



LTD GROUP of COMPANIES "RUSGROUP MOSCOW"



BUILDING OF THE POWER OBJECTS AND
REPAIR OF ENERGETIC EQUIPMENT



LTD GROUP of COMPANIES “RUSGROUP MOSCOW”

Building of the power objects and repair of energetic equipment

Dear partners we are glad to inform you that we perform as the most successful and reliable company in the building field.

LTD GROUP of COMPANIES "RUSGROUP MOSCOW" was organized for alliance and international operation of Russian leading firm in many spheres, for example:

- Building of houserooms, social objects and commercial broker;
- Modernization, rebuilding and maintenance of parallel-flow and concerned equipment;
- Performance of single project works;
- Oil and gas output, their refining.

Company has all required licenses and permissions for all performed actions.

Our company sets ambitious targets and never is satisfied with achieved results. We want that client could completely trust our experience and expertise not only in Russia but in all countries where they need professionally fulfilled objectives. We believe that there is always an opportunity for continuous improvement of our product, improvement of employees' qualification level, waste reduction and quality guarantee for our customers.

We always carefully listen to customers' requirements and partners' wishes, cohering our experience with experience of leading companies.

We are interested in using of new technologies and try to be in the swim of all gadgets at the market. Our company cooperates with partners from the Ukraine, Belorussia, Kazakhstan, Turkey, United Arabs Emirates, Syria and Jordan.

One of the objectives for establishing of this company group is to support economy and infrastructure development in Iraq. We are also interested in development of commercial and economical relationship between Russia and Iraq, particularly successful returning of Russian companies to Iraq market. It is possible due to cooperation with Iraqi partners in oil and gas output, electrical, building and other industries.

We are sure that together we can achieve the success and will be glad to take part in sharing projects and cooperation.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

Building of the power objects and
repair of energetic equipment



"BALAKOVSKY GIDROELECTROMONTAJ" Ltd.
CJSC "VOLGA-SPEZGIDROENERGOMONTAJ"
"KAMSPEZENERGO"
"ZIMLA-SGEM" Ltd.
OJSC "TURBOREMONT-VKK"
"MONTAJENERGO" Ltd.
"INTEKHMONTAZH" Ltd.

“BALAKOVSKY GIDROELECTROMONTAJ” Ltd.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"BALAKOVSKY GIDROELECTROMONTAJ" Ltd.



O.L. Moshinsky BalGEM" Ltd. Director

Gentlemen! Dear colleagues by the industrial area. I'm glad to greet you on behalf of "Balakovo Hidroelectromontaj" Ltd ("BalGEM" Ltd.) and to invite you to mutually beneficial co-operation. In the person of "BalGEM" Ltd. you will have a reliable partner, which performs timely done and qualified hydro electric mounting works and testing installation works. This fact is confirmed by more then 40 years of experience of "BalGEM" Ltd working stuff. Our company has a firm grip on the future. We are glad to find new partners and we also hope for the long-term effective and mutually beneficial cooperation.

"Balakovo Hidroelectromontaj" Ltd. main types of activities are:

All kinds of electric mounting works within building, expansion, reconstruction, technical re-equipment and repair works of energy-objects.(Nuclear Power Station, Hydro Electric Power Station, Heat Electro power Station p/station till 500kW including) and production companies.

Complex electrification of social objects, separate buildings and constructions:

Building of air and cable power lines

Project and exploratory works.

Production of electrotechnical equipment and electro technical constructions;

Completeness of objects with equipment and materials.



Balakovsky Nuclear Power Station



Kole Nuclear Power Station

Our permanent partners are:

Balakovsky Nuclear Power Station;
Kole Nuclear Power Station ;
Kalimskaya Nuclear Power Station;
Rostov Nuclear Power Station;
OJSC «Saratov energo»;
OJSC «Samara energo »;
OJSC «Penza energo »;
OJSC «Saratov Neftegas»
OJSC «Samara Neftegas»;

Saratov Hydro Electric Power Station;
«By Privolzhskaya railway» - branch of OJSC
«RZD»;
OJSC «Saratov Petroleum Plant»;
OJSC «Balakovo Rezina Technika»;
«European furniture company» branch of OJSC
«Shatura»;
«Balakovsky Mineral Fertilizing»;
JSC «Wolsk cement»;



Kalimskaya Nuclear Power Station

History of “Balakovo Hidroelektromontaj” Ltd.

In 1965 All-Union trust “Hydro Gidorelektromontaj” Ltd. decided to organize in Balakovo the electric mounting area to perform works in power-generating objects of Middle Volga.

The first All-Union test for the young stuff became the putting of 24 hydro- units of Saratov Hydro Electric Power Station into operation, besides the generating capacity on Heat Electro Power Station 2,3,4,5, Rubber-technical Plant, Chemical Fiber, Chemical Fertilizing Plant, Saratov Irrigating Canal and other objects in Middle Volga. The next huge object was building and testing installation works of 4 Powerblocks of Balakovsky Nuclear Power Station.

Such a great work performed by Balakovo mounting trust management “Hydro Elektromontaj” provided the company with a good experience of all kinds of hydro electric mountings and testing installation works.

Formed at that time high qualified stuff now is a base of the present Company.



**Saratovskaya
Nuclear Power Station**



Engineering net



ORU 500 kW



LTD GROUP of COMPANIES
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"BALAKOVSKY GIDROELECTROMONTAJ" Ltd.

GENERAL INFORMATION ABOUT THE COMPANY

Specialists of the Company have almost 40 years of working experience in building, reconstruction and repair of power objects in different branches of economics.

There are 390 qualified employees in the Company. There is a transport and specialized building machines. There is a body shop, where the metallic constructions and equipment are produced. There is an electrotechnical laboratory and a developed system of storage. The basic production area of the Company is 37751 meters.

"Balakovo Gidorelektromontaj" Ltd. is a member of Electric Mounting Union of Companies – "Electric Mounting Union", it joins nearly 15 000 high-qualified personnel of the Companies, located in different geographical and economical Parts of Russian Federation.

The Company performs all the works related to mounting, testing and setting of the electro technical devices, security systems, control and automation systems of technological processes on the hydraulic, heat and nuclear electro power stations, and on manufacturing companies.

Organization, preparation and work performance realize employees with a great experience and high-qualification. "Balakovo Hydro Gidorelektromontaj" Ltd. has a specialized equipment for mounting and general repair of power producing transformers, and also equipment for welding the rust prevention and aluminum alloys.

High quality of the works, performed by the personnel, is provided by the quality system control. Its basic elements are:

- Timely done engineering preparation and realization of works;
- Periodic training of employees of all levels;
- Organizational and technological quality control;

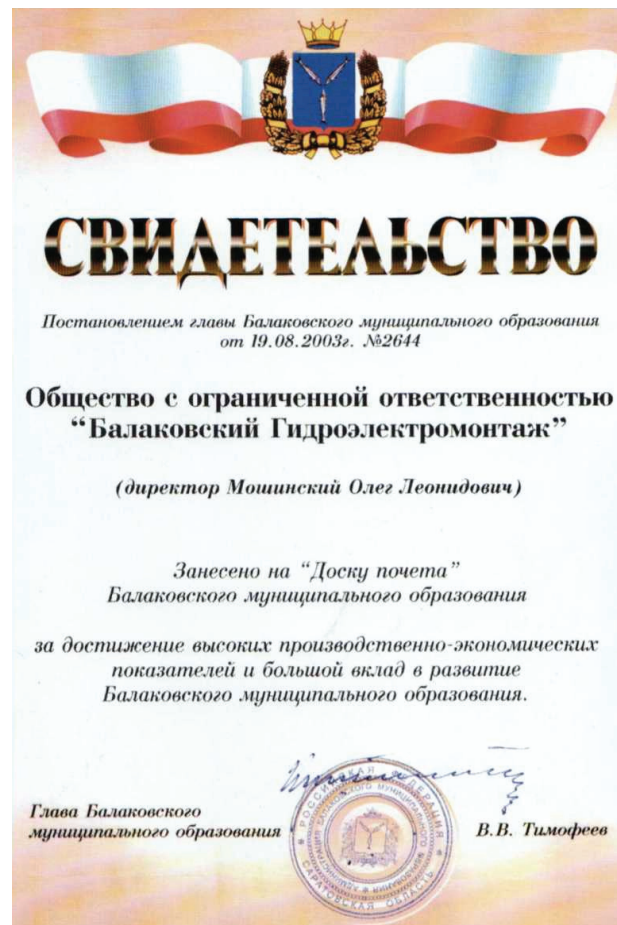
Quality of works, performed by "Balakovo Gidorelektromontaj" Ltd. is confirmed by the long-term cooperation with different companies and positive opinions about the performed works. Now a days the company prepares for the Quality System ISO 9001 certification.



KTPG 630/10/04



WLI (wire SIP)



CERTIFICATE

Resolved by the head of Balakovo Puplic Edu-
cation
dd 19.08.200. №2644

Limited Liability Company
« Balakovo Hydro Electric Mounting » Ltd.
Company
(Director MoshinskyOleg L.)

