		
4.1.14	Verify 125 vdc across circuit breakers CB-1 and CB-2, CB-3 and CB-4.	RAJ 13/29/90	QC HOLD POINT	JCH 13/28/90
4.2.1	Jumper terminals L45 (101) and L48 (129), Control Room permissive for maintenance mode.	RAJ 13/29/90	QC HOLD POINT	JCH 13/28/90
4.2.2.1	Disconnect jumper across terminals H4 (278) and H12 (286) and verify:	N/A W 13/28/90		
4.2.2.2	Open contact across terminals H3 (277) and H4 (278).			
4.2.2.3	Contact OPEN			
4.2.2.4	Contact OPEN			
4.2.2.5	Contact CLOSED			
4.2.2.6	Contact CLOSED			
4.2.3.1	Shutdown Cylinder EXTENDED			
4.2.3.2	Lockout alarm ENERGIZED			

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.3.3	Light Energized	A/ACSC 13/7/80	/	/
4.2.3.4	Gauge indicates 0 PSI	/	/	/
4.2.3.5	Lockout Pin REMOVED	/	/	/
4.2.3.6	STOPPING light ENERGIZED	/	/	/
4.2.3.7	Contact CLOSED	/	/	/
4.2.3.8	Contact CLOSED	/	/	/
4.2.3.9	Contact CLOSED	/	/	/
4.2.3.10	Contact CLOSED	/	/	/
4.2.3.11	Contact OPEN	/	/	/
4.2.3.12	Contact OPEN	/	/	/
4.2.4	Jumper Removed	/	✓ A 10/3/78	/
4.2.5.1	125VDC present	/	/	/
4.2.6.1	No voltage present	/	/	/
4.2.6.2	No voltage present	/	/	/
4.2.7	Wire disconnected	/	/	/
4.2.7.1	Relay R-35 De-energized	/	/	/
4.2.7.2	Contact OPEN	/	/	/
4.2.7.3	Lockout alarm de-energized	/	/	/
4.2.8.1	Barring device engaged alarm ENERGIZED	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.8.2	Contact CLOSED	N/A 12/2/90	/	/
4.2.8.3	Relay R-35 ENERGIZED	/	/	/
4.2.9.1.1	125VDC Present	/	/	/
4.2.9.2.1	No voltage present	/	/	/
4.2.9.2.2	No voltage present	/	/	/
4.2.10.1	Barring device engaged alarm ENERGIZED	/	/	/
4.2.10.2	Contact OPEN	/	/	/
4.2.10.3	Relay R-35 DE-ENERGIZED	/	/	/
4.2.11	Wire Reconnected	/	/	/
4.2.11.1	Relay R-35 DE-ENERGIZED	/	/	/
4.2.11.2	Lockout alarm ENERGIZED	/	/	/
4.2.12.1	Shutdown cylinder RETRACTED	/	/	/
4.2.12.2	Pressure Gauge reads 60PSI	/	/	/
4.2.12.3	Lockout alarm DE-ENERGIZED	/	/	/
4.2.12.4	Emergency status light ENERGIZED	/	/	/
4.2.12.5	Lockout pin in LOCKED position	/	/	/
4.2.12.6	STOPPING light DE-ENERGIZED	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.12.7	BARRING device RETRACTED	N/A 1/3/29/90	/	/
4.2.12.8	Locking pin INSTALLED	/	/	/
4.2.13.1	No voltage PRESENT	/	/	/
4.2.14.1	No voltage PRESENT	/	/	/
4.2.14.2	"A" power light DE-ENERGIZED	/	/	/
4.2.14.3	Panel "A" failure alarm ENERGIZED	/	/	/
4.2.14.4	Contact CLOSED	/	/	/
4.2.15	Timer REMOVED	/	/	/
4.2.16.1	125VDC PRESENT	/	/	/
4.2.16.2	Alarm ENERGIZED	/	/	/
4.2.16.3	Relay DE-ENERGIZED	/	/	/
4.2.16.4	Contact CLOSED	/	/	/
4.2.16.5	Contact CLOSED	/	/	/
4.2.16.6	Relay R-35 ENERGIZED	/	/	/
4.2.16.7	Horn ENERGIZED	/	/	/
4.2.17.1	Horn DE-ENERGIZED	/	/	/
4.2.17.2	Contact OPEN	/	/	/
4.2.17.3	Relay R-35 DE-ENERGIZED	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.17.4	Failed to start alarm DE-ENERGIZED	N/A 12/13/70	/	/
4.2.18.1	Contact CLOSED	/	/	/
4.2.18.2	Contact CLOSED	/	/	/
4.2.18.3	No voltage PRESENT	/	/	/
4.2.18.4	Contact CLOSED	/	/	/
4.2.18.5	Contact CLOSED	/	/	/
4.2.18.6	Running light ENERGIZED	/	/	/
4.2.18.7	Failed to start alarm DE-ENERGIZED	/	/	/
4.2.18.8	Contact CLOSED	/	/	/
4.2.18.9	Contact OPEN	/	/	/
4.2.18.10	Contact CLOSED	/	/	/
4.2.18.11	Relay R 1 ENERGIZED	/	N/A 12/13/70	/
4.2.18.12	Contact CLOSED	/	/	/
4.2.18.13	Contact CLOSED	/	/	/
4.2.18.14	Contact CLOSED	/	/	/
4.2.18.15	Contact CLOSED	/	/	/
4.2.18.16	Contact OPEN	/	/	/
4.2.18.17	Contact OPEN	/	/	/
4.2.18.18	Contact OPEN	/	/	/
4.2.18.19	Contact CLOSED	/	/	/
