

ADVANCED **I**NTELLECTUAL **I**NFRASTRUCTURE & **I**NDUSTRY



Engineering

Procurement

Construction

Management

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Certified partner of the international program «Siemens Solution Partner»

Our company is an authorized distributor and system integrator of **SIEMENS** in the following fields:

- Siemens Building Technologies
- Siemens Industrial Automation
- Siemens Power Distribution

Authorized distributor: RITTAL, BOSCH, PHOENIX CONTACT, LAPP KABEL, EMERSON, HENSEL, MENNEKES



Ural House of Science and Technologies





Solution Partner Certificate

AVATRI Certified

The company is a certified Partner in Russia and is authorized to use the name **Siemens Solution Partner Automation Drives**. The certification has been proved in the following program modules:

Automation System SIMATIC
Human Machine Interface SIMATIC HMI
Process Control System SIMATIC PCS 7

This certificate is valid until September 2016



R. I. Denekhe
Siemens Partner Program

Solution
Partner
Automation
Drives

SIEMENS

Certificate of Siemens Solution Partner

Solution
Partner
Building
Technologies

SIEMENS

Сертификат

Настоящий сертификат подтверждает, что
ООО «Аватри»
является официальным партнером

**Департамента
«Автоматизация и безопасность зданий» (BT)**
компании «Сименс»

по продаже и установке следующего оборудования:

- система автоматизации зданий Desigo;
- продукты и решения по направлению HVAC;
- периферийное оборудование для автоматизации зданий;
- приборы стандартного управления для автоматизации зданий;
- автоматика для котлов и горелок;
- система пожарной сигнализации Cerberus PRO;
- система диспетчеризации оборудования систем безопасности MM8000.

Руководство Департамента «Автоматизация и безопасность зданий»

Москва, 24.11.2015
Номер сертификата: BT - 15 - 11-56
Сертификат действителен до 30.09.2016



www.siemens.ru/bt

Certificate of official partner
Siemens Building Technologies

AVATRI S&T provides engineering, procurement, fabrication, construction, maintenance and project management services to diverse Clients globally.

Industry Automation



Construction and Infrastructure





- **Processes :**

A full range of products and systems for automation solutions in all areas of production and processing

- **Basic Products :**

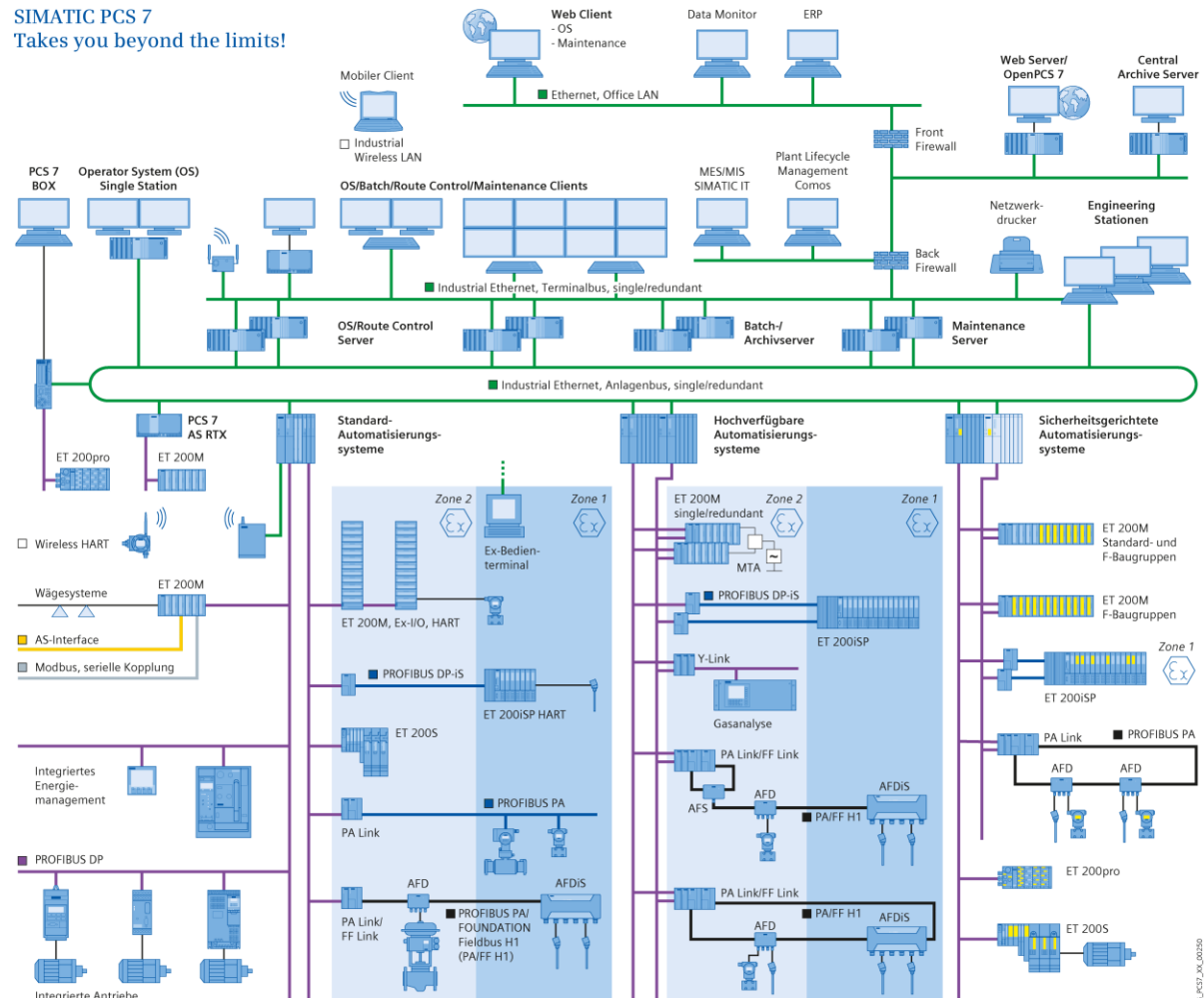
- SIMATIC automation systems
- SIMATIC HMI visualization system
- SIMATIC software
- SIMATIC PCS 7 (PCS) Process Control System;
- Automation PC-based
- SIEMENS Instrumentation and Process Analytics
- SINAMICS Drives
- MES solutions based on SIMATIC IT



