



Test facility:

Laboratory of general industrial and explosion-proof equipment –
is one of the most dynamically developing testing centers in Russia.

Hydraulic and pneumatic tests



The management of the testing laboratory



Melkumov Artur Alexandrovich

Head of the Testing laboratory



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Deputy Head of the Testing Laboratory



**Certificate of accreditation of
the Testing Laboratory
No. RA.RU.21NC26**



**Hydraulic and
pneumatic tests**



**Video presentation
of the Testing Laboratory**

Testing complex for hydraulic and pneumatic tests

Hydraulic and pneumatic tests are tests conducted to check the strength and density of the base metal of equipment, welds of various types of equipment.

In the Technoprogress Testing Laboratory, a special technical room was designed and implemented that meets all safety standards and requirements within the framework of hydraulic and pneumatic tests:

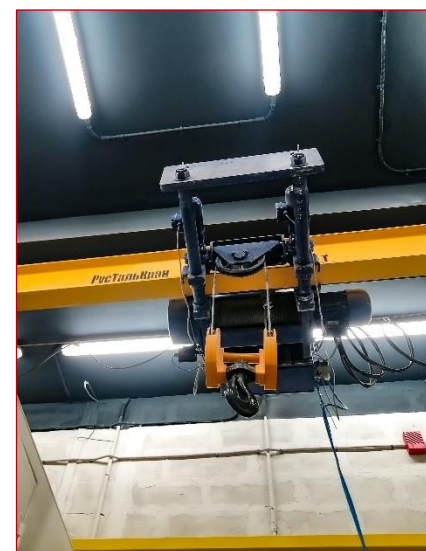
- single-girder overhead crane with a lifting capacity of 5 tons;
- armor plating with an armored window.



Single-girder overhead crane.



The operator's area of control of the test complex



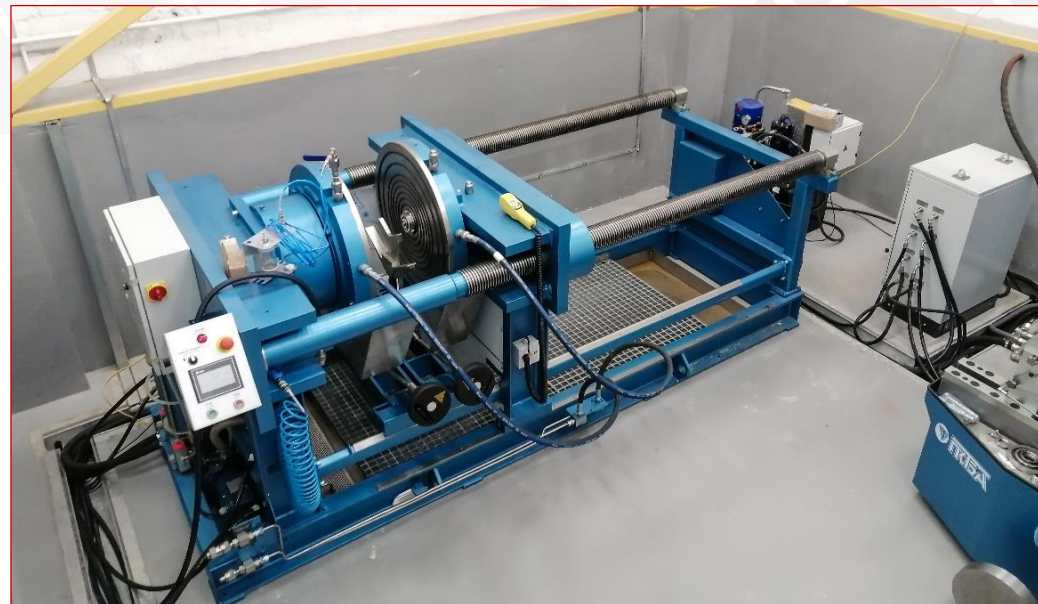
Armor plating with an armored window.

Testing complex for hydraulic and pneumatic tests

Horizontal bench:

The bench for hydraulic and pneumatic tests in a horizontal position is designed for testing pipe fittings with a nominal diameter from DN 10 mm to DN 600 mm, with the maximum possible supply pressure up to Pmax 45 MPa during hydraulic tests, and up to Pmax 35 during pneumatic tests.