4.2.18.20	Contact CLOSED	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.18.21	Contact CLOSED	NA 1/3/90	/	/
4.2.18.22	Contact OPEN	/	/	/
4.2.18.23	Contact OPEN	/	/	/
4.2.18.24	Contact OPEN	/	/	/
4.2.19	Maintenance Button Pushed	/	/	/
4.2.19.1	Maintenance mode alarm DE-ENERGIZED	/	/	/
4.2.20.1	Contact OPEN	/	/	/
4.2.20.2	Shutdown cylinder EXTENDED	/	/	/
4.2.20.3	Cylinder retracted and VENTED	/	/	/
4.2.20.4	Contact OPEN	/	/	/
4.2.20.5	Contact CLOSED	/	/	/
4.2.20.6	Unit running light DE-ENERGIZED	/	/	/
4.2.20.7	Contact OPEN	/	/	/
4.2.20.8	Contact OPEN	/	/	/
4.2.20.9	Contact OPEN	/	/	/
4.2.21.1	Maintenance mode alarm ENERGIZED	/	/	/
4.2.22.1	Maintenance mode alarm DE-ENERGIZED	/	/	/
4.2.24.1	125VDC PRESENT	DR 1/3/90	OC HOLD POINT	1/3/90
4.2.24.2.1	Maintenance mode alarm DE-ENERGIZED	PA 1/3/90	NO	1/3/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.24.3	Contact CLOSED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.4	Relays ENERGIZED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.5	Contact CLOSED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.6	Safety injection signal light ENERGIZED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.7	Shutdown light DE-ENERGIZED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.8	No voltage on solenoid	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.9	Jumper REMOVED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.24.10	EMERGENCY start alarm ENERGIZED	ZAJ 13/29/90	NO	13/29/90...
4.2.24.11	Contact CLOSED	N/A 13/29/90		
4.2.24.12	Contact CLOSED	N/A 13/29/90		
4.2.25.1	Stopping light DE-ENERGIZED	ZAJ 13/29/90		
4.2.26.1	Pressure gauge below 25 PSI	ZAJ 13/29/90		
4.2.26.2	Shutdown cylinder NOT EXTENDED	ZAJ 13/29/90	OC HOLD POINT	13/29/90
4.2.26.3	H1 temp lube oil alarm ENERGIZED	ZAJ 13/29/90	NO	13/29/90
4.2.26.4	Stopping light NOT ENERGIZED	ZAJ 13/29/90		
4.2.26.5	Contact CLOSED	N/A 13/29/90		
4.2.26.6	Contact CLOSED annunciator "ON"	N/A 13/29/90		
4.2.27	Tubing E-18 RECONNECTED	ZAJ 13/29/90	OC HOLD POINT	13/29/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE
4.2.27.1	Group 1 pressure gauge 60 PSI	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13/29/90</u>
4.2.27.2	Hi temp alarm DE-ENERGIZED	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13/29/90</u>
4.2.27.3	Contact OPEN	<u>N/A CJP 13/28/90</u>	No	<u>1/13-28-90</u>
4.2.27.4	Contact OPEN	<u>N/A CJP 13/28/90</u>	↓	↓
4.2.28.1	Stopping light ENERGIZED	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13/29/90</u>
4.2.28.2	Lo pressure alarm ENERGIZED	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13/29/90</u>
4.2.28.3	Contact CLOSED	<u>N/A CJP 13/28/90</u>	No	<u>1/13-28-90</u>
4.2.28.4	Contact CLOSED	<u>N/A CJP 13/28/90</u>	↓	↓
4.2.28.5	Engine shutdown Cylinder EXTENDED	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13-29-90</u>
4.2.29.1	Maintenance mode alarm DE-ENERGIZED	<u>2/13/89/40</u>	No	<u>1/13-28-90</u>
4.2.30	Plug installed on E-92	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13-29-90</u>
4.2.30.1	Relay R11B ENERGIZED	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13-29-90</u>
4.2.30.1.1	Contact CLOSED	<u>N/A CJP 13/28/90</u>	No	<u>1/13-28-90</u>
4.2.30.1.2	Contact CLOSED	↓	↓	↓
4.2.30.1.3	Contact CLOSED	↓	↓	↓
4.2.30.1.4	Ready to load light ENERGIZED	<u>2/13/89/40</u>	OC HOLD POINT	<u>1/13-29-90</u>
4.2.30.2	Jumper Removed	<u>2/13/89/40</u>	No	<u>1/13-28-90</u>
4.2.30.2.1	Contact OPEN	<u>2/13/89/40</u>	↓	↓
4.2.30.2.2	Contact OPEN	<u>2/13/89/40</u>	↓	↓