SIMATIC PCS7 distributed control system

Distributed control system for
process automation with a variety
of functions.

SIMATIC PCS 7
Takes you beyond the limits!



AVATRI S&T provides engineering, procurement, fabrication, construction, maintenance and project management services to diverse Clients globally.



Quality Management System



OSH management



Ecological Management

Clients trust us as an industry leader to design and build projects safely, cost-effectively and on-schedule. Our exceptional people, broad knowledge, agility, dedication to safety and vast network of resources enable AVATRI S&T to fulfill this commitment every day.



OUR ACTIVITIES:

- Project study
- Basic & Detail Design
- Software Development
- Procurement and Manufacturing
- Erection and Supervision
- Commissioning and Tests
- Staff training



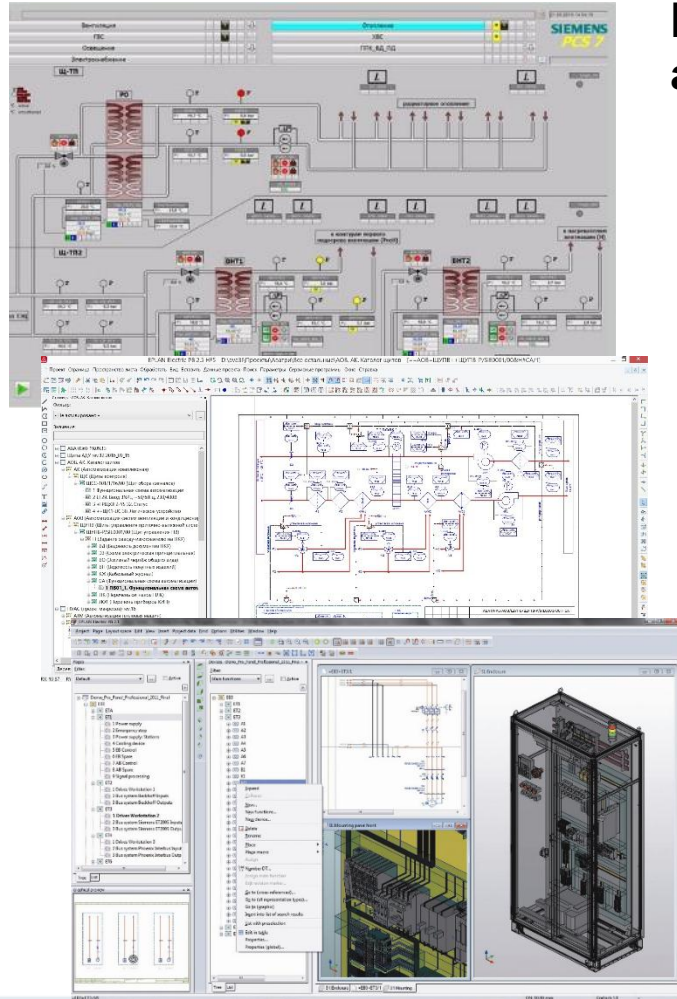
ADVANTAGES:

