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REFERENCE LIST IN THE FIELD OF AUTOMATION

OTHER

"PAPER FACTORY"

RIJEKA, Croatia

1993.

Short fiber plant - design, program, start up:
- TOSHIBA EX40; 60DI;

"PAPER FACTORY"

ZAGREB, Croatia

1991.-1995.

Maintenance of drives and measuring equipment

"DRVENJACA" - Wood pulp factory

FUŽINE, Croatia

1992.

Project management, design, program, erection and start up
of following plants:

- Water extracting machine:
- TOSHIBA EX40; 60DI; 40DO

1993.

- Wood pulp store:
- SIMATIC S5 102U; 32DI; 24DO

1993.

- Energy control:
- SIMATIC S5 103U; 32DI; 32DO; 8AI

1993.

- Forming, packing and transport:
- SIMATIC S5 135U; CP527; 150DI; 60DO; 8AI; IP240

1992-1993.

- Bleaching plant:
- Measuring, control of components flow, measuring and
regulation of bleach and peroxide rests:
- SIMATIC S5 135U; CP257; 40AI; 16AO; 90DI; 60DO

1993.

- Drying machine:
- SIMATIC S5 135U; CP527; 40AI; 8AO; 90DI; 60DO

1993.

- Wood bar cutting plant:
- SIMATIC S5 135U; CP525; 23DO; 64DI

1993.-1994.

- Central supervision of all automated factory devices:
- SIEMENS COROS LS-A; SINEC L1

1993.

- Transformer 2x8 MVA, 35/6/0,4kV:
- Reconstruction of measuring and control

1998.

- In cooperation with machine supplier SOUND-DEFIBRATOR:



- automation and instrumentation of the new Separator: SIMATIC S7-300 with OP37, E&H
- 1998.
 - Reconstruction of central supervision of all automated factory devices:
 - change from SIEMENS COROS LS-A; SINEC L1 to Intellution Fix for Win NT.
- 1999.-2000.
 - Automation, control and monitoring of plant for II faze of waste water cleaning – prolonged aeration.
- 2001.
 - Draining line – new machine VELMET, enlarged capacity up to 150/day, automation, measuring and regulation, 2x45kW drive with moment regulation, Simatic S7-300 and main PC.
- 2002.
 - Drying, pressing, transport and packing line
 - Replacement of old S5 control system with new one based on S7-400 and Intellution HMI.
- 2004.
 - Automation of III stage waste water treatment.
- 2005.
 - Drying, III stage.
 - Upgrade of existing automation system.
- 2006.
 - In cooperation with machine supplier METSO.
 - Automation of “Second stage separator & pulp refiner” based on SIMATIC S7-300 PLC and Intellution HMI.

"HEP PP PRIMORSKI SLIV RIJEKA"

Croatian state electro company

ZAGREB, Croatia

- 1993.-1999.
- Automation project of hydro plant Rijeka
 - project for protection equipment 110kV, TS Rijeka
 - revision for turbine regulators of HP Ozalj, HP Rijeka, HP Senj-Sklope
 - self consumption project in HP Rijeka
 - automation project of hydro plant Sklope

"HTV" States TV and Radio Company

ZAGREB, Croatia

1994.

- System of regulation and central supervision of air conditioning and lighting of the State Television building - project, program, installation, start up:
- Klöckner & Moeller PS3 - 30 pcs; PS316 - 2 pcs; 496DI; 256DO; 202AI; 83AO

"WATER SUPPLY SARAJEVO"

Subcontractor of BENIMEX Belgium

SARAJEVO, Bosnia and Herzegovina

1998.

- Telemetric system for 30 wells and 5 pump stations. Distribution center with 2 supervision stations.
- Equipment: Rockwell-Allen-Bradley SLC's and SCADA. Communication with substations via modem and radio communication.



1999. - Frequency controller ABB ACS 600, 220 kVA for well pump
- "WATER SUPPLY OGULIN"**
OGULIN, Croatia 2000. - Telemetric system for 20 wells and 5 pump stations. Distribution center with 3 supervision stations. Used equipment: Rockwell-Allen-Bradley SLC's and Intellution FIX Dinamics SCADA. Communication with substations via modem and radio communication.
- "INA-OKI PREPLAM"**
ZAGREB, Croatia 1992.-1994. - Automation of plastic machines - project, program, erection, start up:
- SIMATIC S5 102U; 60DI; 40DO
- SIMATIC S5 103U; 40DI; 40DO; OP5
- "INA RAFINERIJA NAFTE"**
URINJ, Croatia 1998. - Frequency controller ABB ACS 600, 170 kVA for technological pump start up
- Project, mounting and start up.
- "INA RAFINERIJA NAFTE"**
RIJEKA, Croatia 1998.-2001. - Maintenance and improving of system for cleaning of technological waters of KROFT,
- delivery and build-in of frequency regulated drives.
- "ULJANIK" - Shipyard**
PULA, Croatia 2000.-2001. - Automation of energy (electric, water); supervising and control system.
2002. - Automation of transportation of ship parts before assembling.