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PROCEDURE STEP	DESCRIPTION	MAINT. -- INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.30.2.3	Contact OPEN	N/ACJP 13/29/90	NO	KUH 13/28/90
4.2.30.2.4	Ready to load light DE-ENERGIZED RAJ 3-29-90	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.31.1	No voltage PRESENT	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.31.2	Relay R-5B ENERGIZED	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.32.1	Relay R-23B ENERGIZED	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.32.2	Contact CLOSED	N/ACJP 13/29/90	NO	KUH 13/29/90
4.2.32.3	Contact CLOSED	1		
4.2.32.4	Contact CLOSED	1		
4.2.32.5	Contact CLOSED	1		
4.2.32.6	Emergency Stop ENERGIZED	RAJ 13/29/90		
4.2.32.7	Stopping light ENERGIZED	RAJ 13/29/90		
4.2.32.8	Pressure at Solenoid 3B	RAJ 13/29/90		
4.2.32.9	Unit available light DE-ENERGIZED	RAJ 13/29/90		
4.2.32.9.1	No change in status light	RAJ 13/29/90		
4.2.32.10	Overspeed alarm ENERGIZED	RAJ 13/29/90		
4.2.32.11	Contact CLOSED	N/ACJP 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.32.12	Relay R-35 ENERGIZED	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.32.12.1.1	Relay R-35 ENERGIZED	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90
4.2.32.12.1.2	Emergency trip DE-ENERGIZED	RAJ 13/29/90	OC HOLD POINT	KUH 13-29-90



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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE
4.2.32.13.1	No voltage present	<u>ZAT/3-27-90</u>	<u>NO</u>	<u>WV/13-28-90</u>
4.2.32.13.2	No voltage present	<u>ZAT/3-24-90</u>		
4.2.33	Cover INSTALLED	<u>ZAT/3-27-90</u>		
4.2.35.1	Contact OPEN	<u>N/A CJP/13/29/90</u>	<u>↓</u>	<u>WV/13-28-90</u>
4.2.35.2	Overspeed trip DE-ENERGIZED	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-28-90</u>
4.2.35.3	Contact OPEN	<u>N/A CJP/13/29/90</u>	<u>NO</u>	<u>WV/13-28-90</u>
4.2.36.1	Relay R23B DE-ENERGIZED	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.36.2	Contact OPEN	<u>N/A CJP/13/29/90</u>	<u>NO</u>	<u>WV/13-28-90</u>
4.2.36.3	Contact OPEN	<u>↓</u>		
4.2.36.4	Contact OPEN	<u>↓</u>		
4.2.36.5	Emergency stop light DE-ENERGIZED	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.36.6	Stopping light DE-ENERGIZED	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.36.7	Relay R-35 DE-ENERGIZED	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.37.1	125VDC present	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.37.2	DG Auto start signal ENERGIZED	<u>ZAT/3-27-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.38.1	No voltage present	<u>ZAT/3-27-90</u>	<u>NO</u>	<u>WV/13-28-90</u>
4.2.38.2	DG Auto start signal DE-ENERGIZED	<u>ZAT/3-27-90</u>		
4.2.39.1	Contact CLOSED	<u>N/A CJP/13/29/90</u>	<u>↓</u>	<u>WV/13-28-90</u>
4.2.39.2.1	Relay R23B ENERGIZED	<u>WV/13-29-90</u>	OC HOLD POINT	<u>WV/13-29-90</u>
4.2.39.2.2	Contact CLOSED	<u>N/A CJP/13/29/90</u>	<u>NO</u>	<u>WV/13-28-90</u>

