



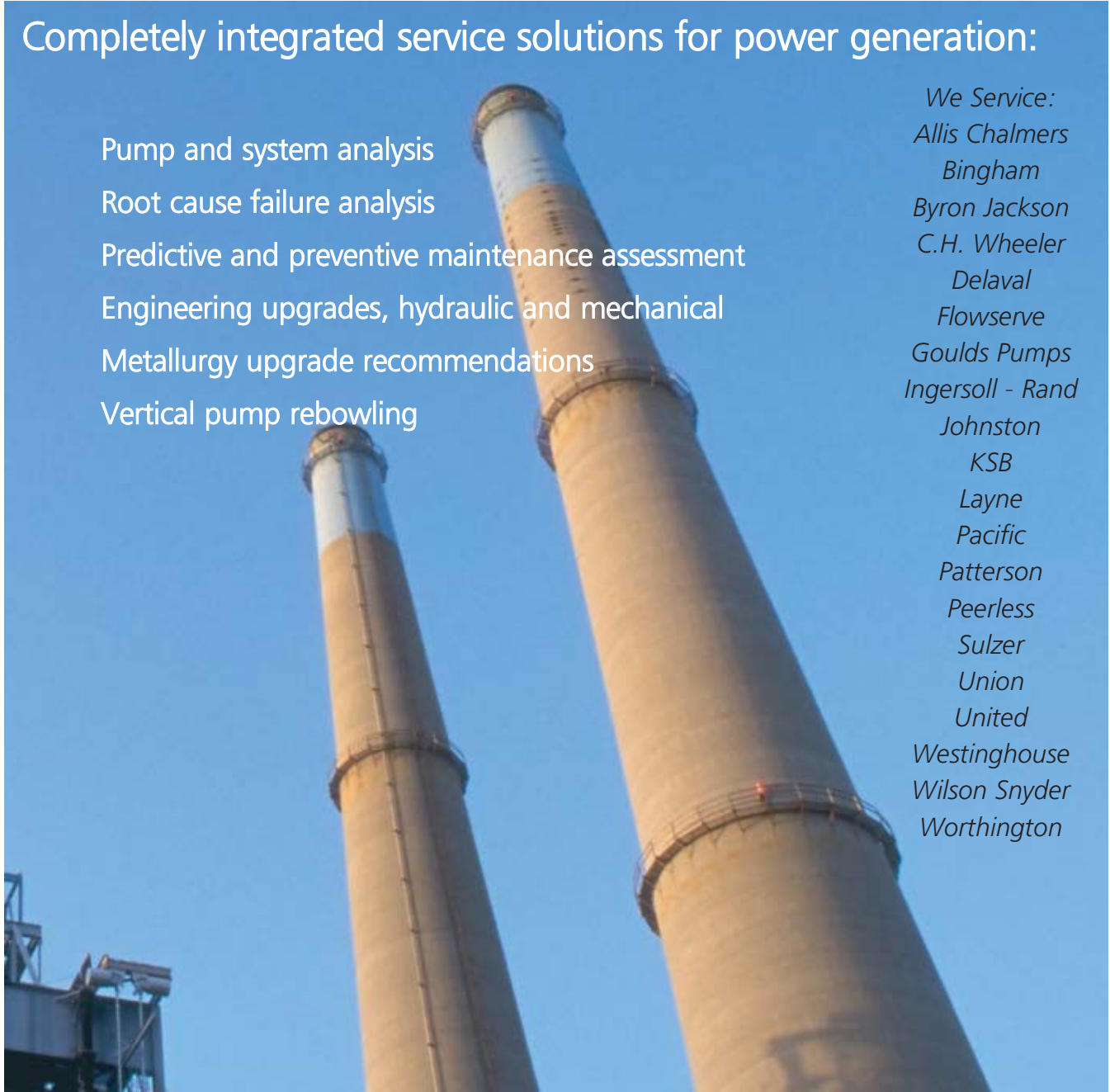
Power Generation Services

Pump & Rotating Equipment Service and Repair

Completely integrated service solutions for power generation:

Pump and system analysis
Root cause failure analysis
Predictive and preventive maintenance assessment
Engineering upgrades, hydraulic and mechanical
Metallurgy upgrade recommendations
Vertical pump rebowling

We Service:
Allis Chalmers
Bingham
Byron Jackson
C.H. Wheeler
Delaval
Flowserve
Goulds Pumps
Ingersoll - Rand
Johnston
KSB
Layne
Pacific
Patterson
Peerless
Sulzer
Union
United
Westinghouse
Wilson Snyder
Worthington



PRO Services



ITT Industries
Engineered for life

Power Plants

Whether you operate a sub critical, drum type unit or a super critical, once through unit ...

