



**GULF STATES UTILITIES COMPANY**

POST OFFICE BOX 2951 • BEAUMONT TEXAS 77704

AREA CODE 409 838 6831

April 22, 1985

RBG- 20790

File No. G9.5, G9.8.6.2

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Denton:

River Bend Station-Unit 1  
Docket No. 50-458

Enclosed for your review is the Gulf States Utilities Company (GSU) response to Item 8 of the Request for Additional Information (RAI) regarding the Transamerica Delaval, Inc. (TDI) Diesel Generators at River Bend Station (RBS) submitted to Mr. W. J. Cahill (GSU) from Mr. A. Schwencer (Nuclear Regulatory Commission-NRC) on January 29, 1985. This response (see Attachment 1) revises the one provided in the letter from Mr. J. E. Booker (GSU) to Mr. H. R. Denton (NRC) dated April 11, 1985 (GSU Letter No. RBG-20684) and completely addresses all items in the afore-referenced RAI.

Sincerely,

*J. E. Booker*

J. E. Booker  
Manager-Engineering,  
Nuclear Fuels & Licensing  
River Bend Nuclear Group

*JEB/WJR/JWL/kt*  
JEB/WJR/JWL/kt

Attachment (1)  
Tabs (2)

6. Provide the results and conclusions of preoperational tests in accordance with FSAR Section 14.2.12.1.36 if the tests have been performed.

RESPONSE

Enclosure 1 contains revised FSAR text pages indicating how the Diesel Generator Preoperational Test was performed. Results and conclusions based on the data obtained is included in Attachment 3.

7. Provide a description of the "improved idler gear locknut" mentioned on page 16 of the enclosure to the letter referenced above.

RESPONSE

The improvement recommended by Transamerica Delaval, Inc. and utilized by GSU consists of two additional lock pins to positively lock the bearing nut which retains the idler gear thrust washer.

8. Provide the surveillance and maintenance program for the engines, and in particular, for the 16 components that were the focus of attention during Phase I of the Owner's Group Program Plan. (According to page 25 of the enclosure to the letter referenced above, the S&M program is contained in Appendix II of the DR/QP. However, the latter document references certain TDI manuals. Clarification is requested on the actual S&M program planned for the TDI engines.)

RESPONSE

DELETE  
AND  
REPLACE  
WITH  
INSERT

The surveillance and maintenance program is being developed based on the requirements in Appendix II of the Phase II DR/QP report. The TDI Diesel Generator Owners Group reviewed the TDI Instruction manuals as a source of information in developing DR/QP Appendix II. GSU will adopt the recommendations of DR/QP Appendix II (Revision 1). The DR/QP Revision 1 document was submitted to H.R. Denton (NRC) from J.C. Deddens (GSU) on March 7, 1985 (GSU letter No. RBG-20351).

9. Provide the information on the key engine components (the "Phase I" components) actually installed in the engines at River Bend. For example,
- Cylinder heads have been classified by the Owner's Group in three categories. Which are installed at River Bend? What non-destructive examinations of these heads have been performed to verify proper firedeck thickness and absence of flaws in critical areas?
  - Who manufactured the crankshafts, what process was used, and what are the materials properties? Are the fillets shotpeened?

Insert For Item 8

The Surveillance and Maintenance Program was developed based on the requirements in Appendix II of the Phase II Design Review and Quality Revalidation (DR/QR) Report as submitted to Mr. H. R. Denton (NRC) from Mr. J. D. Deddens (GSU) on December 24, 1984 (GSU Letter No. RBG-19766) with Revision 1 on March 7, 1985 (GSU Letter No. RBG-20351, same parties). The TDI Diesel Generator Owners Group reviewed the TDI Instruction Manuals as a source of information in developing DR/QR Appendix II. Tab 1 to this letter contains the Surveillance Program, while Tab 2 contains the Preventative Maintenance Program.

RIVER BEND PERIODIC SURVEILLANCE INSPECTION PLAN SUMMARY

In conformance with: Technical Specification 4.8.1.1.2.e.1  
of 2nd draft, 3/11/85

Reference Documents: TDI Owner's Group DRQR Report, Rev. 1  
dated 2/85

TDI Operating/Maintenance Manuals

To be covered by procedure: STP-309-7614

TAB  
2

1 of 3



Description	Frequency	Remarks
1. Take cold compression pressures (all cylinders)	every outage	w/engine running at approx. 185 rpm
2. Obtain maximum firing pressures (all cylinders)	every outage	w/engine at 100% rated load
3. Flush governor oil system	every outage	using lubricant, or a solvent (with engineering approval) if required
4. Take crankshaft deflections	every outage	
5. Clean the lubricating oil sump tank and filter	every outage	
6. Clean lubricating oil duplex strainers	every outage	
7. Disassemble, clean, rework, adjust, and reassemble one fuel injection pump	alternate outages	Different pump to be reworked at alternate outages
8. Measure gear backlash clearance	alternate outages	
9. Visually check cams, tappets, rollers, rocker arms, push rods, and springs for damage, cracks, breakage, and evidence of excessive wear or overheating; check torque of rocker assembly caps screws	every outage	
10. Inspect and measure connecting rod bearing shells	at the outage which precedes 500 hrs. of operation by at least the sum of hours of operation in a LOOP/LOCA event plus the expected hours of operation between outages	

2  
7  
3

Description	Frequency	Remarks
11. Remove, clean, reset, and re-install fuel injection nozzles	every outage	
12. Inspect and measure main bearing shells	1st outage, then alternate outages thereafter	
13. Check engine interior for general condition, loose or missing components, damage, or any other abnormal conditions	every outage	
14. Visually check engine foundation for breaks on bond between the sole plates and the grout	every outage	
15. Check foundation nut torques	every outage	
16. Have the before and after lubricating oil pump started and check lubricating oil jets for broken or plugged lines	every outage	
17. Clean and inspect the jacket water cooler	every outage	
18. Clean and inspect the lube oil cooler	every outage	
19. Clean and inspect the turbo charger intercooler	every outage	

TAB 2

Preventative Maintenance Program

Notes:

1. The entry on the following forms, "Freq.", stands for the frequency of the preventative maintenance specified on that form. The following codes apply:  
  - 999 = Every outage
  - 156-999 = Every other outage
  - 260-999 = Every five years
2. Task descriptions, work instructions and plant modes are specified
3. Cross-references are provided to the TDI Instruction Manual and the DR/QR Report

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME DO 578  
\*REV.# #

\*MARK# 1EG5\*EG17

\*REL. 999

MANUFACTURER Delaware

\*EQ. DESCR. DIESEL ENGINE

\*EST. MHS 16

\*Q CLASS L

MODEL# DSR-48

\*EST. #MEN 2

\*REL. ORG. OPS

EQUIP. OUTAGE Y

\*TASK DESCR. Measure Thrust Bearing Ring

RAP N

FIRE LOAD N

\*PROCEDURES#

COL. LINE ELEV. AREA

CLEARANCE Y

(1) \_\_\_\_\_

4.0 DF 98 DGA

RELATED TASK Y

(2) \_\_\_\_\_

MANUAL# 3244-200-041-002

(3) \_\_\_\_\_

\*REFERENCES (1) DR/DR 03-3100

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTIONS

NOTE: NOTIFY W.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.D.

ALSO NOTE CORRECTIVE ACTION INITIATED.

MEASURE THRUST BEARING RING CLEARANCE VIA "DUMP CHECK"  
METHOD to be performed IN conjunction with CRANKSHAFT Web  
Deflection measurements.

The following INFORMATION should be RECORDED.

\*DATE of Inspection

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1 4/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1 4/2/85  
QUALITY DATE

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1EG5 \* EGI

TASK # MEP0578  
REV. # 0

RELATED TASK CONT.

WORK INSTRUCTION:

- ° Hours of engine operation
- ° Hours of engine operation since last bearing replacement  
(last bearing replaced: \_\_\_\_\_ forward \_\_\_\_\_ back)
- ° Bearing Clearance
- ° Complete applicable sections of TDI Inspection and  
Maintenance Record Form No. 310-1-1 TDI Instruction Manual,  
Volume 1, Section 5-D-4

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 574  
\*REV.# 2

\*MARK# LEGS\* EG17

\*REL. 999

\*MANUFACTURER Delaval

\*EQUIP. DESCR. DIESEL ENGINE

\*EST. MHS 14

\*MODEL# SR-48

\*EST. #MEN 2

\*TASK DESCR. INSPECT CYLINDER LINERS

\*PROCEDURES#

COL. LINE ELEV. AREA  
4.0 DE 98 DCA

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

MANUAL# 3244.2dd-441-dd2

\*REFERENCES (1) DR/OR 03-315C

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- |                   |                  |
|-------------------|------------------|
| - POWER OPERATION | X REFUELING      |
| - HOT STANDBY     | X POST REFUELING |
| X HOT SHUTDOWN    | - STARTUP        |
| X COLD SHUTDOWN   | - REDUCED POWER  |
| - PRE-REFUELING   |                  |

## WORK INSTRUCTIONS:

NOTE: NOTIFY W.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.D.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Perform a visual inspection of LINERS for  
Potential progressive wear. Per TDI 3244.2dd-441-dd2  
Section 6-2-10.  
Complete TDI Inspection AND Maintenance Record Form No.  
315-1-1, TDI Instruction Manual, Volume I, Section 5-D-7.

COMMENTS: \_\_\_\_\_

APPROVAL R. L. Kuntz 1/4/00  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL Permat 1/4/00  
QUALITY DATE

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1EG5\* EGI

TASK # MEPP574  
REV. # 2

RELATED TASK CONT.

WORK INSTRUCTION:

A Borescopic Inspection Is Acceptable If Heads  
are Not Removed.