Nominal diameter of the valve DN*, (NPS)	Maximum pressure of hydraulic tests Pmax, MPa (bar)	Maximum pressure of pneumatic tests Pmax, MPa (bar)
От 10 (3/8) до 40 (1 1/2)**	до 45,0 (450)	до 35,0 (350)
От 50(2) до 150 (6)	до 45,0 (450)	до 35,0 (350)
200 (8)	до 45,0 (450)	до 35,0 (350)
250 (10)	до 41,0 (410)	до 35,0 (350)
300 (12)	до 28,5 (285)	до 28,5 (285)
350 (14)	до 22,0 (220)	до 22,0 (220)
400 (16)	до 16,5 (165)	до 16,5 (165)
500 (20)	до 11,0 (110)	до 11,0 (110)
600 (24)	до 7,5 (75)	до 7,5 (75)



Bench for hydraulic and pneumatic testing of pipe fittings in a horizontal position.



A pneumatic hydroelectric power station for hydraulic and pneumatic testing.



Compressor unit.



Recycling water supply station V Tank=1.5 m3.

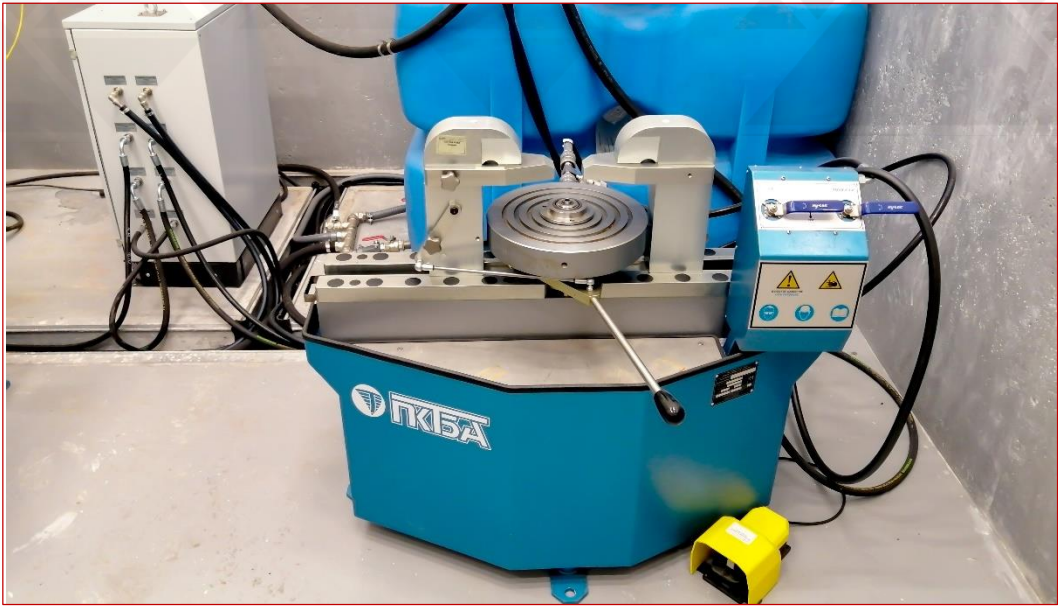
Testing complex for hydraulic and pneumatic tests

Vertical bench:

The safety valve test and adjustment stand is designed for setting and testing safety valves with nominal diameters from DN 10 mm to DN 400 mm, with the maximum possible supply pressure up to Pmax 45 MPa for hydraulic tests, and up to Pmax 35 for pneumatic tests.

The bench has the ability to clamp fittings up to DN400.

Nominal diameter of the valve DN, mm (NPS, inch)	Maximum pressure of hydraulic tests Pmax, MPa (bar)	Maximum pressure of pneumatic tests Pmax, MPa (bar)
10-80 (3/8-3)	45	35
100 (4)	40,5	35
125 (5)	25	25
150 (6)	19	19
200 (8)	10,5	10,5
250 (10)	7	7
300 (12)	4,5	4,5
350 (14)	3,5	3,5
400 (16)	2,5	2,5



Test bench for testing and adjusting safety valves.



A pneumatic hydroelectric power station for hydraulic and pneumatic testing.



Compressor unit.



Recycling water supply station
V Tank=1.5 m3.

