



# KHARKOVENERGOREMONT

Limited Liability Company



YEAR OF INCORPORATION  
1946

## OUR PHILOSOPHY

One of the major advantages of the Company's philosophy is the concept of team working. This simple but at the same time fundamental principle will ensure our success, prosperity and recognition as a reliable partner and, eventually, effective development of the Company.

Owing to the flexibility and high technical potential we are able to develop and present the solutions, products and services which satisfy to the utmost the interest and requirements of the Customer.

We are ready to keep up with the times in the ever-changing world and want to see you among our partners!





DEAR CUSTOMERS, PARTNERS, COLLEAGUES!

We welcome all those who get acquainted with the catalogue of the company "KHARKOVENERGOREMONT". On the pages of the catalogue you can get background information on our services, works and products.

LLC "KHARKOVENERGOREMONT" is one of the largest Energy Repair Company in Ukraine. Years of experience in the global energy market confirm the high rating of the company and high personnel qualification. Our intellectual property in the form of new and proven operating procedures, technological and design documentation, as well as our own industrial base allow us to perform today any and even the most complex "turnkey" projects

The services, works and products that we offer can satisfy your interest and will give us the opportunity to prove in practice the prospects of cooperation.

*TOMORROW BEGINS TODAY  
- MAKE THE RIGHT CHOICE!*





For 75 years, KHARKOVENERGOREMONT have been performing services and deliveries to domestic and foreign generating companies and power facilities of industrial enterprises.

During this period, close contacts and relations have been established with companies in many countries around the world.

Rich experience and deep knowledge of the company's employees accumulated over the past period ensure continuous interaction of our management with partners almost everywhere in the world.

## THE COMPANY'S ACTIVITIES INCLUDE THE FOLLOWING AREAS:

- market research of services to energy facilities and analysis of the generating companies' equipment;
- comprehensive services for technical upgrading, reconstruction and modernization, recovery and maintenance of power equipment of thermal power stations, hydroelectric power stations, heating plants and power facilities of industrial enterprises;
- project management related to installation of power equipment and "turnkey" project transfer to the customer;
- determination of maintenance level with further recommendations for corrective actions;
- information support of the company in studying the achievements and new trends of Ukrainian and foreign companies in power equipment repair management.

## IN RECENT YEARS THE COMPANY HAS SUCCESSFULLY IMPLEMENTED THE FOLLOWING PROJECTS:

- Erection 260mW steam turbine by Doosan Skoda at the Lidia Ramon Perez TPP (Felton TPP), Republic of Cuba;
- Erection & anti-corrosion protection of pressure pipelines of Senje Hydro power plant, Equatorial Guinea;
- Major Overhaul of the Power Unit 200mW on turnkey basis, Ghorashal TPS, PR Bangladesh;
- Major Overhaul of the transformers ТРДЦН-63000/330, ТДЦ-250000/330, ТНЦ-1250000/330, АОДЦН-333000/750/330/150, АДЦН-250000/330/110-Y1 with high-voltage Bushing replacement, nuclear power plants, Ukraine, NAEK ENERGOATOM;
- Major Overhaul of ПОДЦ-110000/750 bypass reactors with high-voltage Bushing replacement South Ukrainian nuclear power plants and Khmel'nitskaya nuclear power plants, Ukraine, NAEC "ENERGOATOM";
- Major overhaul of hydraulic unit No.1, Krasny Oskol HPP, Ukraine;
- Repair of the rotor and wheel space - АП-6-35КТЗ, Akhtyrka CHP, Ukraine;
- Major overhaul of the turbine generator ТГВ -200М with the replacement of the stator winding, station No.9, Kurakhovo TPP, DTEK, Ukraine;
- Major overhaul of the turbine generator ТБС-30, station No 4, Odessa CHP, Ukraine;
- Major overhaul of the turbine K-100-90 ЛМЗ, station No.2, TPP Falai, Vietnam;
- Major overhaul of the turbine K-300-170-1P ЛМЗ, station No.1, TPP "Wong Bi", Vietnam;
- Major overhaul of the main and auxiliary equipment of CHP, Barentsburg mine, Spitsbergen archipelago, Norway;
- Major overhaul of the turbine K-300-240-2Т-ЛМЗ, measurement of magnetization intensity of HP, LP, MP rotors and their demagnetization at the TPP "Ramin", Iran;
- Major overhaul of the turbine K-210-130 ЛМЗ at the TPP "Orhanelli", Turkey;
- Reconstruction and modernization of power units K50-90-4 ЛМЗ No.1 and No.2, TPP "Gorazal", Bangladesh;
- Major overhaul of power units N-210-130 Harbin (China) Stations No.1, No.2 and No.3, TPP "Dzhamsharo", Pakistan;
- Major overhaul of turbine generating units K-500-240-2, LLP "AES Ekibastuz", Kazakhstan;
- Reconstruction and modernization of power units No.1 and No.2, TPP "Obra", India;
- Disassembly, manufacture and installation of heat power equipment, JSC "Experimental TPP", Krasny Sulin, Russia and many other projects in the countries of CIS, Asia and Europe.

# BOILER AND TURBINE DEPARTMENT

## MAIN ACTIVITIES OF THE BOILER DEPARTMENT:



- installation, repair and reconstruction of low and high power boilers;
- reconstruction and modernization of steam boilers in order to increase steam production, fuel change;
- transfer of steam boilers to hot water mode of operation;
- reconstruction and repair of vessels under pressure;
- installation, repair and reconstruction of gas-supply systems, installation of gas-distributing units and gas distribution substations;
- manufacture of elements for boilers, pipelines, vessels;
- a range of works for extending the life of equipment;
- special rigging works; auxiliary equipment repair.

## COMMISSIONING WORKS FOR:

- steam and hot water boilers running on gaseous, liquid and solid fuels;
- acid cleaning of boilers in different ways;
- pre-start boil-out;
- acid cleaning of heat exchangers;
- conservation of thermal power equipment;
- steam-oxygen cleaning of boilers and pipelines;
- chemical treatment of water (Na-cation exchange, H Na-cation exchange, ADP - autonomous demineralizing plant, BDP - block demineralizing plant).
- New technologies in this field:
  - correctional treatment feed and boiler water;
  - thermochemical testing (setup of water chemistry treatment).



During 2007-2012 inclusive, the boiler team of KHARKOVENERGOREMONT completed disassembly of the old and installation of a new boiler equipment together with reconstruction of furnace systems, installation of two chimneys at the CHP of the mine Barentsburg, Spitsbergen Archipelago, Norway. The works were carried out in harsh conditions of the Far North. The works included disassembly and installation of thermal insulation of heat and water supply systems of residential settlement. In 2008, the boiler team of the Department carried out an overhaul of boilers at the stations No. 7 and No. 9 at Shostka CHP, including manufacture and replacement of platen superheaters and boiler economizers БК3-160-100ГМ. Superheaters and economizers were manufactured at the own industrial yard of KHARKOVENERGOREMONT.

Technical proposals of our boilermakers are based on experience of more than half a century in reconstruction and modernization of the main and auxiliary boiler and turbine equipment, and steam and hot water lines at the power stations in Ukraine, CIS and non-CIS countries.

