

# SIND

## PROCESS CONTROL

[www.s-ind.eu](http://www.s-ind.eu)



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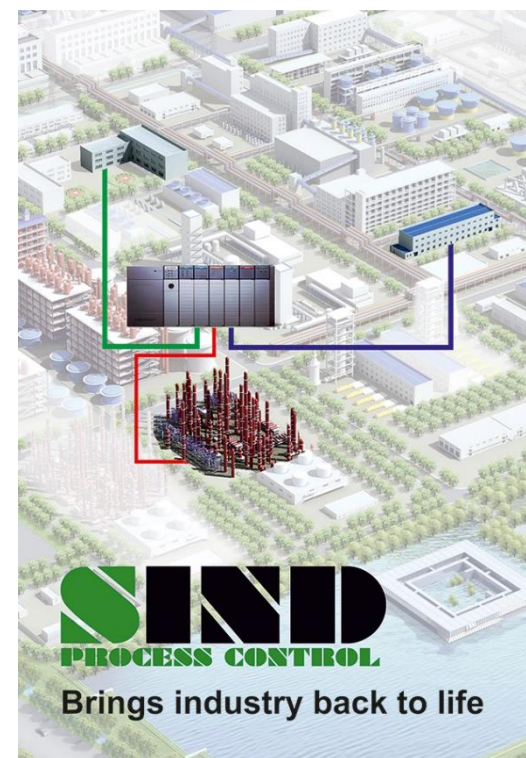
# Company profile

## SHORT HISTORY

- ▶ S\_IND PROCESS CONTROL is a private company, founded in 2008, with main activity in industrial automation. During these years, the company has acquired a vast experience in developing turnkey projects which allowed us to obtain collaboration contracts with market leaders from various fields.

## VISION

- ▶ Having a perspective on the market in which we operate, the quality/price ratio is at a higher level compared to the competitors. Thus, we intend to win the trust of companies and increase our market share.



**S\_IND PROCESS CONTROL SRL**

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# Company profile

## OUR STAFF

- ▶ The company staff consists of enthusiastic young people, with a high knowledge accumulation capacity that grew simultaneously with the company's progress. In this way, S\_IND PROCESS CONTROL operates through people who develop ideas for finding streamlined solutions.
- ▶ In the present we have 14 employees with a vast experience in industrial automation.

## VALUES

SERIOUSNESS  
PROFESSIONALISM  
EXPERIENCE  
DETERMINATION

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- ▶ The company is accredited for ISO 9001, 14001 si 18001; the implemented quality system management is focused on achieving quality policy and quality objectives to meet actual and future customer requirements.



**UNITED REGISTRAR OF SYSTEMS CERTIFICATION URS**

### Certificate of Registration

This certificate has been awarded to

**S\_IND PROCESS CONTROL SRL**  
Spl Unirii, Nr.313, Corp M D1, Et. 2, Cam. 13, 030138 București, Sector 3, România

In recognition of the organization's Health and Safety Management System which complies with

**OHSAS 18001:2007**

The scope of activities covered by this certificate is defined below

**Design and Implementation of Automation Systems and related Applications, Research and Control of Industrial Processes, Mounting of Electrical Panels, Design and Execution of Interior Wirings for Constructions, Overhead and Underground Connections with 0.4 kW Nominal Voltage**

Certificate Number:	Date of Issue: (Original)	Expiry Date:	Issue No:
48024/00001/UK/En	15 September 2011	14 September 2017	2
Date of Issue:	First annual surveillance audit expiry date:	Second annual surveillance audit expiry date:	
15 September 2014	14 September 2015	14 September 2016	

Issued by: on behalf of the Schemes Manager




**UNITED REGISTRAR OF SYSTEMS CERTIFICATION URS**

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**S\_IND PROCESS CONTROL SRL**  
Spl Unirii, Nr.313, Corp M D1, Et. 2, Cam. 13, 030138 București, Sector 3, România

In recognition of the organization's Quality Management System which complies with

**ISO 9001:2008**

The scope of activities covered by this certificate is defined below

**Design and Implementation of Automation Systems and related Applications, Research and Control of Industrial Processes, Mounting of Electrical Panels, Design and Execution of Interior Wirings for Constructions, Overhead and Underground Connections with 0.4 kW Nominal Voltage**

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Spl Unirii, Nr.313, Corp M D1, Et. 2, Cam. 13, 030138 București, Sector 3, România

In recognition of the organization's Environmental Management System which complies with

**ISO 14001:2004**

The scope of activities covered by this certificate is defined below

**Design and Implementation of Automation Systems and related Applications, Research and Control of Industrial Processes, Mounting of Electrical Panels, Design and Execution of Interior Wirings for Constructions, Overhead and Underground Connections with 0.4 kW Nominal Voltage**

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# Power stations - Pumping Station at CET 1 & 2 Veolia Iasi

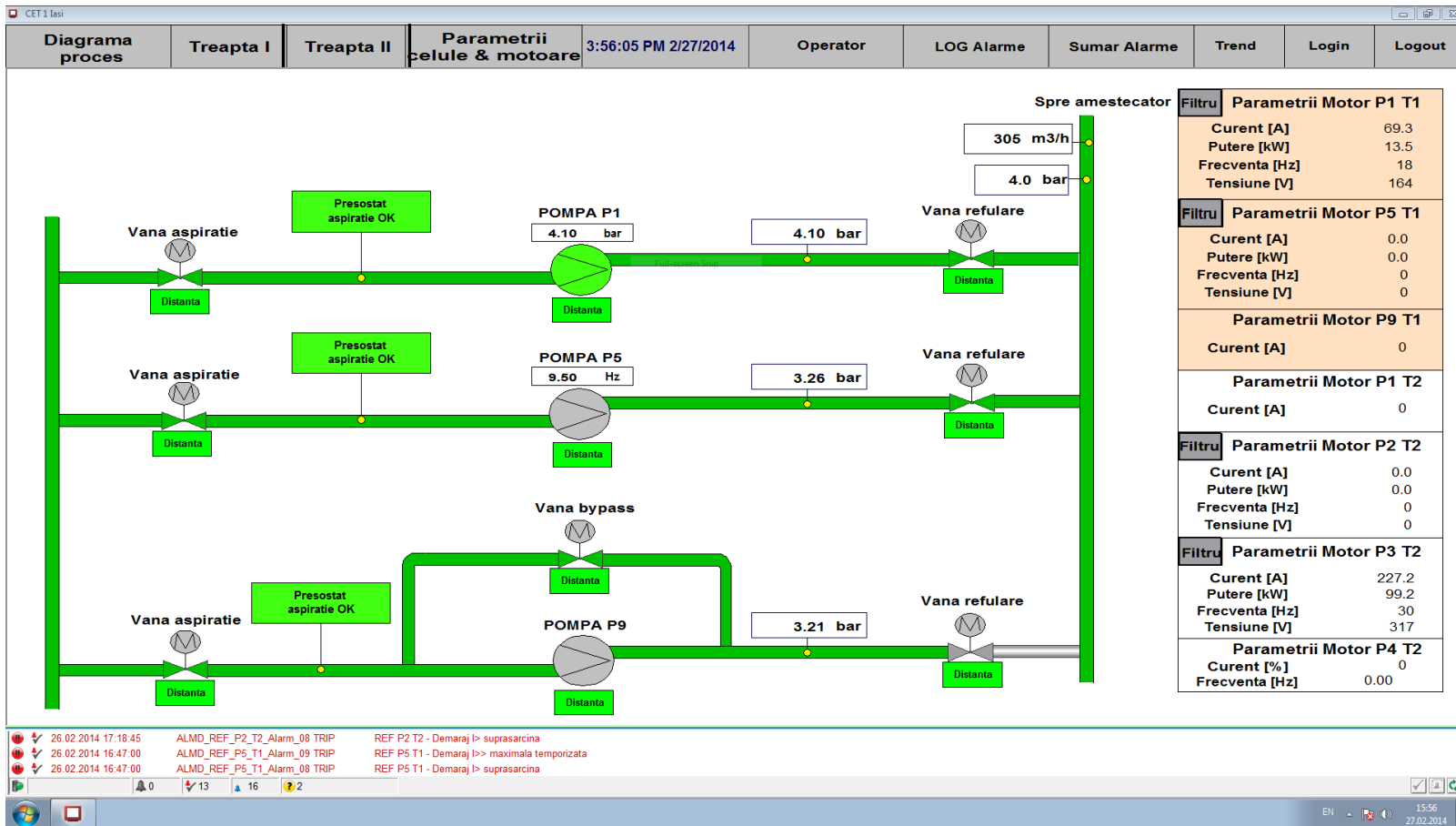
- ▶ SCADA system for 9 water pumps in 2 locations for Iasi city heating;
- ▶ The logic includes PID for pressure control and bumpless transfer from open loop to close loop;
- ▶ Modbus communication with Danfoss VFDs, Infostar temperature reader and ABB REF542 electrical relays;
- ▶ HMI Software: Rockwell Automation FactoryTalk View SE;
- ▶ PLC: Allen Bradley Compactlogix L24QB1B with 1734-AENTR Remote I/Os ;

