



# VALMET

## Energy and Environmental (ENE)

Energy and Environmental Maintenance (EEM)

Power Performance Services (PPS)

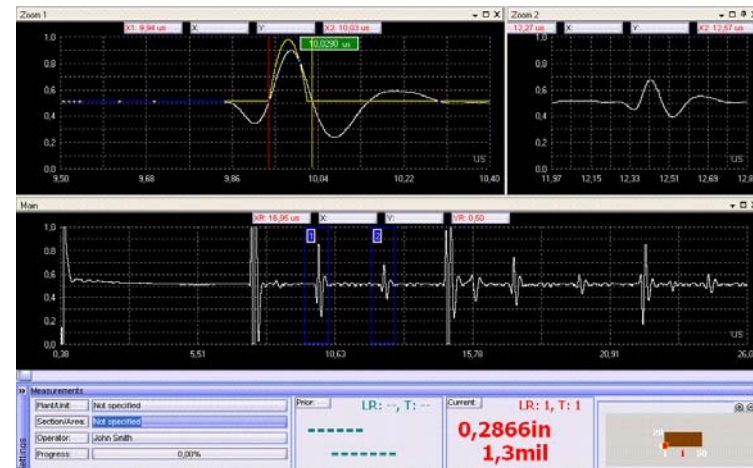
North America  
Mike Ward

# Lifecycle Support



# Field Services

- Inspections
  - Recovery Boilers
  - Power Boilers (Stoker, BFB, CFB)
  - Evaporators
  - Auxiliary equipment
  - Detailed reports
- Outage Planning
- Outage Execution
  - NDE services
  - Metallurgical Analysis/Consulting
  - Smelt removal
- Fuel and Ash Analysis/Testing
- System Audits (NFPA/BLRBAC)
- Troubleshooting/RCA



# Field Services

- Tuning and Optimization
  - Boiler re-start assistance
  - Operational consulting
  - IB MACT/Utility MATS Tuning
  - Online Boiler Gas Analysis Tuning
- Long Term Service Agreements (LTSA)
- Remote Monitoring and Reporting
- Smelt-X, Wash-X
- Spare parts inventory
- Asset management
- 24/7/365 Service
  - (888) 574-0055



# Maintenance & Engineering Services

## • Maintenance Services

- Boiler hanger rod inspection and maintenance
- Port Rodder maintenance
- Liquor Station maintenance
- Smelt spout maintenance
- Rebuild and Upgrades
- Outage service
- Manufacturing solutions
- Qualified Welder Services

## • Boiler Tube Scale Deposit Inspections

- Enhances DWD analysis

## • Chemical Cleaning

- Advisory services
- Steam Blows
- Vapor Phase, Hydrolasing

## • Engineering Studies/Services

- CFD
- RBD (Recovery Boiler Design)
- PBD (Power Boiler Design)
- FEA
- Debottlenecking
- Capacity upgrades
- Feasibility studies
  - Gas conversions
  - Boiler upgrade/rebuild/conversion
  - Process improvement
- Corrosion studies

# Training

- **WebAcademy**
  - Online Training Portal using Interactive Media Training
  - Learning Management System (LMS)
  - Pulp Mill and Power Plants
  - Self paced courses
- **VirtualSite™ Simulators**
  - DCS coupled – Fully dynamic
    - Look and feel of DCS
  - Stand-Alone – Medium
    - Uses replicated DCS display
  - Generic
- **Classroom Training**

## Training throughout the plant's lifecycle



