

Automated control systems

SPA Saint-Petersburg Electro Technical Company provides engineering services for development and implementation of automated control systems of different levels:

- Local automated control systems (LACS),
- Automated process control systems (APCS),
- Management information and control system (MICS).

Our experts design not only individual solutions within the set goals, but also develop integrated solutions using process control system technology to provide significant effect from the implementation of any of the equipment or system.

Today we cooperate with leading Russian and foreign manufacturers of industrial automation, and this allows us to design and implement modern intelligent, hi-tech, and reliable systems.

Availability of production facilities, as well as use of self-design products in projects significantly reduce the value of the system, and decrease time for its production and implementation.

St. Petersburg Electrotechnical Company provides a full range of engineering and manufacturing services from design to "turnkey":

- Examination of objects,
- Pre-design research and the development of the APCS,
- Development of the draft terms for the customer,
- Development of the technical project,
- Research carried out if necessary at design stages of APCS,
- R&D on the creation of new automation equipment,
- Development of APCS conceptual design
- Design and engineering works associated with the development of APCS equipment of individual manufacturing (including boards, panels and other non-standard automation equipment),
- Delivery of the equipment,
- Construction works,

- Development of simulation equipment, test stands and polygons for debugging and testing of APCS and its components, as well as simulators for training APCS personnel,
- Development of documentation of building, plumbing, electrical, fire fighting and other related parts of the project,
- Development of construction and installation work projects (PPR) at APCS creation,
- Installation and supervision,
- Commissioning works,
- Works carried out at the stage APCS start up (including commissioning, construction supervision, technical assistance),
- Putting into commercial operation,
- Training,
- Warranty and post warranty service. Ongoing technical and consulting support.

We have 20 years of experience, based on traditional solutions of building of distributed APCS systems and open architecture of programmable controllers, continuous and discrete control automation objects from individual workshop sites to the level of the enterprise as a whole in energy industry, engineering, food, chemical, oil and gas, pulp paper industries, ferrous and nonferrous metallurgy.

Ferrous metallurgy

- Automatic control system of technological process for blast furnace
- Automated Process Control System for the unit of cast iron desulphuration and slag removal
- Automated Process Control System for motor drives of rotation mechanism of mixers of cast iron overflow site of converter processes
- Automated Process Control System for continuous galvanizing unit
- Automated Process Control System for wire brass plating
- Automated Process Control System for burning modes of walking-beam furnace
- Automatic control system of technological process for the line of circle lightening
- Automatic control system for the process of the dosage of raw materials on assembly conveyors of charge branches of sinter plants
- Automatic control system of technological

process for the Site of Concentrate blending

- Automatic control system of technological process for endless 5-stand cold-rolling mill
- Automatic control system of technological process for rolling mill 850
- Automatic control system of technological process for continuous casting machine
- Automatic control system of technological process for reheating furnace of rolling mill 320
- Automatic control system of technological process for sinking-sizing mill
- Automatic control system of technological process for rolling mill 150
- Automatic control system of motor drives of towers
- Automatic control system of motor drives in emulsion cooling system of 4-stand mill
- Automatic control system of technological process for the circulation area of the mandrels in tube-rolling shop
- Automatic control system of technological process for hot-rolling shop
- Automatic control system of technological process for cold rolling mill for rolling square and hexagonal tubes
- Automatic control system of technological process for pump-and-accumulator station of slitting unit
- Automatic control system for blowers of thermal shop and metal coating shop using variable frequency drives
- Automatic control system of technological process for sheet-rolling shop
- Automatic control system of technological process for water recycling pump station
- Automatic control system of technological process for oxygen shop
- Automatic control system mechanisms for converters mechanisms
- Automatic control system of technological process at the "ladle furnace" unit
- Automatic control system of technological process for cross cutting unit
- Automatic control system of technological process for steam superheater unit of heat and power shop

