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PUMP INSPECTION REPORT

Inspection Date: **JANUARY 7-8, 2010**

Customer:

Customer PO:

Customer Description: **#3 WEST MIXED FLOW WATER CIRC PUMP**

Manufacturer: **FOSTER WHEELER CORPORATION**

Model: **MFA2 K33**

Serial No.:

TOPSSCo Sales and Service Job: **R09-3030**



UPPER SECTION

1. Pump Half Coupling (Item 05) – Inspected & OK

a. Key and Keyway - OK



b. Coupling Threads – Inspected & OK. Coupling Inner Bore = 3.875”.



2. Upper Shaft (Item 01) @ Motor/Pump Coupling

- a. Coupling Threads – Inspected & OK.



- b. Motor/Pump Coupling Key (Item 06) – Inspected/OK.
Shaft Diam. = 3.873”.



- c. Upper Shaft Bearing Sleeve – Inspected, Polish & Reuse,



3. Stuffing Box (Item 56) and Upper Bearing Assembly

- a. Mechanical Seal to be provided and installed.



- b. Stuffing Box Throttle Bushing - Inspected & OK. Polish/Reuse.



c. Stuff Box Bearing (Item 70) Worn/Replace. Bearing OD/Housing ID =6.122”



LOWER SECTION

4. Suction Piece (Item 41) – Inspected & OK. Sandblast Clean, Epoxy Recoat.



5. **Impeller Shroud Ring (Item 80)** – Inspected & OK. Sandblast Clean.



6. **Impeller (Item 31)** – Minor wear/damage leading edge. Weld Repair/NDT/Dye Penetrant.



7. **Impeller (Item31) Bore/Fit** – Inspected/OK. ID/Bore = **3.875”**.



8. **Lower Shaft (Item 02) @ Impeller**– Inspected/OK.
Impeller Keyway & Cap Threads OK. Shaft Diameter = **3.873”**.



9. **Lower Shaft Upper Bearing Sleeve** - Inspected/OK. Polish & Reuse.



10. Lower Shaft Lower Bearing Sleeve – Inspected/OK. Polish & Reuse.



11. Casing Guide Vane (Item 31) – Guide Vanes Inspected and OK.



12. Casing Guide Vane Bearing Assembly

- a. Upper Bearing (Item 70) – Worn. Replace. Bearing OD/Housing ID = **6.122"**.
- b. Lower Bearing (Item 70) – Worn Replace. Bearing OD/Housing ID = **6.125"**.
- c. Guide Vane Shaft Seal (Item 82) – Replace.



INTERMEDIATE SECTION

13. Upper (Item 63) and Lower (Item 65) Shaft Enveloping Tubes – Inspected & OK.



14. Intermediate Shaft Coupling @ Intermediate Bearing

Lower Enveloping Tube Bearing Worn – Replace. Bearing OD/Housing ID = 6.121”.



15. Lower Enveloping Tube Bearing Sleeve – Inspected/OK. Polish and Reuse.