Testing complex for hydraulic and pneumatic tests

Hydraulic pneumatic tests of the following equipment are carried out in the Technoprogress testing laboratory:

Control valves

Check valves

Shut-off valves

Safety valves

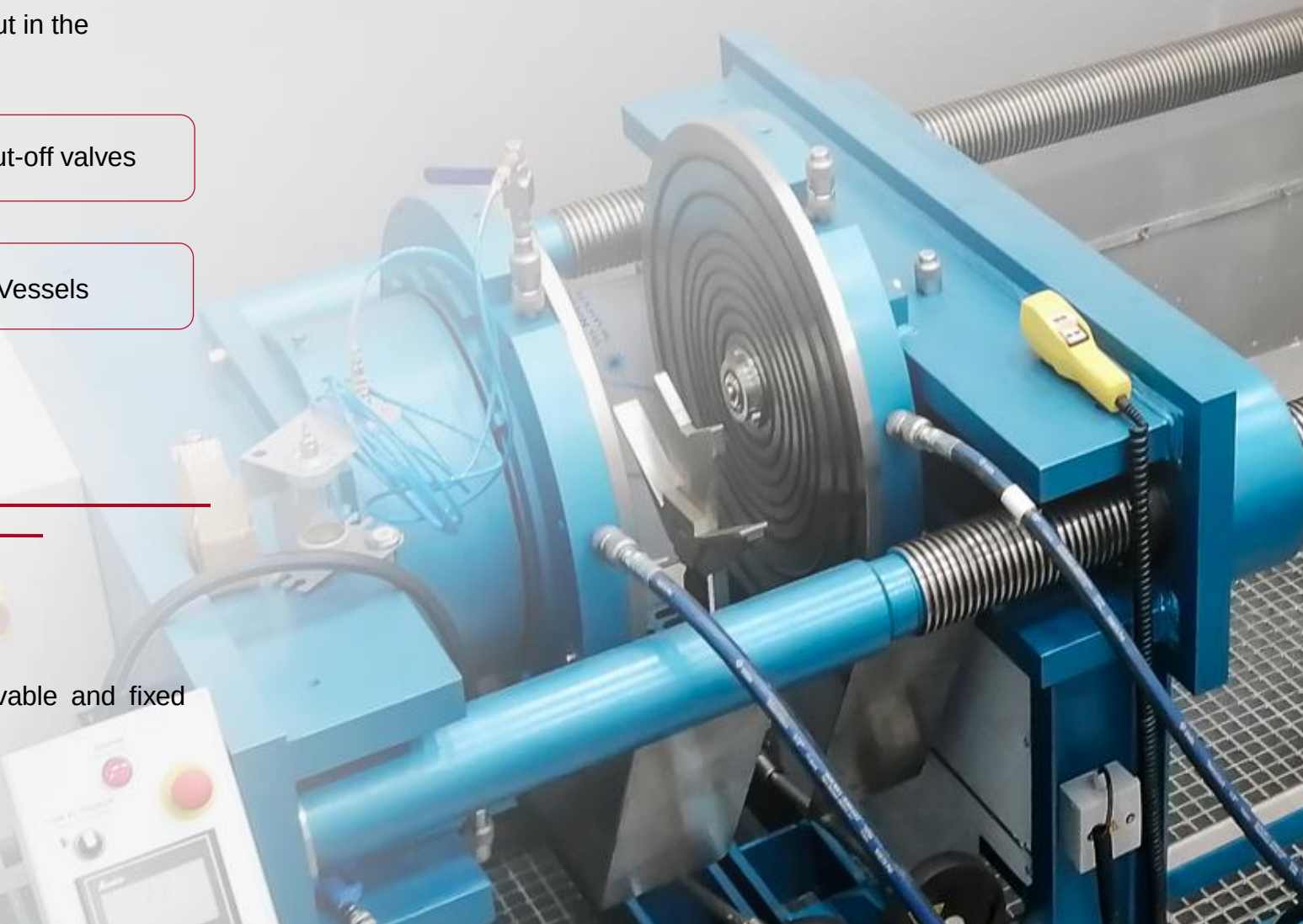
Pipelines

Vessels

Other equipment operating
under excessive pressure

Test methods:

- strength and density of the material of body parts and welds;
- tightness relative to the external environment for sealing movable and fixed joints;
- gate sealability;
- serviceability.