The experts of the Boiler Department ensure technologically accurate and strategically correct technical solutions allowing to extend the service life of the customer's equipment or to create opportunities for the development of new capacities.



## MAIN ACTIVITIES OF THE TURBINE DEPARTMENT



- installation, repair, modernization, reconstruction and adjustment of turbine units and auxiliary equipment;
- standard and specialized repair of all types of steam, hydraulic, driving and gas turbine units with a warranty;
- major overhaul, testing and adjustment of turbine automatic control in power plants;
- delivery of equipment and spare parts for thermal mechanical equipment;
- major overhaul and adjustment of all types of pumps, manufacture and repair of heat exchangers and other equipment directly on-site or at KHARKOVENERGOREMONT's industrial yard.

## SPECIAL ACTIVITIES OF THE TURBINE DEPARTMENT:

- replacement of obsolete and outdated automatic control systems with modern electronic-hydraulic systems;
- analysis and elimination of excessive vibration of turbine units and all rotating machinery;
- dynamic balancing of rotors in their own bearings and on the balancing machine.

The specialists of the Turbine Department have performed a unique restoration and overhaul of steam turbine K-500-240-2 at the station No. 4 of LLP "AES" Ekibastuz" where low-pressure cylinder structural parts manufactured at the Leningrad Metal Plant, Russia, have been completely replaced with the construction of Turboatom, Ukraine, with preliminary design correlation, and the following works: emergency repairs of the turbine K-300-240 at the station No. 2, subsequent repair with replacement of rotor blades of the high-pressure hose – 4 stages, low-pressure hose - 10 stages, medium-pressure hose - 10 stages at the power station "Ramin", Iran; overhaul of the power unit N-210-130, Harbin, China, station No. 2, TPP "Dzhamsharo", Pakistan with replacement of 4 stages of low-pressure hose; reconstruction and modernization of power units No 1 and No 2, TPP "Obra", India and many other projects around the world.

During performance of the works the Turbine Department specialists use their personnel's rich experience and qualification accumulated over many years of implementation of such projects, apply the latest technology and their own "know-how", develop original equipment and facilities in the framework of ongoing projects.





## MAIN HYDROPOWER ACTIVITIES:



KHARKOVENERGOREMONT has been successful for a long time in the market of services for repair and modernization of energy facilities in Ukraine, CIS countries and abroad.

The Hydropower Department performs installation, commissioning, overhaul and reconstruction of hydropower and hydromechanical equipment for hydroelectric power plants and pumping stations. Works are carried out on all known hydraulic units of various designs. In the process of repair of hydraulic units a thorough fault detection of units and mechanisms is conducted.

A complicated method of turbine repairs without disassembling has been developed (with lifting of the turbine cover). The method enables to reduce labor intensity and to save time for disassembling. The specialists' qualification level enables to perform at the repair stage complicated works that were previously performed only at the factory. In the process of repair works new technologies of work performance are widely used. We have developed a method of modernization of guide vane bearings, turbine bearing and thrust bearing, sealing systems using new technologies and materials, protection of the turbine wheel and wheel space against cavitation damage based on ceramic polymer and new technologies.



In addition, we have experience in modernization and reconstruction of small hydropower plants.

We offer repair and recondition of nonstandard equipment using new repair technologies. We produce non-standard (of large size and complex geometric shapes), seals, hubs, sliding bearings made of new anti-friction materials for heavy duty operations in aggressive, abrasive environments and under water.

The resource of products made of these materials is several times higher than the standard products used in very critical subassemblies, the replacement of which requires a lot of time and energy.

Having experienced, highly qualified personnel, as well as established relations with a number of industrial and engineering companies, we offer to our customers a full cycle of comprehensive works for repair, modernization and construction of new energy facilities.





# ELECTRIC DEPARTMENT:

## MAIN ACTIVITIES:



Major overhaul of turbine generators, hydro-generators, high voltage motors, synchronous compensators:

- checking turbine generator for gas tightness and eliminating leakages;
  - disassembly and reassembly;
  - removal and installation of oil interceptors, diffusers, upper and lower end shields;
  - rotor removal and introduction;
  - active steel seal and repair, loss and heating testing;
  - stator slot rewedging;
  - testing for hydraulic density of stator winding;
  - resoldering of the stator winding heads with reinsulation;
  - replacement of the cord bands;
  - replacement of stator windings;
  - replacement of frame insulation, compounded insulation of a rod, coil;
  - stator removal and installation;
  - generator preparation, electrical testing, measuring, hydraulic testing;



- Repair of the rotor:
  - checking for fit and condition of retaining and centering rings;
  - repair of fan slip rings, current leads, balancing weight fasteners, check for gas tightness and hydraulic density;
  - replacement of slip rings;
  - replacement of slip rings insulation;
  - repair of current leads, replacement of central current lead insulation and a tire;
  - restoration and replacement of rotor winding coils;
  - rewedging of rotor slots;
  - repair of retaining rings;
  - replacement and repair of banding insulation;
  - removal, repair and installation of the fan blades;
  - repair of the shaft oil seal system;
  - repair of a brush-contact device, contact rings boring and polishing;
  - repair of gas coolers;
  - repair and manufacture of stator winding terminal leads;
  - repair of generator gas system.



- Additional works performed during major overhauls:

- hard and soft soldering of winding;
- preparation of parts for ultrasonic and dye penetration inspection
- acquisition of necessary materials and spare parts.



## ELECTRIC DEPARTMENT

- Major overhaul of transformers (without replacement of winding):
    - preparation of the repair area;
    - transformer disassembly on the foundation (disconnection of control cables, preparation for rerolling, if necessary);
    - partial oil discharge;
    - disassembly of the transformer units (expander, exhaust pipe, dehydrating filter);
    - lead-in removal;
    - active part opening;
    - repair of the tank detachable part;
    - tank repair (replacement of gaskets, elimination of oil leaks);
    - inspection and repair of the active part (magnetic conductor testing, elimination of closures, checking the grounding, winding testing, winding pre-pressing, checking insulation condition);
    - repair of a switching device (inspection and repair of switching device contacts, inspection and repair of a switching device actuator);
    - cooling system repair;
    - repair of the transformer units (expander, dehydrating filter, etc.);
    - lead-in repair (testing, oil change, if necessary, drying);
    - installation of units, assembly of the transformer;
    - encapsulation of the transformer active part;
    - oil filling;
    - installation on the foundation;
    - oil refilling
    - testing.
  - Additional works performed during overhaul of transformers:
    - handling operations;
    - transformer warming before opening;
    - transformer pre-drying (drying);
    - transformer oil recovery (drying, cleaning, decontamination);
    - acquiring necessary materials and spare parts.
  - Possible volume of works for the repair of transformers and generators installed at the steel plants:
    - general purpose oil transformer of voltage class up to 110 kV (6, 10, 35, 110 kV), with a capacity of 1,000 to 80,000 kVA, according to standard volume of repair works (repair of the active part, repair of the transformer units, drying and purification of transformer oil);
    - special transformers for electric furnaces of various purposes;
      - oil and dry transformers of voltage class up to 6 kV; 10 kV and 35 kV with a capacity of 40 000 kVA, according to standard volume of repair works;
    - standard overhaul of turbine generators and reconstruction.
  - The Electric Department is equipped with modern equipment, repair accessories and tools. When performing the fieldwork, the department specialists independently design and manufacture required original devices at the industrial yard of KHARKOVENERGOREMONT.
- The Department employees' qualification is proved due to many years of work and a large number of completed projects in Ukraine and abroad.
- Thanks to modern technology and scientific potential of the department our specialists have developed, manufactured and delivered leads for the generator GE – by the order of "KONCAR-Generators & Motors Inc. ", Croatia; have performed emergency repair of the stator winding of the turbine generator "Siemens-Schuckert" type FT 490 / 60-3000, production year 1943 at Kharkov CHP-3; overhaul reconditioning with replacement of stator winding rods of the turbine generator TBB-800-2, with manufacture and replacement of contact rings of the exciter BT-6000 at Slavyansk TPP of PJSC "Donbassenergo", and many other projects in Ukraine, CIS, Europe and Asia.