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 50-536  
 \*REV.# 0

\*MARK # 1565\* 15-17 \*FREQ. 999

\*EQ. DESCR. Diesel Engine \*EST.MHRS 10  
 MANUFACTURER Delaval \*EST#MEN 2

\*EQ. DESCR. Diesel Engine \*Q CLASS 1  
 MODEL# D5A-48 \*REL.ORG. DPS  
 EQUIP. OUTAGE X  
 RWP N  
 FIRE LOAD N  
 CLEARANCE N  
 RELATED TASK N

\*TASK DESCR. Exhaust manifold  
 \*PROCEDURES# COL. LINE ELEV. AREA  
 (1) 40 DE 98 DBR  
 (2) MANUAL# 3244-760 d41-002  
 (3) \*REFERENCES (1) DR/ER 03-35dA  
 (4) (2) \_\_\_\_\_  
 (3) \_\_\_\_\_

PLANT MODE  
 POWER OPERATION X REFUELING  
 HOT STANDBY X POST REFUELING  
X HOT SHUTDOWN STARTUP  
X COLD SHUTDOWN REDUCED POWER  
 PRE-REFUELING

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually and MT examine a sampling of circumferential pipe welds and corresponding heat affected zones.  
Note: To be performed during first refueling outage and alternate outages thereafter. However, diesel operation should not exceed 24 hours between inspections.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1 4/1/85  
 DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ 1 \_\_\_\_\_  
 TECH. ENG. DATE

APPROVAL [Signature] 1 4/1/85  
 QUALITY DATE

\*INDICATES A REQUIRED ENTRY



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK# 1 EGS\* EG17

\*FREQ. 999

\*TASK# ME 586  
\*REV.# 2

MANUFACTURER DeLaval

\*EQ. DESCR. Diesel Engine

\*EST. MRS. 4

MODEL# DSR-48

\*EST. #MEN 2

\*TASK DESCR. Examine system piping

\*PROCEDURES#

(1) \_\_\_\_\_

COL. LINE ELEV. AREA  
4.0 DE 98 DG17

(2) \_\_\_\_\_

MANUAL# 3244-200-41-002

(3) \_\_\_\_\_

\*REFERENCES (1) \_\_\_\_\_

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- |                   |                  |
|-------------------|------------------|
| - POWER OPERATION | - REFUELING      |
| - HOT STANDBY     | - POST REFUELING |
| - HOT SHUTDOWN    | - STARTUP        |
| - COLD SHUTDOWN   | - REDUCED POWER  |
| - PRE-REFUELING   |                  |

\*Q CLASS L  
\*REL. ORG. OPS  
EQUIP. OUTAGE X  
R&P X OUTAGE X  
FIRE LOAD X  
CLEARANCE X  
RELATED TASK X

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Check system piping for leaks, cracks and loose connections.

COMMENTS: \_\_\_\_\_

APPROVAL Al. Lusk 1/4/80  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL Wentworth 1/4/80  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 582  
\*REV.# 2

\*MARK# 1E65 \* E61A

\*FREQ. 999

MANUFACTURER ELLIOTT

\*EQ. DESCR. DESK ENGINE

\*EST. MHS 16

\*EQ. DESCR. Turbocharger

MODEL# 90GA

\*EST. #MEN 2

\*TASK DESCR. Clean Turbocharger

\*PROCEDURES#

COL. LINE ELEV. AREA  
4.0 DE 99 DDA

(1) \_\_\_\_\_

MANUAL# 2244-700-041-005

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR MP-017

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

## \*WORK INSTRUCTIONS:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.D.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Remove Air Inlet Piping and clean the Eye, Impeller and  
Diffuser Per. A.P.M. 2244-700-041-005 Section E.  
ELLIOTT Instruction Book TE-70-A Section 9 Page 9

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 12/4/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/4/86  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

\*TASK# MEP 580  
\*REV.# 2\*MARK# LEG # E61D\*REL. 999MANUFACTURER Delaval\*EQ. DESCR. DIESEL ENGINE \*EST. MHS 16MODEL# DSB-48 \*EST. #MEN 2\*TASK DESCR. BASE ASSEMBLY (EXAMINE)

\*PROCEDURES#

COL. LINE ELEV. AREA  
4.0 DE 98 DLA

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-305A

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- POWER OPERATION	X REFUELING
- HOT STANDBY	X POST REFUELING
X HOT SHUTDOWN	- STARTUP
X COLD SHUTDOWN	- REDUCED POWER
- DEF-REFUELING	

\*TASK INSTRUCTIONS:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.J.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Clean the base assembly with a solvent, giving special attention to the  
mating surfaces of the base and cap and the areas adjacent to the  
Nut Pocket.

Wipe down all surfaces

Using good lighting check for cracks and deformations

COMMENTS: \_\_\_\_\_

APPROVAL RC. Loutin 14/2/85  
DISPL. SUPV. DATEAPPROVAL \_\_\_\_\_  
TECH. ENG. DATEAPPROVAL DeMonte 14/10/85  
QUALITY DATE\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND COMPLETED

W0

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK# EG-5# EK1A

\*FREQ. 999

\*TASK# ME 00 576  
\*REV.# 0

MANUFACTURER DeLaval

\*EQ. DESCR. DIESEL ENGINE

\*EST. MHS 16

MODEL# DSR-48

\*EST. #MEN 2

\*TASK DESCR. Clean/Examine CYLINDER BLOCK

\*PROCEDURES#

(1) \_\_\_\_\_

COL. LINE ELEV. AREA  
4.0 DE 98 DGA

(2) \_\_\_\_\_

MANUAL# 3244-200-041-002

(3) \_\_\_\_\_

\*REFERENCES (1) DB/DB 43-315A

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- |   |  |
|---|--|
| - POWER OPERATION                                 | <input checked="" type="checkbox"/> REFUELING      |
| - HOT STANDBY                                     | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | - STARTUP  |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | - REDUCED POWER                                    |
| - PRE-REFUELING                                   |  |

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Clean the CYLINDER BLOCK with a solvent AND wipe Dry.

Check for cracks, Hot spots and water leaks.

COMMENTS: \_\_\_\_\_

APPROVAL R. F. Fentel 1/4/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL Demetris 1/4/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

W0

\*MARK# 1EG5\*EG17

\*REF# 999

\*TASK# MEΦΦ 583  
\*REV.# 001

MANUFACTURER ELLIOTT

\*EQ. DESCR. TURBOCHARGER

\*EST. MHRS 8

MODEL# 9ΦGA

\*EST. #MEN 2

\*TASK DESCR. Measure Turbocharger END PLAY

\*PROCEDURES#

COL. LINE ELEV. AREA

(1) \_\_\_\_\_

4Φ DE 9.8 DBA

(2) \_\_\_\_\_

MANUAL# 32447ΦΦ-Φ41-ΦΦS

(3) \_\_\_\_\_

\*REFERENCES(1) DR/OR MP-Φ17

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

\*WORK INSTRUCTION:

NOTIFY Q.C. PRIOR TO START OF WORK \_\_\_\_\_

NOTE: RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O. \_\_\_\_\_

ALSO NOTE CORRECTIVE ACTION INITIATED. \_\_\_\_\_

(1) MOUNT A FEEL INDICATOR ON THE END OF THE IMPELLER  
AND MEASURE ROTOR END PLAY. ACCEPTABLE WEAR LIMITATIONS  
ARE .ΦΦΦ - .Φ2Φ PER. 3244.7ΦΦ-Φ41-ΦΦS SECTION E  
ELLIOTT INSTRUCTION BOOK TC-7Φ-A SECTION 9 PAGE 13

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 14/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 14/2/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE



WD

## PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# me 09557  
\*REV.# 0\*MARK# LEGO RV 2417\*FREQ. 999MANUFACTURER Delavan\*EQ. DESCR. DS GEN. LUB. OIL PRESS REG. \*EST. MHS 8MODEL# DSR-48 \*EST. #MEN 2\*TASK DESCR. EXAMINE REG. Valve

\*PROCEDURES#

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

COL. LINE ELEV. AREA

40 DS 98 D47MANUAL# 3244-786-041-002\*REFERENCES (1) DR/OR 00-420(2) FEID-G-50307

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

 \*Q CLASS 1  
 \*REL. ORG. OPS  
 EQUIP. OUTAGE ☒  
 RUP N  
 FIRE LOAD N  
 CLEARANCE ☒  
 RELATED TASK ☒  
ME 00 558
MS pt 558

## \*WORK INSTRUCTION:

NOTE: NOTIFY W.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.C.

ALSO NOTE CORRECTIVE ACTION INITIATED.