- Top qualified engineers – 70 certified professionals.
- 130 employees of the company.
- Professional project management.
- Extensive, stable relations with international suppliers and partners.
- Long-term fruitful relationships with major customers and partners.
- All required certificates, licenses and permissions.
- Own workshop for manufacturing, assembling and installation works of appr. 1000 m².
- Own warehouse of appr. 1000 m² with significant quantities of components available from the shelf



Siemens PCS7

EPLAN P8 & Field SYS



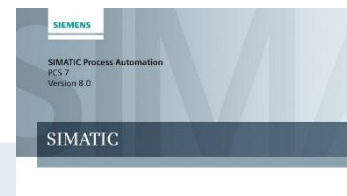
IEC, DIN, NEMA, GOST and special standards are applied upon project requirements

Basic engineering:

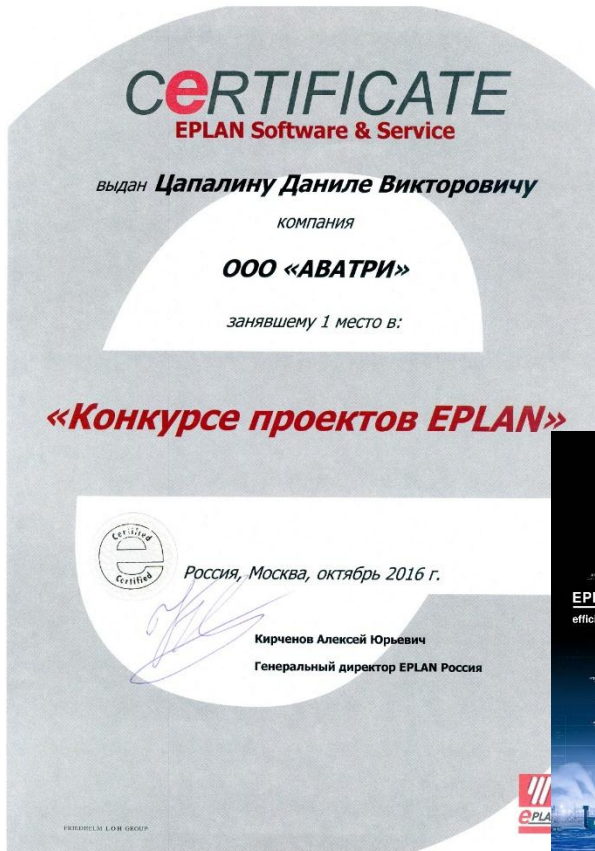
- Initial data and project specifications;
- General principles and requirements for project design;
- Functional specifications;
- Hardware configurations;
- Dimensioning and specification of main equipment and loops
- Layouts and main cable routes

Detail engineering:

- Detailed engineering and planning of electrical and automation equipment and circuits
- Detailed selection and configuration of equipment and loops
- Development of process and drive control systems
- Detailed cable-route erection engineering
- PLC and HMI software development



Best-in-class engineering results



FIRST PRIZE

design competition EPLAN in Russia 2016



High quality standards, compliance with regulatory legal norms and local standards, usage of the world's latest construction materials and technological design know-how, supplemented by close cooperation with international design companies, enables us to satisfy any customer wish.



Own assembly shop:

- Selection of reliable and proven vendors and suppliers;
- Low –voltage distribution , MCC and automation cubicles,
- Supplies of power equipment, instrumentation
- System integration tests;
- Factory acceptance tests with customers' participation
- Own material and spare stock house

Transportation:

- Efficient transportation channels



Complete supply-chain responsibility

- Open packaging inspection (OPI) at customer's warehouse;
- Erection and commissioning of supplied equipment.

Qualified erection and commissioning services



Erection:

- LV cubicles and drives;
- Automation and Human-Machine Interface;
- Instrumentation;
- Cables

Supervision of erection:

- Transformers
- MV Switchgears and distribution



Commissioning:

- System software Level 1/Level 2 and HMI;
- Drives, MCCs, distribution panels,
- Instrumentation;
- Assistance for different stages of Authority Approvals.



Supply of spare parts:

- Electrical equipment and components;
- Automation equipment;
- Instrumentation

Upgrades:

- Electrical equipment;
- Human-machine interface and hardware systems;
- Software.

