

REFERENCE LIST

Engineering Company “RVSA”, Ltd. aims at the integrated approach to task solving in Technological Process Automatic Control System. Systems developed in line with Client’s requirements to the maximum extent. It takes much less time for operating personnel to master implemented equipment.

The main “RVSA”, Ltd. priority in the implementation and development field is reliability and operational effectiveness of an equipment and system on the whole. We implement energy-saving technology effectively.

“RVSA” Ltd. Has as follows:

- **General License of Energy and Political System of Kazakhstan.**
- **Accredited electric laboratory.**
- Needed equipment, devices for carrying out the work and program product for designing and testing.

The main activity of “RVSA”, Ltd. as follows:

- Designing of aggregate control system of different technological processes not only newly-implemented but also their upgradable and reconstructed ones.
- Testing and commissioning of any complicated electric drive engineering package (controlled electric alternating-current and direct-current drive with microprocessor control system)
- Testing and commissioning of electric transmission and distribution plants (any sophisticated protection, including microprocessor protection unit).
- Installation of electric equipment and instruments and automatic equipment.
- Adjustment of control system with programmable controllers, including program update according to the particular technology requirements.

During modernization it carries out as follows:

- Object examination to define necessity and sufficiency of modernization required.

- Providing to the customer with the draft proposal relying on optimum price, effectiveness, quality and reliability of system and equipments relations.
- Execution of technical and detailed engineering with program development for control systems with programmable logic controllers (PLC), programming of control AC and DC drive units with microprocessor control systems, development viewers and diagnostic devices on the basis of SCADA system.
- Selection and supply of required equipment of leading companies specialized in automation, electric drive and electric power supply areas.
- Production of optional equipment, complete devices and control cabinets by motors and actuating units (MCC).
- Equipment installation or supervision installation at site.
- Testing, adjustment and commissioning.
- Warranty and running service, technical consultancy.
- Client's personnel training.

To carry out above-listed works, “RVSA”, Ltd. has the efficient staff with higher education and professional work experience in the field of automatic electric drive, power supply, programming of control system and regulation. Our specialists regularly having training on skill improvement.

“RVSA”, Ltd. has work experience with local makes and foreign equipment, such as: **SIEMENS**, **ABB**, GE, OMRON, JUMO, Moeller, OBEH, Schneider Electric, Rittal, Legrand, YOKOGAWA etc.

Among our customers there is JSC “Arcelor Mittal Temirtau”, “Keratek”, Ltd., JSC “Iliyskiy Cardboard and Paper Plant”, JSC “ZOCM” (NF Machining Plant), Siemens, Ltd., “IKMG”, Ltd. (“Engineering Company Munaj-Gaz”), “Korporaciya Kazakhmys”, Ltd., “KLMZ”, Ltd., JSC “KarCement” etc.

“RVSA”, Ltd. carried out the following works:

- Testing and commissioning of electric equipment for continuous-casting plant. The customer is JSC “ARCELOR Mittal Temirtau”. The frequency-regulated AC drive, control systems, furnace transformers 35 kv.
- Testing and implementation of the electrical equipment for coke oven battery N7. The customer is JSC “Arcelor Mittal Temirtau” Frequency-regulated AC drives, control system.

- Designing, manufacturing, installation, adjustment and commissioning of synchronous motors (CRVD -10/120) digital excitation system for main pump KazTransOil units. General contractor is “IKMG”, Ltd. Synchronous motors with nonbrush excitation system.
- Automation of concrete mixing units with weighing and metering system, SCADA system. Customers are “KKK”, Ltd., “Karaganda Stroy Konstrukciya”, Ltd., “KazTransMetal”, Ltd.
- Adjustment of microprocessor protection units (blocks P3A REX 521 and REM 610 of ABB production), distribution cells 10 kv for the Mining and Processing Complex ”50 Let Oktyabrya” electric power substation of “Copper Technology”, Ltd..
- Designing and commissioning of Kok Tube rope way frequency-regulated drive in Almaty. General contractor is Siemens, Ltd. AC drive with regeneration, SCADa system, the programmable controller.
- Testing and commissioning of electric equipment for brick production line. System debugging of the charging machine. The customer is “Keratek”, Ltd..
- Electric drives reconstruction for JSC “IKBK” paper-cutting machine. Designing, equipment production and supply, installation and adjustment. DC drive on thyristor convertors with micriprocessor control system.
- Drive reconstruction for the spiral planer. The customer is “Korporaciya KazakhMys”, Ltd., “KLMZ”. Designing, equipment supply, installation, adjustment. DC drive, control system.
- Electric equipment reconstruction for mill-roll lathe. The customer is JSC “Arcelor Mittal Temirtau”. (Designing, equipment supply, installation and adjustment. DC drive, Control system on the basis of microcontroller LOGO!.
- Development of band conveyor drive. The customer is “Korporaciya Kazakhmys”, Ltd., “KLMZ”. Designing, equipment supply, installation, adjustment. Microcontrolling system.
- Reconstruction of control system using electric drives and processing installation for the electrotinning aggregate of JSC “Arcelor Mittal Temirtau” in the volume:
 - designing,
 - equipment fabrication,
 - adjustment.

- General contractor is Siemens. Interconnected regulated AC and DC drives, visualization and diagnostic control system, SCADA systems, temperature and coating thickness regulation systems. Product sorting.
- Reconstruction of electric equipment for cement production line No6 of JSC “KarCement” in the volume:
 - installation,
 - non-standard equipment fabrication,
 - equipment supply,
 - adjustment.

AC, DC high voltage and low voltage drives, electric power supply 10/6/0.4 kv.