## GENERATOR TERMINAL LEADS



Production of stator winding terminal leads with a capacity of up to 500 MW, voltage up to 20 kV using fiberglass insulators for air-, hydrogen- and water-cooled turbine generators.

The material used to manufacture cylinders complies with TR U 26.1-22641550-001-2004.

### SPECIFICATIONS AND PARAMETERS

Lead assembly	ТГВ-300	ТГВ-200	ТГВ-200М	ТВС-30	СГК-538/160-70М	ТГВ-500
1. Nominal rating power, MW	300	200	200	30	19,5	500
2. Nominal voltage, kV	20	15,75	15,75	10,5	6,3	20
Fiberglass insulator						
1. Density, gr/cm <sup>3</sup>	1,8-2,0	1,8-2,0	1,8-2,0	1,8-2,0	1,8-2,0	1,8-2,0
2. Ultimate stress, MPa, not less - under static bending - under compression along an axis	250 150	250 150	250 150	250 150	250 150	250 150
3. Voltage test at frequency 50 hz over the surface, kV/mm	0,265	0,265	0,265	0,265	0,265	0,265
4. Volume resistivity, Ohmmeter, not less initial condition after placing in a humidity chamber for 24 hours	5·10 <sup>11</sup> 1·10 <sup>9</sup>	5·10 <sup>11</sup> 1·10 <sup>9</sup>	5·10 <sup>11</sup> 1·10 <sup>9</sup>	5·10 <sup>11</sup> 1·10 <sup>9</sup>	5·10 <sup>11</sup> 1·10 <sup>9</sup>	5·10 <sup>11</sup> 1·10 <sup>9</sup>
5. Surface resistance, Ohmmeter, not less initial condition after placing in a humidity chamber for 24 hours	1·10 <sup>12</sup> 1·10 <sup>9</sup>	1·10 <sup>12</sup> 1·10 <sup>9</sup>	1·10 <sup>12</sup> 1·10 <sup>9</sup>	1·10 <sup>12</sup> 1·10 <sup>9</sup>	1·10 <sup>12</sup> 1·10 <sup>9</sup>	1·10 <sup>12</sup> 1·10 <sup>9</sup>
6. Dielectric loss factor at frequency 50 hz, no more than 3%	1,5	1,5	1,5	1,5	1,5	1,5

Repair and modernization of leads with the replacement of porcelain insulators with fiberglass for all types of turbine generators with a capacity of 500 MW, voltage not exceeding 20kV.

We have developed the design and manufactured 4 sets of generator terminal leads of 100 and 200 MW for "KONCAR-Generators & Motors Inc.", Croatia. In 2013 we have delivered two sets of terminal leads of turbine generator TGV-200M for TURENTRADING, INC, British Virgin Islands. Active cooperation with customers in Ukraine is in process.

In addition, terminal leads have been manufactured and delivered to the following customers:  
Burshtyn TPP, Ukraine; Zuevskaya TPP, Ukraine; Uglegorsk TPP, Ukraine  
Starobeshevo TPP, Ukraine; Lugansk TPP, Ukraine; Kiev HPP, Ukraine.

We are able to develop leads for other types of machines according to the Customer's specifications.



## SPECIAL ACTIVITIES DEPARTMENT

Our specialists will perform a range of works for inspection, repair, reconstruction, modernization and adjustment of the main intra-turbine steam pipelines, steam extraction from cylinders, vapor exhaust from seals, feed pipeline and elements of support and suspension systems (SSS).

If necessary, our specialists will calculate the strength and homing action of pipeline with issuance of a conclusion according to RD 10-249-98 (ASTRA-STATS-11).

Repair work procedures for the supports of all types of turbine generators and regulatory documents RD 34.30.506-90 "Guidelines for normalization of thermal expansion of steam turbine cylinders of thermal power plants" require compulsory works with regard to support and suspension systems (SSS) of turbine generator steam pipelines.

Unsatisfactory condition of pipeline SSS affects uniform distribution of loads on the support from cylinder feet and has a negative effect on thermal expansion of turbine generator cylinders, which leads to biting and pinching of chairs on longitudinal keys and emergence of uncompensated twisting moments of longitudinal beams. Main hazardous factors related to pipelines and SSS that affect general condition of a turbine generator are non-standard efforts and torques that cause different types of vibrations, with all the consequences that come with it.



### MAIN ACTIVITIES:

- inspection of steam pipelines and support and suspension system (SSS) in order to specify a layout, lack of deflections and jamming, as well as compliance with the design;
- check of springs installed, their location and design for compliance with the design;
- calculation of SSS load of steam lines (pipelines); due to replacement of HPC and MPC we develop and implement technical measures for connection of pipelines to the outer HPC, MPC of the turbine and subsequent
- "cold" draws and adjustment of loads on the suspension rods; heights of spring tension of spring hangers are measured and actual load values in a cold state are calculated with
- preparation of comments and recommendations for their adjustment;
- adjustment of springs of spring hangers with allowance for admissible and design loads; multistage adjustment of steam pipeline SSS connected
- to HPC and MPC in order to normalize and balance loads on HPC and MPC feet; preparation and issuance of the data sheets for spring
- tension of spring hangers of the steam lines OP, GPP, HPP, PV, HPC bypass steam lines, extractions, etc;
- analysis of thermal movements of steam pipelines OP, GPP, HPP according to the data sheets for thermal movements;
- a report on the completed work is prepared.



# LABORATORY OF METALS



Inspection is conducted for:

- examination of facilities subordinate to National Committee for Occupational Health and Safety with obtainment of necessary permits for further operation, inspection of metal and welded joints, lifting devices and gas pipelines;
- testing:
  - non-destructive testing:
    - visual and optical (VT);
    - ultrasonic (UT);
    - magnetic-particle (MT);
    - penetrant (PT);
  - destructive inspection method:
    - hardness measurement;
    - mechanical testing;
    - metallographic analysis;
    - metallographic arc spectroscope;
  - technical diagnosis:
    - (experimental survey);
  - technical inspection (besides primary inspection).

INSPECTION IS CONDUCTED FOR:

- steam and hot water boilers;
- vessels operating under pressure;
- steam and hot water pipelines;
- steam turbines;
- lifting cranes;
- gas pipelines.