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# Power stations - SCADA System for MHC 2&3 at Repedea

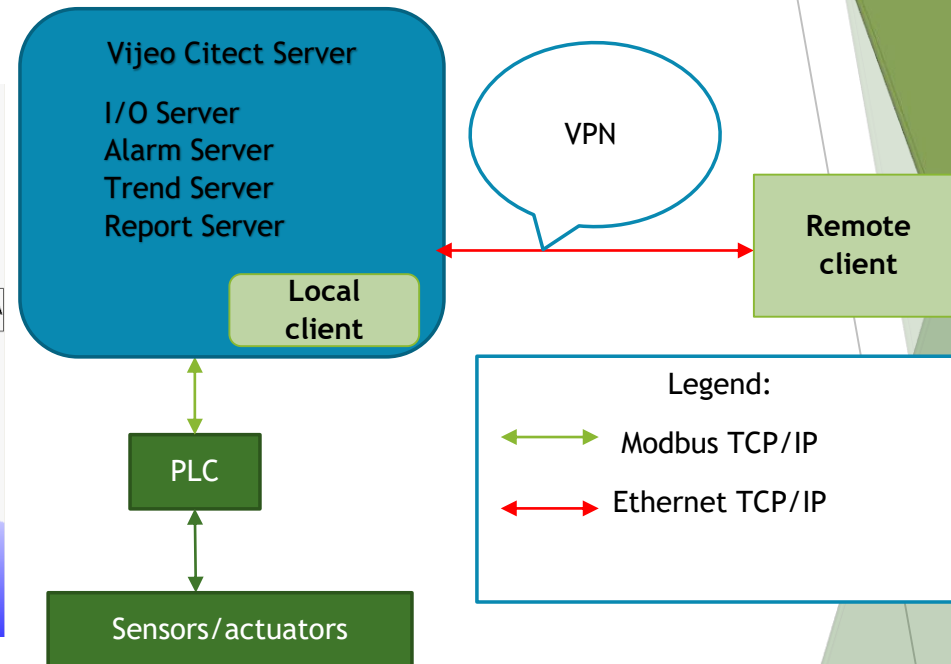
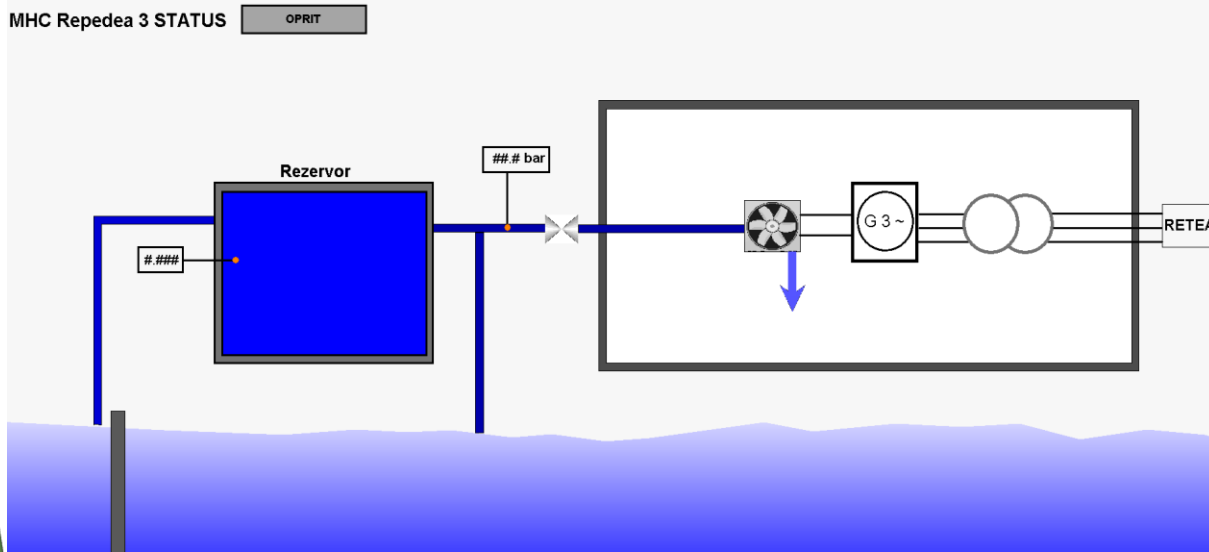
- ▶ SCADA system for 2 micro hydro power plants located on Repedea river in Valcea county Romania;
- ▶ The system includes automatic control for turbine and in/out valves;
- ▶ The HMI application includes client security, alarms, datalog and production /consumption reports;
- ▶ HMI software used: Schneider Vijeo Citect 7.2;

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# Power stations - SCADA System for MHC 2&3 at Repedea



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# Power stations - SCADA System for MHC 2&3 at Repedea

- ▶ MHC Calinesti 1&2 - control of the intake and sand separator of the power plants which are equipped with electrical driven gates AUMA.
- ▶ The SCADA system control the gates in order to keep the water flow to the turbine in good parameters.
- ▶ The PLC program runs a PID control to keep the water level in the reservoir at a specified value and if the water level increase above a critic limit, each gate will be driven in a specific position in order to protect the turbine.
- ▶ A communication link is established between the turbine PLC and Intake PLC (via Modbus at Calinesti 2 and via S7 Connection at Calinesti 2) to ensure the data exchange necessary for the turbine to work properly.
- ▶ PLC: VIPA 300s, Allen-Bradley Micro850
- ▶ HMI: Factory Talk View SE

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# Power stations - Shatt al Basrah Dam

- ▶ The refurbishment of electrical equipment, including the SCADA for the Dam, Sluice Gate, and Swing Bridge at Shatt Al Arab, Basrah Province, IRAK
- ▶ The system includes acquisition and assembly of automation cabinets, implementation of control and automation for 5 sluice gates, 2 radial gates and 1 swing bridge;
- ▶ Equipments: S7-400 CPU , 8 ET200S , 8 HMI TP 6 inch ,8 Modbus TCP/IP Power Meters;
- ▶ PLC: S7-400 CPU 414-5H Redundant FO architecture;
- ▶ HMI: WinCC V7.2;

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# Power stations - Shatt al Basrah Dam



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# Power stations - DCS at CET Timisoara