- 1) Disassemble Regulating Valve
- 2) Clean all Internals
- 3) Examine for WORN OR BROKEN Parts
- 4) Check for obstructions IN PORT openings
- 5) Assemble Regulating Valve. (In Manual Section 6-K-5)

COMMENTS: \_\_\_\_\_

APPROVAL R. E. F. Smith 1/4/75  
DISPL. SUPV. DATEAPPROVAL \_\_\_\_\_  
TECH. ENG. DATEAPPROVAL R. E. F. Smith 1/4/75  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

WD

## PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 09558  
\*REV.# 0\*MARK# LEGO RV. 25A\*REL. 999\*MANUFACTURER Delavan\*EQ. DESCR. DS GEN. LUB. OIL PRESS REG. \*EST. MTRS 8MODEL# DSR-48 \*EST. #MEN 2\*TASK DESCR. EXAMINE REG. VALVE

\*PROCEDURES# COL. LINE ELEV. AREA

(1) 40 DS 98 DLR(2) MANUAL# 3244-700-041-002(3) \*REFERENCES (1) DR/DR 00-420(4) (2) FEID-G-50307

(3) \_\_\_\_\_

## PLANT MODE

- POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
- HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	- STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	- REDUCED POWER
- PRE-REFUELING	

\*Q CLASS 1  
 \*REL. ORG. OPS  
 EQUIP. OUTAGE ☒  
 RWP N  
 FIRE LOAD N  
 CLEARANCE ☒  
 RELATED TASK ☒  
ME 09557  
ME 09559

## \*WORK INSTRUCTIONS:

NOTE: NOTIFY W.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

- 1) Disassemble Regulating Valve
- 2) Clean all Internals
- 3) EXAMINE FOR WORN OR BROKEN PARTS
- 4) CHECK FOR OBSTRUCTIONS IN PORT OPENINGS
- 5) ASSEMBLE Regulating Valve. (Inq. Manual Section 6-K-5)

COMMENTS: \_\_\_\_\_

APPROVAL Resnick 14/10/85  
DISPL. SUPV. DATEAPPROVAL \_\_\_\_\_ / \_\_\_\_\_  
TECH. ENG. DATEAPPROVAL Demetree 14/10/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

WD

## PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 00 537  
\*REV.# 0\*MARK# EGA \* EG 1A\*FREQ. 999MANUFACTURER Delaval\*EQ. DESCR. Diesel Engine \*EST. MHS 4MODEL# DSR-48 \*EST. #MEN 2\*TASK DESCR. Starting Air Distributor Assembly

\*PROCEDURES# COL. LINE ELEV. AREA

(1) 4.0 DE 98 DGD(2) MANUAL# 3244 700-041-002(3) \*REFERENCES (1) DR/OR 03-442A

(4) (2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*Q CLASS L  
 \*REL. ORG. OPS  
 EQUIP. OUTAGE Y  
 RWP N  
 FIRE LOAD N  
 CLEARANCE Y  
 RELATED TASK Y  
ME 00 534  
ME 00 535

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Visually examine the poppet valve spool ends and timing  
cam of the starting Air distributor. Evaluate the degree  
of wear to determine whether existing conditions would  
have an adverse effect on timing and the specified ability  
to start the engine. PER INS. MANUAL SECTION 6-1-3

COMMENTS: \_\_\_\_\_

APPROVAL Re. Frutkin 1/4/85  
DISPL. SUPV. DATEAPPROVAL \_\_\_\_\_  
TECH. ENG. DATEAPPROVAL Desmuth 1/11/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY ABOVE



# PREVENTATIVE MAINTENANCE TASK APPROVAL

WO

\*MARK# 186T \* P2 A

\*FREQ. 999

\*TASK# MS-00-561  
\*REV.# 0

MANUFACTURER Delaval

\*EQ. DESCR. Diesel Engine \*EST. M.HRS. 3

MODEL# D5B-48 \*EST. #MEN 2

\*TASK DESCR. Jacket Water Pump - Gear

\*PROCEDURES#  
(1) COL. LINE ELEV. AREA  
4.0 DE 98 DGA

(2) MANUAL# 3244700-041-002

(3) \*REFERENCES (1) DR/OR 03-425A

(4) \_\_\_\_\_  
(2) \_\_\_\_\_  
(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. 005  
EQUIP. OUTAGE X  
RWP X  
FIRE LOAD X  
CLEARANCE X  
RELATED TASK N

## PLANT MODE

☐ POWER OPERATION ☒ REFUELING  
☐ HOT STANDBY ☒ POST REFUELING  
☒ HOT SHUTDOWN ☐ STARTUP  
☒ COLD SHUTDOWN ☐ REDUCED POWER  
☐ PRE-REFUELING

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Examine jacket water pump gear for chipped or broken teeth, excessive wear, or potential/progressive pitting or other abnormal conditions.

COMMENTS: \_\_\_\_\_

APPROVAL R.E. Fousth 4/12/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL 11/10/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

# PREVENTATIVE MAINTENANCE TASK APPROVAL

WD

\*MARK# LELF\* 261A

\*FREQ. 999

\*TASK# ME 00551  
\*REV.# 0

MANUFACTURER Delaval

\*EQ. DESCR. DIESEL ENGINE

\*EST. MHRS 2

\*DESCR. DER-48

\*EST. MHRS 2

\*MODEL# DER-48

\*EST. #MEN 2

\*TASK DESCR. Automatic shutdown cylinder check

\*PROCEDURES#

COL. LINE ELEV. AREA

(1) \_\_\_\_\_

4.0 DE 98 D67

(2) \_\_\_\_\_

MANUAL# 3244-700-041-002

(3) \_\_\_\_\_

(4) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-371C

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- |   |  |
|---|--|
| - POWER OPERATION                                 | <input checked="" type="checkbox"/> REFUELING      |
| - HOT STANDBY                                     | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | - STARTUP  |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | - REDUCED POWER                                    |
| - PRE-REFUELING                                   |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Check cylinder for extension AND Return (Fuel Pump Leakage)

To be accomplished during control system check.

Instruction Manual 3244-700-041-002 section 3-5

## COMMENTS:

APPROVAL [Signature] 14/2/80  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 14/10/80  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE PM CAN BE APPROVED AND SCHEDULED

# PREVENTATIVE MAINTENANCE TASK APPROVAL

WD

MARK# LEGF\* E61A

MANUFACTURER Delaval

REQ. DESCR. DIESEL ENGINE

MODEL# DSR-48

TASK DESCR. Fuel Pump Linkage Assembly

PROCEDURES#

1) GMP-0015

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

\*FREQ. 999

\*EST. MRS 4

\*EST. #MEN 2

\*Q CLASS 1

\*REL. ORG. OPS

EQUIP. OUTAGE Y

RWP Y

FIRE LOAD Y

CLEARANCE Y

RELATED TASK Y

ME 00551

COL. LINE ELEV. AREA

-40 DS 98 06A

MANUAL# 3244-700-041-002

\*REFERENCES (1) 3244-700-041-005

(2) DR/AR 03-371B

(3) \_\_\_\_\_

PLANT MODE

- POWER OPERATION	X REFUELING
- HOT STANDBY	X POST/REFUELING
X HOT SHUTDOWN	- STARTUP
X COLD SHUTDOWN	- REDUCED POWER
- PRE-REFUELING	

## WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

GREASE FUEL LINK ON, F.O. Pump assembly,

all CYLINDERS. Per GMP 0015

Instruction Manual 3244-700-041-002 section 3-5

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/12/85

DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_

TECH. ENG. DATE

APPROVAL [Signature] 1/16/85

QUALITY DATE

# PREVENTATIVE MAINTENANCE TASK APPROVAL

MARK# 1EGF \* 8617

\*FREQ. 999

\*TASK# ME 00.548  
\*REV.# 0

MANUFACTURER DeLaval

\*EQ. DESCR. DIESEL ENGINE

\*EST. MRS. 14

MODEL# DSR

\*EST. #MEN 2

\*TASK DESCR. Fuel Oil Injection Line Supports

\*PROCEDURES#

COL. LINE ELEV. AREA  
4.0 DE 98 DGA

MANUAL# 3244.700-041-002

\*REFERENCES (1) DR/0R 03-345D

(2) 3244.700-041-002

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Visually examine support elastomer inserts for deterioration or degradation. Any inserts found to be unsatisfactory shall be replaced with new inserts. (To be performed prior to reassembly of the F.O. Lines in conjunction with the cylinder LINER inspection.)

COMMENTS: \_\_\_\_\_

APPROVAL R. S. Foutch 4/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL Dempsey 4/16/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME-0534  
\*REV.# 0

\*MARK# LEGA \* 5617

\*FREQ. 999

MANUFACTURER Delaval

\*EQ. DESCR. Diesel Engine

\*EST. MHS 3

MODEL# DSR-48

\*EST. #MEN 2

\*TASK DESCR. AIR start Block Valves - check

\*PROCEDURES#

COL. LINE ELEV. AREA  
4.0 DE 98 D&F

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

MANUAL# 2244.700-041-002

\*REFERENCES (1) DR/OR 03-441B

(2) 2244.700-041-005

(3) \_\_\_\_\_

\*Q CLASS L  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N OUTAGE Y  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME-0535

ME-0537

3

## PLANT MODE

- POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
- HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	- STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	- REDUCED POWER
- PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

clean, refurbish valves - replace "O" rings and clean the  
screened fitting. Ensure leak tightness after reassembly.  
check for tightness of fittings and bolts and apply locking  
compound, as required during reassembly of components.

