
WESKAM CONTROL

AUTOMATION, INSTRUMENTATION and PROCESS CONTROL

Client: Neslté Tunisia, La Marsa (Ice Cream Section)

New Commissioning of the Process Making Section

- Site Survey and Preliminary Engineering.
- Instrument calibration Pressure, Flow and Level Transmitters
- Sequences programming on ControlLogix (ControlNet, Remote IO, PanelView 1250 and Panel View 600)
- SCADA configuration on RSView Machine Edition
- New SCADA implementation for Temperatures acquisition and storage (RSView 32)

Client: SOTUVER Djebel el Ouast Tunisa (Bottle making)

Technical Support, PLC and HMI Programming

- Support and trouble-shooting for the three paletisation lines.
- Software on main Process PLC sequences (Siemens S7-300 PLC with MPI and Profibus network).
- Replacement of two HMI TP177.
- Troubleshooting of the MPI network and communication inter CPU's.
- Configuration and commissioning of 6 Encoders on Profibus Network

Client: SFBT CoCa Cola TUNISIA (Food and Beverage)

Line Monitoring Implementation for bottling Section

- Implementation of new Line Monitoring for the bottling drink making line. InTouch 10.1 including InControl 7.11 and Applicom Com Card to S7300 Siemens PLC Network on MPI.
- Production counting by line and by Machine, Efficiency and Production rate, Reject percentage, Shift Report interface to MSEXcel.
- Trouble-shooting and modification of several; PLC code and HMI.
- Configuration and Commissioning of then new MPI network.

Client: GIAS Groupe Slama Frères, Bouargoub Tunisia, (Food and Beverage)

New SCADA for Process Monitoring

- Integration of a second SCADA (RSVIEW32) system of the butter making process. Interface with Siemens PLC (S7400) using OPC SERVER and Applicom communication Card.
- Modification of several process sequences; PLC code and SCADA displays.

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- Configuration and commissioning of the new MPI/Profibus network.
- Calibration and site commissioning of 12 pressure transmitter used as level indicators.

Client: Ciment Bizerte, Bizerte Tunisia, (Cement Industry)

New Coke and petrol Kiln

- Detailed Engineering of the Grinding and the Kiln Sections (more then 600 I/O's).
- Panel Power and Control cabinet Design, Conception of the Electrical Drawing (Power and Control), PLC network.
- Conception of the power distribution and MCC units;
- Configuration and sequences programs (PLC S7300 SIEMENS);
- Interface with SCADA Wincc Felxible;
- Commissioning (FAT and SAT).

Client: STIR, Bizerte Tunisia, (Oil Refinery)

Technical support to accomplish Factory Acceptance Test of a new Boiler

- PLC programming and configuration Training Siemens PLC S7400;
- SCADA Training Siemens Wincc.

Client: Afripaper, Kairouan Tunisia, (Pulp and Paper)

Consultancy Services

- Several mandates of optimization in pulp production; Loop Tunning (Consistency, Flow, Level...)
- Implementation of several automatic sequences in the pulp production sector (DCS Metso DNA).
- DCS Configuration and programming of a new vapor control section on the paper machine;
- Optimization of the Quality Control System (Measurex 2002) Humidity Control;
- Instrumentation Calibration and commissioning of several control valves, Consistency, and DPCell.

Client: Carthage Grains. Djbel El Ouest Tunisia (Soya oil extraction and soya meal production plant; new installation)

Project Technical Manager Electrical, Instrumentation and Control

- Technical Responsible of automation, Instrumentation and Control installation for the whole project (Sub contractents follow-up, Project Management and Scheduler, Startup and transfer to the production department including training, Coordination with different suppliers North America and Europe).

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- Configuration and sequence programming for the first PLC network (PLC5 and SLC500 with 15 remote racks and flex I/O, SCADA RsView and Panel View Systems).
- Commissioning and startup of several AC Drives and Soft Start (Siemens Sirius, Allen Bradbly and Toshiba for the whole plant).
- Commissioning and startup of the second PLC network (Siemens PLC S7-300 with Profibus I/O).
- Management of the electrical maintenance and project department (Team of 25 persons, engineer and technicians): Technical support, work organization and schedule.
- Process Control Loop Tuning and Optimization: Technical support and transfer to the production staff.