Is registered on the board of respect
of Balakovo Puplic Education
For the achievement of high production-
economics coefficient
and a big input into development of Balakovo
Puplic Education.

Head of Balakovo Puplic Education

V.V. Timofeev



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"BALAKOVSKY GIDROELECTROMONTAJ" Ltd.



C12

Federal service of
Environment, Technological and Nuclear control

LICENCE

Number of registration BO-03-101—1423 dd. 06th of September 2006

Licence is given to Limited Liability Company «Balakovo Hidroelektromontaj»
("BalGEM" Ltd.)

Legal address: 413840, Saratov Region, Balakovo city, Zaovrazhnaya Str.46

This licence gives a right to provide maintenance and service of Nuclear Stations to
an exploiting partner.

Foundation for issue of licence is an application dd. 14.02.2006 # 111, the resolution
of Director of Nuclear Radiation Safety Control dd.04.09.2009 #BJ-1897

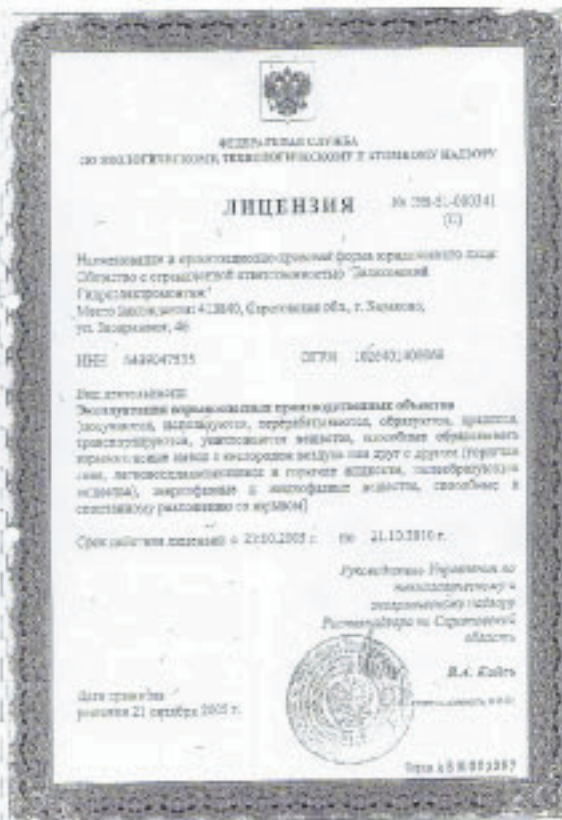
Licence expiry date

til 08th of September 2011

The licence is acting in accordance to attached conditions, which is its important part

Director of
Licensing authority

V.M Yanklovich



C10

FEDERAL AUTHORITY OF ENVIROMENT, TECHNOLOGY AND NUCLEAR
CONTROL

LICENCE

38-51-000341(C)

Name and incorporate legal form of organization:
Limited Liability Company «Balakovo Hidroelektromontaj»

Legal address: 413840, Saratov Region, Balakovo city, Zaovrazhnaya Str.46

Tax identification no: 6439047535

Activity category:
Exploiting of highly explosive objects

[Supply, use, recycle, generate, store, transport, substances, that can generate the
dangerous reaction with air oxygen or with each other(fuel gases, highly inflam-
mable liquids, dust creating substances), are being destroyed,
solid-phase and liquid-phase substances]

Expire date: from 21.10.2005 til 21.10.2010

HEAD OF ENVIROMENT, TECHNOLOGY AND NUCLEAR CONTROL
OF ROSTECHNADZOR IN SARATOV REGION

V.A Kayl



Federal service of
Environment, Technological and Nuclear control

LICENCE

Number of registration BO-02-101—1723 dd. 27th of June 2008

Licence is given to Limited Liability Company
«Balakovo Hidroelektromontaj» Ltd. ("BalGEM" Ltd.)

Legal address: 413840, Saratov Region, Balakovo city, Zaovrazhnaya Str.46

This licence gives a right to built Nuclear Station Blocks to provide maintenance and services an exploiting partner.

Foundation for licence issue: an application dd. 21.05.2008 # 702, the resolution of acting Director of Nuclear Radiation Safety Control dd.05.06.2008 #BJ-2328

Licence expiry date till 27th of June 2013

The licence is acting in accordance to attached conditions of its acceptance, which is an important part of licence

Director of
Licensing authority

V.V. Utkin



The State Committee of Russian Federation on civil defence, emergency and disaster hazard liquidation

LICENCE

Given to: Limited Liability Company
«Balakovo Hidroelektromontaj» Ltd. ("BalGEM" Ltd.)

Location; (place of living for the private enterprises): 413840, Saratov Region, Balakovo city, Zaovrazhnaya Str.46

Tax identification no: 6439047535

Main State Registration no: 1026401400068

On the basis of the Order of Emergency Risk Department of Russia from 29.12.2005 #1022

Resolves realization of mounting works, repair and maintenance of fire safety of buildings and constructions

Address of place of licenced activities realization:
413840, Saratov Region, Balakovo city, Zaovrazhnaya Str.46

List of activities is attached
Date of issue: 29th of December 2005
Date of expire: 29th of December 2010

Chief Government inspector of Russian Federation on Fire Control

Kirillov



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"BALAKOVSKY GIDROELECTROMONTAJ" Ltd.



Открытое акционерное общество
«ГАЗПРОМ»

СВИДЕТЕЛЬСТВО

об аккредитации

A-0058

Регистрационный номер 0058 – Э/РН от 29 ноября 2007 г.

Управление энергетики ОАО «Газпром» разрешает осуществление деятельности по ремонту и наладке оборудования энергохозяйства дочерних обществ и организаций ОАО «Газпром».

Свидетельство об аккредитации выдано

Обществу с ограниченной ответственностью

«Балаковский Гидроэлектромонтаж»

Саратовская область, г. Балаково, ул. Засражная, 46

ИНН 6439047535

Условия осуществления данного вида деятельности

электротехническое оборудование на объектах энергохозяйства дочерних обществ и организаций ОАО «Газпром».

Срок действия Свидетельства об аккредитации до 28 ноября 2010 г.

Начальник Управления энергетики
ОАО «Газпром»

Г.Р. Шарц

М.П.

Свидетельство об аккредитации продлено до _____ г.

М.П. Подпись _____





Joint Stock Company
"GASPROM"

CERTIFICATE
accreditation

A-0058

Registration no 0058 – 3/PH from 29th of November 2007

Energetic administration JSC "Gasprom" resolves realization of repair and equipment testing activities of branch companies and organizations of JSC "Gasprom" energy-department

Accreditation Certificate is given to
Limited Liability Company

«Balakovo Hidroelektromontaj»
413840, Saratov Region, Balakovo city, Zaovrazhnaya Str.46
tax identification no 6439047535

Terms of the activity realization:

Electric equipment on the objects of energy-departments of brunch companies and organizations of JSC "Gasprom"

Expire date of Accreditation Certificate: till 28th of November 2010

JSC "Gasprom"
Head of Energetic Department

G.R. Shwarz

CJSC 'VOLGA-SPEZGIDROENERGOMONTAJ'



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

CJSC 'VOLGA-SPEZGIDROENERGOMONTAJ'

Yakov Yakovlevich Kovalev

CJSC "Volga-spezgidroenergomontaj"
Managing Director

Volga Assembling Administration is one of the most important components of assembling subdivision, that served as a base for establishing of the All-Union trust "Spezgidroenergomontaj" that specializes in assembling of water-power energetic equipment.

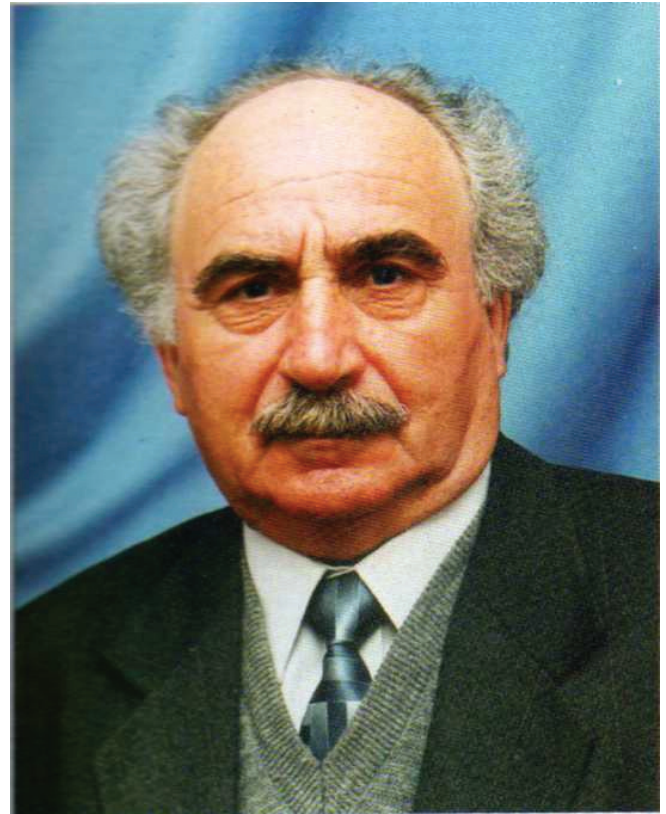
In the beginning of hydro-power engineering establishing were such pioneers as ex-workers of Leningrad Metal Plant.