TESTING LABORATORY OF GENERAL INDUSTRIAL AND EXPLOSION-PROOF EQUIPMENT TECHNOPROGRESS

WHY WE ARE TRUSTED

➤ Accredited testing laboratory
(certificate of accreditation RA.RU.21NC26)

➤ The operational timing of the tests

➤ Conducting field tests on the territory of the manufacturer, at the sites of future product operation

➤ Certified Test Engineers

➤ Own test benches and instruments

➤ 20+ years of experience

➤ Cooperation with all regions of the Russian Federation and abroad

➤ All work is carried out on its own, in accordance with the regulatory and technical documentation

Completed projects



Zhejiang Hangshi Electric Co., Ltd
HASHIDO 浙江航仕电气有限公司
ZHEJIANG HANGSHI ELECTRIC CO., LTD.
<http://www.chinl.cn>

The company is located in Yueqing City, which is the largest production site for the world's most famous manufacturers of electrical equipment and components. The company specializes in the manufacture, production and sale of: waterproof connector for nylon cable, stainless steel cable, waterproof connector for corrugated pipes, etc.

Services rendered:

Conducting certification tests of connectors and contact elements for wires and cables in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



Transneft Verkhnyaya Volga JSC
ТРАНСНЕФТЬ ВЕРХНЯЯ ВОЛГА

A subsidiary of Transneft PJSC. The main objectives of the company are the reception and transportation of oil and petroleum products through main oil pipelines and oil product pipelines to refineries in Central Russia and for further export supplies.

Services rendered:

Conducting certification tests of single-container installations for the introduction of suspension additives into main oil product pipelines and oil pipelines, converters and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



Transneft Siberia JSC



It is a large subsidiary of the Russian oil transportation monopoly PJSC Transneft and occupies an exceptional place in the economy of the fuel and energy complex of Western Siberia.

Services rendered:

Conducting certification tests of pipeline cleaning control devices and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



STANLEY LLC



The company is a leading Russian enterprise specializing in the design and manufacture of devices such as pressure sensors, liquid level sensors, spark protection barriers, etc.

Services rendered:

Conducting certification tests of energy barriers of spark protection in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



GAZSTROYPROM JSC



Gazprom is the general contractor for the construction of facilities, the parent company of a multidisciplinary holding company that performs a full range of work within the framework of projects for the extraction, processing and transportation of natural gas.

Services rendered:

Conducting certification tests of pipelines in order to confirm compliance with the Technical Regulations «On the safety of equipment operating under excessive pressure»: «TR CU 032/2013».



KST ENERGY ENGINEERING LLC



A Russian manufacturing and engineering company with a full range of competencies and resources for the implementation of integrated solutions in the field of energy and automation of large industrial and infrastructure facilities.

Services rendered:

Conducting certification tests of complete low-voltage control and protection devices and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».

Completed projects



YUZHNO-URALSKY VESOVOY ZAVOD LLC



Russia's largest manufacturer and supplier of electronic industrial scales, strain gauges, weight indicators, and reference weights.

Services rendered:

Conducting certification tests of explosion-proof scales in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



TOMSKY ZAVOD ELEKTOPRIVODOV JSC



The leader of environmental activities among service organizations of Transneft PJSC. A modern manufacturing enterprise that manufactures and supplies electric drives for pipe fittings, conducts warranty and service maintenance of its own products

Services rendered:

Conducting certification tests of control units, electric drives, remote controls and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



NEW EUROART S.R.L.



Since 2001, New Euroart has been working in the field of construction and installation of industrial enterprises. Works with international customers, leaders in the oil and gas sector.

Services rendered:

Conducting certification tests of fuel gas separators, filters, and vessels operating under excessive pressure in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011»; «On the safety of equipment operating under excessive pressure»: «TR CU 032/2013».



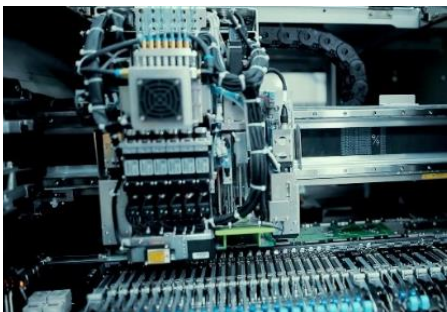
MIYAWAKI Inc.



