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REFERENCE LIST

Metallurgy, mining and processing industry

RUSAL Kranoyarsk aluminum smelter OAO, Krasnoyarsk

1997	Control system for utilization boiler-house of the anode mass workshop
1998	Control system for cold-ramming mixture
1999	Automation systems for 3 electrolysis potrooms (132 control cabinets)
2000	Automation systems for 5 electrolysis potrooms (218 control cabinets)
	Supervision system for 19 gas-cleaning units
2001	Modernization of 8 electrolysis potrooms (208 control cabinets)
	Designing and delivery of control cabinets for PTVM boiler house
2002	Delivery of automation system for 3 electrolysis potrooms (144 control cabinets)
	Designing, equipment delivery, start-up and adjustment of foundry Nr.3 control system, casting cascades Nr. 1,2,3
2003	Designing, equipment delivery, start-up and adjustment of foundry Nr.3 control system, casting cascade Nr. 4
2004	Designing of the stud paste drying and crushing zone for anode mass workshop
	Designing, equipment delivery for automation control and metering system of liquid chlorine and argon vaporization unit
	Equipment delivery for automation system of gas-purifying unit Nr. 1-4
	Expansion of 4 electrolysis potrooms (8 control cabinets)
2005	Automation systems for 4 electrolysis potrooms (180 control cabinets)
	Equipment delivery for automation system of gas-purifying unit Nr. 21, 23
2006	Delivery of control system cabinets, gas purifying facilities Nr. 23-1, 23-2
	Delivery of control system cabinets, gas purifying facilities Nr. 14-1, 14-2
	Delivery of experimental cabinets equipment for aluminium electrolysis potroom (2 control cabinets)
	Equipment delivery for 3 aluminium electrolysis potroom (6 control cabinets)

RUSAL Bratsk aluminum smelter OAO, Bratsk

1998	Equipment delivery for modernization of anode mass workshop control system: migrating to high-speed bus Industrial Ethernet, replacement of COROS LS-C, the service and visualization system, with an up-to-date COROS LS-B system; software installation; training courses; technical support
1999	Development of the floor-rail machines automation system
	Development of automation system for underpin corks production
2000	Delivery of cabinet equipment for senior masters workstations
2001	Automation systems for 3 electrolysis potrooms (150 control cabinets)
	Designing and delivery of automation system for finished production shipment
	Designing, equipment delivery, start-up and adjustment of PCS for anode mass workshop utilization boiler room
	Delivery of foundry automation system
	Automation system for the purifying plant
2002	Level sensors delivery to pitch warehouses
	Delivery of automation systems for 2 electrolysis potrooms (100 control cabinets)
	Equipment delivery for anode mass workshop automation system
	Designing, equipment delivery, and start-up and adjustment of the process control system for calcinations chamber in the anode mass workshop
	Designing, equipment delivery, and start-up and adjustment of process control system for the alumina warehouse
2003	Start-up and adjustment of PCS for utilization boiler chamber in the anode mass workshop
	Delivery of control cabinets for tube transfer system and evaporation unit
	Delivery of the automation system for 2 electrolysis potrooms (100 control cabinets)
2004	Automatic control system of the foundry rotary mixer
	Automation system for gas-purifying unit
	Delivery of automation systems for 2 electrolysis potrooms (100 control cabinets)
2005	Modernization of the field equipment of anode mass workshop
	Delivery of automation systems for 2 electrolysis potrooms (97 control cabinets)

	Replacement of controllers in anode mass workshop
2005-2006	Designing, software development, equipment delivery, start-up and adjustment of PCS for rolling mill Nr.1 in foundry Nr.1

RUSAL Novokuznetsk aluminum smelter OAO, Novokuznetsk

1998	Equipment delivery for control system modernization of anode mass workshop: replacement of COROS LS-C, the service and visualization system, with COROS LS-B, an up-to-date system; training courses
2004	Delivery of automation systems for 2 electrolysis potrooms (92 control cabinets)
2004-2005	Modernization of foundry Nr.2 Designing of automation control and metering system of the liquid chlorine and argon unit

