

FOSSIL MAINTENANCE & REPAIR SOLUTIONS



Welcome to your one source for field services in the energy industries.

WEC Welding and Machining LLC, offers you the knowledge, highly skilled professionals, and equipment required to maintain your power systems more efficiently and cost-effectively. We support the fossil, hydropower and nuclear energy sources of today and our visionary leadership is pioneering the power systems of tomorrow. As a global services provider, we deliver a full range of services:

- Field Machining
- Field Welding
- Tool design
- Metrology
- Quality Assurance/Quality Control
- Engineering
- Heat Treating
- Turnkey Projects
- Boiler Services



Field Machining Solutions

Maintaining a high level of performance will become even more of a necessity for fossil plants in the near future when replacement power costs rise, generation reserve margins decline and investors expect continued reductions in operating costs.

The fossil power generation industry has long been a benefactor of WEC Welding and Machining's diversified service offerings. We understand the challenges our fossil power customers face when it comes to increasing plant availability and sustaining plant performance under today's cost constraints. We pride ourselves on being able to respond promptly to the needs of our fossil power customers.

- "First Time Quality" delivered by skilled craftsmen using automated technology
- Enhanced equipment reliability
- Schedule improvements and cost effective, on-time project delivery
- Certified, experienced project management

Our Capabilities

- Emergent shop fabrications - Specialized components requiring specialty welding and machine shop services
- Specialized field machining and welding – Applications-specific engineered solutions
- Mobile field machining centers
- Metrology - Laser, 3D modeling, Photo-G
- Engineering - Tool design, machining and welding applications

Additional Capabilities

- **High energy piping:** WEC Welding and Machining has years of experience dealing with heavy wall, high energy pipe replacement and repair. WEC Welding and Machining patented narrow groove orbital welding technology is ideally suited for large diameter heavy wall pipe welding projects

(continued)

FOSSIL MAINTENANCE & REPAIR SOLUTIONS



(continued)

- **Feedwater heater solutions:** Feedwater heater change outs are accomplished through the use of combining project management, rigging, machining and welding crafts from WEC Welding and Machining's expert professional work force. WEC Welding and Machining uses its metrology solutions to minimize the risks of a complicated layout
- **Field machining:** WEC Welding and Machining's extensive field experience includes milling, drilling, boring, reaming, grinding, cutting and flange re-facing
- **Stuck stud removal:** Metal Disintegration Machining is a very successful stud removal process used for drilling inspection ports in closed-loop steam systems requiring very low particulate inclusions
- **Engineered solutions:** The Engineering Group is comprised of mechanical and electrical engineers, machine designers and CAD draftsmen. Their expertise and skills enable WEC Welding and Machining to produce sound, cost effective solutions for specialty machining and welding projects that require a unique, cutting edge response

Welding Processes

- Gas Tungsten Arc Welding (GTAW)
- Shielded Metal Arc Welding (SMAW)
- Flux Core Arc Welding (FCAW)
- Gas Metal Arc Welding (GMAW)
- Autogenous Welding (GTAW Fusion)
- Temperbead

Machining and Cutting Technologies

- Turning Machines (1" up to 72")
- Boring Machines (1-1/2" up to 60")
- Milling (up to 10' table)
- 10 Elec. Discharge Machines (EDM)
- 9 Metal Disintegration Machines (MDM)
- Plasma Arc & Abrasive Water Jet

Superheat
Replacement Tube
Machine Welding



Narrow Groove Welding



MDM for Rapid
Stud Removal



Sample of Projects Completed

- [Southern Company](#)
- [Lockwood Green](#)
- [Bechtel](#)
- [Duke Energy](#)
- [Florida Power & Light Company](#)
- [Alstom](#)
- [Kiewit Industrial Co](#)
- [SCE&G](#)