

Boiler and Powerhouse Controls



JMP Solutions

About JMP

- Serving national customers locally: 14 business units throughout North America, targeting Industrial Fortune 1000 companies since 1987
- More than 20,000 projects completed to date
- Strategic partnerships with FANUC, Rockwell Automation, Honeywell and others
- Top 10 largest Controls System Integrator in North America (SI Giants List from CFE Media)
- Core Competencies and applications where we excel:
 - Automated Guided Vehicles
 - Control System Integration
 - Information & MES
 - Networking Infrastructure and Security
 - Process Automation
 - Robotic Systems

Boiler and Powerhouse Control Solution Capabilities

Boiler Regulatory Control Upgrades

- Combustion Controls
- Water-side Controls
- Balance of Plant
- Power Boilers, Recovery Boilers, Turbines, Steam Headers and Package Boilers

Burner Management Systems

- Design and Implementation
- BMS and CCS Integration
- Upgrade Legacy Systems

Powerhouse Solutions and Applications

- Boiler Load Allocation
- Turbine Load Allocation
- Coordinated Header Pressure Control
- Real-time Pricing (RTP) Web Access
- Demand and Real-time Pricing Tie-Line Control
- Load Shedding

INDUSTRY FOCUS

Automotive



Food & Consumer



Energy & Water



Metals



Oil & Gas



Paper & Chemical



Boiler and Powerhouse Controls



JMP Solutions

PLC and DCS

Platform Experience

- Rockwell Automation: PlantPAx™, Control Logix®, PLC-5®, SLC™500
- ABB/Bailey: INFI 90
- Emerson: Fisher PROVOX™, Delta V™
- Siemens: Moore® Products APACS, SIMATIC PCS 7
- General Electric: 90/30, 90/70
- Schneider/Modicon®: 584, 984, Quantum™, Foxboro I/A
- Honeywell: TDC2000, TDC3000, TPS, Experion®PKS/LX

Partial List of Clients

- Abitibi Bowater
- CANFOR Pulp
- WestRock
- Georgia-Pacific Corporation
- Woodland Pulp LLC (formerly Domtar)
- Irving Paper, Inc.
- Kruger, Inc.
- Kimberly-Clark
- Smurfit-Stone
- Cargill
- Ohio State University
- Dominion Power
- GlaxoSmithKline (GSK)
- Verso Paper
- International Paper
- Eli Lilly and Company
- ND Paper, Rumford Mill (formerly Catalyst Paper)

Annual Boiler Operation and Tuning Assessment

Our boiler/powerhouse expertise runs deep. We have specialists working with all types of fuel, including gas, oil, coal, solid fuels, and multi-fuels. Our independent boiler review and assessment can identify areas for immediate improvement and long term gains.

- **Improve** boiler performance to process steam demands
- **Save** on energy — reduced fuel costs due to higher efficiency
- **Reduce** emissions and/or compliance issues
- Develop baseline data to evaluate changes in operation or potential savings
- Identify and **eliminate** unsafe operating practices



Tuning Delivers Big Savings

Typical savings per thousand pounds of steam per day:

Natural Gas	\$8.64
#2 Oil	\$37.68
#6 Oil	\$25.44
Coal	\$11.76

Based on 5% boiler efficiency improvement and the following fuel cost: Natural Gas = \$4.40/MMBtu, #2 Oil = 2.76/Gallon, #6 Oil = \$2.00/Gallon and Coal = \$100/Ton.

Serving National Customers Locally

Burlington  (905) 631-6660
 Calgary  (403) 475-2886
 Cambridge  (519) 622-2505
 Dallas  (214) 496-0616
 Houston  (832) 647-0024

Information Division   (513) 795-9082
 Lexington  (519) 239-8913
 London  (519) 652-2741
 Montreal  (514) 248-1857
 New Jersey  (973) 808-8550

Philadelphia  (610) 524-0500
 San Antonio  (210) 930-6060
 Robotics Division   (519) 451-1974
 Toronto  (905) 851-8700

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