At facilities of big Volga hydro-power objects skills of equipment assembling engineers and assembling workers grew rapidly.

In the 50s of the 20th century in 5 years after finishing of Great Patriotic War huge work of state program "Big Volga" implementation began. This program included development of energy engineering, shipping and melioration of central part of Russia.

Almost at the same time works were performed at the biggest building of the century: Gorkovsky waterfall facility in the middle of the Volga stream near Gorodez, this complex is also included Gorkovsk hydroelectric power station and shipping lock; Kamsky waterworks facility near Perm - hydroelectric power station and navigation facilities, Kuibyshev waterworks facility - hydroelectric power station and navigation facilities near Togliatty, Zimlyansky waterworks facility with constructions of Volga Donsky navigation canal.

Constructions of Zimlyanski navigation canal and Volga-Donsky canal became one of the most important milestones in establishing and recognition of "Spezgidroenergomontaj" trust in the highest levels of the Energy Ministry of the USSR, as a very important firm in production of specialized works during building of hydroelectric power station and big pumping stations, canals, shipping and irrigation system.



For building of Kuybyshev hydroelectric power station, where for the first time method of installation of hydroaggregates with big blocks, was impemented with connection of installation works with building ones, that let reduce greatly building period in general, the trust "Spezgidroenergomontaj" was awarded with "Labor Red Flag Order" and Manager of Kujbyshev assembling administration Ivan Vasilievich Nikiforov was awarded with rank of "Hero of Socialist Labour" .

Among the first trust "Spezgidroenergomontaj" heroes was Alexey Michailovich Tihashkov – adjusters of turbines operators Team Leader – for the highest production achievements at buildings of Kamsk hydroelectric power station (Perm).

Viktor Alexseevich Vitaljev – adjusters operators Team Leader – for the highest achievements during Stalingrad hydroelectric power station building.

Many specialists of "Spezgidroenergomontaj" took part in building of notices energetic complexes and further great constructions were awarded with high state prizes.

Experience of building great constructions at the Volga became the Academy of world-wide meaning, here the problems of international project realization were solved, based on Socialist state tenor.

Here new technological methods of manufacturing organization were worked out, new constructs were created and discussed, mechanization etc., that was a base for the biggest constructions realization in Syberia, East, the biggest industrial complexes of Volga-Ural regions: Avtovaz in Togliatty; KamAZa in Naberejnye Chelny, Atommasha in Volgograd and a number of other industrial complexes.

Powers of Voljsky trust "Spezgidroenergmontaj" assembling administration were involved in all of these activities.

In 70-80s of the last century powers of Voljsky "Spezgidroenergmontaj" trust administration was involved mostly at the objects of Saratovskyya hydroelectric power station and Cheboksarskaya hydroelectric power station on the Volga, Nijnekamemskaya hydroelectric power station on the Kama.

With finishing of last Volga-Kamsky cascade hydroelectric power stations building it was decided in Energy Ministry of the USSR to impose on the trust "Spezgidroenergmontaj" huge works of throughout repair, reconstructions,

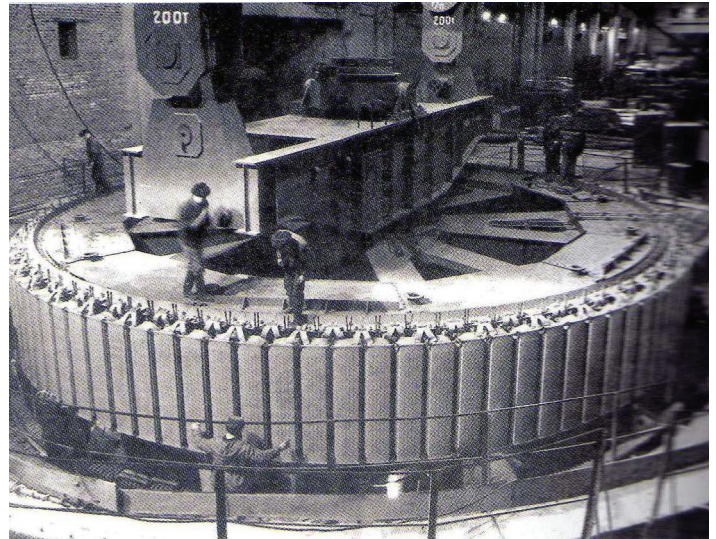
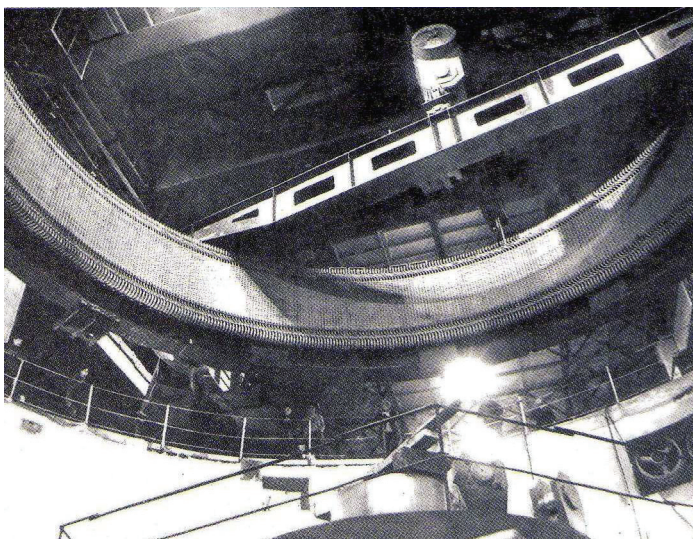
technical reequipment, operational development of water power and hydraulic engineering Volga and Dnepropetrovsk cascades of hydroelectric power station.

Main powers of Volga administration are involved in fulfillment of these tasks.

At the same time "Bolshaya Volga" program further task began to be fulfilled.

For solution of the problem with irrigation of Volga left bank dry uplands big building companies of the USSR Energy Ministry were involved – Volgagidrostoj in Volgograd region. Saratovgesstroj in Saratov region, moreover main committee of objects building for irrigation and irrigating areas reclamation – "Glavsredvolgostroy".

Main powers of Volga administration were involved in building of irrigation system in Saratov region: pumping stations of Saratov irrigating canal in the honor of E.E. Alekseevskij, at its five pumping stations were performed the following works: production of pipelines with diameter 2840 mm, and gland temperature-sedimentary compensators for them, blockouts for grooving elements, other non standard equipment with weight more than 5 000 tones. All works of production at the own base and installation works at the objects were performed heavily and with high tension of strengths due to severe drought in 1972.





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CJSC 'VOLGA-SPEZGIDROENERGOMONTAJ'

The first queue of Saratov canal (two units for every pumping station) was activated a year before stated date.

The same irrigation works were performed at Privoljski and Komsomolsky irrigating systems.

Works were begun at Privetskaya irrigating system in Saratov region and Gorodischensky irrigating system in Volgograd area.

Gas output and methods

For transportation of outsize elements of pumping line and jacks with diameter 3200 mm. Saratov Project Institute projected and we produced special low seat trailers that let to transport non standard objects, in the city with contact net or on the roads of republic.

These trailers have wide application also in the other economic tasks. Volga-SGEM has the right for its production, they are made on the base of tractive unit of Kamaz car.

Huge part of specialized works of throughout repairs and reconstructions were performed at the hydroelectric power station in this period.

At Volga hydroelectric power station in the honor of the 22nd part convention (Stalingrad)

-blades of working wheels made of carbonic steel were changed to non-rusting.

-for the first time operation of starter generator assembling to the ring was performed at the assembling ground with stacking and pressure test became core and winding of starter without cutoff point.

- for the first time new method of rust prevention on overflow dam gate was used by evaporation with zinc and aluminium.

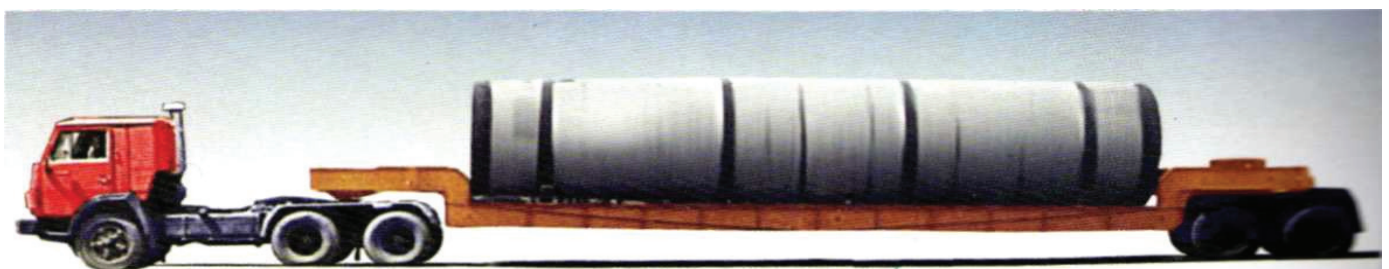
-complex works at all units of turbine and generators were performed.