# WELDING LABORATORY, WELDING WORKS

THE MAIN ACTIVITIES OF THE WELDING LAB ARE:



- training and re-certification and advanced training of certified electric welders for the following qualifications:
- semi-automatic welding in active gases;
- manual argon arc welding;
- electric arc welding of pipe heating surfaces, steam and hot water pipelines, pipe elements of boilers, metal structures of vessels operating under pressure of low-carbon low-alloy steels in all 3D positions of welds.

The Welding Laboratory has a staff of qualified professionals: engineers, foremen, instructors and is equipped with necessary equipment:

- inverters – САИ-160; ИСТ-160;
- rectifiers – ВСЖ-303; ВД-306 У3; ВДГ-303 У3; ВДУ-506С-ПДГО-508; ВДМ-1001; ВДМ-1201; ВКС-500М1;
- welding transformers – ТДФ-1001 У3; ТДФЖ-1002 У3;
- weld rod oven;
- pendulum hammer МН 30А;
- microscope МИМ-8М;
- pull test machine P-50;
- hardness testing machine HRC stationary;
- ultrasonic detector УЗД-2-12.

## THE WELDING LABORATORY PROVIDES THE FOLLOWING SERVICES:

- development of technological processes for particularly difficult repairs of power equipment units and components;
- welding procedure certification;
- technical guidance and execution of welding technical documentation in the process of power equipment repair;
- quality control of welding materials and welded connections in the process of welding works;

Years of experience in the energy industry, available qualified personnel, necessary regulatory technical documentation, special equipment and accessories enable us to solve successfully the most complex tasks of repairing power equipment parts and components using various types of welding.





## RHT (RECOVERY AND HEAT TREATMENT)



In the process of welding works, including repair of power equipment we will perform heat treatment in a quality and timely manner, in particular:

- preheating during welding;
- high tempering;
- normalization;
- austenization.

Our specialists will provide professional services for recovery and heat treatment:

Time-consuming and expensive replacement of pipelines and bends, body parts of lock and control valves, boiler drums, turbine cast parts, SSS (support and suspension system) fixtures may be avoided due to timely recovery and heat treatment (RHT) of a metal having a limited service life.

The purpose of RHT is to restore the structure and properties of metal used for a long time in the process of complete phase recrystallization to a level corresponding to the original condition of the metal (casting condition), as well as to heal defects.

**We offer:**

Feasibility study of RHT effectiveness in order to extend service life.

In the process of the whole scope of RHT works a permit for extension of service life is issued.

List of the main types of works in the process of RHT:

- feasibility analysis of RHT effectiveness;
- development of work performance program and technologies of recovery heat treatment process;
- development of repair technologies to eliminate the detected defects;
- manufacture and installation of a heat-treating furnace in a specially equipped repair site of the Customer (if necessary);
- isolation disassembly when dealing with steam pipelines and SSS components;
- performance of RHT process, which includes "normalization" and "high tempering" of all elements;
- metal control before, during and after RHT;
- reporting documentation development;
- preparation and issuance of the conclusion.



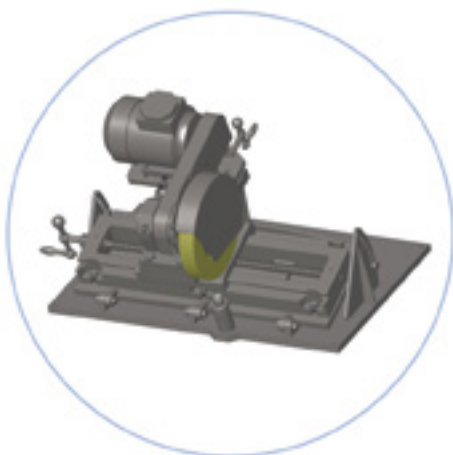


## ACCESSORIES AND SPECIALIZED TOOLS

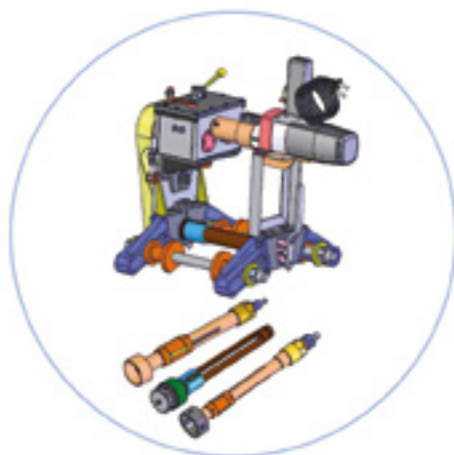
KHARKOVENERGOREMONT is one of the leading companies of Ukraine for the development and manufacture of accessories, original devices and tools for repairs of boiler, turbine and electrical equipment.



Angle drilling device  
YCP-3M

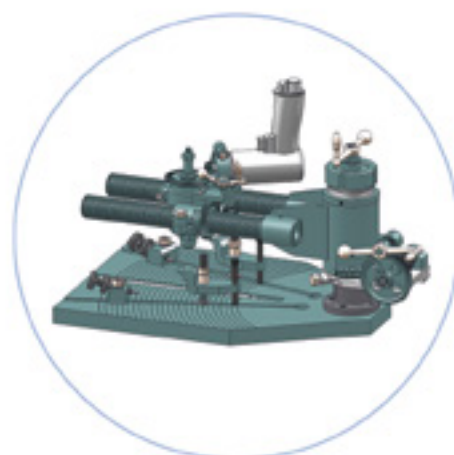


Device for grinding rotor necks T01.86

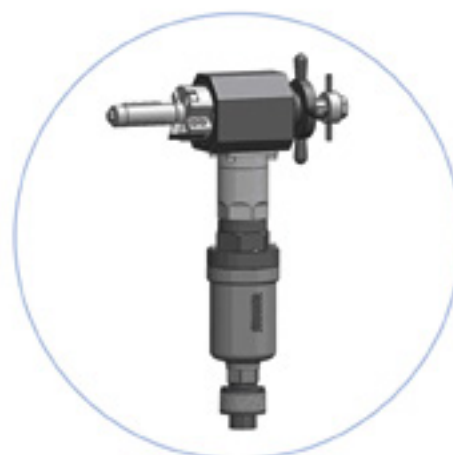


Device for machining  
the coupling holes of the turbines  
ГМ.431 and ГМ.436

Initially, this production was based on the need for timely provision with repair equipment of their own staff and maintenance of high quality level of services to energy facilities by the company's repair personnel. For this purpose, a variety of devices and accessories were developed and manufactured in the course of works, and eventually a single-piece production became small-scale, taking into consideration the interest in and the need for accessories by other repair companies.



Device for machining the  
shoulders T01.32



K1738  
Beveling device with inside  
fastening for pipes  
Ø26 – 63 mm  
(pneumatic, electric  
220V & 36V)



K1755  
Beveling device with outside  
fastening for pipes  
Ø28 – 60 mm  
(pneumatic, electric  
220V & 36V)

This catalogue includes some samples, a complete list can be found in a separate catalogue of tooling and accessories on the company's website [www.khaer.com.ua](http://www.khaer.com.ua)

## LLC KHARKOVENERGOREMONT ALSO PROVIDES THE FOLLOWING SERVICES:



Embedded parts for the construction works

- metal treatment (turning, milling, hobbing, grinding, grooving and assembly operations);
- manufacture of support-suspension system elements of pipe-lines;
- design and manufacture of rolled metal structures up to 100 tons per month;
- production of spare parts for industrial equipment, specialists' visit to the customer's site, drafting;
- long-length pipe bending up to 101 mm;
- engineering works, conversion of drawings into electronic form;
- gas and plasma cutting, thermal cutting of metal with a thickness up to 100 mm on CNC machines, profile cutting of non-ferrous metals and alloy steels.