COMMENTS: \_\_\_\_\_

APPROVAL R.E. Goutts 1 4/8/95  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ 1 \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL Pat McLaughlin 1 4/8/95  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

WD

PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 00535  
\*REV.# 0

\*MARK# 16GA \* E61A

\*FREQ. 999

MANUFACTURER Delaval

\*EQ. DESCR. DIESEL ENGINE

\*EST. MHS 37

MODEL# D5R-48

\*EST. #MEN 2

\*TASK DESCR. AIR Start Valves - Check

\*PROCEDURES#

COL. LINE ELEV. AREA  
4 DE 98 DGA

(1) \_\_\_\_\_

MANUAL# 3244-700-041-002

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-359

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK  
ME 00534

ME 00537

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Remove, clean and examine AIR start Valves.  
check the piston, cap, guide and housing sliding surfaces  
to evaluate wear or corrosion.  
Replace copper valve to head gasket.  
Instruction manual Section 6-I-2.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/4/25  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/4/25  
QUALITY DATE

\*TASK# ME 00539  
\*REV.# 0

WD

\*FREQ. 999

ARK# LEGA\*EGIA

UFACTURER Delavak

DESCR. Diesel Engine

DEL# D4R-48

ASK DESCR. PER Butter Fly Valve

ROCEDURES#

COL. LINE ELEV. AREA  
4.0 DS 98 DGA

MANUAL# 3244.700-041-002

\*EST. MHS

\*EST. #MEN

\*Q CLASS 1

\*REL. ORG. OPS

EQUIP. OUTAGE Y

RWP 4 EQUIP. OUTAGE Y

FIRE LOAD N

CLEARANCE Y

RELATED TASK N

\*REFERENCES (1) DR/OR 03-425

(2) 3244.700-041-003

(3) \_\_\_\_\_

PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

1) Lube Valve shaft VIA grease fittings Automotive wheel  
Bearing grease PER 3244.700-041-003 Drawing 03-425-  
6491 Note 3

COMMENTS:

APPROVAL [Signature] 12/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 12/10/85  
QUALITY DATE

WD

PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 558  
\*REV.# 0

\*MARK# LEGO RV. 26A

\*FREQ. 999

MANUFACTURER Delavan

\*EQ. DESCR. DS GEN. LUB. OIL PRESS REG. \*EST. MINS 8

\*MODEL# DSR-48 \*EST. #MEN 2

\*TASK DESCR. EXAMINE REG. VALVE

\*PROCEDURES#  
(1) COL. LINE ELEV. AREA  
(2) 4.0 DS 98 DLA  
(3) MANUAL# 3244.200-041-002

\*REFERENCES (1) DR/PR 00-420  
(2) PEID-G-50307  
(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RAMP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME 558  
ME 558

PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

WORK INSTRUCTIONS:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

- 1) Disassemble Regulating Valve
- 2) Clean all Internals
- 3) Examine for worn or broken parts
- 4) Check for obstructions in port openings
- 5) Assemble Regulating Valve (Infl. Manual Section 6-K-5)

COMMENTS: \_\_\_\_\_

APPROVAL R. F. Fink 1/12/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL R. F. Fink 1/16/85  
QUALITY DATE



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK# 16A\*TK2C

\*FREQ. 999

\*TASK# ME 00547  
\*REV.# 2

MANUFACTURER THERMEXCHANGER

\*EQ. DESCR. PER START STORAGE TANK \*EST. MHS 4

MODEL# 57955 \*EST. #MEN 2

\*TASK DESCR. CLEAN FLOAT TRAP TRAP

\*PROCEDURES# COL. LINE ELEV. AREA

(1) 4.0 DE 98 DE 98

(2) MANUAL# 3244-700-041-045

(3) \*REFERENCES (1) DA/GR 03-835A

(4) (2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- POWER OPERATION	X REFUELING
- HOT STANDBY	X POST REFUELING
X HOT SHUTDOWN	- STARTUP
X COLD SHUTDOWN	- REDUCED POWER
- PRE-REFUELING	

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RAP Y  
FIRE LOAD Y  
CLEARANCE Y  
RELATED TASK Y  
ME 00544

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Disassemble and clean storage tank float TRAP.

COMMENTS: \_\_\_\_\_

APPROVAL RE. Foster 1/12/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL DeMott 1/16/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK# 1E6A\* 7K2A

\*FREQ. 999

\*TASK# ME 546  
\*REV.# 2

MANUFACTURER THE AMXCHANGER

\*EQ. DESCR. PER START STORAGE TANK \*EST. MHS 4

MODEL# 57955 \*EST. #MEN 2

\*TASK DESCR. Clean Float TRAP TRP-5A

\*PROCEDURES# COL. LINE ELEV. AREA  
(1) 40 DE 9A DGA

(2) MANUAL# 3244-700-041-005

(3) \*REFERENCES (1) D130R 3-835A

(4) (2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- POWER OPERATION	X REFUELING
- HOT STANDBY	X POST REFUELING
X HOT SHUTDOWN	- STARTUP
X COLD SHUTDOWN	- REDUCED POWER
- PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Disassemble and Clean Storage tank Float TRAP.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/2/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 00 545  
\*REV.# 2

\*MARK# 1E6A\* TK12

\*FREQ. 999

MANUFACTURER THE EXCHANGER

\*EQ. DESCR. PER START STOP TANK \*EST. MTRS. 4

MODEL# 52955 \*EST. #MEN 2

\*TASK DESCR. Clean float TRAP 4A

\*PROCEDURES#

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

COL. LINE ELEV. AREA

9.3 DE 92 DGA

MANUAL# 2244-700-041005

\*REFERENCES (1) DAFOR 3-935A

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

- POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
- HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	- STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	- REDUCED POWER
- PRE-REFUELING	

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RHP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME 00 544

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Disassemble and Clean Storage tank float TRAP.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

COMMENTS: \_\_\_\_\_

APPROVAL R.E. Foutch 1/12/88  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL DeMott 1/16/88  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

W0

PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 0544  
\*REV.# 2

\*MARK# 1EG-A\*TKIA

\*FREQ. 999

MANUFACTURER THE AMXCHANGER

\*EQ. DESCR. PER START STORAGE TANK \*EST. MRS. 4

MODEL# 57955 \*EST. #MEN 2

\*TASK DESCR. CLEAN FLOAT TRAP TRP3A

\*PROCEDURES#

COL. LINE ELEV. AREA

4.0 DE 98 DGA

MANUAL# 3244-700-041-005

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RNP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME 0545

\*REFERENCES (1) DIA/OP 3-835A

(2) \_\_\_\_\_

(3) \_\_\_\_\_

PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Disassemble and Clean Storage tank Float TRAP.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1 4/2/95  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1 4/6/95  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

# PREVENATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1565 \* EG-1

\*FREQ. 156-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESEL ENGINE

\*EST. MHRS 4

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL. ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Thrust Bearing Ring

\*PROCEDURES# COL. LINE ELEV. AREA  
(1) CMP 9044 0 DE 98 DB

(2)  MANUAL# 3244.700-041-002

(3)  \*REFERENCES (1) DR/OR 03-3100

(4)  (2)

(3)

## PLANT MODE

<u></u> POWER OPERATION	<u>X</u> REFUELING
<u></u> HOT STANDBY	<u>X</u> POST REFUELING
<u>X</u> HOT SHUTDOWN	<u></u> STARTUP
<u>X</u> COLD SHUTDOWN	<u></u> REDUCED POWER
<u></u> PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually Inspect thrust bearing Ring for signs of cracks, gouges, wear or degradation.

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
 \*REV.# \_\_\_\_\_

\*MARK # 1863\*501  
 \*FREQ. 999

MANUFACTURER Delaval

\*EQ. DESCR. Diesel Engine \*EST.MHRS \_\_\_\_\_  
 \*Q CLASS 2  
 \*REL.ORG. \_\_\_\_\_  
 MODEL# D5R-48 \*EST#MEN \_\_\_\_\_  
 EQUIP. OUTAGE \_\_\_\_\_  
 RWP \_\_\_\_\_  
 \*TASK DESCR. Exhaust Manifold FIRE LOAD \_\_\_\_\_  
 \*PROCEDURES# COL. LINE ELEV. AREA CLEARANCE \_\_\_\_\_  
 (1) Ø DE 98 D13 RELATED TASK \_\_\_\_\_  
 (2) \_\_\_\_\_  
 (3) \_\_\_\_\_  
 (4) \_\_\_\_\_

MANUAL# 3244-300-441-002

\*REFERENCES (1) DR/OR 03-354A  
 (2) \_\_\_\_\_  
 (3) \_\_\_\_\_

PLANT MODE

POWER OPERATION	<input checked="" type="checkbox"/>	REFUELING
HOT STANDBY	<input checked="" type="checkbox"/>	POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN		STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN		REDUCED POWER
PRE-REFUELING		

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually and MT examine a sampling of circumferential  
pipe welds and corresponding heat affected zones.  
Note: To be performed during first refueling outage and  
alternate outages thereafter. However, diesel operation  
should not exceed 244 hours between inspections.

COMMENTS: \_\_\_\_\_

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
 DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
 TECH. ENG. DATE

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
 QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# WD PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 60565  
\*REV.# 1

MARK# LEG 5' 4" EG 1A

\*FREQ. 999

MANUFACTURER Delaval

EQ. DESCR. DEEAL ENGINE

\*EST. MTRS. 4

MODEL# DSR-48

\*EST. #MEN 2

TASK DESCR. Crankcase Relief Valve - Check

PROCEDURES#

COL. LINE ELEV. AREA  
4.0 DS 99 D&A

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

MANUAL# 2244700-041-002

\*REFERENCES (1) DR/GR 63-385A

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N ORG. 2  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK \_\_\_\_\_

## PLANT MODE

- |   |  |
|---|--|
| - POWER OPERATION                                 | <input checked="" type="checkbox"/> REFUELING      |
| - HOT STANDBY                                     | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | - STARTUP  |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | - REDUCED POWER                                    |
| - PRE-REFUELING                                   |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

clean flame ARRESTOR

EXAMINE seat AND DEF

COMMENTS: \_\_\_\_\_

APPROVAL \_\_\_\_\_

DISPL. SUPV.

DATE

APPROVAL \_\_\_\_\_

TECH. ENG.