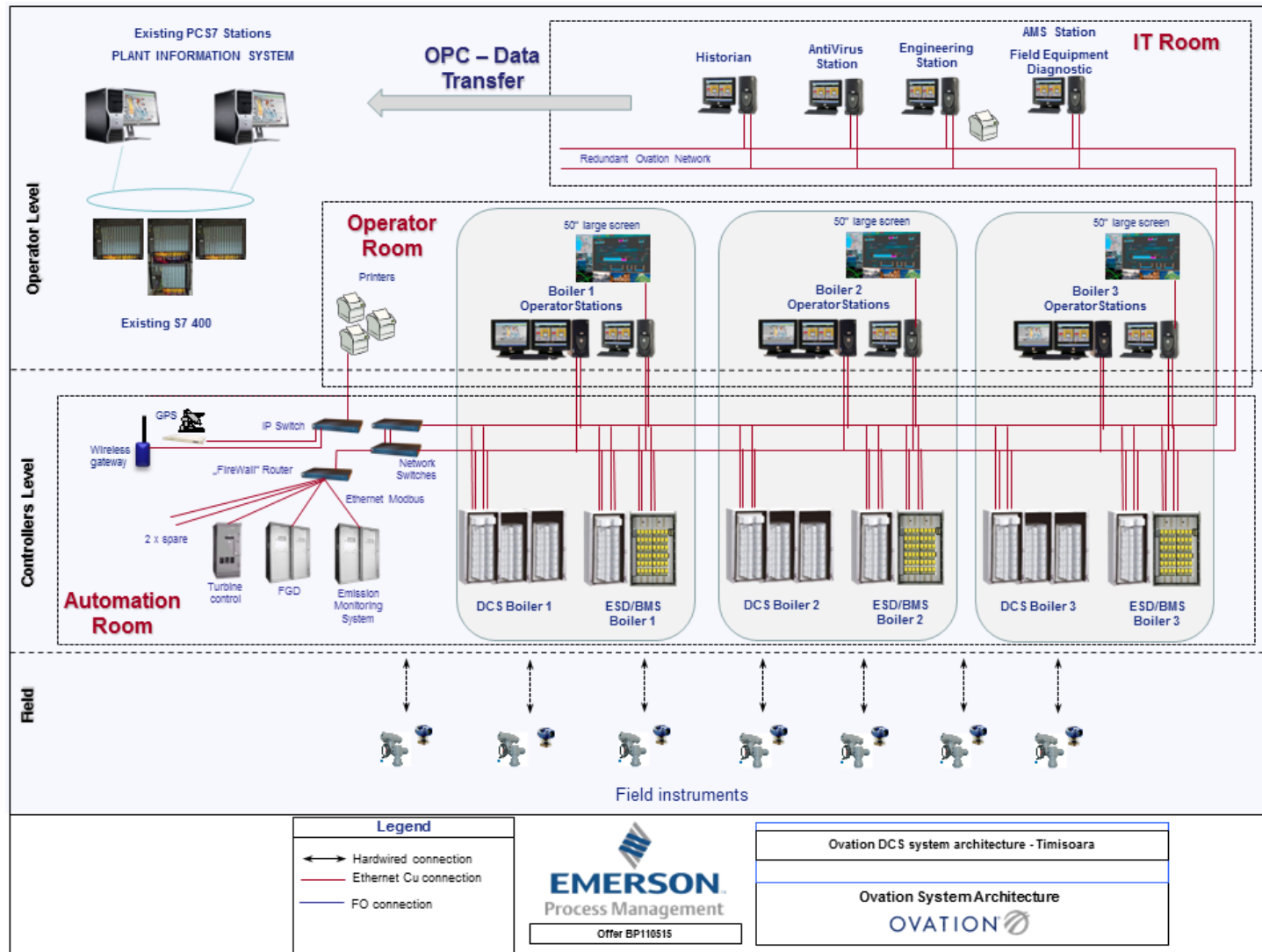
- ▶ The automation system of the 3 boilers is comprised of:
  - ▶ DCS - Distributed Control System - responsible with the control and supervisory of process parameters without the natural gas control parameters;
  - ▶ BMS - Burning Management Sistem - responsible with the control and supervisory of natural gas control parameters;
  - ▶ ESD - Emergency Shut Down - responsible with the interlocks and permission of the system and emergency shut down in case of a failure;
  - ▶ SNCR - responsible with the reduction of nitrogen oxide emissions in power plant;
- ▶ Each boiler has his own DCS/BMS/ESD system in a redundant architecture and his own operator stations;
- ▶ DCS/BMS/ESD system: Emerson Ovation

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# Power stations - DCS at CET Timisoara



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# Power stations - DCS at Veolia CET Ploiesti

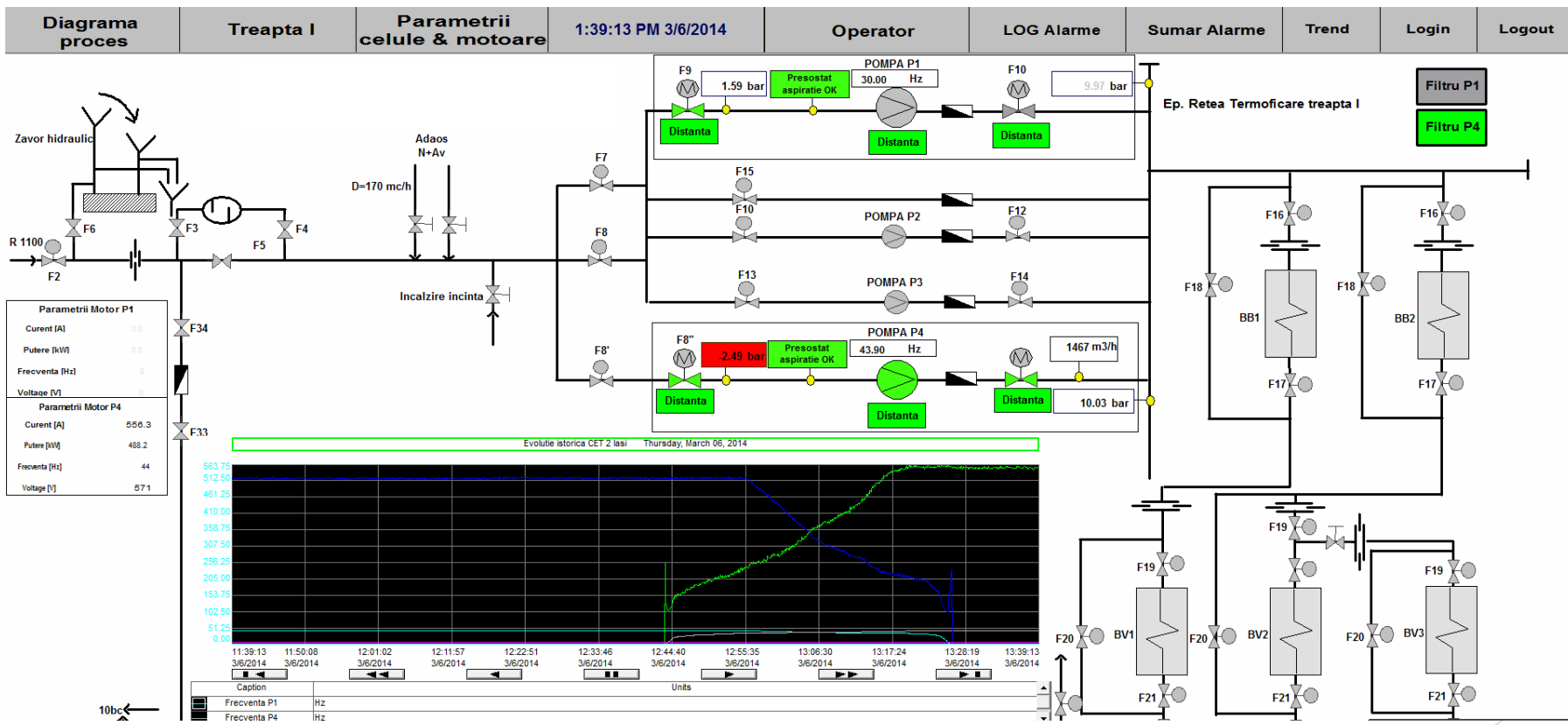
- ▶ Software modification of existing DCS at CET Ploiesti;
- ▶ Boiler control using PID for pressure, level and temperature;
- ▶ DCS: Siemens PCS7;
- ▶ PLC: Siemens S7-300;

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# Power stations - DCS at Veolia CET Ploiesti



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# Power stations - SCADA for CHE Kilavuzlu, Turkey

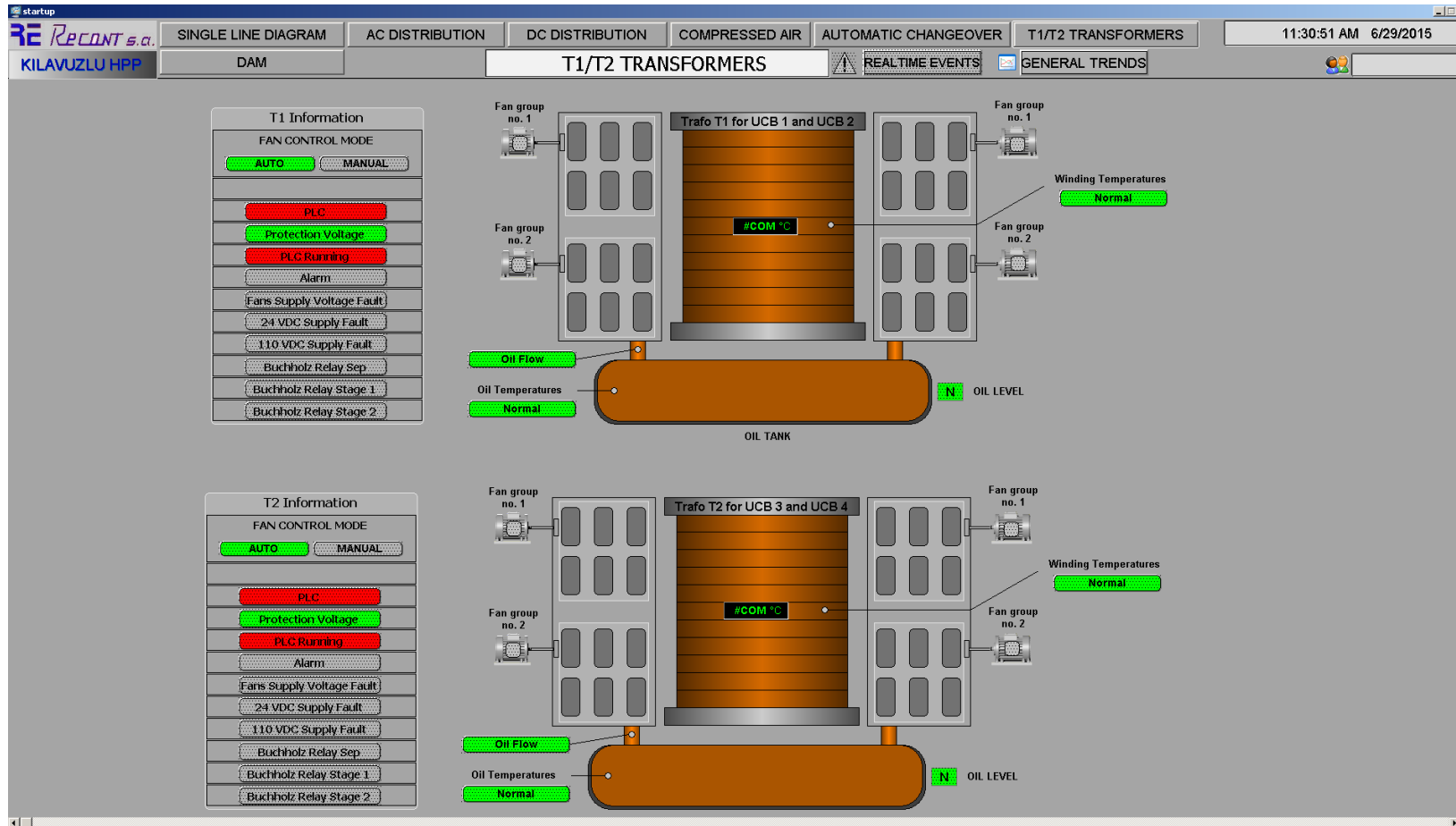
- ▶ SCADA system for CHE Kilavuzlu Turkey;
- ▶ SCADA includes operator screens, alarms, datalog, security;
- ▶ Screens:
  - ▶ Single Line Diagram;
  - ▶ AC Distribution;
  - ▶ Compressed Diagram;
  - ▶ Automatic changeover;
  - ▶ T1/T2 Transformers;
  - ▶ Dam
- ▶ HMI: Vijeo Citect 7.0;