## ELEMENTS OF SUPPORT AND SUSPENSION SYSTEMS



Spring blocks



Movable and fixed supports



Rings, half-clamps, roller blocks, supporting plates, fixed stops, etc.



Clamp blocks



Sliding supports



Rods, ears, lugs



# FACILITIES AND CUSTOMERS

## Ukraine

Odessa CHP  
Kurakhovo TPP LLC "DTEK Vostokenergo"  
Lugansk TPP LLC "DTEK Vostokenergo"  
Zuevskaya TPP LLC "DTEK Vostokenergo"  
Slavyansk TPP PJSC "Donbassenergo"  
Starobeshevo TPP PJSC "Donbassenergo"  
Tripoliye TPP PJSC "Centrenergo"  
Zmiev TPP PJSC "Centrenergo"  
Burshtyn TPP PJSC "DTEK Zapadenergo"  
Dobrotvor TPP PJSC "DTEK Zapadenergo"  
Zaporozhye TPP PJSC "DTEK Dneprenergo"  
Krivoy Rog TPP PJSC "DTEK Dneprenergo"  
Darnitskaya CHP LLC "Euro-Reconstruction"  
Chernigov CHP LLC "TekhNova"  
Kremenchug CHP  
"Simferopol CHP LLC"  
Krymteploelektrotsentral"  
Sumy CHP  
Kramatorsk CHP LLC  
"Kramatorskteploenergo"  
Alexandria CHP  
Kharkov CHP-3  
Shostka CHP  
CHP LLC "Nikolaev Alumina Plant"  
SE "CHP -2" Eskhar "  
CHP SE "PA" Makarov Southern  
Machine-Building Plant"  
Kakhovka HPP JSC "Ukrhydroenergo"  
Dneprodzerzhinsk HPP JSC  
"Ukrhydroenergo"  
Dniester HPP JSC "Ukrhydroenergo"  
Krasny Oskol HPP  
Tashlyk PSP  
Factory "Severnoy" of the farm enterprise  
"Organic Systems"  
LLC "Trakonta" Dzhankoy MPT  
SE NEC "Ukrenergo"  
State enterprise "Shostka state factory"  
Impulse "  
SE plant "Electrotyazhmash"  
NTU "KhPI"  
JSC "Burynsk Sugar Plant"  
OJSC "Poltava Turbomechanical Plant"  
Crimean EPS, substation "Dzhankoy"  
SE NEC "Ukrenergo"  
Substation "Simferopol" 330 kV  
JSC "Rubezhnoye Cardboard Mill"  
JSC "Kryzhopol sugar factory"  
LLC "Karlovski sugar factory"  
JSC TM "Zmiev vegetable factory"  
LLC "Mega-Azov"  
JSC "Azovstal"  
OJSC KGMK "Krivorozhstal"  
JSC "Mittal Steel Krivoy Rog"  
OJSC "Bahleykoks"  
Kharkov CHP-5  
Severodonetsk CHP

## Belarus

JSC "Mogilev Instrument Plant"  
JSC "Belenergoremnaladka"  
LLC "NPP EnergoNefteKhim"  
LLC "Tehsnabkomplekt"  
LLC "Grateks Pro"

## Russia

OJSC "Power Machines -ZTL, LMZ Electrosila"  
Kursk CHP -1  
JSC "Experimentalnaya CHP", Krasny Sulin  
PA "Gubkin CHP ", Gubkin  
Kamyshinskaya CHP, Volgograd  
Novocherkassk SDPP  
LLC "Stavrolen", Budennovsk  
Rostov CHP -2, JSC "Rostovenergo"  
Plant JSC "Salavatnefteorgsintez", Salavat  
Volgodonsk CHP -2, Volgodonsk  
Astrakhan CHP-2  
Bratsk CHP, Bratsk  
Novatecs LLC

## Georgia

Saknahshiri "(GIG Group), Tkibuli  
JSC "Sakenergoremont"  
JSC "Tbilisi SDPP"  
JSC "Energy Invest", Rustavi  
JSC "Mtkvari Energy" Gardabani  
Khrami-HPP1 JSC "AES Khrami "  
Tkibuli TPP  
Gardabani TPP

## Moldova

JSC "Moldovan SDPP "

## Kazakhstan

LLP "AES Ekibastuz"  
LLP "AES Shulbinskaya HPP"  
JSC "Tsentrkazenergomontazh"  
LLP "DMCh Abadan"  
LLP "Almaty Remenergomontazh"  
JSC " PromInvestAlmaty "

## non-CIS countries

TURENTTRADING, INC, British Virgin Islands (for  
Energy of Turkmenistan)  
TPP "Muzaffargarh", Pakistan  
TPP "Fa-lay", Vietnam  
TPP "Wong Bi", Vietnam  
Pakistan Metallurgical Plant  
(Pakstil Co.) Karachi, Pakistan  
Iranian company for repairing power stations  
Karaj, Iran, TPP "Ramin"  
CHP Barentsburg mine, Spitsbergen Archipelago,  
Norway  
TPP "Orhaneli", Turkey  
TPP "Gorazal" Bangladesh, Nirman Power  
Generation Ltd  
TPP "Shahzi Bazar", Bangladesh  
TPP "Dzhamsharo", Pakistan, "GRID TRADING"  
Malta Ltd  
TPP "Obra", India  
TPP "BAR", India  
"Ugljevik" TPP, Bosnia-Herzegovina  
TPP "Sisak", Croatia  
TPP "Al-Hiswa" Yemen  
Kavosh Puia Jonoob (KPJ), Iran  
Tadzhiz Niru Sanat Berg Puia (TSP-Co), Iran

# FEEDBACK FROM OUR CUSTOMERS

Міністерство енергетики та вугільної промисловості України  
**ПАТ "ОДЕСЬКА ТЕЦ"**  
 код ЄДРПОУ 05471158  
 65003, м. Одеса, вул. Церковна, 29  
 телефон (048) 738-62-51, факс (048) 723-12-94  
 e-mail office@otec.odessa.ua



Міністерство енергетики та вугільної промисловості України  
**ПАО "ОДЕССКАЯ ТЭЦ"**  
 код ЄДРПОУ 05471158  
 65003, м. Одеса, вул. Церковна, 29  
 телефон (048) 738-62-51, факс (048) 723-12-94  
 e-mail office@otec.odessa.ua

№ \_\_\_\_\_  
 від \_\_\_\_\_  
 на № \_\_\_\_\_ від \_\_\_\_\_

Директору  
 ООО «Харьковенергоремонт»  
 Пронину А.К.