Support:

- Customer's staff training;
- Technical advisory services (remote & on-site)

Certificates

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р			
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ			
	СЕРТИФИКАТ СООТВЕТСТВИЯ		
№ РОСС RU.АВ75.1802109		25.06.2015	
Срок действия с 26.06.2012		по № 0721920	
ОРГАН ПО СЕРТИФИКАЦИИ рег. № РОСС RU.0001.1АВ75.06 ООО "ГОРТЕСТ" Российская Федерация, 120016, г. Москва, пер. Гроховский, д. 32, оф. 302, тел. 8 (495) 792-39-72, E-mail: info@gortest.ru.			
ПРОДУКЦИЯ Комплексы автоматического контроля и управления в системах: шпалы автоматизации (ША), шпалы управления (ШУ), шпалы распределительные (ШР), программно-аппаратные и сервисные средства, программное обеспечение, мик. "АВАТРИ". ТУ 4252-002-66793-2009-2011. Серийный выпуск.			
СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ		код ОК 005 (ОПР):	
ГОСТ 12.2.007-0-75, ГОСТ 28853-90, ГОСТ Р 51321.1-2007, ГОСТ Р 51321.2-2009		42 5200	
		код ТН ВЭД России:	
ИЗГОТОВИТЕЛЬ ООО "АВАТРИ" ИНН 667323681. Адрес: 620146, Свердловская обл., г. Екатеринбург, ул. Академика Бардина, д. 28.			
СЕРТИФИКАТ ВЫДАН ООО "АВАТРИ" ИНН 667323681. Адрес: 620146, Свердловская обл., г. Екатеринбург, ул. Академика Бардина, д. 28.			
НА ОСНОВАНИИ Протокола испытаний № 76-42-06-12 от 25.06.2012г. ИЛ ЭТИ ЭКСПЕРТ, рег. № (РОСС RU.0001.21М56) от 08.10.2009, адрес: 144001, РФ, Московская обл., г. Электросталь, пер. Строительный, д. 19			
ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема сертификации: 3.			
Руководитель органа Эксперт		<div style="text-align: center;">  _____ В.И. Погодин начальник, главный </div> <div style="text-align: center;">  _____ В.С. Юденков эксперт </div>	
Сертификат не применяется при обязательной сертификации			

РОССИЙСКАЯ ФЕДЕРАЦИЯ СЕРТИФИКАТ СООТВЕТСТВИЯ (обязательная сертификация)		№ С-RU.ПБ.В.802.43		ТР	
		(обозначение сертификата)		(счётный номер бланка)	
ЗАЯВИТЕЛЬ (полное наименование юридического лица)	ООО «АВАТРИ» ОГРН 1106671011380 630146, Свердловская обл., г. Екатеринбург, ул. Академика Бардина, д. 28 тел.: (343) 359-59-55, факс: (343) 247-92-82				
ИЗГОТОВИТЕЛЬ (полное наименование юридического лица)	ООО «АВАТРИ» ОГРН 1106671011380 630146, Свердловская обл., г. Екатеринбург, ул. Академика Бардина, д. 28 тел.: (343) 359-59-55, факс: (343) 247-92-82				
ОБЪЕКТ ПО СЕРТИФИКАЦИИ (полное наименование объекта сертификации, наименование продукции)	СВЯЗЬ СТО С ОБРАЗНОЙ ОТВЕТСТВЕННОСТЬЮ «ЦЕНТР СЕРТИФИКАЦИИ «НОРМАТЕСТ» , ОГРН 1107746544545, адрес: аккредитация №ТРУ.Р.ПБ.СТ от 25.08.2010 г., 121210 г. Москва, ул. Новорязанская, д. 4, тел.: (495) 974-54-66				
ПОДПИСАТЕЛЬ, ЧТО ПРОДУКЦИЯ (полное наименование юридического лица)	Полномочия управления компаниями АВАТРИ (ШУС, ШУС, ШУП, ШЛМ, ШУП, ШУП) в области предоставления услуг по сертификации серия формы сертификата №280 - ТТ 200.6. 1200 - 57.7.2008 121210 г. Москва, ул. Новорязанская, д. 4 АВАТРИ-ШУП, аккредитация в соответствии с техническими требованиями ТУ 0471-66-793.005.012 Серийный номер:				
СООТВЕТСТВИЕ ТРЕБОВАНИЯМ ТЕХНИЧЕСКОГО РЕГЛАМЕНТА (ТЕХНИЧЕСКИХ РЕГУЛЯТИВОВ)	Технический регламент о требованиях пожарной безопасности (Федеральный закон от 22.07.2008 № 123-ФЗ), ст.ст. 101, 103, п.п. 1.3, 3.4, 3.6				
ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ (ИСПЫТАНИЯ) И ИЗМЕРЕНИЯ	Протокола испытаний № 21ТР.П.13 от 01.03.2013 г., № 21ТР.ЗМС.13 от 28.03.2013 г., ИЛ ООЮ «НОРМАТЕСТ», адрес: аккредитация № ТРУ.Р.П.И.021 от 25.08.2010 г.				
ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ (наименование документов, представленных заявителем в орган по сертификации в качестве подтверждения соответствия продукции требованиям технического регламента (технических регламентов))	Сертификат соответствия системы менеджмента качества серии №ЮЮ-00111 № ИДСТ.Р.П.ОЮЮ.КОИ.018 от 25.03.2013 г., выдан АО «Юг-Кавказ» № ИДСТ.Р.П.3608.0005 от 11.91.2010 г.				
СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ	с 05.03.2013		по 04.03.2018		
	Руководитель (полномочия руководителя) органа по сертификации (наименование, должность, фамилия)				
	Эксперт (эксперты) (наименование, фамилия)				
			М.А. Святитский И.М. Кабанов		