Specializes in the production of condensate drains, steam reduction valves, steam and water mixers and other equipment used in a wide variety of industries.

Services rendered:

Conducting certification tests of equipment for the preparation and purification of liquids, industrial pipeline fittings in order to confirm compliance with the Technical Regulations "On the safety of machinery and equipment»: «TR CU 010/2011».



PROM-TEK LLC



Manufacturer of general purpose automation equipment, electrical devices and components for industrial electric heating.

Services rendered:

Conducting certification tests of spark protection barriers, linear inputs, adapters, plugs in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



LIPETSK ELEKTRODVIGATEL LLC

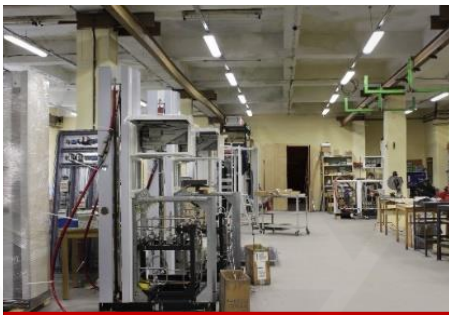


It was organized in 2020 as a company focused on the management of production processes and the modernization of electric motors. LED is a production association that consolidates the assets of manufacturing plants of such brands as Genbord and ZVI.

Services rendered:

Conducting certification tests of explosion-proof asynchronous electric motors in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».

Completed projects



LENPROMAVTOMATIKA LLC



Actively participates in the implementation of the State Program of the Russian Federation to expand the use of natural gas as a motor fuel. Successfully implements projects for the construction of CNG and LNG gas filling infrastructure in Russia and abroad.

Services rendered:

Conducting certification tests of intrinsic safety barriers in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



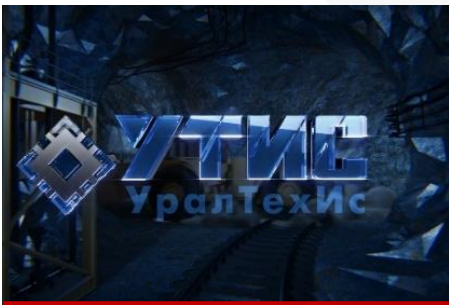
PRESSOVAC Oy Ltd



He has more than twenty-five years of experience in the manufacture of equipment for cleaning ventilation ducts. Pressovac equipment for cleaning, inspection and disinfection of ventilation ducts has gained a reputation as a high-quality and reliable cleaning tool throughout Europe, Asia, the USA and Russia.

Services rendered:

Conducting certification tests of pneumatic brush installations, vacuum installations and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



URAL TECHNOLOGICAL INTELLIGENT SYSTEMS LLC



An enterprise engaged in the development and manufacture of electronic equipment products for the needs of mining enterprises. For more than 10 years in the market of automation systems and mining and underground communications. UralTehIS LLC systems are used in more than 80 mines and mines of the Russian Federation, Kazakhstan, and Belarus.

Services rendered:

Conducting tests of mobile devices, personnel and transport registration devices, chargers.



TRANSNEFT OIL PUMPS JSC



The main focus of the plant is the production of highly reliable, energy-efficient and quality-compliant pumping equipment and components in order to ensure uninterrupted transportation of petroleum products.

Services rendered:

Conducting certification tests of oil pumps and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



TURBOTEKT SAINT PETERSBURG JSC»



The main focus of the company's work is the development and manufacture of wet cleaning systems for axial compressors, oil filling plants and other equipment for servicing compressor and electric stations without stationary oil supply systems.

Services rendered:

Conducting certification tests of oil oxidizers, supercharger flushing devices in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



Foreign RUSBELGAZ LLC

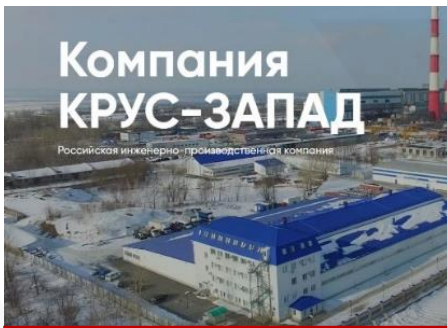


A company that specializes in the development, production, supply and engineering support of modern gas metering devices and systems (nodes).