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# Power stations - SCADA for CHE Kilavuzlu, Turkey



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# Power stations - Brennilis Power Station decommissioning

- ▶ The system is designed to control and supervise equipment used for the operation of radioactive waste removal and size reduction from the Brennilis redundant reactor located in Brittany, France.
- ▶ The overall purpose of the system is to remove and transfer control rods, tube guides and tube envelopes from the wells in which they are stored; each well will be cleared individually utilizing the HF for vertical wells or the sarcophagus for horizontal wells and dedicated tooling that is used to both remove and transfer the waste items.
- ▶ PLC: Siemens S300 and ET200S Remote I/O;
- ▶ HMI: WinCC Flexible

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# Power stations - Brennilis Power Station decommissioning

The image displays two screenshots of a control room interface for the Brennilis Power Station decommissioning. The left screenshot shows the 'HANDLING FLASK OVERVIEW' with a 3D model of the flask and various control buttons. The right screenshot shows the 'FLASK RTP-GAMMA GATE SYSTEM' with detailed status indicators and control panels for the RTP and HF Gate.

**Left Screenshot: HANDLING FLASK OVERVIEW**

- Language:** English (UK)
- Mode:** MAIN
- Time:** 2:42:38 PM, 6/26/2012
- Name:** Engineer
- Buttons:** PRINT, BACK, Change Mode (1, 2, 3)
- 3D Model:** Shows the flask with components like SLACK ROPE YS001, HOIST MOTOR BRAKE YN001, GRAPPLE MOTOR 1 M007, GRAPPLE MOTOR 2 M008, CLAMP ACT 1 M002, CLAMP ACT 2 M003, GAMMA GATE M004, RTP 1 M005, and RTP 2 M006.
- HOIST Controls:** LOWER HOIST TO PRESET POS (HF-1-3 START), RAISE HOIST TO UPPER DATUM (HF-1-4 START), LOWER HOIST (HF-2-1-1), RAISE HOIST (HF-2-1-2).
- GRAPPLE CLAMPING:** HOIST, GRAPPLE CLAMPING, GAMMA GATE RTP, TOOL CHANGE BOX, FLASK TOOLS.
- OPEN HF GATE & RTP:** HF-1-1 START, HF-2-4-1 OPEN HF GATE, HF-2-5-2 UNLOCK RTP1, HF-2-5-3 OPEN RTP2.
- CLOSE HF GATE & RTP:** HF-1-2 START, HF-2-5-4 CLOSE RTP2, HF-2-5-1 LOCK RTP1, HF-2-4-2 CLOSE HF GATE.
- POWER SUPPLY HEALTHY:** PSU1-31005, PSU2-31005, PSU1-31004, PSU2-31004, PSU3-31004, UPS NORMAL, UPS ON, UPS BAT LOW, UPS LINE FAIL.
- RADIATION LEVEL R001:** 0 µSv/h.
- Log:**

No.	Time	Date	Status	Text	GR
260002	2:42:37 PM	6/26/2012	1	User "Engineer" logged on with group "Engineer".	0

**Right Screenshot: FLASK RTP-GAMMA GATE SYSTEM**

- Language:** English (UK)
- Mode:** MAIN
- Time:** 2:49:48 PM, 6/26/2012
- Name:** Engineer
- Buttons:** PRINT, BACK, Change Mode (1, 2, 3)
- Initial Cond for RTP2 open/close:**
  - RTP docked 1 YS007
  - RTP docked 2 YS008
  - RTP docked 3 YS009
  - RTP1 unlocked YS010
  - HF Gate opened
- Initial Cond for RTP1 lock/unlock:**
  - RTP docked 1 YS007
  - RTP docked 2 YS008
  - RTP docked 3 YS009
  - RTP2 closed YS015
  - HF Gate opened
- Initial Cond for HF Gate Open:**
  - RTP docked 1 YS007
  - RTP docked 2 YS008
  - RTP docked 3 YS009
  - RTP1 locked YS011
  - RTP2 closed YS015
  - WBS Gate closed
- Initial Cond for HF Gate Close:**
  - RTP docked 1 YS007
  - RTP docked 2 YS008
  - RTP docked 3 YS009
  - RTP1 locked YS011
  - RTP2 closed YS015
  - Hoist not datum YS002
  - WBS Gate closed
- RTP2 - M006 Open / Close:**
  - Enable Close
  - Enable Open
  - Mot Status: Closed, Locked, Opened
- RTP1 - M005 Lock / Unlock:**
  - Enable Lock
  - Enable Unlock
  - Mot Status: Closed, Locked, Unlocked
- HF Gamma Gate M004:**
  - Go to Position: Fully Opened, Fully Closed, Preset Position, Actual Pos, Set Pos, Reset Pos
  - Speed Setpoint: 0
  - Pos.Reached, Mot Status
- Overload Indicators:** RTP open overload MGR107, RTP close overload MCR108, RTP lock overload MCR105, RTP unlock overload MCR106.
- Other Indicators:** RTP docked limits YS007/08/09, RTP CAM lock/unlock YS016/YS017, RTP open/closed YS020/YS021.
- Log:**

No.	Time	Date	Status	Text	GR
25	2:47:20 PM	6/26/2012	1	FL104_03 - HF CLAMPING - ACT 2 ENCODER POSITION MISMATCH	2
24	2:44:48 PM	6/26/2012	10	FL104_02 - HF CLAMPING - ACT 1 ENCODER POSITION MISMATCH	2

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# Oil & Gas - Atmospheric distillation unit at Apateu, Romania