Throughout repairs and reconstructive works of guiding devices, huge works at plant stations (water, air, oil etc.).

Since the 90s and till now working time for throughout repairs, reconstructions and techno reequipment illustrate full loading of CJSC "Volga-SGEM".

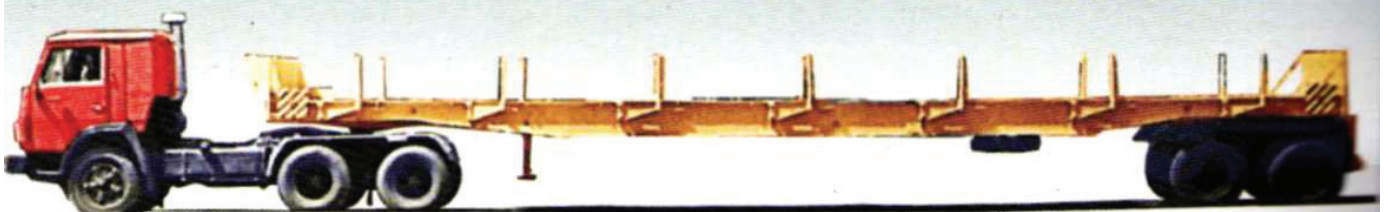
With the strengths of Volga "Spezgidroenergomontaj" administration huge work was performed at nuclear heating plant – Balakonovsk, Volgadonsk, assembling works were started at Tatarskaya nuclear power-station, where assembling works were performed at the object of water supply.

According to the trust apply we sent on an assigning



Semitrailer with low seat – 10-PL-1220

carrying capacity=11.0 gm, diameter of tube links – till 3.2 m, link length – till 12.0 m



Semitrailer with low seat –PL17

carrying capacity=11.0 gm, load length – till 14.5 m, load width – from 2.5 m till 3.5m

engineers and workers – specialists with high professional preparation for work at foreign objects in such countries as Egypt, Syria, Argentina, India, Vietnam, Brazilia, Iraq etc.

Total headcount of working people in Volga administration in pre-reformation period was more than 800 employees.

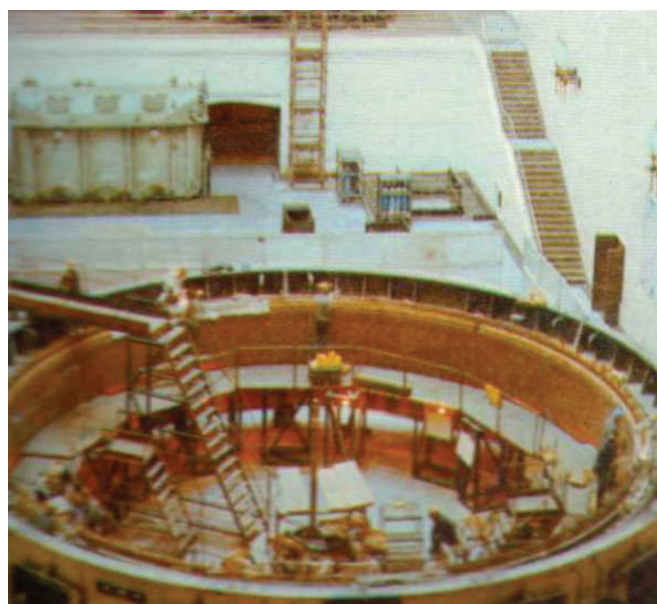
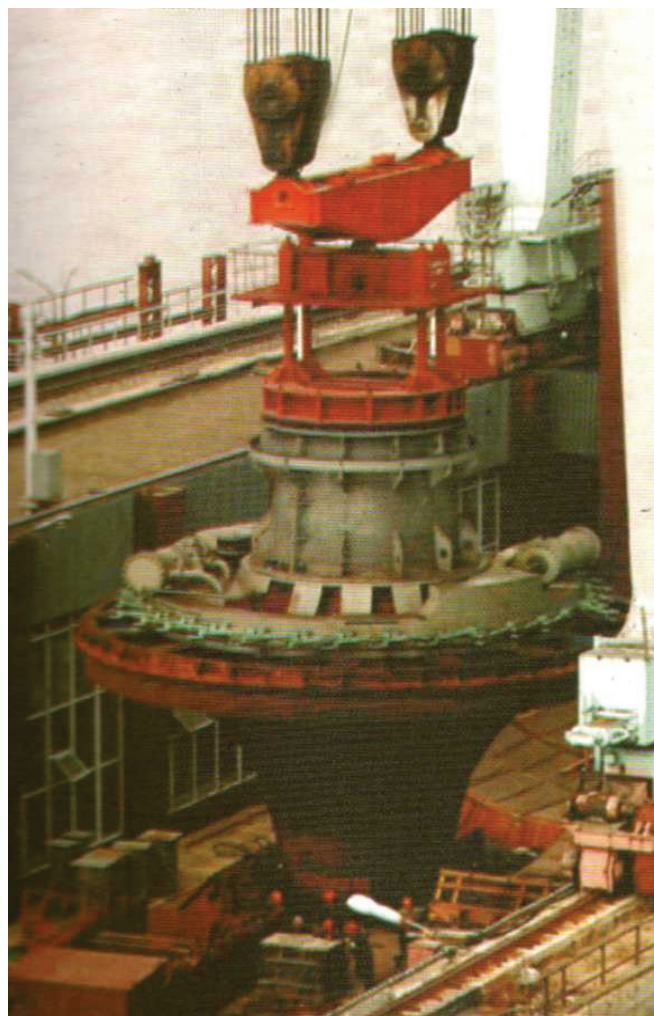
During last 15 years in the Volga and the Ural regions no building-assembling works were performed at the objects of energy, power engineering.

With the stop of building-assembling works life of specialized assembling organization has not stopped, a period of reconstruction, technical reequipment began at before arranged stations that gave us an opportunity to survive on the period of after reformation.

In 1991 All-Union trust "Spezgidroenergomaontaj" one of the 1st became Open Stock-Joint Company "Spezgidroenergomaontaj"- OSJC "SGEM". At the same time its regional sub-divisions became stock-joint. Since 1993 former Volga assembling administration of former All-Union trust "Spezgidroenergomaontaj" was reformed into CJSC "Volgaspezgidroenergomaontaj"

Saratovskya hydroelectric power station

Assembling of turbine roof block at exterior assembling area



Voljskaya hydroelectric power station in the honor of the 22nd convention of C.P.S.U.

Assembled and wrapped in the ring stator of hydraulic turbine generator (without cutoff points) at assembling area

“KAMSPEZENERGO”



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"KAMSPEZENERGO"



**Alexander
Ivanovich
Baykov**

Director

Main parameters of Nijne-Kamskaya hydroelectric power station

16 g/a 78 megawatt

Total power, megawatt

1248

Calculated force, m

Building years

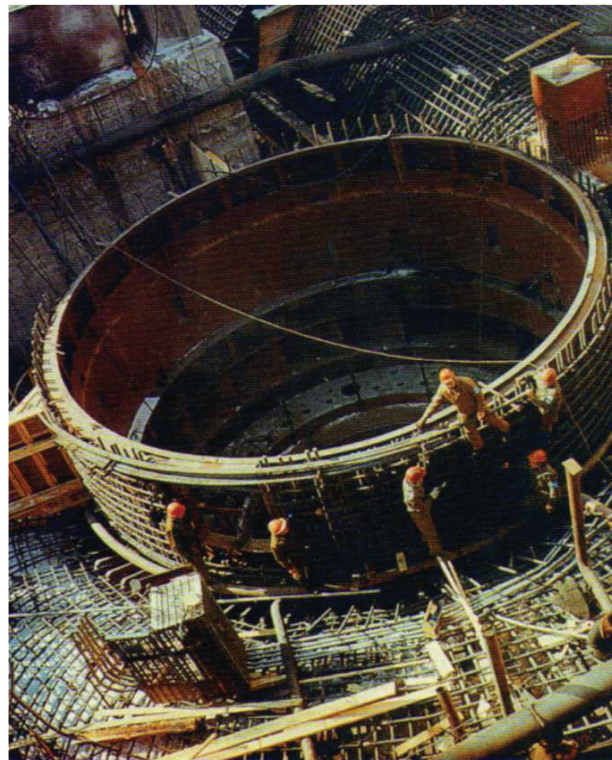
1975-1984

Nijne-Kamskaya hydroelectric power station





Zeiskaya hydroelectric power station



Nijne-Kamskaya hydroelectric power station
Assembling of mortgage parts and reinforcement

Complex of repair and reconstruction of water-power equipment works are completed at Votkinskaya hydroelectric power station, Chajkovsky City, Udmurtiya.