Certificate for low-voltage distribution cabinets

Certificate for automation and control cabinets

Certificate for fire prevention devices







Construction materials

Automation of cement-bonded particle (CBP) boards production. Tyumen

MAIN SYSTEM FUNCTIONS

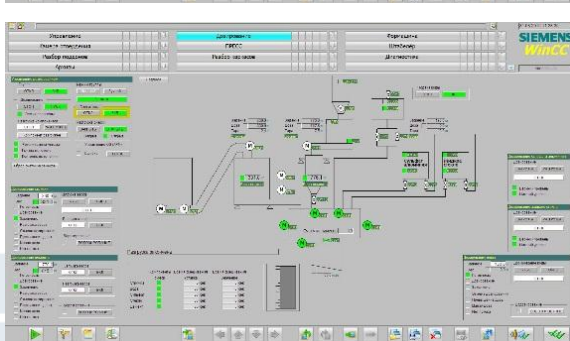
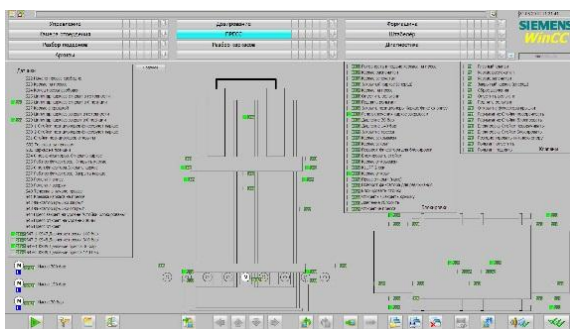
- Material-handling and transportation systems;
- Material mixing and dosing systems
- Pressing, forming and heating systems
- Product handling, transportation and stacking

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- SIEMENS SIMATIC Box IPC WinAC, ET200S;
- Siemens WinCC HMI
- Control cubicles – 8 pcs;
- Local control panels – 5 pcs;
- Digital IOs – 1200 pcs;
- Analog IOs– 8 pcs;
- Weighing modules SIWAREX – 4 pcs;
- VVVF Drives Siemens Sinamics – 20 pcs;
- Soft-Starters Siemens Sirius 3RW – 5 pcs;
- Material-tracking system;
- Press-control package;
- Dosing stations.



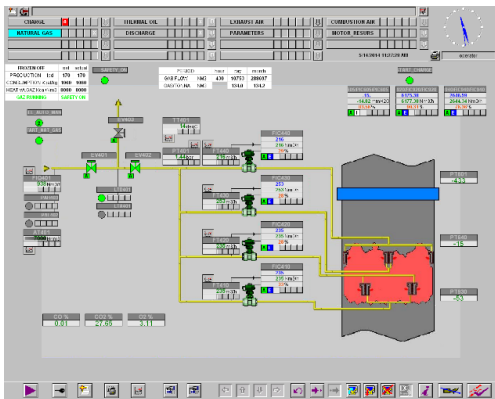
Construction materials

Automation of lime production. Bogdanovich



MAIN SYSTEM FUNCTIONS

- Material handling and dosing systems
- Lime-furnace process controls
- Product handling systems
- Advances diagnostic and reporting features

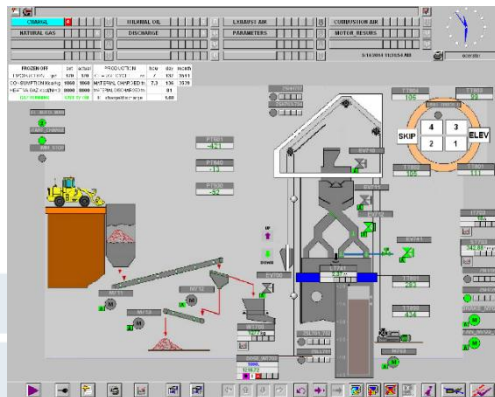


SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- Siemens PCS 7 v 7.1 including software and hardware tools and components
- PLCs Siemens 416-2 with ET 200M distributed IOs