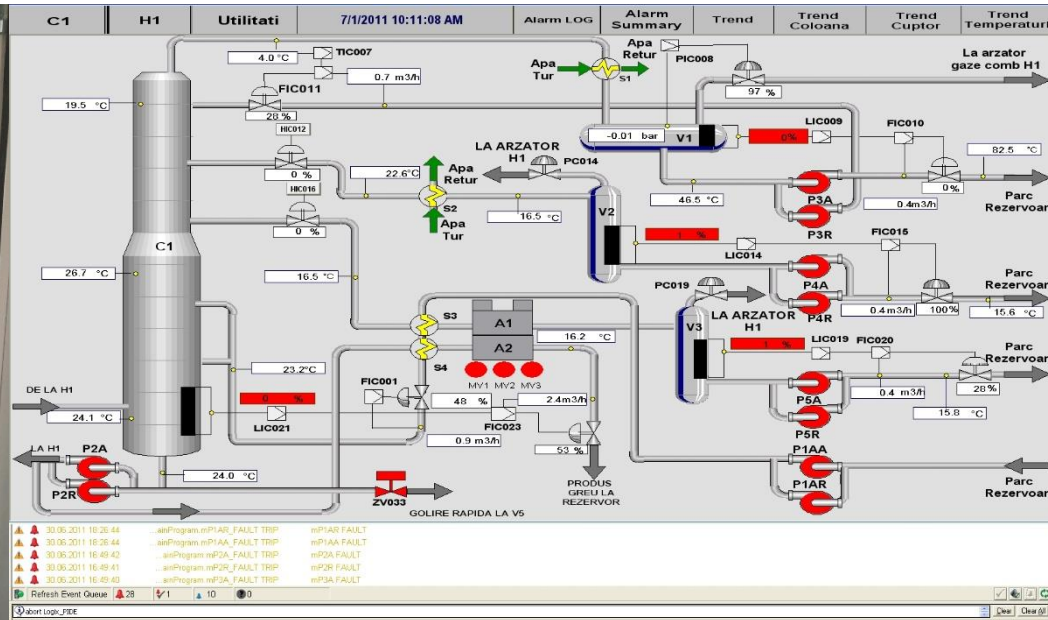
- ▶ SCADA system for an atmospheric distillation unit;
- ▶ PID control algorithm including cascade control;
- ▶ SCADA includes operator screens, alarms, datalog, security;
- ▶ PLC: Allen Bradley CompactLogix L35E and 2 Allen Bradley 1734-AENTR Remote I/O;
- ▶ HMI: FactoryTalk View SE ;

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# Oil & Gas - Atmospheric distillation unit at Apateu, Romania



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# Oil & Gas - Rompetrol DCS Nitrogen & Compressor

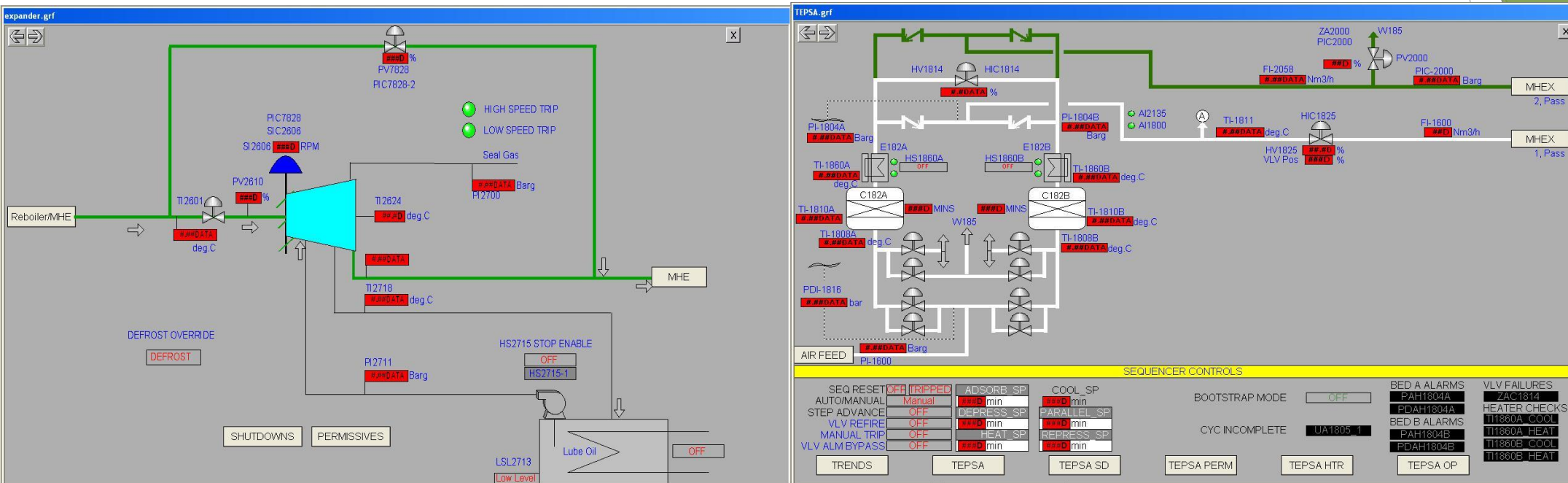
- ▶ Modification for DCS program at Rompetrol refinery;
- ▶ Nitrogen installation monitoring and control;
- ▶ Compressor routine modification in Allen Bradley PLC;
- ▶ DCS: Emerson DeltaV;
- ▶ PLC: Allen Bradley ControlLogix;

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# Oil & Gas - Rompetrol DCS Nitrogen & Compressor



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# Manufacturing- Laromet Brasov DCS system and Robot artificial vision

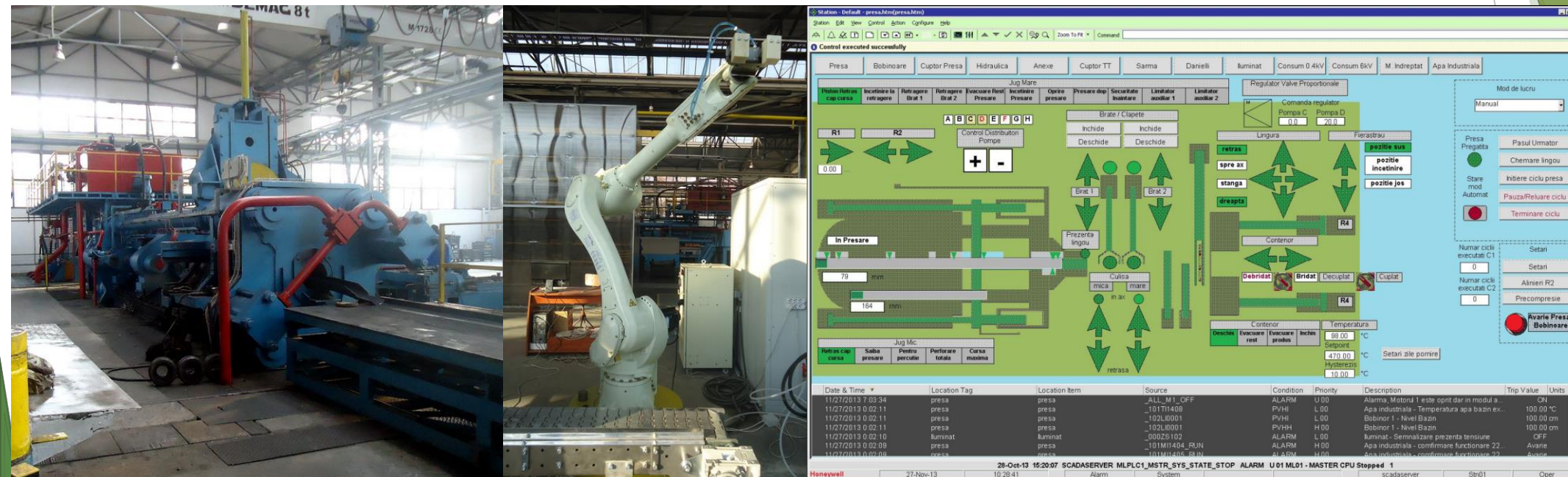
- ▶ DCS system for :
  - ▶ 2500 Tf forge;
  - ▶ Terminal treating heater ;
  - ▶ Induction heaters;
  - ▶ Auxiliary systems;
- ▶ DCS: Honeywell ML200;
- ▶ HMI: Experion PKS;
- ▶ Kawasaki robot and RFA Vision system;

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# Manufacturing- Laromet Brasov DCS system and Robot artificial vision



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# Manufacturing- Laromet Bucuresti SCADA system