Now the company performs huge throughout repair and reconstruction of water-power equipment works at Nijnekamskaya hydroelectric power plant/tatenergo/ Naberejnyae Chelny.

Voljsky hydroelectric power station in the honor of V.I.Lenin – throughout repair, reconstructions, techno equipment of water-power equipment with execution of customer function at the plants-suppliers of water-power equipment.

Performs orders for reconstruction of guiding devices, produces glass bushes, pins, shovel and regulating ring in the guiding devices at the base of polymeric materials.

Performs assembling works at hydroelectric power plant Yumaguzinskaya and Davlekanovskaya in Bashkiriya.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"KAMSPEZENERGO"

By own strengths CJSC "Volga-SGEM" performs works of throughout repair, reconstructions and technical reequipment of water-power and hydraulic engineering equipment of Nijegorodskaya hydroelectric power station.

In the following years huge works of total power equipment replacement will be performed, these tasks should be made mostly with the strengths of Nijegorodskij branch of CJSC "Volga-SGEM".

To perform works of reconstruction and technical reequipment at Nijegorodskaya hydroelectric power station it is necessary to build manufacturing base SGEM in Zavolje.



Nijegorodskaya hydroelectric power station

Main parameters of Nijegorodskaya hydroelectric power station

8 g/a 65 megawatt

Total power, megawatt

520

Calculated force, m

Building years

1950-1956

Throughout repair, reconstructions and technical reequipment of hydro-power equipment Pavlovskaya hydroelectric power station (Bashkirenergo).

Throughout repair, reconstructions of pumping equipment at pumping stations and head conduit of Saratovskij irrigative canal.

Saratovskij irrigative canal with productivity of 50 m³/s with 5 pumping stations, equipped with vertical pumps type olv-10-185 with productivity 16.5 m³/s.



Long-distance channel SOK



Machinery room at pumping station

CJSC “Volga-SGEM” manufacturing base in Balakovo

SGEM base in Balakovo was aimed at assembling of water-power electrical equipment of Saratovskaya hydroelectric power station.



Administrative building



Manufacturing base



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"KAMSPEZENERGO"



Hardware shop (former shop of rotary iron cleaning). Production of trash racks for Nijegorodskaya hydroelectric power plant



Strengthening assembling Area. Lock reconstruction of Saratovsk irrigation canal

At production base in Balakovo the following services are performed: airlock equipment repair, production and repair of trash rack for Nijegorodskaya hydroelectric power station and pump stations, production of big non standard pipe lines for pumping stations of irrigation system, water supply responsible user of nuclear power station. On the base territory garage, workshops, storages, shop for metal items production are located.

In the future base in Balakovo will be used for production of non standard equipment and pipe lines, preparation for assembling (rubberizing, chemical protection,) for the second type of Balakovo nuclear power station (the 5th and the 6th blocks).

It is very possible that the future growth of Balakovo hydroelectric power station (till the 8th block) and also building of storage power hydroelectric power station (on the base of SGEM in Balakovo there is a trend to create a shop of pile lines creation).

Certainly in the nearest future power of the production base in SGEM in Balakovo will be used in reconstruction and change of hydro power equipment of Saratovskaya hydroelectric power station for it was historically foreseen.

Main parameters of Saratovskaya hydroelectric power station

21 g/a 60 megawatt: 2 horizontal ones of 45 megawatt: 1 of 10 megawatt

Total power, megawatt

1360

Calculated force, m

Building years

1965-1970



Saratovskaya hydroelectric power station

Novocheboksarsk. Chuvashaya Republic

Cheboksarsk branch establishment of CJSC “Volga-SGEM” after having finished building and assembling of waterpower equipment at Cehboksarskaya hydroelectric power station performed huge work of hydroelectric power station equipment refinement and repair.

At the same time works related to throughout repair of constructions and equipment at heat electro power station #2 and heat electro power station #3 Chuvashenergo.

The branch was liquidated in 2002 due to bankruptcy. Decree of former “Chuvashenergo” Manager Genrich Petrovich Nekryachenko, that was executed by the strengths of “Volga-Spezenergomontaj” at the objects of Chuvashenergo, passed for execution of the order.

Excuse for this branch liquidation is hard economical situation of “Chuvashenergo” system.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"KAMSPEZENERGO"



Cheboksarskaya hydroelectric power station
View from the left bank

Main parameters of Cheboksarskaya hydroelectric power station

18 g/a 78 megawatt

Total power

1404

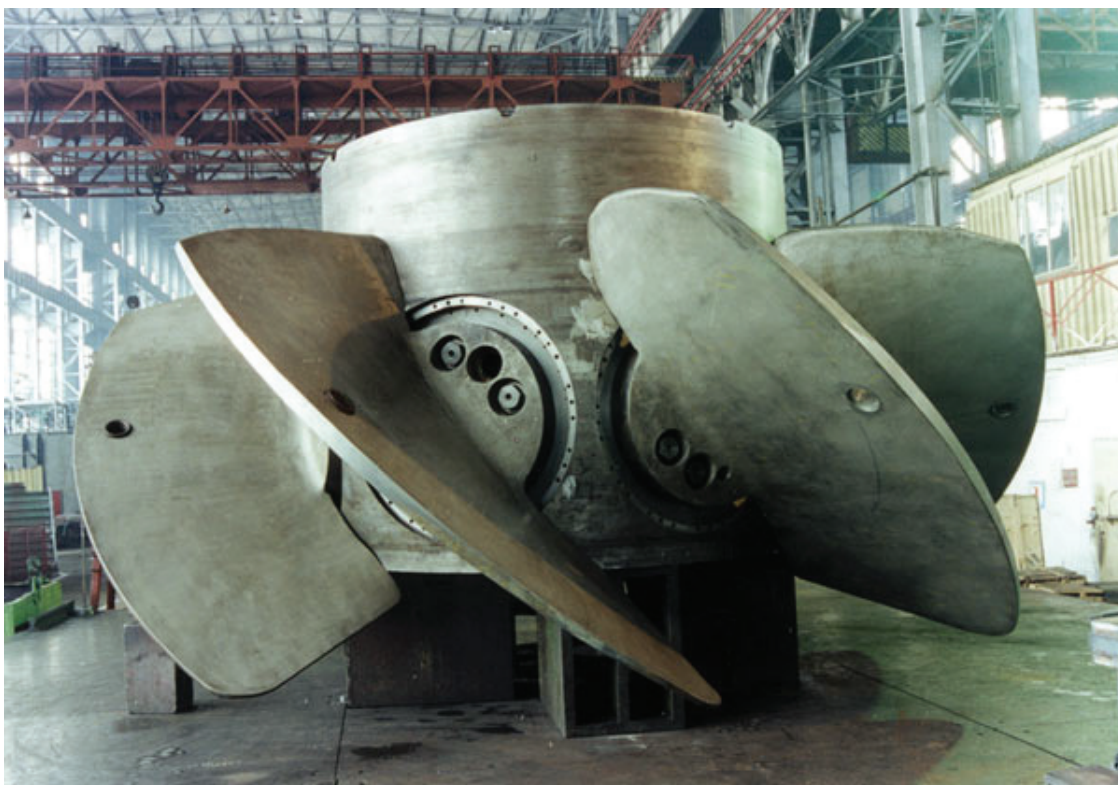
Calculated force,m

Building years

1978-1986



Cheboksarskaya hydroelectric power station



Hydro turbines of Cheboksarskaya hydroelectric power station

“ZIMLA-SGEM” Ltd.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"ZIMLA-SGEM" Ltd.

Viktor Nikolaevich Uzhondin

"Zimla-SGEM" Ltd.
Director



"Zimla-SGEM" Ltd. was established basically on the Zimlyansky building works control Volga area of assembling administration "Spezgidroenergomontaj". Beginning with huge reconstruction and technical reequipment of Zimlyanski hydroelectric power station of "Rostovenergo" branch cooperation agreement was signed between hydroelectric power station and CJSC "Volga-SGEM" to fulfill set targets.

In 1998 a society was established that fulfilled important production targets. On the area of hydroelectric power station manufacturing base was rapidly projected and built, that is necessary for receiving, warehousing and assembling preparation of water-power equipment.

During next three years power energetic equipment for two hydroelectric generators was changed with power increase.



Zimlyanskaya hydroelectric power station

Preparation works for change of two more hydroelectric generators, throughout repair of power equipment and water technical, gates, trashracks reconstructions are performed.

Assembling of hydroelectric generator rotor #3 during hydroelectric generator change



Main parameters of Zimlyanskays hydroelectric power station

4 g/a 50 megawatt

Total power, megawatt

200

Calculated force, m

16

Building years

1956-1960



Industrial base in Zimlyanskays hydroelectric power station area

"CENTER"SGEM Ltd.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"CENTER" SGEM Ltd.

