

# SERVICE AND SPARE PARTS

## What We Offer

- Inspections
- Repairs
- Spare Parts
- Material upgrades to improve corrosion resistance
- Performance Reviews
- Performance Upgrades
- Equipment Relocation

## BENEFITS



Given today's tight capital budgets, getting the most out of existing systems and equipment is absolutely necessary. The key to success is making sure that each piece of equipment is properly serviced and continuously upgraded to state-of-the-art conditions.

Lundberg offers a comprehensive array of aftermarket services to help the operators achieve this goal. This may mean something as small as a simple spare part rushed overnight to the plant or a major rebuild during a planned mill shutdown.

We offer spare parts, inspections, rebuilds, and product improvements for all process systems and equipment within our areas of expertise, including:

- Wet ESPs
- RTOs and RCOs
- Evaporators, concentrators and pre-evaporators
- NCG systems
- Waste gas incinerators
- Blow heat recovery systems
- Turpentine recovery systems
- Condensate stripping systems

You can rely on our staff of process and project engineers to keep your systems performing to their potential.

## CONTACT

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## LUNDBERG'S AREAS OF EXPERTISE

### BY-PRODUCT RECOVERY

- Tall Oil Soap
- Turpentine
- Acidulation
- Condensing
- Storage
- Storage

### CHEMICAL HANDLING AND STORAGE

- Sulfur
- Caustic
- Acids
- Sulfur Dioxide
- Storage
- Vaporization

### CHEMICAL GENERATION

- Sulfur Dioxide
- NSSC Pulping Liquor
- Sulfite/Bisulfite Pulping Liquor

### EVAPORATORS FOR PULPING LIQUOR

- Multiple-Effect
- Strong Liquor Concentrators
- Pre-Evaporation
- Falling Film
- Vapor Recompression
- Crystallizer
- REX Technology

### FOAM CONTROL

- Washer Filtrate
- Foambreaker for Light Foam
- Soap Concentrator for Heavy Foam and Soap
- Weak Liquor Storage
- Soap Skimming

### HEAT RECOVERY AND UTILIZATION

- Blow Heat
- Pre-Evaporation
- Digester Heaters and Circulation
- Direct Contact Gas Coolers
- TMP
- Heavy Liquor Heaters
- Waste Heat Boilers
- Condensers
- Hot Water
- Systems
- Steam Generation

### LUNDBERG CUSTOM EQUIPMENT

- Pressure/Vacuum Relief Valves (PVRV)
- Flame Arresters
- Jacketed Valves
- Lundberg Soap Separator/Soap Skimming Rake
- Heat Exchangers
- SO<sub>2</sub> Gas Fans
- Heavy Liquor Heaters

### POLLUTION CONTROL

- Black Liquor Oxidation
- Condensate Stripping
- Noncondensable Gas
- Direct Fired Oxidizer (DFO)
- Plywood Industry
- Regenerative Thermal Oxidizer (RTO)
- Wet Electrostatic Precipitator (ESP)
- Weak
- Steam
- TRS
- Collection
- Strong
- Heat Exchangers
- Strong
- Air
- MeOH / BOD
- Incineration
- Dilute
- Steam Tunnel Condensate Evaporator
- Regenerative Catalytic Oxidizer (RCO)
- COD
- Scrubbers
- SOG

### SPECIAL SYSTEMS

- White Liquor Oxidation
- Sulfur Addition – Kraft Liquor
- Reausticizing – White Liquor
- Ash Treatment Systems – Saltcake
- Air
- Molecular Oxygen

### TURNKEY

- Engineering
- Complete EPC