## Отзыв о выполненной работе

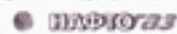
В 2014 году специалистами ООО «ХАРЬКОВЭНЕРГОРЕМОНТ» был выполнен капитальный ремонт турбогенератора ТЭС-30, ст.№4 Одесской ТЭЦ.  
 При выполнении работ специалисты ООО «ХАРЬКОВЭНЕРГОРЕМОНТ» показали высокую квалификацию, умение и организованность. Работы выполнены слаженно, своевременно и технически грамотно, в четком взаимодействии с персоналом ТЭЦ.  
 С момента пуска в эксплуатацию турбогенератор работает без замечаний до настоящего времени.  
 Руководство ПАО «Одесская ТЭЦ» выражает благодарность руководителям и специалистам ООО «ХАРЬКОВЭНЕРГОРЕМОНТ» за выполненные работы и рассчитывает на дальнейшее сотрудничество.  
 Рекомендуем компанию ООО «ХАРЬКОВЭНЕРГОРЕМОНТ» как надежного и опытного подрядчика по ремонту сложного энергетического оборудования.

Главный инженер



А.И. Шенгелевич

НАЦИОНАЛЬНАЯ АКЦИОНЕРНАЯ КОМПАНИЯ

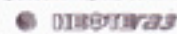


У К Р А И Н И

ПУБЛИЧНОЕ АКЦИОНЕРНОЕ ТОВАРИЩЕСТВО  
**«ОДЕСЬКА ТЕЦ»**



НАЦИОНАЛЬНАЯ АКЦИОНЕРНАЯ КОМПАНИЯ



У К Р А И Н И

ПУБЛИЧНОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО  
**«ОДЕССКАЯ ТЭЦ»**

Руководству ООО «Харьковенергоремонт»

Уважаемые Господа!

Выражаем Вам искреннюю благодарность за успешно выполненный капитальный ремонт турбины ВПТ-25-3М ТМЭ ст.№3 ПАО «Одесская ТЭЦ» в 2012-2013гг.

Из выполненных работ хотим отметить: грамотную дефектацию оборудования перед выводом в ремонт, составление Объемов работ и Ведомости запасных частей, необходимых для проведения качественного инициально восстановительного ремонта; поставку в полном объеме запасных частей для выполнения капитального ремонта, выполненную Вашей организацией; высокий уровень качества выполнения Вашими специалистами сверточных специальных работ по восстановлению направляющих лопаток диафрагм проточной части, а также по замене насадных уплотнительных втулок, рабочих лопаток 10 ступеней ротора турбины, включая проточку и балансировку ротора на стенке; высокий уровень качества организации и выполнения работ, связанных с заменой деталей парораспределения, направляющего аппарата и прочих деталей турбины, организации ремонтных работ на ремонтной площадке, а также координации выполнения работ с нашим персоналом.

После капитального ремонта турбоагрегат ВПТ-25-3М, ст.№3 ПАО «Одесская ТЭЦ», проработал все показатели на надежность и выделен в эксплуатацию на номинальные параметры. Значительно увеличился максимальный расход пара и экономичность турбоагрегата.

Мы надеемся на дальнейшее сотрудничество с Вашей компанией, и будем рекомендовать Вас нашим партнерам в качестве надежной и высококвалифицированной ремонтной и обслуживающей компании.

С уважением,  
 Председатель правления



М.Ю. Голова



ОАО «Силовые машины»  
 Филиал открытого акционерного общества «Силовые машины» -  
 ЗТЛ, ЛМЗ, Электросила, Энергомашэкспорт -  
 «Электросила» в Санкт-Петербурге



Московский пр., д. 130, Санкт-Петербург, Россия, 190105, тел. +7 (812) 307-44-77, факс +7 (812) 308-10-14  
 E-mail: etal@belarus.ru, http://www.power.ru

27.10.2009 № 55-96-52/104

№ \_\_\_\_\_ от \_\_\_\_\_

Генеральному директору  
 ООО «Харьковенергоремонт»

С ноября 2007 г. по октябрь 2009 г. исключительно специалистами Вашего предприятия выполняются договорные объемы работ на промышленной площадке филиала ОАО «Силовые машины» «Электросила» в г. Санкт-Петербург, РФ.

За указанный период были выполнены квалифицированно и в срок работы по монтажу теплоконтроля статоров турбогенераторов для Березовской ГРЭС, Курской АЭС и других энергетических объектов России.

В процессе выполнения работ специалисты показали высокой технической уровень и соответствующее качество работ, продемонстрировали практические навыки, оперативность и производственную дисциплину.

Считаем, что Ваше предприятие на сегодняшний день является надежным партнером во всех отношениях.

Выражаем искреннюю благодарность ООО «Харьковенергоремонт» за предоставление квалифицированного персонала и считаем, что наши предприятия имеют все предпосылки для дальнейшего сотрудничества.

С уважением,

Директор по персоналу и социальным  
 вопросам филиала ОАО «Силовые машины»  
 «Электросила» в Санкт-Петербурге

Кунешено В.А.



# FEEDBACK FROM OUR CUSTOMERS



ВАКЦИНОВАНИЙ ПІДРОБИТ  
«ХАРКІВСЬКА ТЕПЛОВА  
ЕЛЕКТРИЧНА СТАНЦІЯ»  
ТОВАРИСТВА З ОБМЕЖЕНОЮ  
ВІДПОВІДАЛЬНІСТЮ  
«ДТЕК ЕНЕРДЖІ»

вул. Виринська, 34  
м. Харків, Україна  
40113, Харків  
тел: +38 062 763 53 59  
факс: +38 062 763 53 59

ОБНОВЛЕННЯ  
ПОРЯДКОВИХ  
«КУРАХОВСЬКА ТЕПЛОВА  
ЕЛЕКТРИЧНА СТАНЦІЯ»  
ОБ'ЄКТА С ОБМЕЖЕНОЮ  
ВІДПОВІДАЛЬНІСТЮ  
«ДТЕК ВОСТОКЕНЕРДЖІ»

вул. Виринська, 34  
г. Курган, Магніський р-н  
Донецька обл.  
83012, Україна  
тел: +38 062 763 53 59  
факс: +38 062 763 53 59

01.02.16, 09/4-423  
№ 17

Директору  
ООО «Харківенергоремонт»  
Пронину А.К.  
Ул. Сергійовська, 1, г. Харків,  
61017, Україна

## Отзыв о выполненной работе

В 2014-2015г.г. специалистами ООО «Харківенергоремонт» (далее - ХАЭР) были выполнены работы по капитальному ремонту и модернизации турбогенератора производства ГП «Електроджмаш» ТГВ-200М ст.№9 ДТЭК КУРАХОВСКОЙ ТЭС ООО «ДТЭК ВОСТОКЕНЕРДЖІ».

Проект капитального ремонта с модернизацией ТГВ-200М и его систем обеспечен, техническое руководство и поставка запасных частей для ремонта осуществлялись АО «МЗА «ЭЛТА», г. Харьков.