Sergey Aleksievich Barashkov

SGEM "Center" Ltd.
Director



With the strength of SGEM "Center" Ltd. complex works of water supply for energetic equipment of throughout repair are performed at Balakovskaya nuclear power station (all 4 blocks), and also of all reserve diesel electrical station equipment.



Balakovskaya nuclear power station

Works of inspections and repair, preparation for pumping station starting of the 1st starting power unit of Volgodonakij nuclear power station. Throughout repair of water-power and water-technical equipment of Pavlovskaya hydroelectric power station in Bashkortastan republic.



Balakovskaya nuclear power station

“MONTAJENERGO” Ltd.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"MONTAJENERGO" Ltd.

"MONTAJENERGO" Ltd.

"Montajenergo" Ltd is a company, which provides its service of equipment repair and building throughout repair at energetic and industry objects.

The Company is founded in 1999, works in sphere of energy for years, firmly holding positions of the leader on Saratovskaya hydro electric power station.

The main trend of activity of the company today - a provision of normal capacity of work electric station and networks:

the heavy repair, reconstruction of hydro-power, hydro-mechanical equipment water-power station; the repair oil - and air-chillers; the repair mechanism for ascent cargo; the mounting pipe line from carbon and special steel; the repair of the valves. Participating in eight tender sales, conducted Saratovskoy hydro electric power station on right of the undertaking the subcontract work on repair and technical rearmament of the main equipment to stations, "Montajenergo" Ltd has won 98% of all works amount, exposed on sale.



For years of work on Saratovskaya hydro electric power station company has conducted:

- a reconstruction of water unit 1, 2, 10, 24;
- a heavy repair of water unit 13-16, 18-22, 24;
- a change sought-after travell about goatskin tap carrying capacity 2x180t;
- a change of the pipe line TVS diameter 720mm;
- a change pipe line for stewing of the fire water unit;
- a reconstruction of the stair march 16.

Undertaking of the qualitative repair is provided by estimation of the technical condition of the repaired details and nodes of the equipment by methods of the qualitative checking. Execution of given functions laboratory qualitative checking concerns with on enterprise, having certificate about qualifications, issued by Independent organ on qualifications of the laboratory of the qualitative checking - a Federal State unitary enterprise "NIKIMT".



The Laboratory in its work uses all available types of the qualitative checking:

- an ultrasonic method and ultrasonic measurement of the thickness;
- (the method by radiation, by x-rays);
- penetrating materials;
- capillary method.

The Laboratory of the qualitative checking conducts work on following equipment:

- containers, running on pressure over 0,07 MPA steam;
- pipe lines pair and hot water with working steam pressure more than 0,07 MPA and temperature over 115 degrees C0;
- lifting cranes;
- a reservoirs for keeping;
- a blast-fireman and toxic substances;
- technological pipe lines;
- steam pipe lines and hot water.

On Saratovskaya hydro electric power station laboratory of the checking without opening executes following work:

- a colour method - a blades, rod of the servomotor, nodes to acerbity of the barbells of oil receiver.
- an ultrasonic checking - a bolt of the mating gross water turbine, blade bolt, plates full tilts, dry bearing of the plates full tilts, rod servomotor:
 - an ultrasonic measurement of the thicknesses of the wall pipe line technical water, capacities for keeping of oil.
- radio-graphic checking of welded stitches pipe lines of technical water and air pipe line, running on pressure, oil-wire of all diameters.

The most important direction of activity of "Montajenergo" Ltd is a building activity and building of II level indenture constructions.

Disposing skilled personnel with big bilding work experience as well as necessary equipment and mechanism, company executes whole complex of the work in given sphere:

- earthworks;
- an erection carrying and barriering design of constructions and buildings;

- works on device medicine to be taken externally and internally of the engineering networks and systems;
- a work on protection design and equipment;
- a work on decorating of the buildings;
- a montage of the technological equipment.

At present "Montajenergo" Ltd executes the functions Genpodryadchika on Saratovskaya hydro electric power station on capital construction of the complex of the technical facilities guard local zones to stations with using the safe signalizing and raising the buildings checking-admission points and build-ings for mouths OVO.



OJSC "TURBOREMONT-VKK"



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

OJSC "TURBOREMONT-VKK"



N.M. Gorin OJSC "Turboremont – BKK" Managing Director,
Member of board of directors

Being one of the leading firms on the energetic market, JSC "Turboremont – BKK" represents a team of high-qualified specialists, who perform works related to mounting, testing maintenance of the main & additional equipment. To our capacity belong:

- turbines
- hydrotechnical constructions
- pumps, compressors and fans
- pipe lines, plumbingware
- metallic constructions
- cranes
- fire protection systems
- specialists of diving service

OJSC "Turboremont – BKK" produces all kinds of under water-technical works on the depth of 60 m, with video shutting.

Engineer - technical service, specialists of our company are always ready for co-operation with interested companies, with profitable terms for both sides.

OJSC "Turboremont – BKK" was established in April 2003

- registration certificate – series 34 № 001288761
- registration in fiscal administration series certificate 34 № 001202576
- state committee of the RF working with building permit & housing complex D 510204 dd. 06 September 2004

OJSC "Turboremont – BKK" consists of 7 branches & two areas:

- branch in town Volzhsky (territory of OJSC "Volzhskaya Hydro Electro Power Station")
- branch in town Balakovo (territory of OJSC "Saratovskaya Hydro Electro Power Station")
- branch in town Zhigulevsk (territory of OJSC "Zhigulevskaya Hydro Electro Power Station")
- branch in town Chaykovsky (territory of OJSC "Vodkinskaya Hydro Electro Power Station")
- branch in town Perm (territory of OJSC "Kamskaya Hydro Electro Power Station")
- branch in town Novocheboksarsk (territory of OJSC "Cheboksarskaya Hydro Electro Power Station")
- branch in town Zavolzhie (territory of OJSC "Nizhegorodskaya Hydro Electro Power Station")
- Production area in town Ribinsk (territory of OJSC "Kaskad VV Hydro Electro Power Station")
- Production area in town Uglich (territory of OJSC "Kaskad VV Hydro Electro Power Station")



For the period of OJSC "Turboremont – VKK" work, one can surely say that the stuff has achieved the definite success

OJSC "Turboremont – BKK" takes leading position in the energetic branch of Russian contract services. Trying to consolidate its position in the market, the Company organizes different activities in development of service list.

In cooperation with "UK Hydro Generating Company in Wreholsailing" the pilot project was developed in providing services of complex Hydro Electro Power Stations maintenance, it gave an opportunity to create the general approach in achieving of targets.

OJSC "Turboremont – BKK" performs functions of exploitation and interrepair maintenance of main and additional equipment of Hydro Electro Power Stations. Company employees take part in final-control assembly and testing. They control and check the equipment mounting at place. They also develop together with cooperating companies method of emergency alarm system and control the work of equipment in a constant regime. Employees also diagnose the period of optimal work and derivation of hydro units into current repair or into a general repair.

Works related to technical renewal

- Exchange of high pressure compressors in Volzskaya Hydro Electro Power Station -2004
- Reconstruction of Hydro Turbines System # 7 in Volzskaya Hydro Electro Power Station – 2005
- Reconstruction of dam overfall equipment of Volzskaya Hydro Electro Power Station – 2005
- Exchange of high and low pressure compressors in Saratovskaya Hydro Electro Power Station 2005
- Supply and pump exchange in Cheboksarskaya Hydro Electro Power Station – 2005
- Exchange of oil-pressure units in Votkinskaya Hydro Electro Power Station – 2005
- Exchange of automatic control 9 in Votkinskaya Hydro Electro Power Station – 2005
- Exchange of hydro-turbines #15,18, 21,5, 16 on Kamskaya Hydro Electro Power Station -2005
- Exchange of automatic fire putting out system in Cascade Hydro Electro Power Station - 2005





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"RUSGROUP MOSCOW"

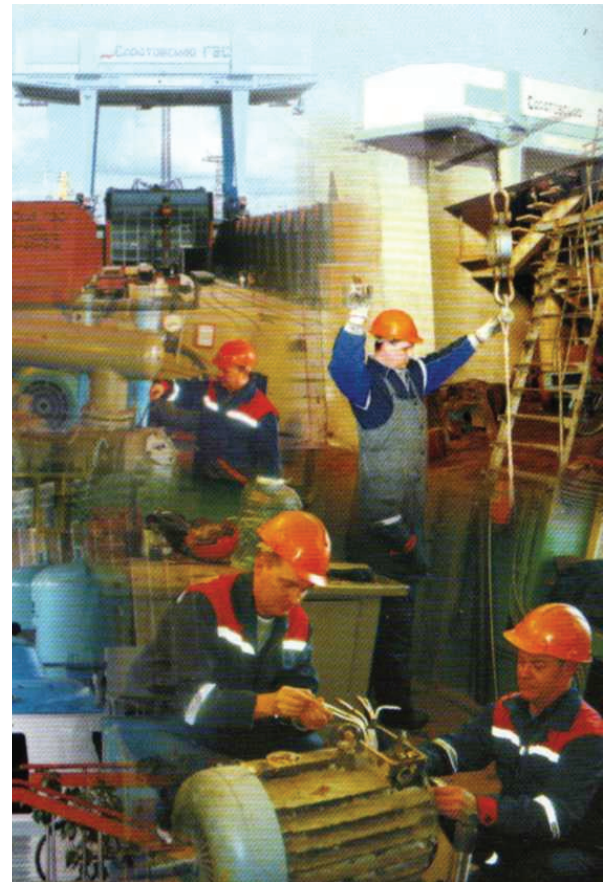
OJSC "TURBOREMONT-VKK"

Balakovo branch

Balakovo branch is one of the biggest contractor, which performs services on OJSC "Saratovskaya Hydro Electro Power Station.