DATE

APPROVAL \_\_\_\_\_

QUALITY

DATE

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK# 1565 \* EG1A

\*FREQ. 999

\*TASK# ME 563  
\*REV.# 2

MANUFACTURER Delaval

\*EQ. DESCR. DIESEL ENGINE \*EST. MRS 8

MODEL# DSR 48 \*EST. #MEN 2

\*TASK DESCR. Governor AND Tachometer Drive - check

\*PROCEDURES#  
(1) COL. LINE ELEV. AREA  
0 DE 98 DG

MANUAL# 3244.700-041-002

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE X  
RWP X  
FIRE LOAD X  
CLEARANCE X  
RELATED TASK X

\*REFERENCES (1) DR/BR Report 03-402A

(2) 3244.700-041-005

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

EXAMINE Governor Drive AND Tachometer Drive Gear and  
shaft for signs of wear, Per instruction manual  
3244.700-041-005 section W Weidard Governor

## COMMENTS:

APPROVAL [Signature] 11/12/25  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 11/16/25  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# MS 525  
\*REV.# 4

\*MARK# LEGA \* C2A

\*FREQ. 999

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MHRS 1

\*Q CLASS 1

MODEL# H15TX

\*EST. #MEN 2

\*REL. ORG. OPS

EQUIP. OUTAGE X

RAP N

FIRE LOAD N

CLEARANCE X

RELATED TASK X

MS 360

\*TASK DESCR. Check Pulley

\*PROCEDURES#

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

COL. LINE ELEV. AREA  
4.0 DE 98 DGA

MANUAL# 3244-700-041-005

\*REFERENCES (1) DR/OR 3-835D

(2) \_\_\_\_\_

(3) \_\_\_\_\_

MS 523

MS 524

MS 526

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

\*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

check pulley clamp bolts/set screws for tightness.

Per ARM. 3244-700-041-002 section I

COMMENTS: \_\_\_\_\_

APPROVAL \_\_\_\_\_

DISPL. SUPV.

DATE

APPROVAL \_\_\_\_\_

TECH. ENG.

DATE

APPROVAL \_\_\_\_\_

QUALITY

DATE

\* INDICATES A REQUIRED ENTRY BEFORE

REVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 15617 \* C2B

TASK # ME 525  
REV. # 0

\*EQ. DESCR. Air Compressor

RELATED TASK CONT.  
BEST. # ME 527

MODEL # H157A

BEST. # ME 528

\*TASK DESCR. Change Filter

ME 529

WORK INSTRUCTION:

# PREVENTATIVE MAINTENANCE TASK APPROVAL

WD  
\*MARK# 1567 \*C1A

\*FREQ. 999

\*TASK# MS 361  
\*REV.# 2

MANUFACTURER Ingersoll-Rand

\*EQ. DESCR. FLR compressor

\*EST. MHS 4

\*Q CLASS 1

MODEL# H151A

\*EST. #MEN 2

\*REL. ORG. OPS

\*TASK DESCR. Inspect/clean Air Valve

\*PROCEDURES#

COL. LINE ELEV. AREA

(1) \_\_\_\_\_

0 05 95 DB

(2) \_\_\_\_\_

MANUAL# 3244-7dd-441-445

(3) \_\_\_\_\_

\*REFERENCES (1) \_\_\_\_\_

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

EQUIP. OUTAGE Y

RWP Y

FIRE LOAD Y

CLEARANCE Y

RELATED TASK

MS 316

MS 317

MS 318

MS 319

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.D.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Inspect AND clean Auxiliary AIR Valve Per P.M.

3244-7dd-441-445 section I.

COMMENTS: \_\_\_\_\_

APPROVAL RE. Gentry 11/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL W. Gentry 11/2/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 15617\* C17

TASK 12 11500361  
REV. 12 0

MANUFACTURER Leopold, L. Inc.

REG. DEPT. AT 2 BOSTON

MODEL 1415 TX

RELATED TASK CONT.

-----520-----

52/ 9031. DRG. QPS

522

WORK INSTRUCTION:

PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK 166A \* CIA

\*FREQ. 999

\*TASK# MF 516  
\*REV.# 1

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MHRS 1

\*Q CLASS 1

MODEL# H15TX

\*EST. #MEN 2

\*REL. ORG. OPS

\*TASK DESCR. Replace Filter Element

\*PROCEDURES#

COL. LINE ELEV. AREA

(1) \_\_\_\_\_

DB 98 DB

(2) \_\_\_\_\_

MANUAL# 3244700-441-445

(3) \_\_\_\_\_

\*REFERENCES (1) DB/OR 3-835D

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

EQUIP. OUTAGE Y

RWP N

FIRE LOAD N

CLEARANCE Y

RELATED TASK Y

MF 361

MF 517

MF 518

MF 519

PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Replace Intake AIR Filter Element.

Replacement Element 32012957

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/4/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/16/85  
QUALITY DATE





# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# MEPD 517  
\*REV.# 1

\*MARK# 10 EGA\* C17

\*FREQ. 999

MANUFACTURER INGERSOLL-RAND

\*EQ. DESCR. Air Compressor

\*EST. MRS 4

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
MEPD 361

MODEL# H15TX

\*EST. #MEN 2

\*TASK DESCR. CLEAN AFTER COOLER F2B

\*PROCEDURES#

COL. LINE ELEV. AREA  
4 DE 98 DB17

(1) \_\_\_\_\_

MANUAL# 3244.700-041-005

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-8350

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

MEPD 516  
MEPD 518  
MEPD 519

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Clean FINS ON after-cooler. PER. EPM 3244.700-041-005  
Section I

COMMENTS: \_\_\_\_\_

APPROVAL RE. G. [Signature] 1 4/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL RE. [Signature] 1 4/2/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

MARK #17 LEG 17\* CIA

#22.00 SCR. 117 Compressor

RELATED TASK CONT.

MODEL H-57X

MS 80521

EQUIP. OUTAGE ☒

TASK DESCR. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.  
PROCEDURES: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

MF 522

FIRE LOAD 4

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# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 522  
\*REV.# 2

\*MARK# 1E6A\* C17

\*FREQ. 999

MANUFACTURER Engersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MRS 1

MODEL# H15TX

\*EST. #MEN 2

\*TASK DESCR. check belt tension

\*PROCEDURES#

(1) GMP 0024

COL. LINE ELEV. AREA  
4-0 DE 98 DGA

(2) \_\_\_\_\_

MANUAL# 3244-700-041-005

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 63-835D

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME 00 361  
ME 00 516  
ME 00 517  
ME 00 518

## PLANT MODE

☐ POWER OPERATION ☒ REFUELING  
☐ HOT STANDBY ☒ POST REFUELING  
☒ HOT SHUTDOWN ☐ STARTUP  
☒ COLD SHUTDOWN ☐ REDUCED POWER  
☐ PRE-REFUELING

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

check belt tension. Per GMP 0024 AND RPM 3244-700-041-005 Section I.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1-4/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1-4/16/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # LEGA \* CIA

TASK # X1500 522  
REV. # 0

\*EQ. DESCR. Fire Compartment

\*EST. X1500 519 RELATED TASK CONT.

MODEL H12TH

\*EST. X1500 520 EQUIP. OUTAGE X

\*TASK OR CR. check with JMS/...

X1500 521 FIRE LOAD 1

WORK INSTRUCTION:



# PREVENTATIVE MAINTENANCE TASK APPROVAL

WD

\*MARK# 1567 \* C27

\*FREQ. 999

\*TASK# MR 360  
\*REV.# 2

MANUFACTURER Ingersoll-Rand

\*EQ. DESCR. FLR compressor

\*EST. MRS 4

MODEL# 1151A

\*EST. #MEN 2

\*TASK DESCR. Inspect/clean Air Valve

\*PROCEDURES#

COL. LINE ELEV. AREA  
4.0 25 95 DBA

MANUAL# 3244-7dd-441-005

\*Q CLASS 1  
\*REL. ORG. QPS  
EQUIP. OUTAGE Y  
RWP Y  
FIRE LOAD Y  
CLEARANCE Y  
RELATED TASK  
MR 523

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

\*REFERENCES (1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.D.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Inspect AND clean Auxiliary Air Valve Per P.M.

3244-7dd-441-005 section I.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/12/55  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/14/55  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # LEG 17\* C2B

TASK # MF00360  
REV. # ---

MANUFACTURED BY THE B. & O. CO.

SEP. DATE. 12<sup>th</sup> 2 P.M. 1950

MODEL 1157A

\*TAG 0-577. TAG 0-577-1000

WORK INSTRUCTION:

RELATED TASK CONT.

ME-00527

MEP 528

ANF-529

URL: [org.dps](http://org.dps)

$$S_n \cong$$

# PREVENTATIVE MAINTENANCE TASK APPROVAL

LD

\*MARK# LEGA\* C2A

\*FREQ. 999

\*TASK# ME-528  
\*REV.# 1

MANUFACTURER INGERSOLL-RAND

\*EQ. DESCR. Air Compressor \*EST. MHS 4

MODEL# H15TX \*EST. #MEN 2

\*TASK DESCR. CLEAN AFTER-COOLER F2B

\*PROCEDURES#  
(1) COL. LINE ELEV. AREA  
4 DE 98 DBA

(2) MANUAL# 3244.700-041-005

(3) \*REFERENCES (1) DR/OR 03-8350

(4) (2) \_\_\_\_\_  
(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. DPS  
EQUIP. OUTAGE Y  
RWP Y  
FIRE LOAD Y  
CLEARANCE Y  
RELATED TASK Y  
ME-523  
ME-524  
ME-525

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

CLEAN FILLS ON after-cooler. PER. EPM 3244.700-041-005  
Section I

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/12/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/16/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 15607 C2A

TASK 1/1 ME-00528  
REV. 1/1 0

#22. DESCR. High Compressor

RELATED TASK CONT.  
QUEST. NO. X15 526 CLASS 526

MODEL H5TX

MEOP 527 EQUIP. OUTAGE

\*TASK DESCR. *CLERK REPAIRS JLR*

## PROCEDURES

MF-00 529 FIRE LOAD ✓

WORK INSTRUCTION:

(2)

5

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 527  
\*REV.# 2

\*MARK# LEGA\* C217

\*FREQ. 999

MANUFACTURER INGERSOLL RAND

\*EQ. DESCR. AIR Compressor

\*EST. MRS 4

\*Q CLASS 1

MODEL# H15TX

\*EST. #MEN 2

\*REL. ORG. OPS

\*TASK DESCR. Clean fins on Intercooler

\*PROCEDURES#

COL. LINE ELEV. AREA

(1)

640 DE 98 20-A

(2)

MANUAL# 3244.701-041-005

(3)

\*REFERENCES (1) OR/OR 03-8350

(4)

(2)

(3)

EQUIP. OUTAGE X

R&P N

FIRE LOAD A

CLEARANCE X

RELATED TASK Y

ME 523

ME 524

ME 525

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Clean fins on Intercooler. PER APM 3244.701-041-005  
Section I.