West-Siberian steel corporation, Novokuznetsk

1995-1998	Equipment delivery for control systems: blast furnace Nr.3, sintering plant
1999	Equipment delivery for control systems: oxygen and conversion production, heating furnace 1A, training courses, technical support
2000	Equipment delivery for control systems: oxygen unit Nr.6, converters Nr.3 and 4, blooming, technical support
2001	Delivery of control and measuring instrumentation system for blast furnace Nr.1, converters Nr.3,5 control system Delivery of ACS for semifinishing rolling mill, technical support
2002	Equipment delivery for air heater Nr.12 Equipment delivery for "humidity" subsystem Equipment delivery for PCS of oxygen-converter plant Nr.1 Equipment delivery for reconstruction of blast furnace Nr.3 Equipment delivery for continuous casting machine Modernization of 4 KKC Nr. 2 tuyere PCS, equipment delivery Gas plant, delivery of automation equipment Horizontal stand, delivery of automation equipment
2003	Delivery of automation equipment and SIMOREG DC MASTER drives for casting-ladle and hot-metal transfercars Delivery of pressure sensors SITRANS P for energy accounting Supply of ultrasonic level meters AIRANGER, ECHOMAX for subsystem of raw materials stock estimation in KHP bins Delivery of equipment for monitoring and cutting PCS on mill Nr. 450
2004	Air separation units Nr. 1 and 9, equipment delivery Reconstruction of PCS for blast furnace Nr. 2 (designing, equipment delivery, installation) "Energy accounting" PCS (delivery of pressure sensors Sitrans P DS III) "Furnace-ladle" installation, delivery of automation equipment Designing and delivery of integrated gas analysis system for blast furnace Nr.2
2005	Reconstruction of PCS for blast furnace Nr. 3 (designing, equipment delivery, installation), gas analysis for blast furnace Nr.3 PCS for boiler Nr.5 of heat power plant
2005	Benzene refining plant, delivery of control and measuring instrumentation
2006	Hydraulic unit project for blast furnace Nr.1

Novokuznetsk Iron and Steel plant

2003	Equipment delivery, designing, start-up and adjustment works on ACS of rail straightness control
2004	Designing of the quenching machine PCS

Uralmash-Metallurgical Equipment OOO

2003	Documentation development, delivery and installation of lance manipulator control cabinet
2004	Documentation development, delivery and installation of control cabinets for the object: Heating facilities department, "NKMK" OAO Documentation development, delivery and installation of control cabinets for the object: Continuous casting machine Nr.5 for "Severstal" OAO, Cherepovets
2005	Documentation development, delivery and installation of control cabinets for the object: Side trimming shears, "Samara metallurgic plant" OAO, Samara, Mill 2800 Documentation development, delivery and installation of control cabinets for the object: Continuous casting machine Nr.1 for "Severstal" OAO, Cherepovets

Incorporated company Siberian aluminum, Sayan foil plant, Sayanogorsk

2005	Designing, equipment delivery, installation, start-up and adjustment of continuous caster line PCS
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Kremnii ZAO, Shelekhov

2000-2001	Designing, equipment delivery, start-up and adjustment of PCS for ore-thermal furnace Nr.4
2002	Designing, equipment delivery, start-up and adjustment of PCS for fusion mixture preparation and feed Designing, equipment delivery, and start-up and adjustment of PCS for ore-thermal furnace Nr.6
2004	Designing, equipment delivery, start-up and adjustment of PCS for ore-thermal furnace Nr.4
2005-2006	Designing, equipment delivery, start-up and adjustment of PCS for ore-thermal furnace Nr.4
2006	Automated batching system of furnace charge components ETO-1

Usolmash OAO, Usolye-Sibirskoye

2002-2003	Automated control systems for flotation machines (FPM-45; FPM-6,3CM; FPM-3,2; FM-16B and others)
2006	Delivery of automated control systems for flotation machines

Nadezhdinskoye, Bodaibo region

2003	Automated control system of the gold extracting factory
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Amurmetal OAO, Komsomolsk-on-Amur

2006	Integrated control system for normalizing-quenching furnace in sheet-rolling plant: equipment delivery, software development, supervisory installation, start-up and adjustment, training courses, technical support
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RUSAL SAYANAL OAO, Sayanogorsk

