



**JNE** Automation



**PROCESS CONTROL INTEGRATORS**  
WORLDWIDE EXPERIENCE. WORLD CLASS SOLUTIONS.

# About JNE Automation

We work on a global level to equip clients with new installations, upgrades and retrofits that result in improved process control, yield, and lower costs.

Our systems provide an easy, process-specific interface for operations and maintenance. These systems include asset management, change control, data and event history, and network management combined with the added capabilities of HART, Fieldbus, or Profibus enabled intelligent field devices.

Our JNE Automation custom panel fabrication facility is ISO registered and ULc certified. We offer prefabricated control rooms (PCRs), fully equipped, commissioned and suitable for all environments.



## Custom Control Systems

JNE Automation undertakes process control system upgrades, leveraging the diversity and power of integrated architecture systems to update and replace legacy DCS and PLC solutions.

### Quality

We are ISO 9001 registered. From small single discipline to large multi-discipline projects, our work is completed within our Job Quality System (JQS) to ensure that we deliver exceptional quality and consistent products and services to you.

### Expertise

- High Level Software and System Development
- Distributed Control System Development
- HMI and PLC System Development
- PLC Software Development
- Object Oriented Programming
- Operating System Integration
- Database Authoring and Integration
- Network/Internet Implementation and Integration

### Services

- Conceptual Design
- "Proof of Concept" Testing
- Equipment and System Design with Multi-Discipline Engineering Support
- PLC, SCADA, and High Level Programming
- Schematic and Layout Drawings
- Electrical Control Panel Construction and Installation
- Factory Acceptance Testing (FAT)
- Site Acceptance Testing (SAT)
- Commissioning and Start-Up Services



## Hardware and Software Experience

### PLC Systems

- Siemens S7 and S5
- Siemens Safety
- Rockwell GuardLogix & CompactGuardLogix
- Rockwell ControlLogix & CompactLogix
- Rockwell PlantPAx
- Rockwell SLC
- Schneider Modicon/Quantum
- Omron

### Distributed Control Systems (DCS)

- ABB (Bailey InFi 90) — *Migration*
- Siemens PCS 7
- Schneider — Foxboro IA (Invensys) — *Migration*
- Fisher ProVox — *Migration*
- Honeywell TDC 2000 & 3000 — *Migration*

### Database

- OSI PI Historian
- Rockwell FactoryTalk Historian
- Rockwell FactoryTalk VantagePoint
- Rockwell FactoryTalk Asset Management

### HMI Systems

- Rockwell FactoryTalk View
- Rockwell RSView and PanelView
- Siemens WinCC
- Wonderware InTouch
- Schneider Citect

### AC & DC Drives

- TMEIC
- Rockwell
- Siemens





# Select Experience

## Mining and Metals

### PRIMARY STEEL MAKING

**#2 Blast Furnace Control System Upgrade**  
ArcelorMittal Dofasco • Hamilton, Ontario

**Coke Ovens Water Treatment Plant**  
U.S. Steel • Hamilton, Ontario

**#6 Blast Furnace Control System Upgrade**  
Essar Steel Algoma Inc. • Sault Ste. Marie, Ontario

### METAL FORMING

**Basic Oxygen Furnace (BOF) AutoTap Systems**  
ArcelorMittal Dofasco • Burns Harbor, Indiana

**Converter K2 Control System**  
U.S. Steel • Smederevo, Serbia

**#2 Slab Caster GEPAC Replacement**  
Essar Steel Algoma Inc. • Sault Ste. Marie, Ontario

### COLD ROLL, PICKLING & GALVANIZING MILLS

**#3 Galvanizing Line Passivation Control System**  
ArcelorMittal Dofasco • Hamilton, Ontario

**#5 Pickle Line Upgrade of Control and Operator Interface Panels**  
U.S. Steel • Great Lakes Division

**Four New Galvanizing Process Lines**  
ThyssenKrupp • Calvert, Alabama

**Replacement of Reversing Cold Mill Main Drives**  
Nucor • Blytheville, Arkansas

**New Bar and Rail Process Line Drives and Control, Commissioning and Start-Up**  
Steel Dynamics Inc. (SDI) • Columbia City, Indiana