## COMMENTS:

APPROVAL [Signature] 1 4/1/85  
DISPL. SUPV. DATE

APPROVAL [Signature] 1 4/1/85  
TECH. ENG. DATE

APPROVAL [Signature] 1 4/1/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE



REVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 15617 \* C217

TASK # ME00527  
REV. # ---

RELATED TASK CONT.

\*EQ. DESCR. AIR COMPRESSOR

\*EST. ME 526

MODEL# H157X

\*EST. ME 528

\*TASK DESCR. Clean filter on Intercooler

ME 529

WORK INSTRUCTION:

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME-00 524  
\*REV.# 0

\*MARK# 156A\* 22A

\*FREQ. 999

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MRS 2

MODEL# H15TX

\*EST. #MEN 2

\*TASK DESCR. Service Moisture TRP 2B

\*PROCEDURES#

COL. LINE ELEV. AREA

(1) \_\_\_\_\_

4.0 DF 98 DBA

(2) \_\_\_\_\_

MANUAL# 3244.700-041-005

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 038351

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME-00 360  
ME-00 523  
ME-00 524  
ME-00 525

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input checked="" type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Examine And Service Moisture trap. P.O.R. RPM 3244.700-  
041-005 SECTION I

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/10/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/10/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND COMPLETED

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

МАРК 2

156R \* C2B

TASK 12 MS-00-526  
REV. 12 ---

REQ. D = SCR. 412 Compressor

RELATED TASK CONT.  
ME 527 40 CLASS.

MODEL 1715T

WEST-AM 1200Z 12 SEP 68  
MSG NO 528 EQUIP OUTAGE

\*TASK DESCR. Service Training T.F. Inc  
\*PROJECTOR 100

MSD 529 FIRE LOAD

WORK INSTRUCTION:

(2)

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 00529  
\*REV.# 0

\*MARK 166A \* C 2 A

\*FREQ. 999

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MRS 1

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y  
RWP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME 00360

MODEL# H15TX

\*EST. #MEN 2

\*TASK DESCR. Replace Filter Element

\*PROCEDURES#

COL. LINE ELEV. AREA  
4 0 05 98 DB17

(1) \_\_\_\_\_

MANUAL# 3244700-041-005

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*REFERENCES (1) DB/OR 03-8350

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

ME 00523

ME 00524

ME 00525

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Replace Intake AIR Filter Element,  
Replacement Element 32012957

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1 4/2/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ 1 \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1 4/2/85  
QUALITY DATE

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 120A' C2A'

TASK # 115-00529  
REV. # 2

MANUFACTURER Lyons' Band

RELATED TASK CONT.  
MS-00 526

#62 - C65Gh - 1717 - 1917 - 1917

MS 527 CLASS 1  
MS 528 GROUP OUTAGE

MODEL# 125X

WORK INSTRUCTION:

[illegible]



# PREVENTATIVE MAINTENANCE TASK APPROVAL

W

\*TASK# MS-00524  
\*REV.# 2

\*MARK: 1E6A \* C2A

\*FREQ. 999

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MRS 2

\*Q CLASS 1

MODEL# H15TX

\*EST. #MEN 2

\*REL. ORG: OPS  
EQUIP. OUTAGE Y

\*TASK DESCR. Change Oil

\*PROCEDURES#

COL. LINE ELEV. AREA

(1) GMP-0015

4.0 25 95 26A

RWP 8  
FIRE LOAD 4

(2) \_\_\_\_\_

MANUAL# 3244-700-041-005

CLEARANCE Y  
RELATED TASK Y

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-835D

MS-00523

(4) \_\_\_\_\_

(2) \_\_\_\_\_

MS-00525

(3) \_\_\_\_\_

MS-00526

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Change Compressor Oil PER GMP 0015 Harmony 68.50TS  
R.P.M. 3244-700-041-005 Section-I

COMMENTS: \_\_\_\_\_

APPROVAL R. E. Smith / 1/1/80  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL Penetration / 1/1/80  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE PM CAN BE APPROVED AND SCHEDULED

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 156-17 \* C213

TASK # 11K-00524  
REV. # 2

\*EQ. DESCR. *File 100-442000*

RELATED TASK CONT.

MAILED 17-1-76

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

TASK DESCR. *Expendable*

APR 25 1978

125-44-529

FILE NO. 4

WORK INSTRUCTION:

(2) *See* *supra* note 1, at 100.

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# MF 00523  
\*REV.# 2

\*MARK# LEGA\* C2A

\*FREQ. 999

MANUFACTURER Engersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MHS 1

MODEL# H15TX

\*EST. #MEN 2

\*TASK DESCR. check belt tension

\*PROCEDURES#  
(1) GMP 0024

COL. LINE ELEV. AREA  
4.0 DE 98 DGA

(2) \_\_\_\_\_

MANUAL# 3244.700-041-005

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-835D

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE X  
RHP N  
FIRE LOAD N  
CLEARANCE N  
RELATED TASK X  
MF 00360  
524  
523  
526

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

check belt tension. Per GMP 0024 AND RPM 3244.700-  
041-005 section I.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 14/12/02  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/11/05  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

REVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1567 \* C213

TASK # ME 523  
REV. # 1

REQ. DESCR. <u>FL COMPRESSOR</u>	TEST. <u>ME 527</u>	RELATED TASK CONT. <u>NO CLASS</u>
MODEL# <u>11515</u>	TEST. <u>ME 528</u>	EQUIP. OUTAGE <u>X</u>
ATASK DESCR. <u>CHG. OIL</u>	<u>ME 529</u>	PIPE LOAD <u>11</u>

WORK INSTRUCTION:

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 00520  
\*REV.# 0

\*MARK# 1 EGA \* C 17

\*FREQ. 999

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MRS 1

\*Q CLASS 1

MODEL# H15TX

\*EST. #MEN 2

\*REL. ORG. OPS

\*TASK DESCR. Check Pulley

EQUIP. OUTAGE X

\*PROCEDURES#

CDL, LINE ELEV. AREA

RHP N

(1) \_\_\_\_\_

4.0 DE 98 DC17

FIRE LOAD N

(2) \_\_\_\_\_

MANUAL# 3244-700-041-005

CLEARANCE X

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 03-835D

RELATED TASK X

(4) \_\_\_\_\_

ME 00516

(2) \_\_\_\_\_

ME 00517

(3) \_\_\_\_\_

ME 00518

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input type="checkbox"/> HOT STANDBY              | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

\*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

check pulley clamp bolts/set screws for tightness.

Per BRM. 3244-700-041-002 section I

COMMENTS: \_\_\_\_\_

APPROVAL R.E. Kuster 1/12/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL DeMott 1/12/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE



REVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 5617\* C17

TASK # ME 0520  
REV. # 0

\*REQ. DESCR. Air Compressor

RELATED TASK CONT.  
\*EST. ME 0519

MODEL H1576

\*EST. ME 0521

\*TASK DESCR. Check Pulley

ME 0522

WORK INSTRUCTIONS:

# PREVENTATIVE MAINTENANCE TASK APPROVAL

WD  
\*MARK: 156A C1A

\*FREQ. 999

\*TASK# ME 521  
\*REV.# 2

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MRS 2

\*Q CLASS 1  
\*REL. ORG. OPS  
EQUIP. OUTAGE Y

MODEL# H15TX

\*EST. #MEN 2

RAP N  
FIRE LOAD N  
CLEARANCE Y  
RELATED TASK Y  
ME 516  
ME 517  
ME 518

\*TASK DESCR. Change Oil

\*PROCEDURES#  
(1) GMP 0015

COL. LINE ELEV. AREA  
4.0 DE 98 06A

(2) \_\_\_\_\_

MANUAL# 3244-200-041-005

(3) \_\_\_\_\_

\*REFERENCES (1) DR 08 03-825D

(4) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

## PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input checked="" type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input checked="" type="checkbox"/> POST REFUELING
<input checked="" type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input checked="" type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Change Compressor Oil PER GMP 0015 Harmony 08. 50TS  
H. P.M. 3244-200-041-005 Section-I

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/1/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ 1/1/85  
TECH. ENG. DATE

APPROVAL [Signature] 1/1/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED AND SCHEDULED

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1567 \* C17

TASK # MS-52  
REV. # 1

\*82. DESCR. *Frit. Laminaria*

QUEST. 112 00519 RELATED TASK CONT. CLASS 6

MODEL A-157A

WEST. MS-60 520 COURT, OUTAGE Y

STASH. Delivered to the ...  
BROOKLYN

MR-00522

WORK INSTRUCTION:

421

# W PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME 518  
\*REV.# 2

\*MARK# LEGA\* C117

\*FREQ. 999

MANUFACTURER INGERSOLL RAND

\*EQ. DESCR. AIR Compressor

\*EST. MRS 4

\*Q CLASS L

MODEL# HL5TX

\*EST. #MEN 2

\*REL. ORG. OPS

\*TASK DESCR. Clean fins on Intercooler

EQUIP. OUTAGE X

\*PROCEDURES#

COL. LINE ELEV. AREA

RHP N

(1) \_\_\_\_\_

4th DE 98 20-17

FIRE LOAD 1

(2) \_\_\_\_\_

MANUAL# 3244.700-041-005

CLEARANCE X

(3) \_\_\_\_\_

\*REFERENCES (1) OR/OR 03-8350

RELATED TASK X

(4) \_\_\_\_\_

ME 516

(2) \_\_\_\_\_

ME 517

(3) \_\_\_\_\_

ME 518

## PLANT MODE

- |                   |                  |
|-------------------|------------------|
| - POWER OPERATION | Δ REFUELING      |
| - HOT STANDBY     | Δ POST REFUELING |
| Δ HOT SHUTDOWN    | - STARTUP        |
| Δ COLD SHUTDOWN   | - REDUCED POWER  |
| - PRE-REFUELING   |                  |

\*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Clean fins on Intercooler. PER APM 3244.700-041-005  
Section I.