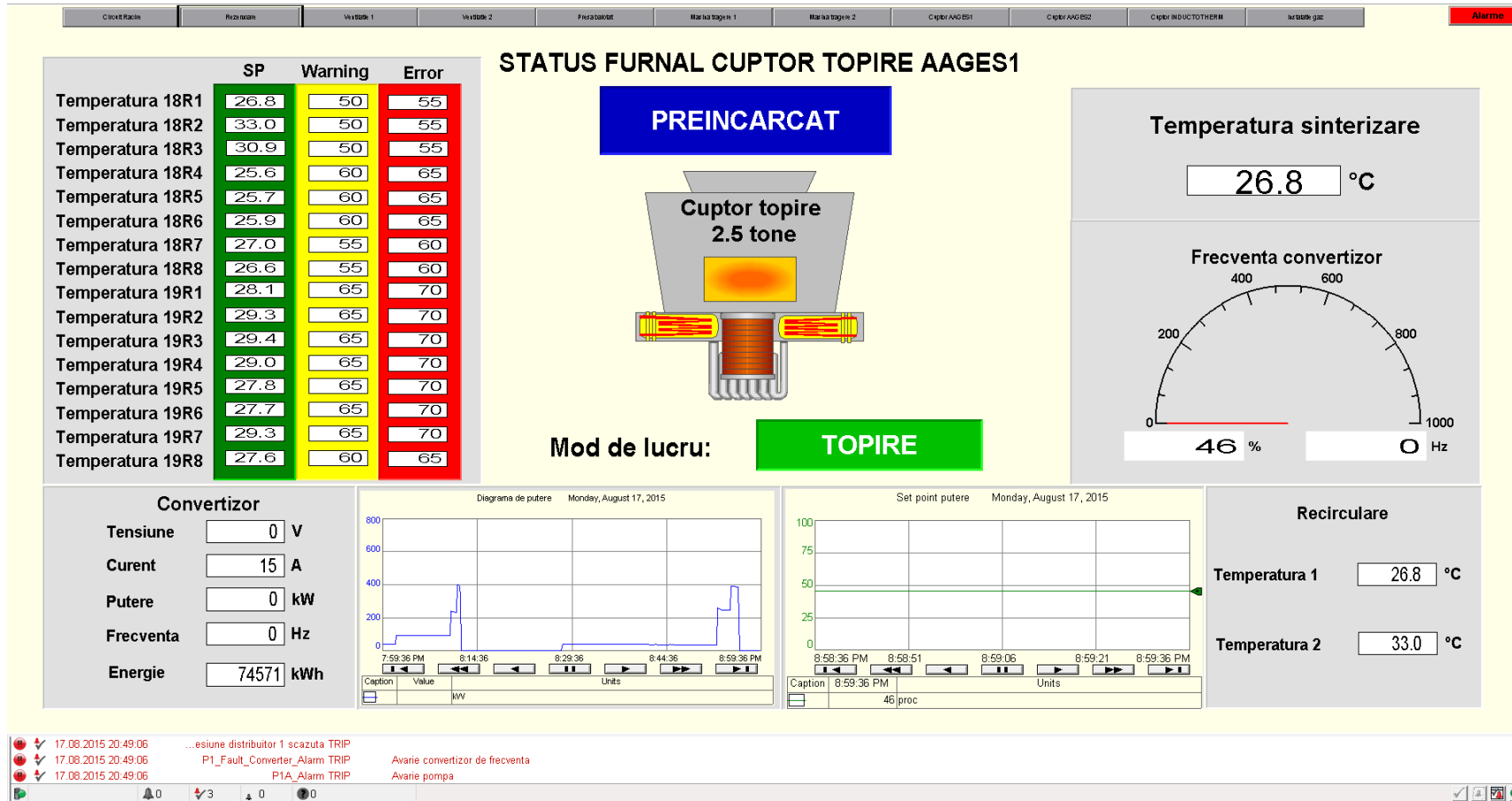
- ▶ SCADA system for:
  - ▶ Water cooling system;
  - ▶ Baling press for waste alloys;
  - ▶ Horizontal drawing machine for tube bars;
  - ▶ Vertical drawing machine for tube bars;
- ▶ PLC: VIPA 300S, VIPA SLIO CPU15;
- ▶ HMI: Vipa TouchPanels, FactoryTalk View SE;

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# Manufacturing- Laromet Bucuresti SCADA system



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# Manufacturing - Mixing line 1 & 4 at Eurotire

- ▶ SCADA system for automatic control and recipe management for 2 mixing line at Eurotire Manufacturing Drobeta Turnu Severin;
- ▶ SFC program for mixing line control;
- ▶ Recipe management (add, delete, modify) implemented on PLC;
- ▶ Automatic weighting system using Ethernet/IP Sartorius scales;
- ▶ PLC: Allen Bradley CompactLogix L45;
- ▶ HMI: FactoryTalk View ME;

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# Food industry - SCADA system for Monsanto Calibration tower Romania

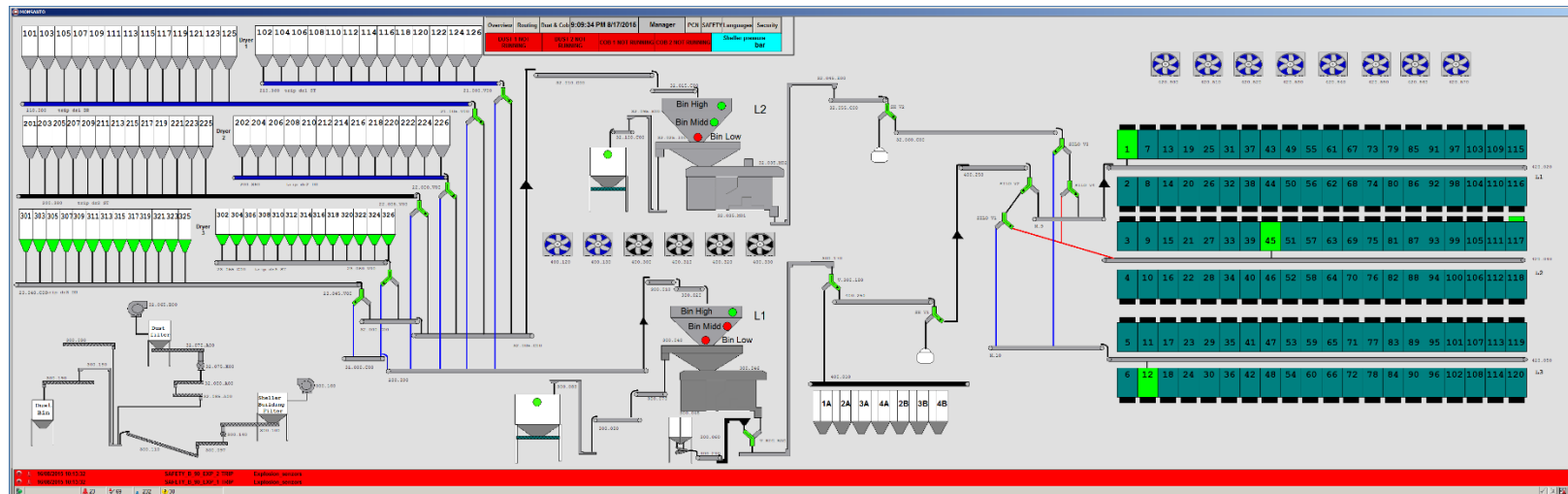
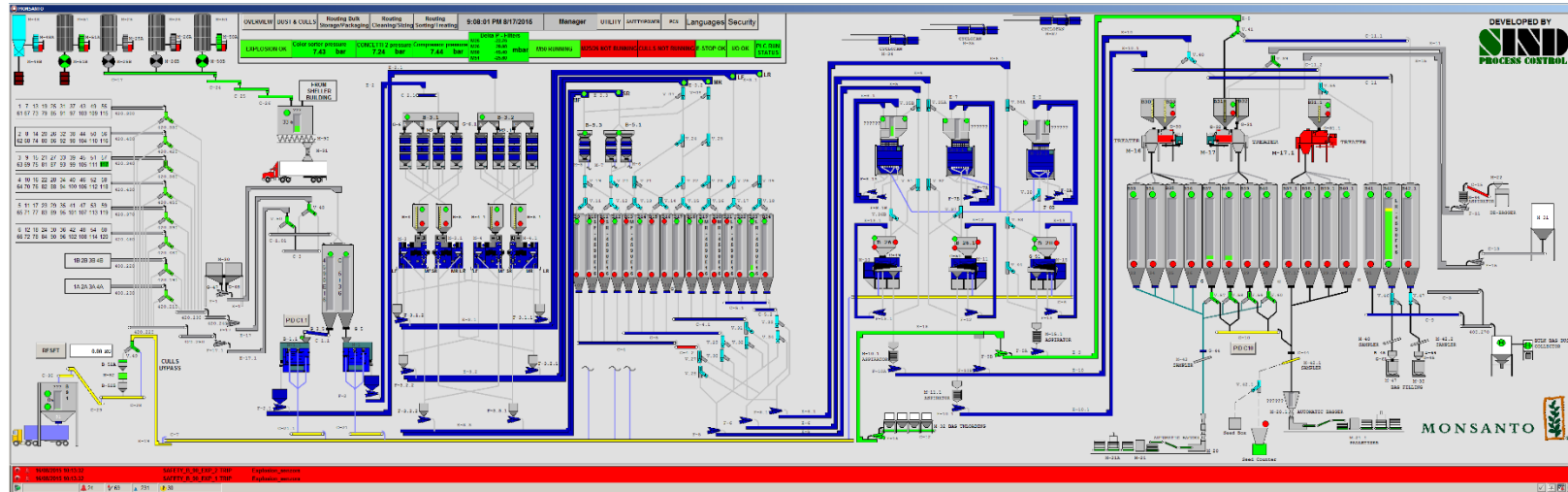
- ▶ SCADA system for equipment control and automatic routing in auto mode (using Siemens MES) or semiautomatic mode (operator input) ;
- ▶ Redundant fiber optic Ethernet/IP communication and physical separation between SCADA and process level equipment's LAN;
- ▶ Safety PLC for emergency buttons and conveyor ropes;
- ▶ PlantPax functions for motors and valves;
- ▶ Modbus communication with scales and humidity sensors;
- ▶ Serial communication with silo temperature sensors;
- ▶ PLC: 2 x Allen Bradley ControlLogix L73, 1 x Compact Logix L45S and AENTR Remote I/O' s;
- ▶ HMI: FactoryTalk View SE and ME;

