

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 4

GINNA STATION
UNIT #1
COMPLETED

DATE :-

TIME :-

PROCEDURE NO. M-11.5B

REV. NO. 9

MAJOR MECHANICAL INSPECTION OF THE AUXILIARY FEED PUMPS

FOR _____ PUMP

TECHNICAL REVIEW

PORC 1/14/80

TR Schuler
QC REVIEW

1-28-80
DATE

APPROVED FOR USE

Bruce W. Davis
PLANT SUPERINTENDENT

1-28-80
DATE

QA X NON-QA _____ CATEGORY 1.0

REVIEWED BY: _____

THIS PROCEDURE CONTAINS 2 PAGES

100
100
100

M-11.5BMAJOR MECHANICAL INSPECTION OF THE AUXILIARYFEED PUMPS FOR PUMP1.0 PURPOSE:

- 1.1 To describe the steps necessary to ensure this maintenance is performed safely, efficiently, and to document critical steps and/or information.

2.0 REFERENCES:

- 2.1 Worthington WT Pumps.
- 2.2 Thomas Flexible Couplings Installation Instructions Series 51.
- 2.3 Falk Enclosed Gear Drives 0800, Service Manual, June, 1966.
- 2.4 Tech. Specs. Sections 3.4, 4.8

3.0 INITIAL CONDITIONS:

- 3.1 All labor, materials parts and tools necessary are available. _____
- 3.2 The pump has been removed from service, held, and is available for maintenance per T-41D. _____
- 3.3 The following have been notified.
- 3.3.1 QC Section _____
- 3.3.2 R/T Section _____

4.0 PRECAUTIONS:

- 4.1 Obtain spare parts per A-801.

5.0 INSTRUCTIONS:

- 5.1 Concurrent with this major inspection, perform and complete minor inspection. M-11.5C Complete _____

NOTE: If installing new rotating impeller shaft assembly, mark associated steps N/A.

- 5.2 Inspect the pump packings. Note packing condition. _____
- 5.3 Inspect the shaft sleeves. Note condition. _____
- 5.4 Inspect shaft sleeve nut seals. Note condition. _____

- 5.5 Remove pump head according to manual and inspect the following: _____
- 5.5.1 Inspect eleastic seal rings. Note condition. _____
- 5.5.2 Inspect balance disk and balance disk head. Check clearances and record them. _____
- 5.5.3 Remove discharge stage piece and inspect seventh stage impeller. Note condition. _____
- 5.5.4 Inspect first stage casing ring. Note condition. _____
- 5.5.5 Remove each stage diffuser and impeller and inspect. Note condition. _____
- 5.5.6 Inspect pump shaft for runout and mechanical damage. Record data and note condition. _____
- 5.6 Reassemble pump according to manual with special care to the following: _____
- 5.6.1 During reassembly check each stage casing ring clearance. Note condition: (Record Clearances). _____
- 5.6.2 During reassembly shim the thrust bearing for correct shaft axial position. Check balance disk clearances. Note condition. (Record clearances). _____
- 5.6.3 Tighten pump casing studs until secure, making a final pass to ensure all studs are tight. _____
- 5.6.4 After the pump is completely reassembled, turn the rotor by hand to ensure it isn't bound. _____
- 5.7 Disassemble and inspect lube oil pump, motor, and cooler. _____
- 5.8 Additional comments, repairs made, parts used, applicable purchase order numbers, measurements and data. (Use additional sheets if necessary). Results of return to service inspection should be recorded here. _____
- 5.9 Remove markups on the pump. _____
- 5.10 Notify the Shift Supervisor maintenance is complete and that performance testing is required before the pump is declared fully operable. _____

Completed By: _____

Date Completed: _____

Mechanic Foreman: _____

QC Supervision: _____

PORC Review Date: _____