Services rendered:

Conducting certification tests of ultrasonic gas meters in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011»

Completed projects



KRUS-ZAPAD COMPANY LLC



It is a Russian manufacturer of automated industrial electric heating systems, including those based on the SKIN effect.

Services rendered:

Conducting certification tests of complete low-voltage distribution and control devices and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011»..



FORES ENGINEERING SRL.



A supplier of high-tech industrial solutions for the oil and gas, petrochemical, refining, chemical and energy sectors. The company develops and manufactures automation and telecommunications systems, skid & packages systems, and provides a wide range of after-sales services - from commissioning to maintenance and spare parts supply.

Services rendered:

Conducting certification tests of hydraulic power units, control panels, diesel fuel systems and other equipment in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



RUST-95 JSC



A manufacturing company that occupies a leading position in the Russian market of high-quality shut-off and control pipe fittings.

Services rendered:

Conducting certification tests of ball valves, pressure regulators in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



SCHOLTEN PANELEN B.V.



One of the largest panel manufacturers in the Netherlands. The company designs and manufactures control panels for electrical engineering for industry, machine builders, governments, energy companies and end users working in various sectors and industries.

Services rendered:

Conducting certification tests of leak detection systems in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



PARTNER LLC

The main focus of the company's work is the development and manufacture of wet cleaning systems for axial compressors, oil filling plants and other equipment for servicing compressor and electric stations without stationary oil supply systems.

Services rendered:

Conducting certification tests of pumping units, devices for the production of fine water mist in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011»; «On the safety of machinery and equipment»: «TR CU 010/2011».



LAUMAS ELETTRONICA S.R.L.



The company develops and manufactures weight load cells, measuring transducers and weight indicators, as well as all components for accurate, reliable and innovative weighing. LAUMAS has gained international fame and operates in more than ninety countries around the world.

Services rendered:

Carrying out certification tests of load cells, junction boxes, balance indicators in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».

Completed projects



«REBAR PLANT» FORUM» LLC



It has its own production facilities, which house a wide range of equipment for the full production cycle of pipeline fittings.

Services rendered:

Conducting certification tests of industrial pipeline fittings in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



SPIE NEDERLAND B.V.



It offers a variety of spare parts and accessories for industrial equipment. Their range includes a wide range of products such as electrical components, cable systems, lighting equipment, security systems, automation systems and other important components.

Services rendered:

Conducting certification tests of N/C METER Systems in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



OIL AND GAS INDUSTRIAL FITTINGS LLC



A modern, dynamically developing enterprise that consistently meets the needs of the oil and gas production, transportation and processing industries in various equipment operating under excessive pressure.

Services rendered:

Conducting certification tests of vessels intended for gases and vapors in order to confirm compliance with the Technical Regulations «On the safety of equipment operating under excessive pressure»: «TR CU 032/2013».



NUOVO PIGNONE S.R.L.



The plant is a manufacturer of compressors and gas turbines for the oil and gas, chemical, heavy industry and energy industries. It is part of Baker Hughes. The production facilities are located in Italy.

Services rendered:

Conducting certification tests of gas turbine installations, fuel gas treatment units, compressor units, control panels of units and other equipment in order to confirm compliance with Technical Regulations "On the safety of equipment for operation in explosive atmospheres": «TR CU 012/2011»; «On the safety of low-voltage equipment»: «TR CU 004/2011».



YUGNEFTEMASH SCIENTIFIC AND PRODUCTION ENTERPRISE LLC.



Designs and manufactures products for the oil and gas industry since 2009.

Services rendered:

Conducting certification of automated filling/draining systems, transient explosion-proof bridges in order to confirm compliance with the Technical Regulations «On the safety of equipment for operation in explosive atmospheres»: «TR CU 012/2011».



EUROSIBENERGO-SERVICE LLC



The main activity is «The production of electricity by thermal power plants, including activities to ensure the operability of power plants».

Services rendered:

Conducting certification tests of equipment elements (assembly units) in order to confirm compliance with the Technical Regulations «On the safety of equipment operating under excessive pressure»: «TR CU 032/2013».



TESTING LABORATORY
OF GENERAL INDUSTRIAL AND EXPLOSION-PROOF EQUIPMENT.
Technoprogress Research Center
is one of the most dynamically developing testing centers in Russia



Hydraulic and
pneumatic tests

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Certificate of accreditation **RA.RU.21HC26**