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/16/85  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL [Signature] 1/16/85  
QUALITY DATE

\* INDICATES A REQUIRED ENTRY BEFORE  
PM CAN BE APPROVED BY J.C.

REVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1867\* C17

TASK # ME 4418  
REV. # 4

REQ. DESCR. HER COMPRESSOR

RELATED TASK CONT.  
WEST ME 44524

MODEL H18TX

WEST ME 44521 GRS  
OUTAGE X

TASK DESCR. Clean & oil her compressor

ME 44522

WORK INSTRUCTION:



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# 1567\*217  
 \*REV.# 999

\*MARK# 1567\*217

\*FREQ. 999

MANUFACTURER Ingersoll Rand

\*EQ. DESCR. Air Compressor

\*EST. MHS 2

\*Q CLASS 1

MODEL# H15TX

\*EST. #MEN 2

\*REL. ORG. OPS

EQUIP. OUTAGE Y

\*TASK DESCR. Service Moisture TRP 2B

RWP N

\*PROCEDURES#

COL. LINE ELEV. AREA

FIRE LOAD N

CLEARANCE Y

RFIATED TASK Y

(1) \_\_\_\_\_

4.0 DF 98 DBH

1567\*217

(2) \_\_\_\_\_

MANUAL# 2244-264-441-445

1567\*217

(3) \_\_\_\_\_

\*REFERENCES (1) DR/OR 438351

1567\*217

(4) \_\_\_\_\_

(2) \_\_\_\_\_

1567\*217

(3) \_\_\_\_\_

## PLANT MODE

- |   |  |
|---|--|
| <input type="checkbox"/> POWER OPERATION          | <input checked="" type="checkbox"/> REFUELING      |
| <input checked="" type="checkbox"/> HOT STANDBY   | <input checked="" type="checkbox"/> POST REFUELING |
| <input checked="" type="checkbox"/> HOT SHUTDOWN  | <input type="checkbox"/> STARTUP                   |
| <input checked="" type="checkbox"/> COLD SHUTDOWN | <input type="checkbox"/> REDUCED POWER             |
| <input type="checkbox"/> PRE-REFUELING            |  |

## \*WORK INSTRUCTION:

NOTE: NOTIFY J.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.W.O.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Examine and service moisture trap. Per. PRM 2244-264-  
441-445 section I

COMMENTS: \_\_\_\_\_

APPROVAL [Signature] 1/1/58  
 DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_  
 TECH. ENG. DATE

APPROVAL [Signature] 1/1/58  
 QUALITY DATE

PREVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1567\* C117

TASK # MEP-519  
REV. # 2

062. DESER. *Desert*

MODEL 112TX

\*TASK DESC\* *Review Letter File*

RELATED TASK CONT.

115 52

MS. A. 521

MS-BB 522

## WU JIA GU TAGE

PLATE 1740 N

WORK INSTRUCTIONS:

1250

# PREVENATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # LEG5 \* EGI

\*FREQ. 156-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST.MHRS 4

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Thrust Bearing Ring

\*PROCEDURES# COL. LINE ELEV. AREA

(1) CMP 944 0 DE 98 DB

(2)  MANUAL# 3244-700-041-002

(3)  \*REFERENCES (1) DR/OR 03-3100

(4)  (2)

(3)

PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually Inspect Thrust bearing Ring for signs of cracks,  
gouges, wear or degradation.

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# PREVENATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 2

\*MARK # 1565 \* EGI

\*FREQ. 156-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST.MHRS 8

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Exhaust Manifold

\*PROCEDURES# COL. LINE ELEV. AREA

(1) DE 98 DB

(2) MANUAL# 3244.744-441-002

(3) \*REFERENCES (1) DR/OR-394H

(4) (2)

(3)

PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually and MT examine a sampling of circumferential pipe welds and corresponding heat affected zones.

COMMENTS:

APPROVAL  /  DATE  
DISPL. SUPV.

APPROVAL  /  DATE  
TECH. ENG.

APPROVAL  /  DATE  
QUALITY

\*INDICATES A REQUIRED ENTRY

# PREVENATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 15-G5 \* EGI

\*FREQ. 156-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST. MHRS 2

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL. ORG. OPS

\*TASK DESCR. Flex Connection

EQUIP. OUTAGE yes

\*PROCEDURES# COL. LINE ELEV. AREA

RWP No

(1) 0 DE 98 DB

FIRE LOAD No

(2) MANUAL# 3244.744-441-442

CLEARANCE yes

(3) \*REFERENCES (1) DR/OR 43-9450

RELATED TASK

(4)

(3)

PLANT MODE

POWER OPERATION

X REFUELING

HOT STANDBY

X POST REFUELING

X HOT SHUTDOWN

STARTUP

X COLD SHUTDOWN

REDUCED POWER

PRE-REFUELING

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually inspect for evidence of cuts, holes, or dents.

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# MS  
\*REV.# 0

\*MARK # 1563 \* E6-1

\*FREQ. 260 999

MANUFACTURER ELLIOTT

\*EQ. DESCR. Turbocharger

\*EST. MHRS 36

\*Q CLASS 1

MODEL# 906A

\*EST#MEN 3

\*REL. ORG. OPS

EQUIP. OUTAGE YES

RWP N

FIRE LOAD N

CLEARANCE YES

RELATED TASK

\*TASK DESCR. Turbocharger

\*PROCEDURES# COL. LINE ELEV. AREA

(1) 0 DE 98 D13

(2) MANUAL# 3244-200-41-002

(3) \*REFERENCES (1) DR/OR MP-017

(4) (2) 3244-200-41-005

(3)

PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

1) Perform visual and blue check inspections of the thrust bearing.

2) Disassemble inspect and refurbish

COMMENTS:

APPROVAL  /   
DISPL. SUPV. / DATE

APPROVAL  /   
TECH. ENG. / DATE

APPROVAL  /   
QUALITY / DATE

\*INDICATES A REQUIRED ENTRY

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1565 \* EGI

\*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST.MHRS 2

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Piston Pin Assembly

\*PROCEDURES# COL. LINE ELEV. AREA

(1) X MP 9894 0 DE 98 DB

(2)  MANUAL# 3244-700-041-042

(3)  \*REFERENCES (1) DR/OR 03-341C

(4)  (2)

(3)

## PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Visually Inspect for chrome plate damage. Replace pins which show chipped or blistered chrome.

Note: All new or replacement pins will be L.P. or M.P. Inspected before installation.

COMMENTS:

APPROVAL  /  DATE  
DISPL. SUPV.

APPROVAL  /  DATE  
TECH. ENG.

APPROVAL  /  DATE  
QUALITY

\*INDICATES A REQUIRED ENTRY

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1565 \* EG1

\*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST. MHRS 16

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS  
EQUIP. OUTAGE yes  
RWP No  
FIRE LOAD No  
CLEARANCE yes  
RELATED TASK

\*TASK DESCR. Piston Rings

\*PROCEDURES# COL. LINE ELEV. AREA  
(1) MP 9094 0 DE 98 DB

(2)  MANUAL# 3244-700-041-002

(3)  \*REFERENCES (1) DR/BR 03-341B

(4)  (2)

(3)

## PLANT MODE

<u></u> POWER OPERATION	<u>X</u> REFUELING
<u></u> HOT STANDBY	<u>X</u> POST REFUELING
<u>X</u> HOT SHUTDOWN	<u></u> STARTUP
<u>X</u> COLD SHUTDOWN	<u></u> REDUCED POWER
<u></u> PRE-REFUELING	

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Inspect and measure piston rings. To be performed in conjunction  
with piston pin inspection. Complete TDI Inspection and  
Maintenance Record Form No. 341-2-4, TDI Instruction Manual,  
Volume I, Section 5-D-11. use Volume I, Section 8, Appendix  
III for clearance values.