There are 4 areas in the branch structure.
The branch produces:

- All kinds of turbine mechanical part equipment repair;
- Welding works of different level;
- Mounting and dismantling of pipe lines of different diameter;
- Repair of cranes and geared traveling and traversing crane, under crane ways and frame cranes;
- Repair of lock paddles and trashracks;
- Repair of oil-pressure units and regulation system with the following adjustment;
- Repair of removable and fixed air-compressors;
- Repair of valves;
- Repair of pumps of different modifications;
- Exchange and repair of plumber's equipment;
- Providing of under water works;
- Lathe, cutter and drilling works.



Volzhsky Branch

Volzhsky branch of OJSC "Turboremont – BKK" is one of the main contractor on OJSC "Volzhskaya Hydro Electro Power Station". There are 39 workers on 6 production areas.

- High quality of personnel, its experience and production technical abilities allow us to perform all kinds of works on OJSC "Volzhskaya Hydro Electro Power Station":
- current and general repair of mechanical part of generator;
- balancing of generator rotor;
- repair of TBC system with cleanout of lockset reinforcement;
- repair of centrifugal pump and deep-well artesian pump;
- repair of oil-pressure units and regulation system with the following adjustment;
- exploiting, maintenance and repair of cranes;
- gate operations of Hydro units;
- maintenance of the electrical parts of compressor's units;
- under water technical works.



The branch has the park of machines for lathe production, cutter, forging and welding works realization.

Zhigulevsky branch

Performs repair and maintenance of main and additional equipment OJSC "Zhigulevskaya hydroelectric power station. Zhigulevsky branch is one of the biggest subdivision of OJSC "Turboremont -VKK". 126 employees work in the areas.

1. Hydro turbine equipment repair area.

Hydro turbine equipment repair. Repair of additional equipment in the area.

2. Area of generator mechanical parts repair, hydro turbine regulation system, compressor equipment at hydroelectric power station.

Generator mechanical part repair

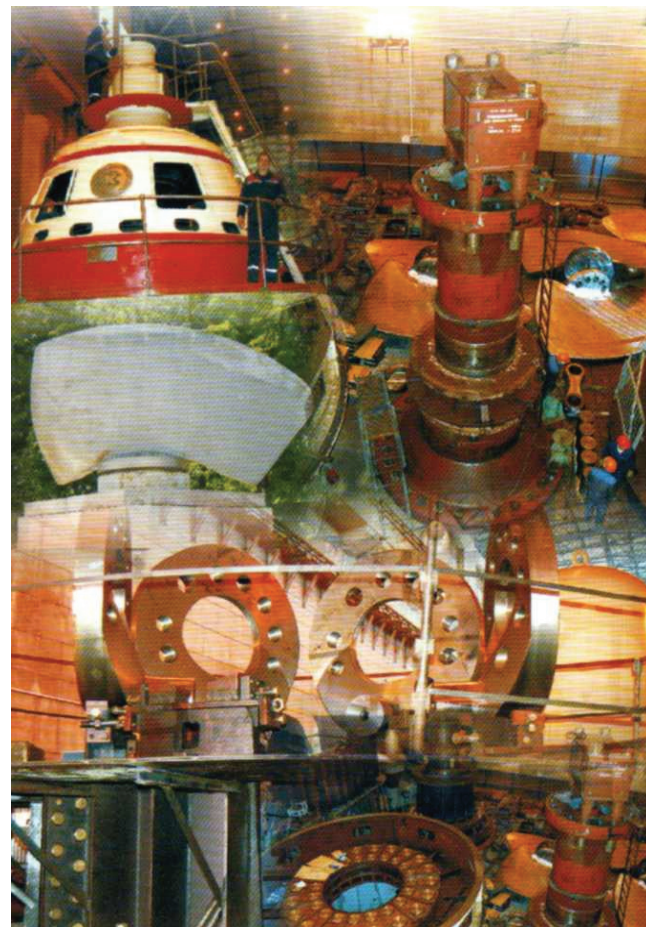
Correction and repair of generator bearings.

3. Repair and maintenance of loading cranes and hydro engineering repair of hydroelectric power station equipment area.

Bridge, gantry loading cranes and hoists works of hydroelectric power station with carrying capacity till 450 tones. Drivers' service and swimming items at hydroelectric power station area are included in this area.

4. Area of repair and maintenance of additional equipment at hydroelectric power station.

Performs repair and maintenance of hydroelectric power station air ventilation system, water supply, canalization, heating and fire-fighting system.



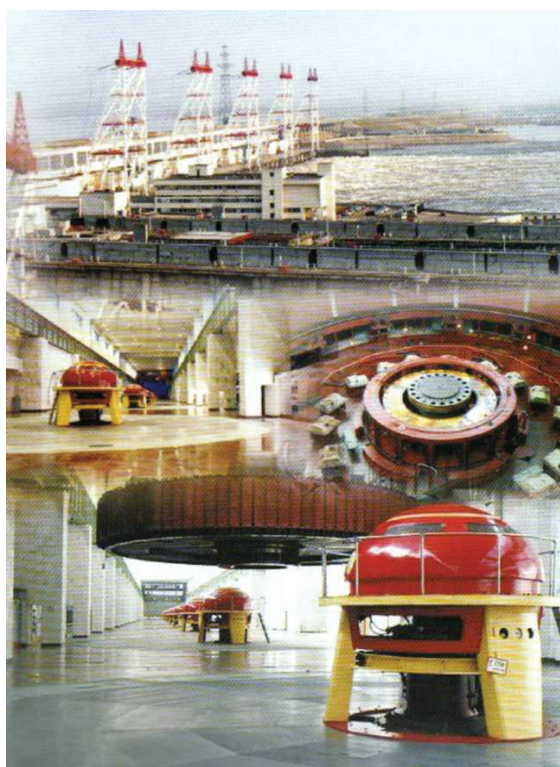
Novocheboksarsky branch

During short period of its existence the branch managed to prove that it can perform repair and maintenance of objects and equipment at hydroelectric power station. 4 manufacturing areas of Novocheboksarsky branch perform the following works:

- throughout, current, breakdown repair of hydroturbine equipment,
- oil-filled sets and correction system repair,
- pump-compressor equipment and mechanical part of generator repair and maintenance,
- lift exploitation and repair,
- systems of automatic fire-fighting, ventilation, water supply, canalization repair and maintenance,
- OJSC "Novocheboksarskaya hydro electric power station" ships exploitation and maintenance,
- repair in non-navigation period.

There are motor ship "Energetika", barge with carrying power 450 tones, swimming crane with carrying power 5 tones in the area.

The branch has the park of machines for lathe production, cutter, forging and welding works realization.





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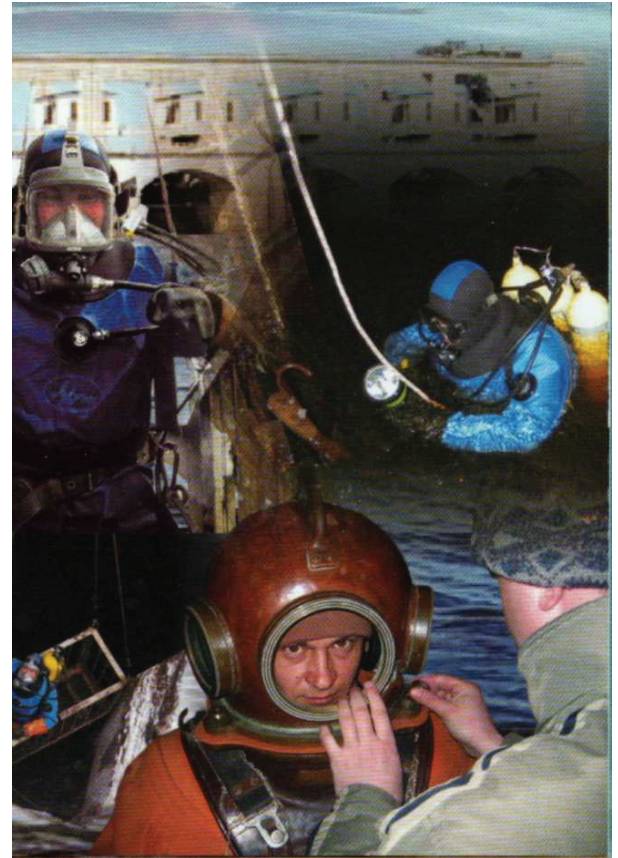
OJSC "TURBOREMONT-VKK"

Under water technical works:

OJSC "Turboremont – BKK" performs underwater technical works on maintenance of buildings and utilities of Volzhsko-Kamsky Hydro Electro Power Station Cascade. It has its own diving service, which consists of board and 5 diving stations, which are equally located on the territory of Hydro Electro Power Station Cascade (town Volzhsky, town Zhigulevsk, town Ribinsk, town Chaykovsky, town Perm). They are mobile.

