BOILER SERVICE AND REPAIR

R.F. MacDonald Co.
your boiler & pump solutions team
~ since 1956
YOUR PREMIER SUPPLIER OF BOILERS, PARTS, SERVICE, TRAINING AND FABRICATED SYSTEMS

R.F. MacDonald Co. offers service and maintenance plans to keep your equipment in top operating condition. Our factory trained and certified technicians are available for field service throughout California and Nevada 24 hours a day, 7 days a week.

We offer specialized services to keep your equipment operating at peak efficiency. These services include inspection and testing, as well as predictive and preventative maintenance programs to help decrease downtime while increasing equipment longevity.

Boiler Sales
- Quality Name Brands
- Ancillary Equipment
- SCR Systems

Fabricated Systems
- Custom Design
- Condensate Systems
- Single Points of Connection
- Hot Water and Steam Boiler Skids
- Pumps and Heat Exchangers
- In-House Design/Build Team

FIELD SERVICE FROM MANY LOCATIONS

We employ ASME code certified welders and a fleet of fully equipped service trucks which can be quickly dispatched to your job site to perform the following services with our General Engineering Contractor Licenses A, C-4 (CA) and A, C—1 (NV).

- Emission Compliance Monitoring
- ASME and National Board Certified Boiler Repairs
- A Wide Range of Scheduled and Emergency Services
- Dispatch Locations Throughout California and Nevada
- Combustion Tuning
- Troubleshooting
- Annual Inspections
- Refractory Repairs

Maintenance and Training Programs
- Factory-Trained Technicians
- Warranty Services
- Large Parts Inventory
- Authorized Service Center
- Upgrades and Retrofits
- Customer Site Training

Instrumentation and Controls
- Building Management System Interface
- Combustion Control Upgrades
- Continuous Emissions Monitoring
- Oxygen Trim Systems
- Supervisory Control and Data Acquisition
- Complete Boiler Room Automation
BOILER INDUSTRY EXPERTS SINCE 1956

FIELD SERVICES

Installation
- Consultation and Boiler Sales
- Plant and System Design
- 24/7 Boiler System Installation and Support
- Boiler Startup and Equipment Training
- Servicing, Maintenance and Commissioning
- Boiler Rigging

Instrumentation & Controls
- Integrated Systems with Remote Communications
- Automatic Temp Control and Energy Management Interfaces from Easy-to-Use Touch Panels
- Customized Instrumentation, Calibration and BMS Testing
- Boiler Instrumentation Testing
- Boiler Control Panel Building

Retubing
- Pressure Vessel Inspection
- Boiler Tube Extraction
- Boiler Tube Installation
- Testing and Quality Control
- Experienced and Certified Pressure Vessel Welders
- Welding for Repairs, Maintenance and Retubing

Welding
- “R” Stamp Holder
- Code Certified Welding of All Materials: Carbon, Stainless and Other Exotic Metals
- Experienced and Certified Pressure Vessel Welders for Repairs, Maintenance and Retubing
- Shop and Field Fabrication of Boiler Pressure Parts Including Drums and Heaters

Burner Retrofitting
- Certified, Classified, Indemnified and Bonded Single-Source Contractor
- Broad Skillsets for a Wide Range of Application Markets
- Meet Compliance of Emissions Regulations
- Help Burners Run as Efficiently as Possible
- Help Reduce Operating Costs for Facilities

Boiler Skid Fabrication
- Spec and Build Any Custom Unit, Including Steam and Hot Water Boilers, Deaerators, Feed Systems and Ancillary Equipment
- Our Highly-Experienced Engineering Staff Will Design a Fabricated System to Your Specification Needs
- Mechanical and Electrical Documentation Included Throughout
- Optimized Field Labor and Simplified Field Connections Reduce Project Costs
Air Quality Source Testing
- Compliance Demonstrations
- NOx Emissions Guaranteed to Meet Local and Federal Air Quality Requirements
- All Makes of Boilers with Retrofit Burners Can be Tested and Calibrated
- Continuous Monitoring Systems

Full SCR Systems
- SCR System Inspections
- Engineering Support
- Fuel Analysis
- SCR System Inspections and AIG Tuning
- All Types of Ultra Low NOx Systems, Including Urea, Ammonia and Any New Technology that Enters the Market

Pipefitting
- Experienced and Certified Pressure Vessel Welders
- Welding for Repairs, Maintenance and Retubing
- Shop and Field Fabrication
- Welding of All Materials: Carbon, Stainless and Other Exotic Metals

Refractory Repair
- Repair of Refractory Damage Due to Pressure Vessel Leaks
- Repair Damaged Seal Joints and Broken Refractory Tiles
- Replacement of Plastic, Castings, Tile and Special Forms
- Onsite Refractory Rear Door Inspection, Repair and Replacement
- Refractory Installation and Startup