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# Food industry - SCADA system for Monsanto Plant Romania



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# Food industry - Compound feed factories

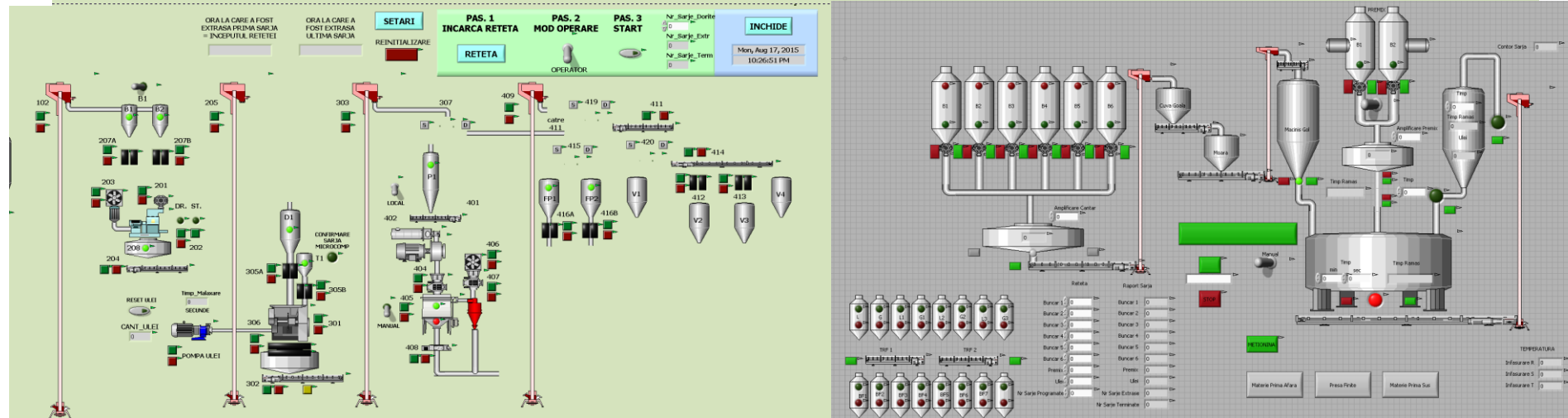
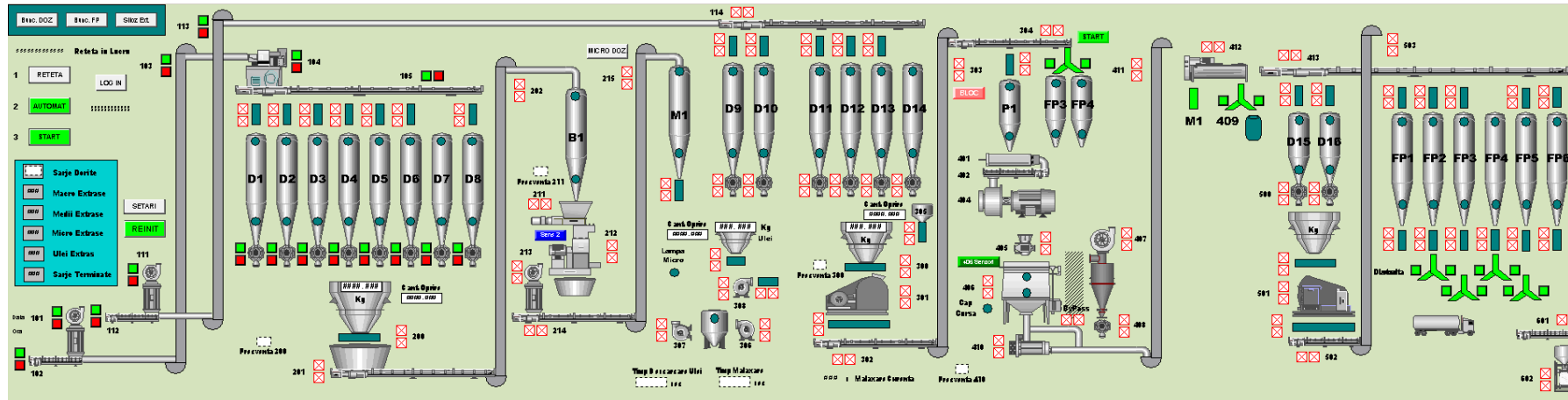
- ▶ Compound feed factories:
  - ▶ Vitall at Codlea Romania;
  - ▶ Vitall at Craiova Romania;
  - ▶ Agrisol at Ploiesti Romania;
- ▶ SCADA system for equipment control and automatic recipe management for compound feed factories;
- ▶ PLCs: Allen Bradley CompactLogix L16ER and Kontron
- ▶ HMIs: FactoryTalk View SE and Labview runtime;

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# Food industry - Compound feed factories



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# Food industry - Wheat and Corn mills at Oltina Urlati

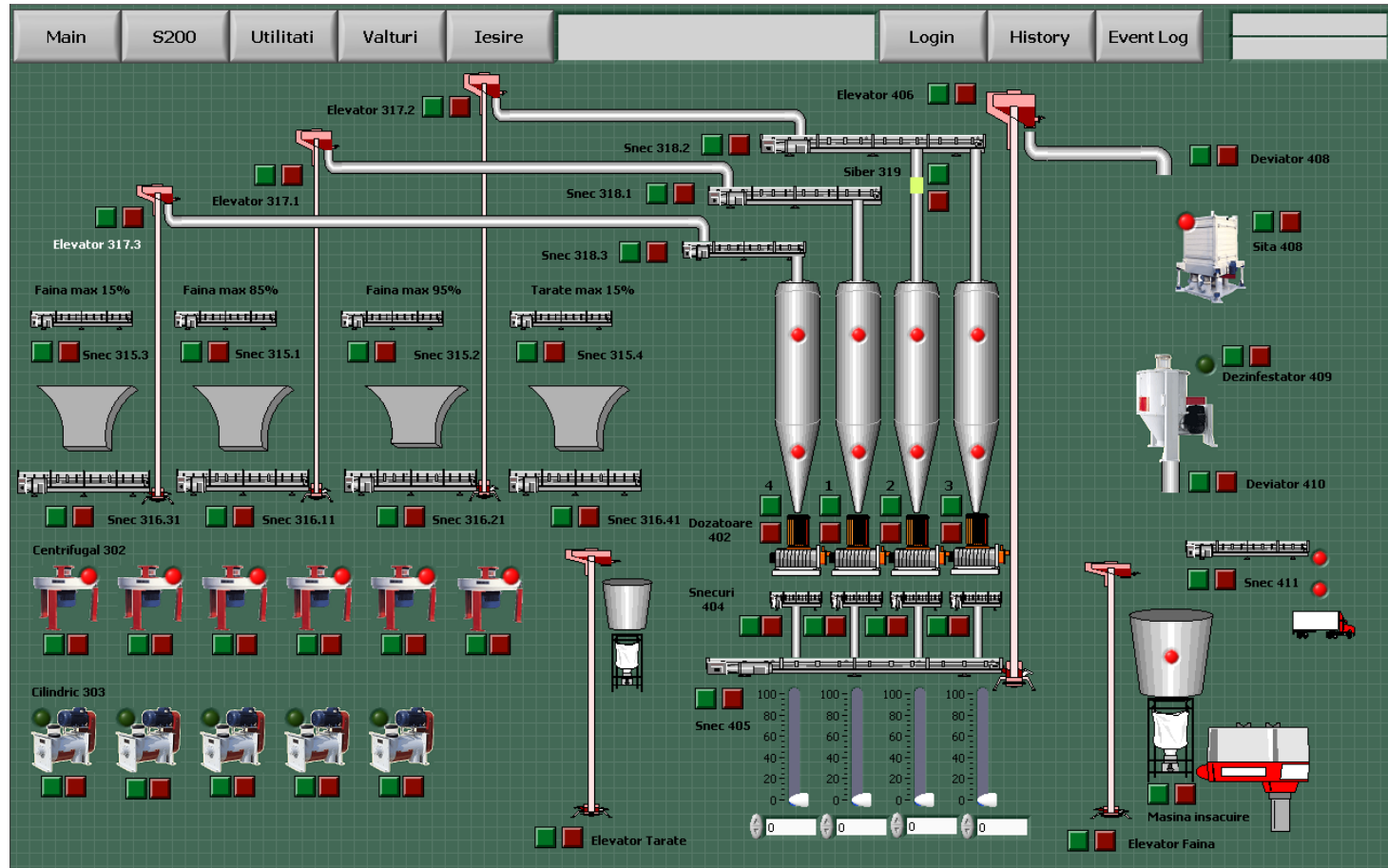
- ▶ SCADA system for equipment control and automatic routing for wheat and corn mills at Oltina Urlati;
- ▶ PLCs: Allen Bradley CompactLogix L43 , Siemens S300, Vipa 300s;
- ▶ HMIs: FactoryTalk View SE and Labview runtime;