Oxygen converter shop

- Automated system for optimization of sintering machines blowers
- Automatic control system of technological process for sizing mill
- Automatic control system of technological process for water supply shop
- Automatic control system for engines of supplying water to laminar cooling
- The automated control system of main lifting drive of casting and loading cranes
- Automatic control system of technological process for roughing stands
- Automatic control system of technological process for converter rotation drive
- Automatic control system of technological process for the central part of UDCH
- Automatic control system of technological process for twenty-high cold rolling mill

Non-ferrous metallurgy

- Automatic control system for the main drives of negative hardening line 0.2...1.0
- Automatic control system drives of hot rolling mill
- The automated control system of belt conveyor to feed ore concentrate to the furnace KS-3,
- The automated system of pressure stabilization in the pressure tank
- Automatic control system of the compressor station (standard solution)
- Automatic control system of technological process for feeder of chlorinator
- Automatic control system of technological process for the main ventilation unit of the shaft
- Automatic control system of mill mechanisms based on PLC

The oil and gas and petrochemical industry

- Automatic control system for cooling process of oil products at the installations AVO.
- Automatic control system for the unit of loading of light oil products in railway tanks
- Automatic control system for centrifuge drive

- Automatic frequency regulation of blast loads plant of the steam generating units
- System of automated control for variable frequency drives on the unit of sulfuric acid alkylation
- System of automated control for motor drives of screw and cutting knife of granulator
- System of automated control for variable frequency drives of electric motor of air-cooled condenser fans and mixers
- System of automated control for variable frequency drives of polyethylene granulator
- System of automated control for rig compressor
- System of automated control for slurry pumps
- System of automated control for emergency shutdown
- System of automated control for the account of polyethylene film
- Automatic control system process control for tension of a polyethylene film
- Automatic control system for the unit of loading of light oil products
- Automatic control system for the set of heat recovery equipment

Pulp and paper industry

- Automatic control system of technological process for a paper machine
- Automatic control system of technological process for board machine
- Automatic control system of technological process for the dryer
- Automatic control system of pump units of heating networks make up
- Automatic control system of Supercalender
- Automatic control system for KDM drive
- Automatic control system of technological process for the line of wood chips transportation
- Automatic control system of technological process for compressor station
- Automatic control system of technological process for furnish compiler
- Automatic control system of technological process for unit of commercial accounting of the 2nd stream of industry

waste

- Automatic control system of technological process for the pumping station of the 2nd lift

Energy and machinery

- Automatic control system of process of steam generation of PGU with capacity 2x100 t / h of electricity power and 18 MW
- Installation of gas-piston power plant at the gas compressor station
- Automatic control system of water purification of flue boiler
- Automatic control system of technological process for small and large cavitation stand of water turbines laboratory
- System of automated control for lathe slide
- Automatic control system for recovery boiler operation
- Automatic control system of dispatching management of sootblower of P-50 type boiler
- Automatic control system 20 heating zones to the shaft electric furnaces

Mining and coal industry

- System of automated control for electric drives of clay ball screening system
- System of automated control for the main ventilation system of the mine
- Automatic process control system for dosing of raw materials for silicon arc furnaces
- System of automated control for ball mill
- System of automated control for chemical water cleanup
- System of automated control for motor drive of FOK pelletizer
- System of automated control for motor drive of shuttle handler of FOK sintering machines
- System of automated control for motor drive on the 2 conveyor SDF
- Automation of the subsystem "water cycle"
- Automatic control system of technological process for boiler of industrial energy shop

- System of automated control for the motor drive of pumping station
- Automatic control system of technological process for UIR unit

Chemical industry

- Automatic control system of process flow-transport system of the urea shop
- System of automated control for the warm water pumping unit
- System of automated control for the fan drives of distillation columns
- System of automated control for pressure stabilization in the line at the station of the 2nd lift
- System of automated control for VFD on the units of cable plastic mixing

Public utilities

- System of automated control for boiler make-up pump
- System of automated control for pumps of cold and hot water supply of residential houses
- System of automated control for sewage pumping station
- System of automated control for the central heat supply station

Glass industry

- System of automated control for glass forming machine
- System of automated control for thinning machines
- System of automated control for glass sheets cutting mechanism
- System of automated control for the main and auxiliary drive of kiln