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE
4.2.39.2.3	Contact CLOSED	N/A CJP 3/28/90	NO	JCU-13/28/90
4.2.41.1	Emergency trip alarm is ENERGIZED	DJP 13/29/90	OC HOLD POINT	JCU-13-29-90
4.2.41.2	Contact CLOSED	N/A CJP 13/28/90	NO	JCU-13/28/90
4.2.41.3	Relay R-35 ENERGIZED	DJP 13/29/90	OC HOLD POINT	JCU-13-29-90
4.2.42.1	Emergency trip alarm DE-ENERGIZED	DJP 13/29/90	OC HOLD POINT	JCU-13-29-90
4.2.42.2	Contact OPEN	N/A CJP 13/28/90	NO	JCU-13/28/90
4.2.42.3	Relay R-35 DE-ENERGIZED	DJP 13/29/90	OC HOLD POINT	JCU-13-29-90
4.2.44	Jumper Disconnected	DJP 13/29/90	NO	JCU-13/29/90
4.2.45.1	125VDC across solenoid 202-6A	N/A CJP 13/28/90		
4.2.45.2	Power available light ENERGIZED			
4.2.45.3	Annunciator DE-ENERGIZED			
4.2.45.4	Contact OPEN			
4.2.46.1	No voltage across solenoid 202-6B	DJP 13/29/90		
4.2.46.2	Power available light DE-ENERGIZED	DJP 13/29/90		
4.2.46.3	Power "B" failure ALARM ENERGIZED	DJP 13/29/90		
4.2.46.4	CONTACT CLOSED	N/A CJP 13/28/90		
4.2.48.1	125VDC PRESENT	DJP 13/29/90	OC HOLD POINT	JCU-13-29-90
4.2.48.2	FAILURE TO START ALARM ENERGIZED	DJP 13/29/90	OC HOLD POINT	JCU-13-29-90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.49.1	No voltage present	DSP 13/29/90	OC HOLD POINT	10/13/29-90
4.2.49.2	CONTACT CLOSED	N/A CIP 13/28/90		
4.2.49.3	OPEN CIRCUIT	↓ 1		N/A 13/28/90
4.2.49.4	CONTACT CLOSED	↓ 1		
4.2.49.4	CONTACT CLOSED	↓ 1		
4.2.49.5	STARTING LIGHT ENERGIZED	DSP 13/29/90	OC HOLD POINT	10/13/29-90
4.2.49.6	Relay R1 ENERGIZED	DSP 13/29/90	OC HOLD POINT	10/13/29-90
4.2.49.7	RUNNING LIGHT ENERGIZED	DSP 13/29/90	OC HOLD POINT	10/13/29-90
4.2.50.1	SHUTDOWN CYLINDER EXTENDED	DSP 13/29/90	OC HOLD POINT	10/13/29-90
4.2.50.2	Contact Closure	N/A CIP 13/28/90	No	10/13/29-90
4.2.50.3	High Temperature trip ENERGIZED	DSP 13/29/90		
4.2.50.4	OPEN CIRCUIT	N/A CIP 13/28/90		
4.2.50.5	Relay R1, R1AUX, and R2 are reset	DSP 13/29/90		
4.2.50.6	Contact Closed	N/A CIP 13/28/90		
4.2.50.7	Contact closed	↓ 1		
4.2.50.8	Unit running light DE-ENERGIZED	DSP 13/29/90		
4.2.50.9	Stopping light ENERGIZED	DSP 13/29/90		
4.2.50.10	Contact CLOSED	N/A CIP 13/28/90		
4.2.50.11	CONTACT CLOSED	↓ 1		
4.2.51.1	H1 bearing temp ALARM DE-ENERGIZED	DSP 13/29/90	OC HOLD POINT	10/13/29/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.51.2	CONTACT OPEN	N/A CIP 13/20/90	NO	PCW 13/28/90
4.2.51.3	CONTACT OPEN	↓	↓	↓
4.2.53.1	125V DC PRESENT	DSP 13/29/90	QC HOLD POINT	PCW 13-29-90
4.2.53.2	CONTACT CLOSED	N/A CIP 13/20/90	NO	PCW 13/20/90
4.2.53.3	RELAYS R1, R1A R2, ENERGIZED	DSP 13/29/90		
4.2.53.4	SHUTDOWN SYSTEM ACTIVE Light DE-ENERGIZED	DSP 13/29/90		
4.2.53.5	NO VOLTAGE PRESENT	DSP 13/29/90		
4.2.53.6	Jumper Removed	DSP 13/29/90		
4.2.53.7	Contact CLOSED	N/A CIP 13/20/90		
4.2.54.1	H1 Pressure Alarm ENERGIZED	DSP 13/29/90		
4.2.54.2	ENGINE SHUTDOWN CYLINDER NOT EXTENDED	DSP 13/29/90		
4.2.54.3	CONTACT CLOSED	N/A CIP 13/20/90		
4.2.54.4	CONTACT CLOSED	↓	↓	↓
4.2.55	TUBING Z-68 RECONNECTED	DSP 13/29/90	QC HOLD POINT	PCW 13-29-90