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# Food industry - Wheat and Corn mills at Oltina Urlati



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# Clean & Waste Water - Waste water pumping station at Urziceni and Calarasi

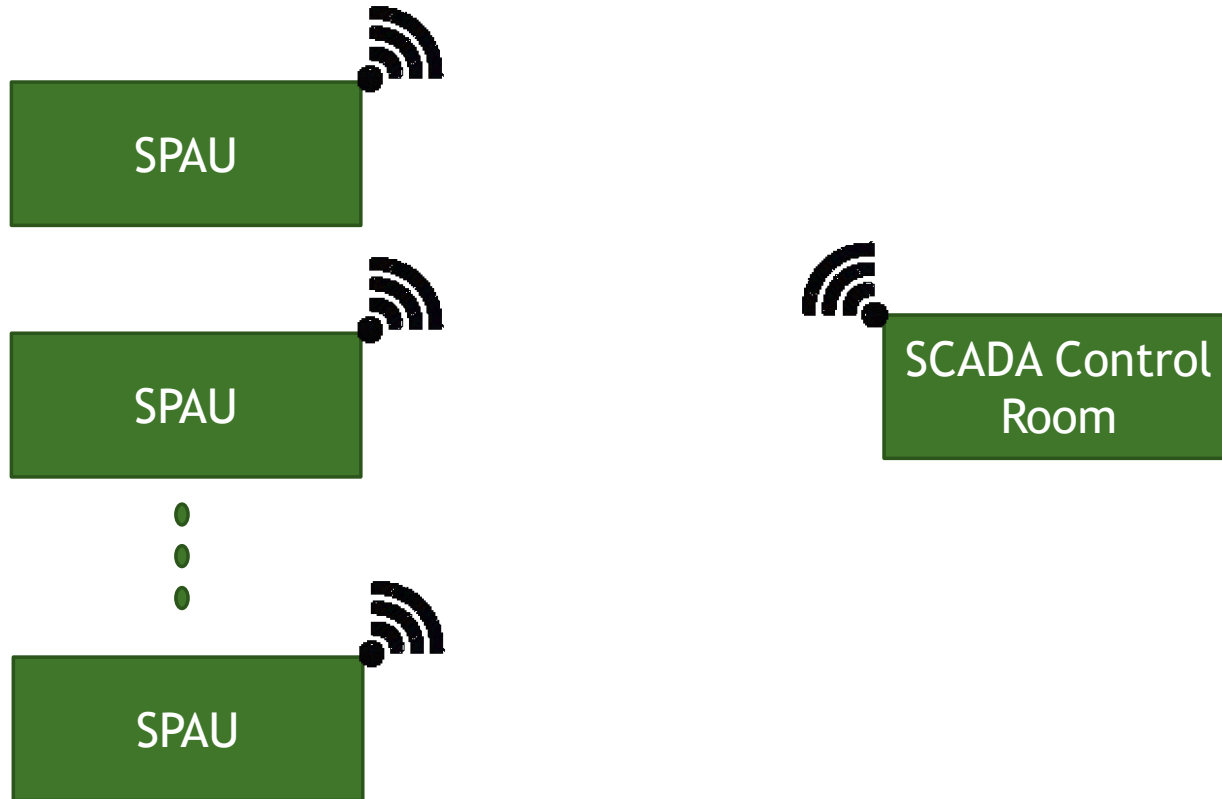
- ▶ Waste water pumping station control using PLC and GPRS communication with SCADA control;
- ▶ GPRS communication;
- ▶ Independent automatic control of pumping station;
- ▶ PLCs: Allen Bradley Micrologix 1400, Phoenix Contact ILC151;

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# Clean & Waste Water - Waste water pumping station at Urziceni and Calarasi



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# Clean & Waste Water - Clean Water treating station at Tulcea Romania

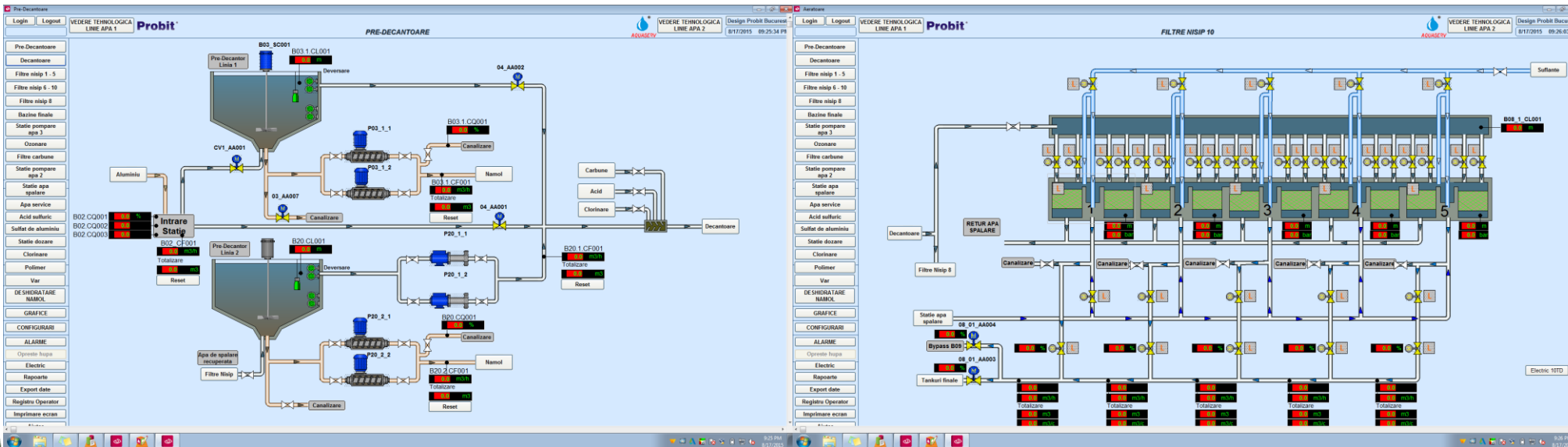
- ▶ SCADA system for clean water treating station at Tulcea Romania:
  - ▶ Inlet Flow meter Chamber;
  - ▶ Pre-decanter;
  - ▶ Pre-oxidation;
  - ▶ Coagulation, Flocculation, Lamella Decanter;
  - ▶ Intermediate & Sludge Pumping Station;
  - ▶ Sand Filters 10 x 60 m<sup>2</sup> and 8 x 25 m<sup>2</sup> ;
  - ▶ Pumping Station / Air Scour Blowers;
  - ▶ Chemicals;
- ▶ PLCs: Schneider M340;
- ▶ HMI: Schneider Vijeo Citect 7.4

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# Clean & Waste Water - Clean Water treating station at Tulcea Romania



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# Process control systems experience

- ▶ Rockwell Automation
  - ▶ PLC: RSLogix 500/5000, Studio5000, Connected Components Workbench;
  - ▶ HMI: FactoryTalk View ME/SE, RSView ME/SE, PanelBuilder;
  - ▶ Historian: FactoryTalk Historian SE;
- ▶ Siemens
  - ▶ PLC: Step7, PCS7, TIA Portal;
  - ▶ HMI: WINCC, WINCC Flexible;
- ▶ Schneider:
  - ▶ PLC: Unity Pro, Twido;
  - ▶ HMI: Vijeo Citect, Vijeo Designer;
  - ▶ Historian: Vijeo Historian;

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# Process control systems experience

- ▶ Emerson:
  - ▶ DCS: Ovation, DeltaV;
- ▶ Honeywell:
  - ▶ PLC: SoftMaster;
  - ▶ HMI: Experion PKS;
- ▶ Turck/Bosch/Kontron:
  - ▶ PLC: Codesys;
- ▶ Phoenix Contact
  - ▶ PLC: PCWorx
- ▶ National Instruments
  - ▶ HMI: Labview, Labview DSC

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