Construction materials

Automation of lime production. Sysert



MAIN SYSTEM FUNCTIONS

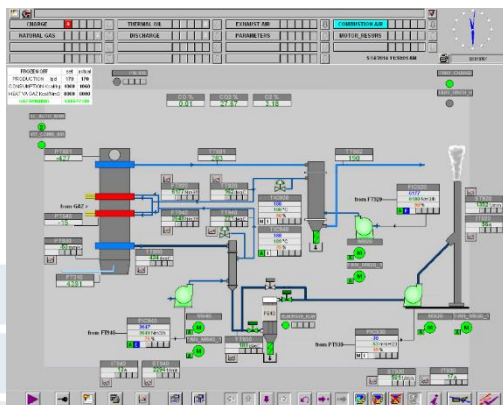
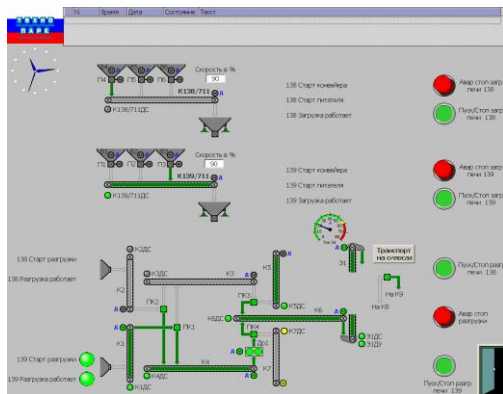
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- Lime-furnace process controls
- Product handling systems
- Advances diagnostic and reporting features

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

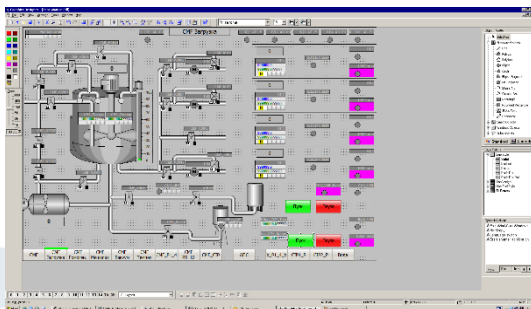
AUTOMATION SYSTEMS AND COMPONENTS

- Siemens PCS 7 v 7.1 including software and hardware tools and components
- Siemens PLCs 416-2 with ET 200M distributed IOs
- VVVF Drives Omron 30-75 kW – 18 pcs
- Digital IOs – 756 pcs;
- Analog IOs– 260 pcs;
- Weighing modules SIWAREX – 8 pcs
- Level measurement SITRANS LR400 HART – 4 pcs.



Household chemicals

Automation of shampoo production. Unilever



MAIN SYSTEM FUNCTIONS

- S13000 reactor control and selection of receipt
- Control of homogenizer
- Control of mixers
- Control of temperature and vacuum processes
- Control of pumping tank level by weight
- Integration with MES of enterprise

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- SIEMENS SIMATIC S7-416-2 + ET200M
- Siemens PCS7
- Siemens Panel PC + WinCC Flexible
- VSD Siemens MICROMASTER 440

Food production



Yogurt production. Danone



MAIN SYSTEM FUNCTIONS

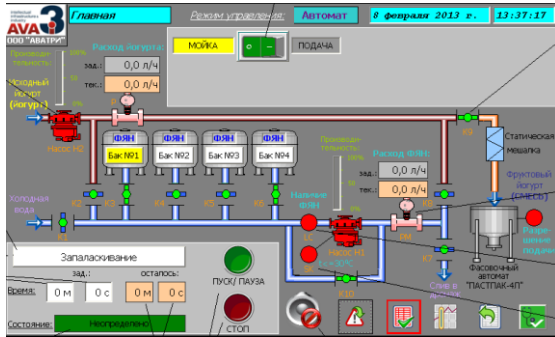
- Automatic control of additives concentration;
- Automatic productivity control;
- Product tracking and reporting;
- Data exchange to superimposed systems;
- Equipment-condition monitoring and reporting system.

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- SIEMENS SIMATIC **S7-1200**
- Touch-control panel 7" SIEMENS TP 700 Comfort
- Control cubicle- 1 pc.;
- VVVF Drives SINSMIX G120C
- Electromagnetic flowmeters SITRANS FC
- Mass flowmeters SITRANS FC Mass
- Conductive level monitor VEGAKON
- Pneumatic drive SY3000.



Metals and Mining

Automation of roll inspection and cooling line. Evraz NTMK



MAIN SYSTEM FUNCTIONS

- Control group drive roller conveyors
- Management of cooling refrigerators
- Control of rolls tilters

SCOPE OF WORK

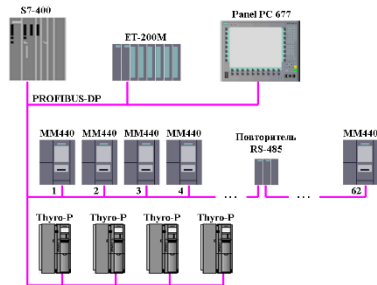
- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- PLC Siemens S7-317-DP + ET200S;
- Operator Workstation - MP377 + WinCC flexible;
- VSD MICROMASTER 440, Siemens - 22 pcs .;
- Digital signals - 550;
- Analog signals - 85;
- Encoders -13 pc.