4.2.55.1	H1 Pressure Alarm DE-ENERGIZED	DSP 13/29/90	QC HOLD POINT	PCW 13-29-90
4.2.55.2	CONTACT OPEN	N/A CIP 13/20/90	NO	PCW 13/25/90
4.2.55.3	CONTACT OPEN	↓	↓	↓
4.2.55.4	SHUTDOWN CYLINDER NOT EXTENDED	DSP 13/29/90	QC HOLD POINT	PCW 13-29-90
4.2.56.1	No voltage present	DSP 13/29/90	NO	PCW 13/25/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.56.2	CONTACT CLOSED	N/A CIP 13/28/90	No	INT 13/28/90
4.2.56.3	SHUTDOWN CYLINDER EXTENDED	DIP 13/29/90		
4.2.56.4	VIBRATION ALARM ENERGIZED	DIP 13/29/90		
4.2.56.5	CONTACT CLOSED	N/A CIP 13/28/90		
4.2.56.6	CONTACT CLOSED	↓		
4.2.56.7	CONTACT OPEN	↓		
4.2.57	TUBING E-23-E RECONNECTED	DIP 13/29/90	OC HOLD POINT	KN 13/29/90
4.2.57.1	VIBRATION ALARM DE-ENERGIZED	DIP 13/29/90	OC HOLD POINT	INT 13/29/90
4.2.57.2	CONTACT OPEN	N/A CIP 13/28/90	No	INT 13/28/90
4.2.57.3	CONTACT OPEN	↓		
4.2.58.1	Jacket Water Lo PRESSURE ENERGIZED	DIP 13/29/90		
4.2.58.2	ENGINE SHUTDOWN CYLINDER EXTENDED	DIP 13/29/90		
4.2.58.3	CONTACT CLOSED	N/A CIP 13/28/90		
4.2.58.4	CONTACT CLOSED	↓		
4.2.58.5	CONTACT CLOSED	↓		
4.2.58.6	CONTACT CLOSED	↓		
4.2.58.7	CONTACT CLOSED	↓		
4.2.59	TUBING E-14 RECONNECTED	DIP 13/29/90	OC HOLD POINT	INT 13/29/90
4.2.59.1	JACKET WATER ALARM DE-ENERGIZED	DIP 13/29/90	OC HOLD POINT	INT 13/29/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.59.2	CONTACT OPEN	N/A 1/13/2000	/	/
4.2.59.3	CONTACT OPEN	/	/	/
4.2.60.1	RELAY R-11A ENERGIZED	/	/	/
4.2.60.2	CONTACT CLOSED	/	/	/
4.2.60.3	CONTACT CLOSED	/	/	/
4.2.60.4	READY TO LOAD LIGHT ENERGIZED	/	/	/
4.2.60.5	CONTACT OPEN	/	/	/
4.2.60.6	CONTACT OPEN	/	/	/
4.2.60.7	READY TO LOAD LIGHT DE-ENERGIZED	/	/	/
4.2.60.8	JUMPER REMOVED	/	/	/
4.2.61.1	125VDC PRESENT	/	/	/
4.2.61.2	CONTACT CLOSED	/	/	/
4.2.61.3	AUTO START LIGHT ENERGIZED	/	/	/
4.2.62	REMOVE JUMPER	/	/	/
4.2.62.1	NO VOLTAGE PRESENT	/	/	/
4.2.62.2	CONTACT OPEN	/	/	/
4.2.62.3	AUTO START	/	/	/
4.2.63.1	UNIT AVAILABLE LIGHT DE-ENERGIZED	/	/	/
4.2.63.2	POWER FAILURE ALARM ENERGIZED	/	/	/
4.2.63.3	CONTACT CLOSED	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.64.1	UNIT AVAILABLE STATUS LIGHT ENERGIZED	DSP 13/29/00	OC HOLD POINT	2015-29-90
4.2.64.2	START POWER FAILURE ALARM DE-ENERGIZED	DSP 13/29/00	OC HOLD POINT	2015-29-90
4.2.64.3	CONTACT OPEN	N/A CIP 13/29/00	No	13/29/00
4.2.65.1	PRESSURE SENSOR MALFUNCTION ALARM ENERGIZED	DSP 13/29/00		
4.2.65.2	CONTACT CLOSED	N/A CIP 13/29/00		
4.2.65.3	TUBING E-10B DISCONNECTED	DSP 13/29/00		
4.2.65.4	LUBE OIL ALARM ENERGIZED	DSP 13/29/00		
4.2.65.5	PRESSURE SENSOR MALFUNCTION ALARM DE-ENERGIZED	DSP 13/29/00		
4.2.65.6	CONTACT CLOSED	N/A CIP 13/29/00		
4.2.65.7	CONTACT CLOSED			
4.2.65.8	CONTACT OPEN			
4.2.65.9	RELAY R23B DEENERGIZED	DSP 13/29/00		
4.2.66.1	RELAY R23B DEENERGIZED	DSP 13/29/00	OC HOLD POINT	2015-29-90
4.2.66.2	CONTACT OPEN	N/A CIP 13/29/00	No	13/29/00
4.2.66.3	CONTACT OPEN			
4.2.67.1	MALFUNCTION ALARM ENERGIZED	DSP 13/29/00		
4.2.67.2.	PLUG REMOVED FROM TUBING E-10C	DSP 13/29/00		