- Project designing and implementation of electric equipment control systems for the cement grinding shop JSC “KarCement” in the volume:
 - designing,
 - installation and adjustment,
 - cabinet and pulpit fabrication,
 - equipment supply,
- Development and fabrication of devices with digital exciting current controllers of grinders synchronous motors and turbocompressors.
- Reconstruction of electric equipment control system for the compressor shop of JSC “KarCement” with change of synchronous motors exciters in the volume:
 - designing,
 - installation,
 - equipment fabrication and supply,
 - adjustment.
- The project of lighting and power supply system reconstruction for JSC «CentralAsiaCement».
- Reconstruction of recovery unit control system in the oxygen shop No2 of JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication,
 - adjustment.

The main contractor Siemens, Ltd. Control, visualization and diagnostic system, SCADA system, regulating system.

- Development of high speed operation control system for endless cold rolling mill stand No3 of JSC “Arcelor Mittal Temirtau”. Designing, producing of electric drive engineering package, installation and adjustment. SCADA systems, programmable controllers, visualization and diagnostics.
- Reconstruction of the cold rolling mill stand No3 coiler drive of JSC “Arcelor Mittal Temirtau”. Designing, producing of electric drive engineering package, installation and adjustment. The high power DC drive, high requirements to rapid action of parameter accuracy maintaining.
- Reconstruction of hot rolling mill stand drives in the finishing train of JSC “Arcelor Mittal Temirtau”. Designing, producing of electric drive engineering package, installation and adjustment. The high power DC drive, high requirements to rapid action of parameter accuracy maintaining and reliability.
- Modernization of “EBNER” annealing furnace control system. The customer is JSC Balkhash “NF machining Plant”. Simatic S5 controllers change of out-of-date construction to the modern Simatic S7 controller with the reprogramming. Creating of new visualization system.
- NC system SINUMERIK implementation of SIEMENS production. Milling machines and stamping-and-punching units.
- Reconstruction of raw-coalfeeder electric drives for boiler units No1,3,6 of TPP-2(Almaty). Changing direct-current drives to frequency alternating-current drives, microcontroller implementation.
- Testing and commissioning of electrical equipment for Bar mill. The customer JSC “ARCELOR Mittal Temirtau”. Frequency-regulated AC drives, control system.
- Reconstruction of High-pressure steam generator control system of Karaganda state district power plant-1, the boiler No11. The customer is "Bassel Group LLS", Ltd., in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.
- Main drives and control system reconstruction for temper mill TM-1700 in CRM-2. The customer is JSC “Arcelor Mittal Temirtau” in the volume:

- project development,
 - equipment fabrication and supply,
 - adjustment.
- Modernization of strip profile control system at six-stand mill 1400 CRM-3 JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.
 - Modernization of control and visualization system for gas boosting stations - 2,3. The customer is JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.
 - Testing and commissioning of electric equipment for Astana TPP-2.
 - Modernization of converter turning electric drive. The customer is JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.
 - Implementation of excitation system SST-2000-250-2,5 for turbo-generator-3 at TPP-TBS. The customer is JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.
 - Testing and commissioning of electrical equipment and instruments of turbo-generator-5 at TPP-TBS, including excitation system. The customer is JSC “Arcelor Mittal Temirtau”.
 - Implementation of process parameters control and regulation system in Lime shop. The customer is JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.

- Implementation of automated system of emergency power supply and control of actuators at gas facilities of the plant. The customer is JSC “Arcelor Mittal Temirtau” in the volume:
 - project development,
 - equipment fabrication and supply,
 - adjustment.

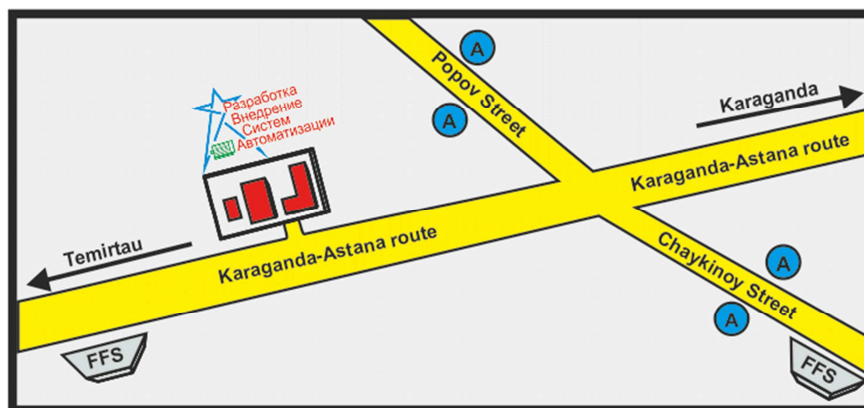
“RVSA” Ltd., has partner’s agreements with the following firms:

- SIEMENS Ltd. (Almaty) for services related to supply of equipment and components for variable speed drive and control system.
- ABB Ltd. (Almaty) for services related to supply of equipment and components for variable speed drive and control system.
- JSC“Kazelectromontazh” for services related to installation of electrical equipment and wiring, supply of electrical items and complete substations as well as distribution substations .
- “ELKON” Ltd., - complete devices fabrication.
- “UMEF” Ltd.,- cabinet, panels, pulpits and other metal construction fabrication.
- “TemirtauElectroMontazh” Ltd., - electrical installation work, cable metal construction fabrication.
- “SAEM” Ltd., - electrical installation work, installation of instruments and automation equipment.

The enterprise guarantees performance standards, professionalism, competence, friendliness and openness in relation to their partners and customers.



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