Automation of wire-galvanization process. NLMK



MAIN SYSTEM FUNCTIONS

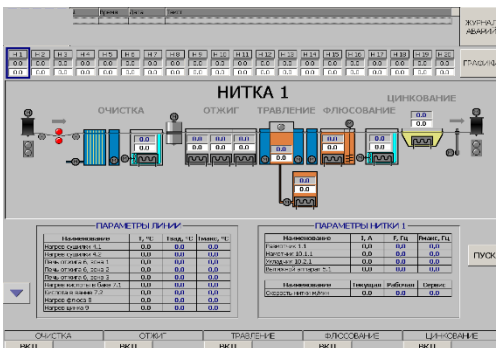
- Control of conveyors, valves and motors
- Wire-line speed master
- Control of temperature of the molten zinc and the annealing furnace
- Control of temperature and level of acid in the pickling and fluxing baths
- Control of drying temperature of the wire

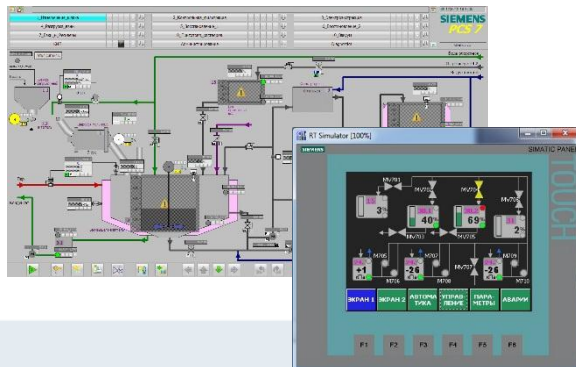
SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- PLC - SIEMENS SIMATIC S7-414-2DP + ET200M
- Operator Workstation - Panel PC 677-15 + WinCC flexible;
- VSD MICROMASTER 440, Siemens - 62 pcs. ;
- Digital signals - 300;
- Analog signals - 32;
- Encoders -20 pcs.
- SITRANS level meters – 5 pcs.





Automation of tellurium production plant. UMMC



MAIN SYSTEM FUNCTIONS

- Automatic control of the tellurium production stages
- Process interlocking and diagnostics
- Recipe management
- Control of the vacuum system

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

PLC - SIEMENS SIMATIC S7-416-3DP + ET200M

Operator Workstation – Siemens PC + PCS7

Node operator panel – Siemens KP700 – 9 pcs.

VSD Sinamics G120, Siemens - 18 pcs .

Digital signals - 800

Analog signals - 200



Automation of exchange station of Emerald mine “K”

MAIN SYSTEM FUNCTIONS

- Management of transport wagons;
- Management of reloading facilities;
- Coordinating the work of the exchange station with the mining lift units.

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

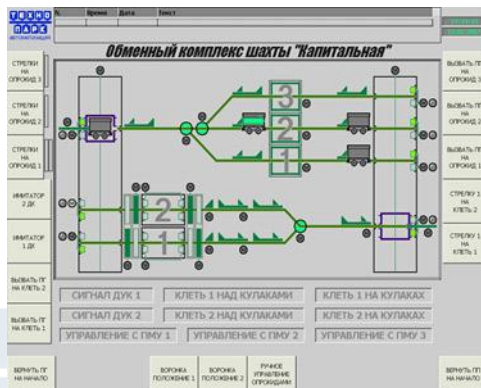
AUTOMATION SYSTEMS AND COMPONENTS

PLC - SIEMENS SIMATIC S7-315-2DP + ET200M

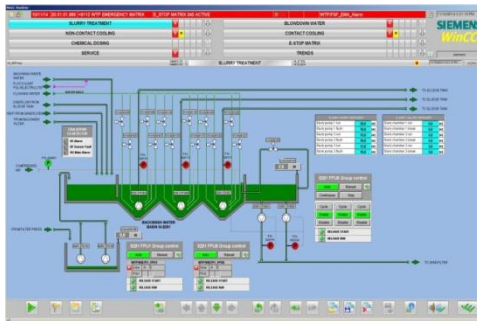
Operator Workstation – Siemens Panel PC + WinCC Flexible