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.67.2.1	LO OIL PRESSURE ALARM DE-ENERGIZED	DJP 13/29/90	No	JKR 13/28/90
4.2.67.2.2	LUBE OIL SHUTDOWN ALARM ENERGIZED	DJP 13/29/90		
4.2.67.2.3	CONTACT CLOSED	N/A CJP 13/29/90		
4.2.69.1	MALFUNCTION ALARM ENERGIZED	DJP 13/29/90		
4.2.69.2	PLUG E-10A DISCONNECTED	DJP 13/29/90		
4.2.69.2.1	LUBE OIL SHUTDOWN ALARM ENERGIZED	DJP 13/29/90		
4.2.70	PLUGS RECONNECTED TO TUBING E10A and E10C	DJP 13/29/90		
4.2.71.1	JACKET WATER TEMP SENSOR MALFUNCTION ALARM ENERGIZED	DJP 13/29/90		
4.2.71.2	CONTACT CLOSED	N/A CJP 13/29/90		
4.2.71.3	Disconnect Tubing E-16B	DJP 13/29/90		
4.2.71.3.1	TEMP SENSOR MALFUNCTION ALARM DE-ENERGIZED	DJP 13/29/90		
4.2.71.3.2	JACKET WATER TEMP SHUTDOWN ALARM ENERGIZED	DJP 13/29/90		
4.2.71.3.3	CONTACT CLOSED	N/A CJP 13/29/90		
4.2.71.3.4	CONTACT OPEN	DJP 13/29/90		
4.2.72	TUBING E-16A and E-16B RECONNECTED	DJP 13/29/90	QC HOLD POINT	JKR 13-29-90
4.2.73	E16-B Disconnected	DJP 13/29/90	No	JKR 13/28/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.73.1	H1 Temp. JACKET WATER ALARM DE-ENERGIZED	DJP 12/29/90	NO	JCH 13/28/90
4.2.73.2	CONTACT OPEN	N/A CIP 13/29/90		
4.2.73.3	CONTACT OPEN	↓		
4.2.73.4	TEMP. SENSOR MALFUNCTION ALARM	DJP 13/29/90		
4.2.73.5	TUBING E16-C Disconnected	DJP 13/29/90		
4.2.73.5.1	Jacket Water Shutdown ALARM ENERGIZED	DJP 13/29/90	✓	✓
4.2.74	TUBING LINES E16-B AND C RECONNECTED	DJP 13/29/90	OC HOLD POINT	TW 13-29-90
4.2.75	Disconnect Tubing E16-C	DJP 13/29/90	NO	JCH 13/28/90
4.2.75.1	SENSOR MALFUNCTION ALARM	DJP 13/29/90		
4.2.75.2	TUBING E16-A Disconnected	DJP 13/29/90		
4.2.75.2.1	JACKETWATERS SHUTDOWN ALARM	DJP 13/29/90	✓	✓
4.2.76	TUBING E16-A and C RECONNECTED	DJP 13/29/90	OC HOLD POINT	TW 13-29-90
4.2.77.1	PRESSURE GAUGE READING LESS THAN 25PSI	DJP 13/29/90	OC HOLD POINT	TW 13-29-90
4.2.77.2	BYPASS TEST FAILURE LIGHT DE-ENERGIZED	DJP 13/29/90	OC HOLD POINT	TW 13-29-90
4.2.77.3.1	BYPASS TEST FAILURE LIGHT ENERGIZED	DJP 13/29/90	OC HOLD POINT	TW 13-29-90
4.2.78.1	SUMP TANK READING O.K.	N/A CIP 13/29/90	NO	JCH 13/28/90