Boiler & Pressure Vessel Inspections
- Experienced and Certified Pressure Vessel Welders
- Inspecting for Signs of Leakage, Corrosion, Cracking, Overheating, Scale, Deterioration
- Assuring Your Inspection, Testing and Maintenance Program is Adequately Designed, Installed, Maintained and Functional to Protect Your Equipment

Mobile & Rental Equipment
- Boiler Equipment and Full Mobile Units Available
- Eliminates Downtime
- Continued Operation During Planned Offline Maintenance
- Meets Local Requirements and Standards
- Easy Hookup
- 24/7 Expert Guidance and Support
FACTORY AUTHORIZED SERVICE CENTER FOR MAJOR MANUFACTURERS INCLUDING: • Cleaver Brooks • Camus

VALUE-ADDED SERVICES

The R.F. MacDonald Co. Assured Equipment Performance Program (AEP) for Annual Boiler Safety, Performance, Compliance and Efficiency Inspection, Testing and Plant Services

BOILER TESTING PER YOUR LOCAL APCD MONITORING RULE REQUIREMENTS

- Supply a certified technician and analyzer
- Perform pre and post emissions testing calibration of our analyzer
- Generate a written report detailing performance of identified equipment during test duration

COMPLETE BOILER CLEANING AND INSPECTION SERVICE

- Annual boiler cleaning and inspection to clean heat transfer surfaces for maximum reliability
- Includes replacing all fireside and waterside gaskets and testing to ensure safe and reliable operation of the equipment

PERIODIC PREVENTATIVE MAINTENANCE AND FINE-TUNING SERVICE PROGRAM

- Periodic preventative maintenance services and fine-tuning to factory specifications for absolute maximum combustion efficiency
- Monthly combustion, emission and safety checks with minor tuning adjustments to ensure compliance

Parts & Accessories
- 24-Hour Access to Parts
- 24/7 Parts Response
- $5 Million in Stock
- Factory Replacement Parts and Reverse Engineering Capabilities
- Rapid-Pattern Manufacturing

Boiler Operator Training
- A Full Schedule of Classes Throughout Our Service Regions
- Onsite Sessions Offered for Complete Customized Staff Training
- Site-Specific and Equipment-Specific Training at Customer Site
- CWEA and AFE Certified Classes

Energy Savings & Process Improvements
- Variable Speed Pumping Solutions
- Programming of VFDs
- Pump Curve Flexibility
- Equipment Monitoring Technology
- Engineer-Designed Systems and Upgrades
- Eliminate Energy-Consuming Control Valves

SAFETY

RELIABILITY

EFFICIENCY

COMPLIANCE
**YOUR SINGLE SOURCE PARTNER**

**CORPORATE**
25920 Eden Landing Road
Hayward, CA 94545
510.784.0110

**BAKERSFIELD**
3001 Antonino Avenue
Bakersfield, CA 93308
661.325.5057

**FRESNO**
4912 West Jacquelyn Avenue
Fresno, CA 93722
559.498.6949

**LAS VEGAS**
3111 S. Valley View Blvd., Suite E-120
Las Vegas, NV 89102
702.220.6680

**LOS ANGELES**
10261 Matern Place
Santa Fe Springs, CA 90670
714.257.0900

**MODESTO**
1549 Cummins Drive
Modesto, CA 95358
209.576.0726

**RENO**
8565 White Fir Street, Unit B2
Reno, NV 89523
775.356.0300

**SACRAMENTO**
1016 N. Market Blvd., Suite 10
Sacramento, CA 95834
916.696.6758

**SAN DIEGO**
7320 Convoy Court
San Diego, CA 92111
858.538.5877

**SONOMA/NAPA**
642 Martin Avenue, Suite B
Rohnert Park, CA 94928
707.586.9234

**CONTRACTOR LICENSE**
CA: #220117
NV: #0042816

rfmacdonald.com

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**BOILERS AND SYSTEMS**

- Full range of commercial boilers from 60,000 to 12 million Btu/hr
- Full range of industrial boilers from 4 to 500 million Btu/hr
- SCR and control system solutions
- Engineering and design support

**BOILER MAINTENANCE PROGRAMS**

- Factory-trained technicians
- Warranty services
- Large parts inventory
- Authorized service center for major manufacturers

**SERVICES AND INSTALLATION**

- Rental equipment and mobile boiler rooms
- Full aftermarket service and parts support
- Instrumentation and controls

**PUMP AND BOILER TRAINING**

- AFE Certified
- CWEA Certified
- Visit rfmacdonald.com/training