В период капитального ремонта и модернизации специалистами ХАЭР были выполнены:

- замена обмотки статора на реконструированную обмотку, более надежной конструкции;
- замена пазовых клиньев статора на заклиновку встречными самоустанавливающимися клиньями;
- модернизация схемы системы водоподвода с заменой коллекторов, обеспечивающих раздельную подачу воды на каждый стержень с установкой магнитных фильтров и фильтров подачи и слива дистиллята и заменой фторопластовых шлангов на новые с уплотнением соединений корпус-сфера;
- замена колпачков головок статора на новые;
- замена элементов крепления лобовых частей на новые;
- замена концевых выводов обмотки статора на новые модернизированные с изоляцией из стеклопластикового компаунда, повышающей электрическую прочность и исключаящей увлажнение;
- замена статорных гаек концевых призм на более надежные;
- применены новые преобразователи сопротивления для измерения температуры обмотки статора, активной стали, охлаждающего газа, воды, масла, подшипников;



- модернизация уплотнений вала турбогенератора с заменой торцевых уплотнений на радиальные (кольцевые);
- замена газоскладчиков на новые модернизированные;
- замена теплообменника водного охлаждения обмотки статора на новый, повышенной охлаждающей способности;
- замена щеточного аппарата на современный, с применением щеткодержателей с постоянным усилием щеток, для понижения шума, вибрации и улучшения охлаждения;
- модернизация выводных и соединительных шин.

При выполнении работ по капитальному ремонту и модернизации турбогенератора ТГВ-200М специалисты ХАЭР показали высокую квалификацию, умение и организованность. Работы выполнялись слаженно, своевременно и технически грамотно, в четком взаимодействии с ГП «Електроджмаш» (производитель турбогенератора) и АО «МЗА «ЭЛТА» (разработчик проекта капитального ремонта и модернизации генератора ТГВ-200М).

Руководство ДТЭК КУРАХОВСКОЙ ТЭС ООО «ДТЭК ВОСТОКЕНЕРДЖІ» выражает благодарность руководителям и специалистам ООО «Харківенергоремонт» за выполненные работы и рассчитывает на дальнейшее сотрудничество. Рекомендуем компанию ООО «Харківенергоремонт» как надежного и опытного подрядчика по ремонту сложного энергетического оборудования.

Директор

Бричевский А.М.

Олейников А.А.  
+38(050) 470-66-63  
OleynikovAA@dtek.com



BANGLADESH POWER DEV. BOARD.

Office of Manager  
Maintenance 5-6 Unit  
Ghorashal Power Station,  
BPD, Palash, Narayagi.

Memo No: GPS/5-6 Unit/Maint./Technical-403/2017/167

November 02, 2017



TO WHOM IT MAY CONCERN

Subject: Sub: A letter of feedback on the work, as per Contract No. Pw. - 314/2012 (Re.) dttd 04.02.2014 for overhauling of Unit No5 of Ghorashal Power Station, BPD, Palash, Narayagi

Dear Sir,

This is to confirm that the company «Kharikovenergorremont» LLC, Ukraine performed overhauling works on Turbine K-210-130-8 JIM3, Turbogenerator ТГВ-200М Т3 and auxiliary equipment of Turbine Island of Unit №5, TPS «Ghorashal», PR Bangladesh from October, 2016 to September, 2017. Turbogenerator Unit №5 has been operated since Autumn, 1994. These were the first overhauling works, which have been performed since the operation began, including replacement of all Turbine and Generator bearings, and complete replacement of shaft-end seals of steam flow path of HP, IP and LP cylinders. Also, during the repair of the generator, 50% of the stator winding cores were replaced.

The overhauling works on Turbine and the Generator, as well as other equipment of the unit, were performed with good quality and on time, specialists of «Kharikovenergorremont» LLC showed highly professional skills and level of technical competence. After overhauling works the Turbine is operates steady, all operational parameters and values are satisfactory, and the Unit has base load of 210 MW.

Your prompt action in this regard is highly appreciated.

Thanking you

(Engr. Mubshar Rahmat)  
ID No. 44997  
Manager (SE)  
Maintenance 5-6 Unit, GPS  
BPD, Palash, Narayagi.

(Engr. Mubshar Rahmat)  
Manager (SE)  
Maintenance 5-6 Unit, GPS  
BPD, Palash, Narayagi.



# PERMISSION:



**ДЕРЖАВНА СЛУЖБА ГІРНИЧОГО НАГЛЯДУ ТА ПРОМИСЛОВОЇ БЕЗПЕКИ УКРАЇНИ**  
**ТЕРИТОРІАЛЬНЕ УПРАВЛІННЯ ДЕРЖАВНОЇ СЛУЖБИ ГІРНИЧОГО НАГЛЯДУ**  
**ТА ПРОМИСЛОВОЇ БЕЗПЕКИ УКРАЇНИ У ХАРКІВСЬКІЙ ОБЛАСТІ**

**ДОЗВІЛ**  
**№ 795.14.63**

**Дозволяється Товариству з обмеженою відповідальністю «Харківенергомонт»**

місце державної реєстрації: 61017, м. Харків, вул. Сірняківська, 1  
код за ЄДРПОУ: 32832085  
код виду діяльності згідно з КВЕД: 33.12

**виконувати:**

1. монтаж, демонтаж, налагодження, ремонт, реконструкція, технічне обслуговування машин, механізмів, установочних відділень і деталей;
- механічне устаткування, цільні частини та їх елементи систем гідростатичного природного газу суф'єктиві господарств (вкл. відвідних), а також гідростатичне обладнання потужністю понад 100 кВт;
- електричне устаткування електричних станцій та мереж, механічне електрообладнання напругою понад 1000 В;
- парові і водогрійні котли теплопродуктивністю понад 0,1 МВт і надкритні і водогрійні котли теплопродуктивністю понад 0,1 МВт;
- посудина, що працюють під тиском понад 0,05 МПа;
- трубопроводи пари та гарячої води з робочим тиском пари понад 0,05 МПа і температурою води вище 110 °С, які підлягають реєстрації в територіальних органах Держгірпромнагляду;
2. монтаж/демонтаж роботи;
3. створення систем гідростатичного природного газу, крім відвідних;
4. зварювання деталей із сталевими, титановими та дюралюмінієвими;
5. роботи в ділянці електроустановок напругою понад 1000 В (вл. 10кВ);
6. роботи в котельнях, залученому просторі (котельні, блочні, топкові, трубопроводів);
7. роботи, що виконуються на висоті 5 метрів і більше над поверхнею ґрунту, з використанням або робочого майдану;
8. зварювання, газозахисної, наплавки роботи.

на підставі заяви № 3/903 від 22.08.2014 р., висновку експертів ДП «Східний енергетичний центр Держгірпромнагляду України» № 63.2.01.2.01-1761.14 від 22.08.2014р.

за умов дотримання вимог законодавства з питань охорони праці та промислової безпеки.

Довіда діє з 28 вересня 2014 року до 27 вересня 2019 року

В.А. начальник територіального управління  Ю.С.Овдієв

Дата видачі 28 вересня 2014 року


Строк дії дозволу продовжено до 29 вересня 2019 р. на підставі заяви № 3/903 від 22.08.2014 р.

Строк дії дозволу продовжено до 29 вересня 2019 р. на підставі заяви на продовження строку дії дозволу від 19.09.2014 № 3/903/14-01-01 від 19.09.2014 р. з подальшим листом Держгірпромнагляду від 09.09.2014 № 63.2.01.2.01-1761.14

(найменування документа)

Керівник (заступник керівника) органу, що видав дозвіл  М. П.