Digital signals - 300

Analog signals - 5



Automation of Steel treatment plants 1-3. Severstal



MAIN SYSTEM FUNCTIONS

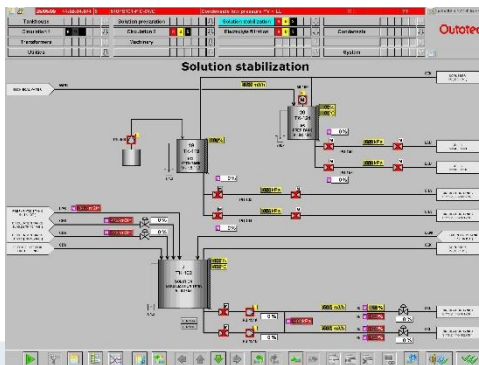
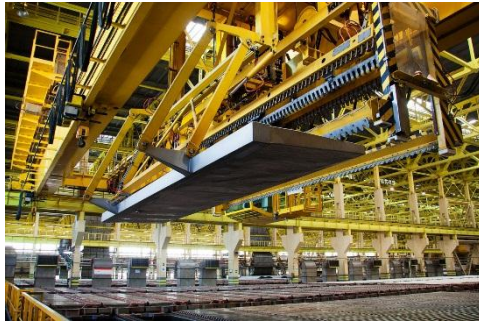
- Process sequences
- Safety interlocking
- Material handling and dosing systems
- Oxygen lance control
- Reporting system and integration with MES

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- PLC - SIEMENS SIMATIC S7-414 + ET200M
- HMI – Simatic WinCC
- VVVF Drives Sinamics – 24 pcs
- Sensors and Actuators: 180 pcs



Automation of copper-refining plant. UMMC



MAIN SYSTEM FUNCTIONS

- Control of Electrolyte solution: preparation, stabilization & filtration
- Control of electrolyte process by transformer-rectifier
- Control of solution circulation, incoming and outgoing
- Control of process water, reagent feed, sumps conditions and utilities
- Monitoring of anode and cathode treating machines, technological cranes, filters
- Communication to MES

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- PLC - SIEMENS SIMATIC S7-417-5H + ET200M
- PCS – Siemens PCS7 2 pcs.
- Redundant Workstations – Siemens
- Redundant Servers – Siemens PC –PC – 2 pcs.
- VSD ACS800, ABB - 80 pcs .;
- Sensors & Actuators by Profibus-PA – 400 pcs.

Automation of Blast furnace 5. UMMC



MAIN SYSTEM FUNCTIONS

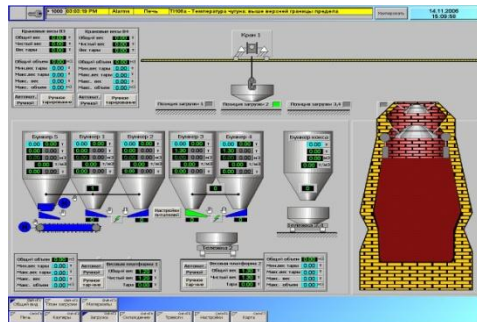
- Increased system reliability
- Safety interlocking
- Process sequences
- Furnace proper, Stoves, Charging control

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- PLC - SIEMENS SIMATIC S7-414 + ET200M
- HMI – Wonderware InTouch
- VVVF Drives Sinamics: 20 pcs
- Sensors and Actuators: 400 pcs



Water treatment

Automation of Water treatment plant. QASCO

MAIN SYSTEM FUNCTIONS

- Process sequences
- Safety interlocking
- Feed water control
- Make-up water control
- Open- and closed cycle water control
- 1000 transmitters, 200 motors
- Interfaces with packages

SCOPE OF WORK

- Project design and software development
- Procurement and cubicle manufacturing
- Installation & Commissioning

AUTOMATION SYSTEMS AND COMPONENTS

- PLC - SIEMENS SIMATIC S7-416H + ET200M
- PCS – Simatic PCS7 v8.0
- VVVF Drives Sinamics: 80 pcs
- Sensors and Actuators: 360 pcs



Advantages for E&A in industrial projects

- Engineering, manufacturing and site services for electrics and automation in accordance with national and international standards;
- Long-term experience in automation of industrial plants;
- Efficient cooperation models for industrial plants;
- Cost effective implementation of high-tech solutions by highly qualified specialists;
- Open automation systems allowing further functionality extension, program upgrade, equipment repairs and replacement;
- All stages of engineering and manufacturing for automation cubicles;
- Cooperation with local design and erection companies;
- Own quick and qualified automation support;
- Availability of spare parts for automation and electrical systems;
- Own manufacturing facilities and spare-parts stock



Our expertise includes wide variety of industries including metals and mining, oil and gas, power generation, construction materials, household chemicals, food and beverages.



ООО ТД Лукойл,
г. Пермь



ОАО «Уральская горно-
металлургическая компания»,
г. Екатеринбург



ОАО "Магнитогорский
металлургический
комбинат", г. Магнитогорск



ОАО "Северсталь",
г. Череповец



ООО Концерн «Калина»



Строительная компания
«Атомстройкомплекс»



ОАО «Каменск-Уральский
металлургический завод»



Группа компаний «RED»



ОАО «Газпром»



ОАО "Уралмашзавод",
г. Екатеринбург



ООО "ПСО Теплит",
г. Березовский



ОАО "Синарский трубный
завод", г. Каменск-Уральский



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