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.79.1	DAY TANK READING O.K.	N/ACJP/3/23/90	/	/
4.2.80.1	ALARMS ENERGIZED	/	/	/
4.2.80.2	Horn Disconnected	/	/	/
4.2.82.1	LUBE OIL FILTER DIFFERENTIAL HIGH FUNCTIONS	/	/	/
4.2.82.1.1	ALARM FUNCTIONS Correctly	/	/	/
4.2.82.1.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.1.3	CONTACT CLOSED	/	/	/
4.2.82.2.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.2.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.3.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.3.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.4.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.4.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.5.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.6.1	ALARM FUNCTION CORRECTLY	/	/	/
4.2.82.7.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.8.1	ALARM FUNCTIONS CORRECTLY	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.82.9.1	ALARM FUNCTIONS CORRECTLY	N/ACP 12/18/93	/	/
4.2.82.9.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.10.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.10.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.11.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.11.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.12.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.12.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.13.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.14.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.15.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.16.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.17.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.17.2	RELAY R35 ENERGIZED	/	/	/
4.2.82.18.1	ALARM FUNCTIONS CORRECTLY	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.82.19.1	ALARM FUNCTIONS CORRECTLY	1/16/82	/	/
4.2.82.20.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.20.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.21.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.22.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.22.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.23.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.23.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.24.1	ALARM FUNCTIONS CORRECTLY	/	/	1/3/82
4.2.82.25.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.26.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.26.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.27.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.27.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.28.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.28.2	RELAY R38 ENERGIZED	✓/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.82.29.1	ALARM FUNCTIONS CORRECTLY	N/ACV 13/28/70	/	/
4.2.82.29.2	RELAY R38 ENERGIZED	/	/	/
4.2.82.30.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.31.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.31.2	RELAY R20 ENERGIZED CONTACT CLOSED	/	/	/
4.2.82.32.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.33.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.33.2	EMERGENCY STATUS LIGHT DE-ENERGIZED	/	MA 10/13/82	/
4.2.82.34.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.35.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.35.2	CONTACT CLOSED	/	/	/
4.2.82.36.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.36.2	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.37.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.38.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.39.1	ALARM FUNCTIONS CORRECTLY	/	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.82.40.1	ALARM FUNCTIONS CORRECTLY	1/10 CJP 1/1/28/90	/	/
4.2.82.41.1	ALARM FUNCTIONS CORRECTLY	/	/	/
4.2.82.42	RELAYS INSTALLED	/	/	/
4.2.83	RELAY RESET	/	/	/
4.2.84.1	NO PRESSURE AT L.B. GAUGE	/	/	/
4.2.84.2.1	120 VDC PRESENT	/	/	/
4.2.84.3.1	120 VDC PRESENT	/	/	/
4.2.85.1	PRESSURE AT R.B. GAUGE	/	/	/
4.2.85.2	NO PRESSURE AT LB GAUGE	/	/	/
4.2.85.3.1	NO VOLTAGE PRESENT	/	/	/
4.2.85.4.1	NO VOLTAGE PRESENT	/	/	/
4.2.87.1	CONTACT CLOSED	/	/	/
4.2.87.2	CONTACT CLOSED	/	/	/
4.2.88.1	CONTACT OPEN	/	/	/
4.2.88.2	CONTACT OPEN	/	/	/
4.2.89.1	TUBING RECONNECTED	SL 1/12/90	OC HOLD POINT	2/10/32990
4.2.89.2	TUBING RECONNECTED	/ /	OC HOLD POINT	2/10/32990
4.2.89.3	TUBING RECONNECTED	/ /	OC HOLD POINT	2/10/32990
4.2.90	TUBING RECONNECTED	1/1/90	OC HOLD POINT	2/10/32990
4.2.91	TUBING RECONNECTED	1/1/90	OC HOLD POINT	2/10/32990