**ДЕРЖАВНА СЛУЖБА ГІРНИЧОГО НАГЛЯДУ ТА ПРОМИСЛОВОЇ БЕЗПЕКИ УКРАЇНИ**

**ДОЗВІЛ № 952.14.30**

Дозволяється Товариству з обмеженою відповідальністю «ХАРКІВЕНЕРГОМОНТ» (Група спеціалістів з неруйнівного контролю – ВП)

місце державної реєстрації: 61017, м. Харків, вул. Сірняківська, 1  
код платника податків згідно з ЄДРПОУ: 32832085  
код виду діяльності згідно з КВЕД: 33.12


**виконувати технічний огляд (крім первинного та позачергового у разі закінчення граничного строку експлуатації, виникнення аварії), випробування (неруйнівний контроль: візуально-оптичний (VT), ультразвуковий (UT), магнітопорозонний (MT), руйнівний контроль: визначення твердості), експертне обстеження, технічне діагностування машин, механізмів, устаткування підвищеної небезпечності:**

- парові і водогрійні котли теплопродуктивністю понад 0,1 МВт;
- посудина, що працюють під тиском понад 0,05 МПа;
- трубопроводи пари та гарячої води з робочим тиском пари понад 0,05 МПа і температурою води вище 110 °С, які підлягають реєстрації в територіальних органах Держгірпромнагляду

на підставі заяви власника від 22.09.2014 вх. № 6691/0/2-14, висновку експертів ДП «Східний ЕТЦ» від 15.09.2014 № 63.2.01.3.01-1930.14

за умов дотримання вимог законодавства з питань охорони праці та промислової безпеки.

Довіда діє з 29 вересня 2014 р. до 28 вересня 2019 р.

Перший заступник Голови  М. П. В.А.Шайтан



# DOCUMENTS:

Товариство з обмеженою відповідальністю  
"ХАРКОВЕНЕРГОРЕМОНТ"

Додаток до ліцензії АЕ № 526054,  
видаваної Держархітектурною інспекцією України  
зказом №31-П від 01 серпня 2014 р.  
(без ліцензійної надписки)

### ПЕРЕЛІК РОБІТ

ПРОВАННЯ ГОСПОДАРСЬКОЇ ДІЯЛЬНОСТІ, ПОВ'ЯЗАНІОЇ З СТВОРЕННЯМ ОБ'ЄКТІВ АРХІТЕКТУРИ  
(включаючи об'єкти архітектури, інші за складністю архітектурно-будівельного рішення  
та (або) інженерне обладнання належить до ГУУ Указом №31-П)

4.00.00 Виробельні та монтажні роботи		
4.05.00 Завдання комплексної конструкції	5.00.00 МОНТАЖ ІНЖЕНЕРНОЇ МЕРЕЖІ	
4.10.00 Монтаж інженерних споруд	5.01.00 Монтаж внутрішніх інженерних мереж, систем, споруд та засобів вимірювання	
4.11.00 Монтаж електроприводних кранів-автоматів, споруд на обладнанні	5.01.01 Підприємства та комплекси	
4.12.00 Будівництво адміністративних споруд на комплексах	5.01.02 Станції	
4.13.00 Монтаж технологічних установок	5.01.04 Газопостачання та газобудівництво	
4.17.00 Виконання спеціалізованих робіт (включається відповідно до вибраних спеціалізованих установок)	5.01.05 Технологічне будівництво	
- Електроенергетичне обладнання	5.01.07 Електроенергетика, електрообладнання і електроавтоматика	
- Обладнання адміністративних споруд	5.01.08 Автоматизація і контролюючо-вимірювальні пристрої	
- Обладнання теплової енергетики	5.02.00 Монтаж зовнішніх інженерних мереж, систем, споруд, пристроїв і засобів вимірювання	
- Підприємства на підприємствопромишленого обладнання	5.02.01 Підприємства	
- Технологічне обладнання	5.02.02 Підприємства і окремі об'єкти	
- Технологічне обладнання	5.02.04 Газопостачання	
4.18.00 Класи кранів (відповідальності) об'єктів будівництва:	5.02.06 Електроенергетика, електроавтоматика	
- клас СС2 – зовні кранів	5.02.08 Класи кранів (відповідальності) кранівних мереж, систем, споруд	
- клас СС2 – середні кранів	- клас СС2 – середні кранів	
4.19.00 Інше будівництво		

Заступник Голови



А.Ф. Гринор

Серія АЕ

ЛІЦЕНЗІЯ

№ 526054

ДЕРЖАВНА АРХІТЕКТУРНО-БУДІВЕЛЬНА ІНСПЕКЦІЯ  
УКРАЇНИ

Господарська діяльність, пов'язана із створенням об'єктів архітектури

Товариство з обмеженою відповідальністю  
"ХАРКОВЕНЕРГОРЕМОНТ"

Ідентифікаційний код  
виробничої особи

32832085

Місцевий код  
виробничої особи

61017, Харківська обл., м. Харків,  
вул. Сірська, 1

Повільність акту на

1 стор.

Дата прийняття рішення  
та номер наказу про  
введення акту

01 серпня 2014 р. № 31-П

Срок дії акту

з 01 серпня 2014 р.  
по 01 серпня 2019 р.

Заступник Голови



А.Ф. Гринор

Дата видачі акту

26 серпня 2014 р.

BUREAU VERITAS  
Certification



Limited Liability Company  
«KHARKOVENERGOREMONT»

Serikivska Str. 1, Kharkov, 61017, Ukraine

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

Technical re-equipment, reconstruction, modernization, restoration, repair and installation of power equipment of TPP, CHPP, HPP and power supply facilities of industrial enterprises.

Original cycle start date: 16 March 2018  
Expiry date of previous cycle: NA  
Certification / Recertification Audit date: 14 March 2018  
Certification / Recertification cycle start date: 16 March 2018  
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 15 March 2021

Certificate No. UA228768 Version: 0 Revision date: 16 March 2018

Olga Syryshyna  
Signed on behalf of BVCH SAS UK Branch

Certification body address: 8<sup>th</sup> Floor, 68 Finsbury Street, London E1 6NG, United Kingdom  
Local office: 8th Floor, 26, Simion Petryura St., Kyiv, 01032, UKRAINE

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by contacting the organisation.  
To check this certificate validity please call +380 44 204 16 00



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BUREAU VERITAS  
Certification



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To check this certificate validity please call +380 44 204 16 00



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# GEOGRAPHY PROJECTS





FOR NOTES:



- more than 15 000 m<sup>2</sup> of production and storage facilities, courtyard of more than 5 000 m<sup>2</sup>;
- availability of the bridge crane with a load-carrying ability of 15 tons
- access for long length vehicles under a bridge crane;
- electric loaders with a load-carrying ability of 3.5 tons
- proximity to railway

#### Contact details:

##### Address:

61017, Ukraine, Kharkov, Serikovskaya str.,1

##### Contact telephone numbers:

###### Reception:

+38 (057) 728 41 51;

fax: +38 (057) 728 41 89

###### Marketing and Sales Department:

+38 (057) 728 41 56; fax: +38 (057) 728 41 57



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