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# PREVENATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1E-65\* EGI

\*FREQ. 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST. MHRS 8

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL. ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. PISTON SKIRT & PIN

\*PROCEDURES# COL. LINE ELEV. AREA

(1) CMP 4094 0 DE 98 DB

(2)  MANUAL# 3244-700-041-002

(3)  \*REFERENCES (1) DR/BR 03-3417

(4)  (2)

(3)

## PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Inspect and measure skirt and piston pin

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1565 \* EG1

\*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST.MHRS 16

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Cylinder Head

\*PROCEDURES# COL. LINE ELEV. AREA

(1) X MP 9094 0 DE 98 DB

(2)  MANUAL# 3244-700-041-002

(3)  \*REFERENCES (1) DR/OR 03-360/7

(4)  (2)

(3)

## PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Usually inspect cylinder heads (all cylinders).  
Complete TDI Inspection and Maintenance Record form w/a  
360-1-1 TDI Instruction Manual Volume I, section  
5-D-15. One sheet for each head

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1EG5 \* EGI \*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE \*EST. MHRS 4

MODEL# DSR-48 \*EST#MEN       

\*TASK DESCR. Govermor Heat Exchanger

\*PROCEDURES# COL. LINE ELEV. AREA  
(1) X MP 9094 0 DE 98 DB

(2)        MANUAL# 3244-7, 0-041-002

(3)        \*REFERENCES (1) DR/OR 03-4152

(4)        (2)       

(3)       

## PLANT MODE

<u>      </u> POWER OPERATION	<u>X</u> REFUELING
<u>      </u> HOT STANDBY	<u>X</u> POST REFUELING
<u>X</u> HOT SHUTDOWN	<u>      </u> STARTUP
<u>X</u> COLD SHUTDOWN	<u>      </u> REDUCED POWER
<u>      </u> PRE-REFUELING	

\*Q CLASS 1  
\*REL.ORG. OPS  
EQUIP. OUTAGE yes  
RWP No  
FIRE LOAD No  
CLEARANCE yes  
RELATED TASK       

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Clean and Inspect. if any abnormal situations or  
indications of progressive pitting should be reported for  
an engineering evaluation.

COMMENTS:       

APPROVAL        /        DATE  
DISPL. SUPV.

APPROVAL        /        DATE  
TECH. ENG.

APPROVAL        /        DATE  
QUALITY

\*INDICATES A REQUIRED ENTRY

VO

\*MARK # 1E-65\* EGI

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESEL ENGINE

\*EST. MHRS 4

\*Q CLASS 7

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

\*TASK DESCR. Overspeed Trip reset value

EQUIP. OUTAGE yes

*PROCEDURES#	COL.	LINE	ELEV.	AREA
--------------	------	------	-------	------

RWP No

(1) MP 9844 DE 98 DB

FIRE LOAD *No*

CLEARANCE Yes

RELATED TASK

(2) \_\_\_\_\_ MANUAL# 3244-700-041-002

(3) \_\_\_\_\_ \*REFERENCES (1) DR/BR 03-4/00

(4) \_\_\_\_\_ (2) \_\_\_\_\_

(3)

PLANT MODE

POWER OPERATION

X REFUELING

HOT STANDBY

X POST REFUELING

X HOT SHUTDOWN

## STARTUP

X COLD SHUTDOWN

REDUCED POWER

PRE-REFUELING

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Disassemble and replace "O" rings

COMMENTS: \_\_\_\_\_

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
DISPL. SUPV. \_\_\_\_\_ DATE \_\_\_\_\_

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME

\*REV.# 0

\*MARK # 1EGT-TCV20

\*FREQ. 264 999

MANUFACTURER ROBERT SHAW

\*EQ. \*EQ. DESCR. Thermostatic Valve \*EST.MHRS 4

MODEL# I-1284-5115" \*EST#MEN 2

\*TASK DESCR. Thermostatic Valve

\*PROCEDURES# POL. LINE ELEV. AREA

(1) MCP-4000 DE 98' DB

(2) MANUAL# 3244.200-041-005

(3) REFERENCES (1) 1.1 EGT. 008

(4) DATE DUE (2) DA/DR 03-515

CAL DATE (3)

PLANT MODE

POWER OPERATION

HOT STANDBY

HOT SHUTDOWN

COLD SHUTDOWN

PRE-REFUELING

REFUELING

POST REFUELING

STARTUP

REDUCED POWER

\*Q. CLASS 1

\*REL.ORG: OFF

EQUIP. OUTAGE N

RWP N

FIRE LOAD N

CLEARANCE Y

RELATED TASK V

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Replace thermal power element.

COMMENTS: \_\_\_\_\_

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
DISPL. SUPV. DATE

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
TECH. ENG. DATE

APPROVAL \_\_\_\_\_ / \_\_\_\_\_  
QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# PREVENATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1565 \* EGI

\*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST.MHRS 2

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Sub Base L.O. and S.O. Valves

\*PROCEDURES# COL. LINE ELEV. AREA

(1) MP 9094 0 DE 98 DB

(2) MANUAL# 3244-700-041-002

(3) \*REFERENCES (1) DR/OR 03-717E/N

(4) (2)

(3)

PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Dissassemble, clean and check relief valve list Pressure

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # 1E-65\* EGI

\*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST.MHRS 2

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL.ORG. OPS

\*TASK DESCR. Jacket Water System

EQUIP. OUTAGE yes

\*PROCEDURES# COL. LINE ELEV. AREA

RWP No

(1) X MP 9094 0 DE 98 DB

FIRE LOAD No

CLEARANCE yes

RELATED TASK

(2) MANUAL# 3244-700-041-002

(3) \*REFERENCES (1) DR/OR

(4) (2)

(3)

PLANT MODE

☐ POWER OPERATION  
☐ HOT STANDBY  
☒ HOT SHUTDOWN  
☒ COLD SHUTDOWN  
☐ PRE-REFUELING

☒ REFUELING  
☒ POST REFUELING  
☐ STARTUP  
☐ REDUCED POWER

\*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Replace elastomeric parts in jacket water valves

COMMENTS:

APPROVAL DISPL. SUPV. / DATE

APPROVAL TECH. ENG. / DATE

APPROVAL QUALITY / DATE

\*INDICATES A REQUIRED ENTRY



# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*MARK# 1565 \* 501 \*FREQ. 260-99 \*TASK# MF  
 \*REV.# 2

MANUFACTURER Delaval

\*EQ. DESCR. Diesel ENGINE \*EST. MHRS. \_\_\_\_\_

MODEL# DSR \*EST. #MEN \_\_\_\_\_

\*TASK DESCR. Intake and Exhaust Valves

\*PROCEDURES# \_\_\_\_\_ COL. LINE ELEV. AREA \_\_\_\_\_

(1) CMP 9094 2 DS 98 DIB

(2) \_\_\_\_\_ MANUAL# 3244.760-41-42

(3) \_\_\_\_\_

(4) \_\_\_\_\_

\*REFERENCES (1) DB/DR 3-340B

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\*Q CLASS 1

\*REL. ORG. OPS

EQUIP. OUTAGE YES

RWP NO

FIRE LOAD NO

CLEARANCE YES

RELATED TASK NO

PLANT MODE

<input type="checkbox"/> POWER OPERATION	<input type="checkbox"/> REFUELING
<input type="checkbox"/> HOT STANDBY	<input type="checkbox"/> POST REFUELING
<input type="checkbox"/> HOT SHUTDOWN	<input type="checkbox"/> STARTUP
<input type="checkbox"/> COLD SHUTDOWN	<input type="checkbox"/> REDUCED POWER
<input type="checkbox"/> PRE-REFUELING	

\*WORK INSTRUCTION:

NOTE: NOTIFY W.C. PRIOR TO START OF WORK.

RECORD ANY DISCREPANCY IN COMMENT SECTION OF P.M.A.D.

ALSO NOTE CORRECTIVE ACTION INITIATED.

Visually Inspect Intake and exhaust valve, discs,  
stems and seats for wire drawing, pitting, distortion,  
concentricity, or any abnormal conditions. Complete  
TDI Inspection and Maintenance Record Form 360-2-1 TDI  
Volume I section 5-D-14.

COMMENTS: \_\_\_\_\_

APPROVAL \_\_\_\_\_ / \_\_\_\_\_ DATE \_\_\_\_\_

DISPL. SUPV.

APPROVAL \_\_\_\_\_ / \_\_\_\_\_ DATE \_\_\_\_\_

TECH. ENG.

APPROVAL \_\_\_\_\_ / \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY

\* INDICATES A REQUIRED ENTRY BEFORE PM CAN BE APPROVED AND SCHEDULED

REVENTATIVE MAINTENANCE APPROVAL  
CONTINUATION

MARK # 1565 \* 861

TASK # ME  
REV. # 1

RELATED TASK CONT.

WORK INSTRUCTION:

Measure Intake and Exhaust Valve head thickness.

Measure Intake and Exhaust Valves - valve-to-guide clearances. Note one sheet for each cylinder. use section 8, Appendix III for clearance values.

# PREVENTATIVE MAINTENANCE TASK APPROVAL

\*TASK# ME  
\*REV.# 0

\*MARK # LEG \* EGT

\*FREQ 260-999

MANUFACTURER DELAVAL

\*EQ. DESCR. DIESAL ENGINE

\*EST. MHRS 8

\*Q CLASS 1

MODEL# DSR-48

\*EST#MEN 2

\*REL. ORG. OPS

EQUIP. OUTAGE yes

RWP No

FIRE LOAD No

CLEARANCE yes

RELATED TASK

\*TASK DESCR. Jacket water standpipe valve

\*PROCEDURES# COL. LINE ELEV. AREA

(1) 0 DE 98 DB

(2) MANUAL# 3244-700-041-002

(3) \*REFERENCES (1) DB/OR 00-7000

(4) (2)

(3)

## PLANT MODE

POWER OPERATION

HOT STANDBY

X HOT SHUTDOWN

X COLD SHUTDOWN

PRE-REFUELING

X REFUELING

X POST REFUELING

STARTUP

REDUCED POWER

## \*WORK INSTRUCTION:

NOTE: NOTIFY Q.C. PRIOR TO START OF WORK, RECORD ANY DISCREPANCY NOTE CORRECTIVE ACTION INITIATED.

Replace elastomeric parts in circle seal valves.

COMMENTS:

APPROVAL  /   
DISPL. SUPV. DATE

APPROVAL  /   
TECH. ENG. DATE

APPROVAL  /   
QUALITY DATE

\*INDICATES A REQUIRED ENTRY