**Cold Mill Pickle Line Control Upgrade**  
Essar Steel Algoma Inc. • Sault Ste. Marie, Ontario

### HARD ROCK MINING

**Ore Conveying System Upgrade**  
Iron Ore Company of Canada • Labrador City, Newfoundland



## Pharmaceuticals and Consumer Products

### CLEAN ROOM PROCESS MANUFACTURING

**New IC Chip Process Line**  
Gennum • Burlington, Ontario

**Flaker Control System Design**  
Apotex • Toronto, Ontario

**New Skin Care & Hair Care Plants**  
Procter & Gamble • China, Japan, Vietnam, Thailand, South Korea

### SECURITY

**New Skin Care & Hair Care Plants**  
Procter & Gamble • Hamilton, Ontario

**New Generic Medication Production Line Facility**  
Apotex • Toronto, Ontario

### PACKAGING

**Dry Bag System Control Upgrade**  
Innophos • Port Maitland, Ontario

**Cleaning Product Line Bottling Control System Upgrade**  
Diversey Inc. • London, Ontario

**Bar Soap and Shampoo Bottle Packaging**  
Procter & Gamble • China, Japan, Vietnam, Thailand, South Korea

### REGULATORY PROCESS VALIDATION

**New Generic Medication Production Line Product Blending Data**  
Apotex • Toronto, Ontario





## Utility Services and Management

### AIR QUALITY

#### New IC Chip Process Line Air Filtration Control to Class 100

Genum • Burlington, Ontario

#### New Generic Medication Production Line Air Filtration Control to Class 100

Apotex • Toronto, Ontario

#### Foskor Phosphate Mine Fume De-Dusting Control System

AIR (Advanced Integrated Resources) • Phalaborwa, South Africa Mine Site

### STEAM GENERATION

#### Boiler Burner Management System (BMS) Upgrades on Three Boilers

Campbell Company Canada • Toronto, Ontario

#### #4 Boiler Burner Management System (BMS) Upgrade

Essar Steel Algoma Inc. • Sault Ste. Marie, Ontario

### CONVEYORS & MATERIAL HANDLING

#### Pick & Place Coil Handling System Turn-Key Solution

Steelcare Inc. • Hamilton, Ontario

#### Raw Material Yard Conveyor System Controls

ArcelorMittal Dofasco • Hamilton, Ontario

#### Product Delivery System New Skin & Hair Care Plants

Procter & Gamble • China, Japan, Vietnam, Thailand, South Korea

### WATER TREATMENT PLANT (WTP)

#### #3 Blast Furnace Cooling System Water Treatment Control Upgrade

ArcelorMittal Dofasco • Hamilton, Ontario

### HEAT RECOVERY

#### #1 and #2 Turbo-Generators Control Systems

ArcelorMittal Dofasco • Hamilton, Ontario

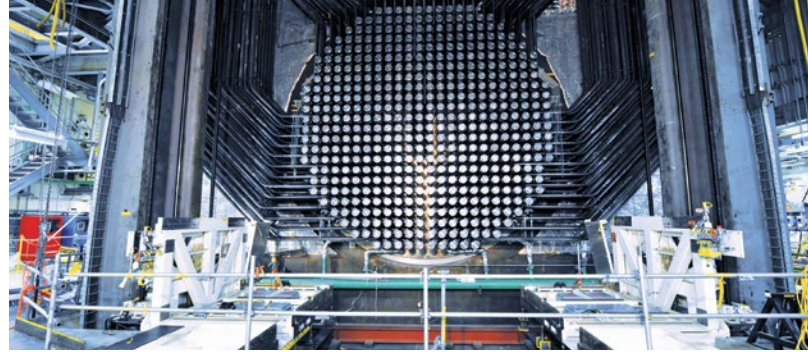
### WASTEWATER TREATMENT PLANT (WWTP)

#### Coke Ovens Wastewater Treatment Plant Control System Upgrade

U.S. Steel • Gary, Indiana, Gary Works Division

#### Primary Wastewater Treatment Plant Control Improvements

ArcelorMittal Dofasco • Hamilton, Ontario



## Energy

### FUEL PROCESS CONTROL & SAFETY SYSTEMS

High-Speed Monitoring System for Load Shedding  
GreenField • Chatham, Ontario

New Control System  
Found Energy • Rosetown, Saskatchewan

### PROCESS EMISSIONS COMPLIANCE

Control System Upgrade on Eight Coal-Fired  
Steam Generators  
Ontario Power Generation (OPG) • Nanticoke, Ontario

## Nuclear

### NUCLEAR WASTE HANDLING SYSTEMS

Spent Fuel Rod Handling System Control Upgrade  
Sargent & Lundy • Pickering, Ontario

### AUXILIARY PROCESS SYSTEMS

Upgrade Hydrogen Dryer Control System Turn-Key Supply  
Including Training  
E.S. Fox Ltd. • Bruce County, Ontario



## Air Products and Chemical

### AIR SEPARATION

Oxygen Plant Control System Upgrade  
Praxair • Sault Ste. Marie, Ontario

### EXOTHERMIC & CRYOGENIC PROCESSES

New Control System  
Ningxia Chemical Works Ammonia Plant • Ningxia,  
People's Republic of China

## Oil, Gas, and Petrochemical

### UPSTREAM & DOWNSTREAM PROCESSES

Control System Commissioning and Start-Up  
Shell Canada • Albian Sands Mine Site, Alberta

New Deep Sea Oil Platform Control System Programming  
ABB • St. John's, Newfoundland Offshore

Safety ESD Processes and Procedures Audit  
Plains Midstream Canada (PMC) • Sarnia, Ontario



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