Whether you are operating the new generation combined cycle plants ...

Whether your plant has a once through condenser cooling water cycle or closed style with cooling towers ...

Whether your condensate system employs an open contact deaerating feedwater heater or all heaters are the closed type ...

One thing is sure ...

Pumps are at the heart of everything

We in the PRO Services™ organization understand the pump applications associated with generating power. Things go wrong ... could be operational, could be the system due to off-peak operation, could be just plain worn out, or an engineered upgrade could be the answer.

Our service group is committed to reducing your total cost of generating power with that part of your budget we can influence ... **Operations and Maintenance.**

PRO Services Centers

As part of a major pump OEM, our service centers can draw from all areas, such as mechanical and hydraulic design, metallurgy and welding technology. As an OEM we understand and routinely work on all pump brands. Call the PRO Services Center nearest you and let us explain how we can help with your pump and other rotating equipment needs.

Boiler Feedwater Service

- Experience with all manufacturers and designs
- Engineering upgrades for improved performance both hydraulically and mechanically
- Stuffing box upgrades
- Minimum flow system analysis for improved operation at continuous low load operation
- Balancing device leakoff system analysis
- Root cause failure analysis reports on all repairs
- Predictive and preventative maintenance recommendations



- Vertical and horizontal design experience
- In-house rebowling for all vertical manufacturers
- Material upgrades for improved wearability
- Stuffing box modifications to incorporate current technology
- Vibration and resonance testing for troubled installations
- System analysis and recommendations where units are operated continuously off base load

Condensate Service

Condensate Booster
Feedwater Booster
H.P. Heater Drain

Where power plant design incorporates these critical pump applications:

- Thorough root cause failure analysis
- Engineering design / upgrade opportunities
- Metallurgy upgrades / modifications

Can help improve operability and MTBR



- Vertical wet pit, pullout and non-pullout
- Horizontal double suction
- Hydraulic rerate and rebowl capability
- Material upgrade recommendations

Condenser Circulating
Water Service

Balance of Plant

- L.P. Heater Drain
- General Service / Cooling Water
- Screen Wash
- General Sump
- Ash Sluice Water
- Bottom Ash & Fly Ash Systems
- Lube and Seal Oil Systems
- Condenser Vacuum Pumps



PRO Services™ provides the latest technology for the repair of all babbitted bearing applications in the powerhouse.

This includes the main turbine and generator bearings, hydrogen oil seals, tilt pads, thrust shoes and journal bearings for all pumps, fans and rotating equipment.

Babbitted Bearing
Repairs

PRO Services™ Centers located worldwide



Authorized Service Centers for:

Siemens - Liquid ring vacuum pumps

Hoffman - Blowers

Lamson - Blowers

Roots - Blowers

Tuthill-Pneumatic - Blowers

Marley - Gear boxes

Georgia Iron Works - Pump rebuilds

C. Lee Cook (Div. of Dover Industries) -
Compressor replacement parts

ITT Standard - Plate heat exchangers

ProCast - Alternate source parts supplier

EMS - Babbitted bearing rebuilds

In the Shop ... Or On The Road

PRO Services engineers and technicians are experienced with servicing all types of pumps and rotating equipment. Customers utilize PRO Services for commissioning, troubleshooting, and field repairs of pumps, pumping systems and other pieces of rotating equipment.

PRO Services engineers and technicians utilize state-of-the-art techniques and equipment to provide the highest level of service in the industry.

- Technical Expertise
- Factory Trained Service Personnel
- Fast Turnaround
- Emergency Service -
24 hours/day, 7 days/week, 365 days/year
- Quality
- Safety Certified



*For more information, call your nearest PRO Services™ Center
or visit our website at www.itproservices.com*

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