Natrel / Division of Yoplait Canada. Quebec (Canada) (Milk production and transformation Plant)

Migration of several PLC from Siemens S5 to Siemens S7

- Responsible of modernization projects and new installations (Cost estimation, devices sizing and selection, Cost Control and Sub contractents follow-up, Project Management and Scheduler, Startup and transfer to the production department including training).
- Responsible Instrumentation and Control Systems Maintenance. Siemens S7-300 and 400, HMI OP/TP 17/27/37, SCADA InTouch, Allen Bradley (ControlLogix), Omron, Telemecanique.
- Maintenance department Manager (12 electrical and mechanical Techicians).

Granitor inc. St-Augustin, Quebec (Canada) Granite Production and Processing Plant PLC Upgrade projects

- Responsible of modernization projects and new installations (Cost estimation and Realization)
- System Control Maintenance (Update logic control, production support, trouble shooting, technical support to maintenance technicians and production operators).
- Systems migration to Siemens S7 Platform (from Telemecanique, Omron...) PLC programming, HMI configuration (Wincc and Protool), Startup, traning and support.
- Maintenance and new programming sequences on Telemecanique PLC Platform (PL7-Pro).

GlaxoSmith Kline Shire Biochem Inc. (Ste-Foy Québec). (Pharmaceutical industry) New Osmoses system configuration

- PLC programming (SLC504). FIX32 Configuration (200 Tags) and Operator Display Design. Star-up and commissioning. Automatic sequences of washing and flushing programming.

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Shire Biochem Inc. (Ste-Foy Québec). (Pharmaceutical industry)

Different Mandates

- Instrumentation & Control Technicians training on Fix 32 SCADA System.
- Fix Database Optimization by eliminating RUN TIME ERROR.

Bowater (Donacona Quebec). (Pulps and Paper industry)

New Paper Machine Optimization

- Loop Tuning with Expert Tune (Bailey Infinet Driver). Control strategies with Feed-forward and decoupling.

Louisiana Pacific (St-Michel des Saints Quebec). (OSB Panel Plant)

New Wood Room Line Estimation

- Detailed Engineering (Site Survey). Cost Estimation of the new line (Electricity, Automation and Instrumentation).

Ultramar (St-Romuald Québec). (Refining industry)

Water treatment modernization

- Detailed engineering, Field survey, PLC programming (SLC504). Communication with DCS (TDC-3000 de Honeywell).

Ciment Québec inc. (St-Basile Québec). (Cement Industry)

Implementation of supervisory control system for the Clinker Kiln

- Process **Modelisation** and simulation, Expert system rules programming and start-up.

Uniforêt Pâte inc. (Port-Cartier Québec). (Pulps and Paper industry)

Water Treatment Plant Modification

- Detailed engineering, Instruments selection (valves, Flow-meter, level indicator..).
- Project management and field work supervisory.
- Commissioning and startup (Bailey DCS Infinet 90).

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Biochem Vaccins inc. (Ste-Foy Québec). (Pharmaceutical industry)

Design and configuration of HMI (FIX 32) for the Lyophilization system

- Configuration (800 Tags), Design of operator displays. Batch Reporting and archiving. Startup and tests

Uniforêt Pâte inc. (Port-Cartier Québec). (Pulps and Paper industry)

CTMP Control Optimization

- DCS Configuration and programming.
- Specific Energy Control Implementation.
- Implementation of Feed-Forward, decoupling and cascade strategies for several loops (Consistency, "Freeness", "PH", Level and Speed control). DCS Measurex Vision 2002.

Uniforêt Pâte inc. (Port-Cartier Québec). (Pulps and Paper industry)

CTMP & Bleach increase production

- DCS configuration (Measurex Vision 2002), startup and production support.

Centre de Recherches Minérales (Québec). (Mining industry)

Realization of a control process software for mining process

- Integration of the "FIX" "SCADA" on the software architecture.
- Real time access to FIX Database using EDA library

Coca-Cola Ltd (Ville Lachine Québec). (Food and beverage industry)

Modernization of syrup making process (13 tanks)

- Configuration and programming of 3 FIXDmacs "SCADA". Programming of PLC (AB PLC5/40).
Startup

Kraft General Foods (Ville Mont Royal Québec, Canada). (Food and beverage industry)

Modernization of line 55 of peanut butter

- Configuration and programming of PLC (Ti 555-1102).
- Configuration and programming of "MMI" (PanelMate IDT 3000-1000). Startup.