2006	Modernization of water preparation refrigerating unit: equipment delivery, software development, installation, start-up and adjustment, training courses, technical support
2006	Modernization of control system for continuous casting line: equipment delivery, software development, installation, start-up and adjustment, training courses, technical support

VOEST – ALPINE Industrieanlagenbau OOO, Yekaterinburg

2006	Modernization of control system for blast furnace Nr.1 on "Metallurgical plant named of Serov" OAO: delivery of automation cabinets and power control cabinets, installation, start-up and adjustment
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NTL TOMS OOO, Irkutsk

2006	Delivery, software development for "Tardan" PCS
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Montazh Kran Service OOO for IrkAZ OAO, Shelekhov

2006	PCS for arc steel-smelting furnace DS-0,5 (equipment delivery, project, software, installation, start-up and adjustment)
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Buryatzoloto OAO, Ulan-Ude

2006	Development of project documentation, software, program and operational documentation for compressor station ACS, comprising 4 compressor stations series 2VM4-27/9 on "Irokinda" mine
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Tyazhpromservice ZAO, Novokuznetsk

2006	Equipment delivery for air heater Nr.3 in blast furnace Nr.1
	Equipment delivery for automated control system of PCHK RBS drive, "NKMK" OAO
	Equipment delivery for automation of skip and bell hoist, DP Nr.5, "NKMK" OAO

Projects under development**Khakassia aluminium plant OOO, Sayanogorsk**

2005-2007	Designing, software development, equipment delivery, start-up and adjustment of PCS for plant infrastructure objects, automated power supply control system
2006-2007	Delivery of automation equipment for 2 aluminium electrolysis potrooms (168 control cabinets)

NPC MGD

2005-2006	PCS for tilting mixer (2 units) for NkAZ. Project development, equipment delivery, start-up and adjustment
	PCS for tilting mixer with capacity 100 tons (2 units) for KrAZ. Project development, equipment delivery, start-up and adjustment
2005-2007	PCS for tilting mixer (4 units) for IrkAZ. Project development, equipment delivery, start-up and adjustment

MMC Norilsk Nickel

2005-2007	Creation of automated system for supervisory control of heat supply networks and pumping stations, "Norilskenergo"
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Uralmash-Metallurgical Equipment OOO

2006-2007	Equipment delivery, technical documentation development, start-up and adjustment of ACS for continuous casting machine Nr1, ACS for continuous casting machine Nr3, ACS for continuous casting machine Nr4, Severstal OAO, Cherepovets
2007	Equipment delivery, technical documentation development, start-up and adjustment of PCS for zirconium sponge block cutting, "Chepetskiy mechanical plant" OAO, Glazov

PromTrade Intell

2006-2007	PCS for tilting mixer with capacity 75 tons (2 units) for KrAZ. Project development, equipment delivery, start-up and adjustment
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Tyazhpromservice ZAO, Novokuznetsk

2006-2007	Delivery of automation equipment for electric drive of converter Nr.4 KKC2, "ZSMK" OAO
2007	Delivery of automation equipment for thyristor electric drive of skip and bell hoist, DP 1, "NKMK" OAO

RUS-Engineering OOO, KF ID ITC, Krasnoyarsk

2007	Automated gas flow control system (ASUGO) for 4 electrolyzers of "SAZ" OAO. Designing, equipment delivery, installation, start-up and adjustment
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IRVIK OOO

2007	Automated control system for mechanical-draft tower of "KhAZ" OAO. Designing, equipment delivery, installation, start-up and adjustment
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RUSAL Novokuznetsk aluminum smelter OAO, Novokuznetsk

2006-2007	Chlorine and argon evaporation plant PCS for provision of liquid chlorine and argon, feeding to degassing units in foundry Nr.2. Project development, equipment delivery, software
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RUSAL Krasnoyarsk aluminum smelter OAO, Krasnoyarsk

2007	Equipment delivery for expansion of 3 aluminum electrolysis potrooms (8 control cabinets)
	Delivery of cabinets for control system, gas-purifying system Nr.12

RUSAL Sayanogorsk OAO

2007	Equipment delivery for organization of PA-400 technology experimental ground for aluminium electrolysis (3 control cabinets)
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Sincerely
commercial director

A.A. Rakshin