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PROCEDURE  
STEP

## DESCRIPTION

MAINT.  
INIT/DATEHOLD  
POINT  
(Yes/No)QC  
INIT/DATE

4.2.92.1

LINKS CLOSED

DIP 1/27/40

NO

1/27/40

4.2.92.2

LINKS CLOSED

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4.2.92.3

LINKS CLOSED

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4.2.92.4

LINKS CLOSED

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4.2.92.5

LINKS CLOSED

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4.2.92.6

LINKS CLOSED

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4.2.92.7

LINKS CLOSED

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4.2.92.8

LINKS CLOSED

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4.2.92.9

LINKS CLOSED

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4.2.92.10

LINKS CLOSED

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4.2.92.11

LINKS CLOSED

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4.2.92.12

LINKS CLOSED

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4.2.92.13

LINKS CLOSED

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4.2.92.14

LINKS CLOSED

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4.2.92.15

LINKS CLOSED

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4.2.92.16

LINKS CLOSED

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4.2.92.17

LINKS CLOSED

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4.2.92.18

LINKS CLOSED

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4.2.92.19

LINKS CLOSED

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4.2.92.20

LINKS CLOSED

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4.2.92.21

LINKS CLOSED

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4.2.92.22

LINKS CLOSED

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.92.23	LINKS CLOSED	DR 13/29/90	No	PL 13/28/90
4.2.92.24	LINKS CLOSED	/	/	/
4.2.92.25	LINKS CLOSED	/	/	/
4.2.92.26	LINKS CLOSED	/	/	/
4.2.92.27	LINKS CLOSED	/	/	/
4.2.92.28	LINKS CLOSED	/	/	/
4.2.92.29	LINKS CLOSED	/	/	/
4.2.92.30	LINKS CLOSED	/	/	/
4.2.92.31	LINKS CLOSED	/	/	/
4.2.92.32	LINKS CLOSED	/	/	/
4.2.92.33	LINKS CLOSED	/	/	/
4.2.92.34	LINKS CLOSED	/	/	/
4.2.92.35	LINKS CLOSED	/	/	/
4.2.92.36	LINKS CLOSED	/	/	/
4.2.92.37	LINKS CLOSED	/	/	/
4.2.93	TOGGLE SWITCHES OPEN	SL 13/29/90	No	PL 13/28/90
4.2.94	ENGINE WIRE RECONNECTED	DR 13/29/90	OC HOLD POINT	PL 13/28/90
4.2.95	ENGINE WIRE RECONNECTED	DR 13/29/90	OC HOLD POINT	PL 13/28/90
4.2.96	WIRE 402 RECONNECTED	PL 13/28/90	No	PL 13/28/90
4.2.97	JUMPER REMOVE	DR 13/29/90	/	/

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.2.98	JUMPER REMOVE	DJP 13/29/90	No	10/13/28/90
4.2.99	FREQUENCY GENERATOR REMOVED	DJP 13/29/90		
4.2.100	EQUIPMENT RESTORED TO OPERATIONAL CONDITION	RAT 13-29-90		
4.2.101	SHIFT SUPERVISOR NOTIFIED	RAT 13-29-90		

Comments/Additional Hold Points T.R. 34/72

QC has reviewed this procedure for Hold Points J.C. HARRY 3-28-97  
SIGNATURE

APPROVED <input checked="" type="checkbox"/> DISAPPROVED <input type="checkbox"/>
FOREMAN <u>[Signature]</u> DATE <u>3-29-90</u>

COMPLETED BY <u>[Signature]</u> DATE <u>3-29-90</u>
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