

REACTOR COOLANT PUMP & MOTOR SERVICES

Master-Lee Pump and Motor Services provides full scope RCP motor services and enhanced engineering capabilities that are commercially attractive and a viable alternative to the OEM. Master-Lee is known for the quality of work and dedication of their personnel. The experience levels of our Pump & Motor specialists surpass many of our competitors. Additionally, Master-Lee has an established Competency Training Program to ensure that our commitment to experience and quality is not compromised. The Pump and Motor Service division is dedicated to providing unparalleled levels of quality, experience and commitment to meet your RCP service needs, routine or unplanned. The goal of the Pump and Motor Service division, as with all Master-Lee Service providers, is to "Maintain the necessary partnerships, experience and technology to provide our customers the "Best of the Best" in outage related services".

Master-Lee Pump and Motor division is an all encompassing provider of RCP & Motor Services.

Services provided include:

- 1 yr. motor inspection
- 5 yr. motor inspection
- 10 yr. motor inspection, Refurbishment Program
- Motor change-out
- Motor Alignment
- Seal disassembly/reassemble (All Manufactures)
- Seal & O-Ring Inspection
- Pump Internal change-out
- Motor Advisory Service
- Seal Advisory Service
- Engineering Services
- Main Flange bolt & stud measurements
- PM Inspections



Tooling/Products available



- Motor Alignment Fixture
- Three Point Motor Lift Rig
- Hydraulic Coupling Tool
- #1 Seal Housing Inverter
- Hydraulic Backseating Tool
- 1 yr. Motor Inspection Parts Package
- 10 yr. Motor Inspection Parts Package
- Airbag Lift System for Flywheel Cover
- Staking Tools
- Perkins Gauge



Master-Lee Energy Services Corporation

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REACTOR COOLANT PUMP MOTOR REFURBISHMENT SERVICES

*Master-Lee Pump and Motor Services provides full scope RCP motor services and enhanced engineering capabilities that are commercially attractive and a viable alternative to the OEM. Master-Lee is known for the quality of work and dedication of their personnel. Our personnel are exceptionally qualified and experienced. The experience levels of our Pump & Motor specialists surpass many of our competitors. Master-Lee has a tremendous track record for RCP Motor Refurbishment. This track record includes more than 20 RCP Motor Refurbishments and Stator Rewinds. We have also performed over 16 motor upgrade modifications enhancing Motor performance. The goal of the Pump and Motor Service division, as with all Master-Lee Service providers, is to "Maintain the necessary partnerships, experience and technology to provide our customers the **"Best of the Best"** in outage related services".*

RCP Motor 10-Year Inspection IAW Westinghouse Technical Bulletin TB-04-5, 03/11/2004, "Westinghouse RCP Motor Recommended 1-Year, 5-Year and 10-Year Inspection and Maintenance"

- Receipt Inspection ("As Found")
- Motor Decontamination
- Motor Disassembly
- Motor Sub-assembly Disassembly, Reassembly
- Motor Component Inspection
- Stator Inspection and Testing
- Stator Burnout
- Stator De-stacking
- Stator Core Replacement
- Stator Rewind
- Motor Reassembly
- Motor No-Load Testing
- Motor Balancing
- Supply Motor Refurbishment "Standard Parts Package"
- Supply "Contingency Parts/Components" As Needed
- Supply Work Package Procedures
- Strip & Re-Paint Motor to Customer Specifications
- Engineering Support
- RCP Motor Shipping and Shipping Containers
- RCP Motor Storage

New Technologies /Upgrades



- Tangential to Viscosity Pumping System. Including Machining & Components
- Upper Oil Reservoir Stand Pipe Rings
- Oil Lift System Upgrade
- Multi-Port Drain Sump
- Oil Reservoir Vent Line Upgrade
- Lower Thrust Runner Seal Upgrade
- Lower Guide Bearing Labyrinth Seal
- Ratchet Plate O-Ring Groove and O-Ring
- Lower Oil Reservoir Pan Additional Bolting



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