Diving stations has high-qualified personnel with necessary diving equipment, diving team is ready for all kinds of under water works (underwater inspections and examinations of hydrotechnical equipment, underwater welding works, metal cutting, underwater concrete placement (seacrete), and underwater video shooting with the video records control on the real time basis etc.)

Floating means belong to technical service of diving stations. There is a partnership with ship-owners of Volga-Kamsky watershed. It is negotiated to use the support works of outer company ships and floating cranes of other companies as well.

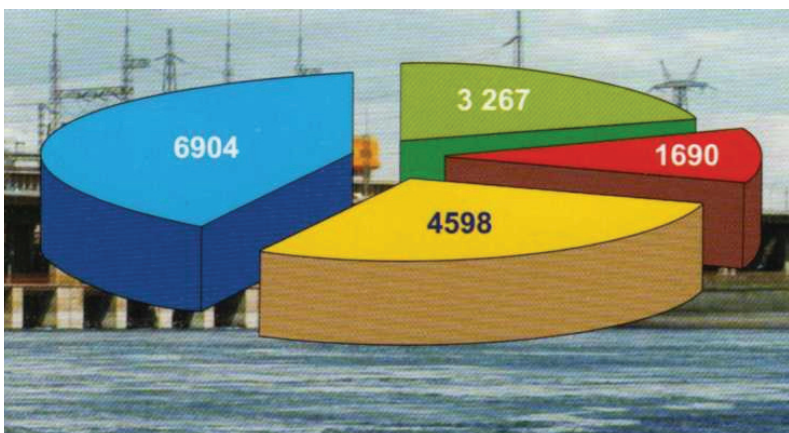


Investments and capital projects of production development in year 2005 (thousands of rubles)

The list of required equipment is included into investment plan annually.

That allows:

- to increase the working capacity
- to increase quality of performed works
- to reduce the equipment repair time



- Tool
- Transport, production facilities
- Office Equipment
- Machines and equipment

Chaykovsky branch

The branch is the main contractor, that provides maintenance of OJSC "Votkinskaya Hydro Electro Power Station"

The personnel has wide manufacturing and technical opportunities. Employees are supplied with modern tools and Safety Means. The use of high technological equipment allows to provide good working conditions for the personnel and to implement new technology in repair of general and additional equipment of stations.

The method of alignment and assembly of oil pick-up extension rod is developed and implemented. The cleaning of equipment surface and constructions cleaning from rust prevention, oil and dust is widely used. It is also used the rust prevention treatment with sand-blast machine with the further cover grease.

The experience of delivery service-providing is developed, mounting and putting into operation the Hydro Electro Power Station equipment (containing grating, emergency gate of hydro unit spiral chamber), are developed.

There is a constant grow of the employees skill. With the help of new professions or neighboring professions teaching, the staff became competitive in the market of such kind of services as works on height and underwater works.

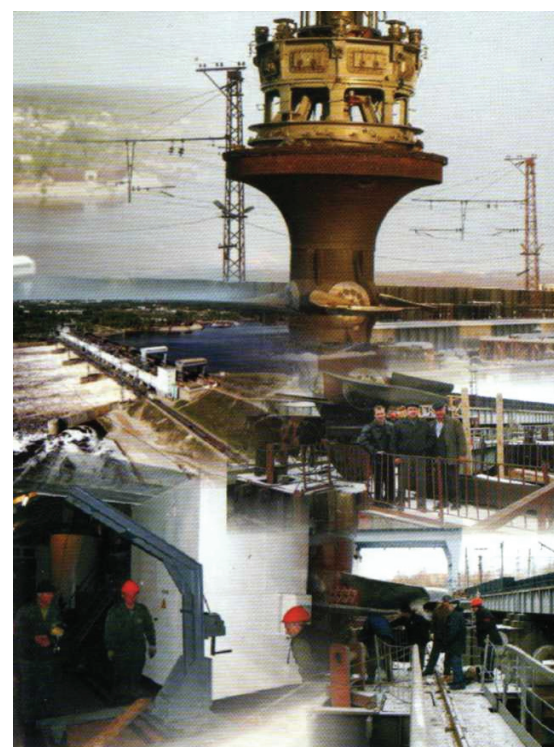
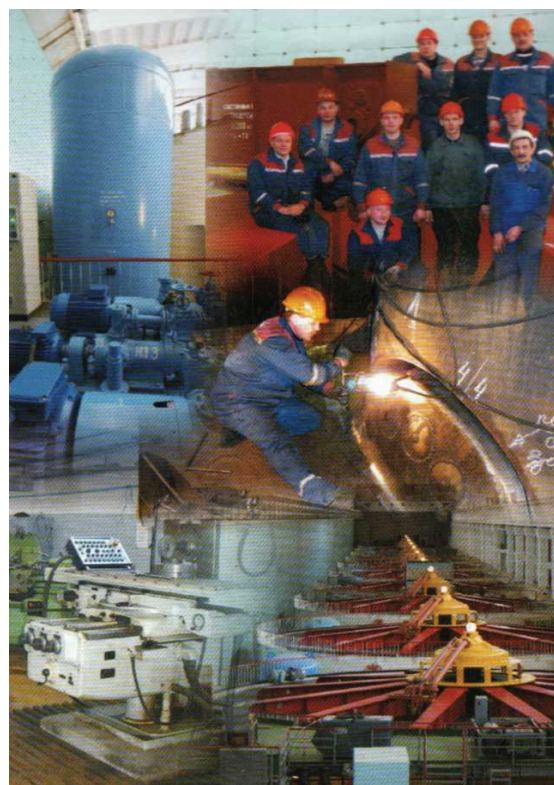
Permsky branch

The main task of the branch is maintenance of OJSC „Kamskaya Hydro Electro Power Station” Perm branch consists of 5 production areas
The total quantity of personnel is 75 people.

The branch performs following kinds of works:

- Current and general repair of the hydrotreater mechanical part,
- General repair of hydrotreaters according to the reequipment program
- Exploiting , maintenance and repair of cranes
- Maintenance, rust prevention treatment and containing constructions grating

- Maintenance of technical air- supply systems with the pressure of 0,8 m/Pa
- System of water-supply and fire fighting
- All kinds of pumps repair
- Repair of plumbingware and oil-pressure units
- Underwater works at a depth of 35 meters





LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

OJSC "TURBREMONT-VKK"

Zavolzsky branch

Zavolzsky branch performs following works on the objects of OJSC "Nizhegorodskaya Hydro Electro Power Station" :

- Current and general repair of hydropower, pump-compressor, lifting transport and hydro technical equipment, plumbing ware and technological pipelines, systems of fire fighting
- Reconstruction of sets and systems of hydro turbines, hydrotreaters and additional equipment
- Mounting and testing maintenance of equipment
- Works related to rust prevention treatment of metallic constructions
- Underwater technical works, examination of the support constructions of hydro units under water
- Works related to technical maintenance of hydro units and additional systems in overhaul period

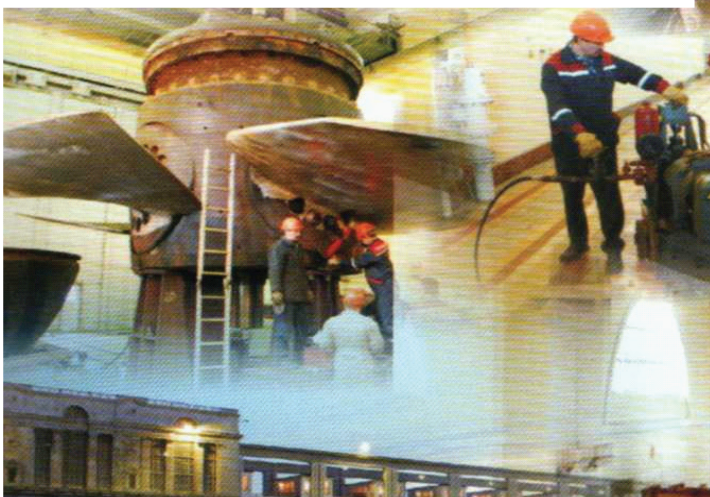
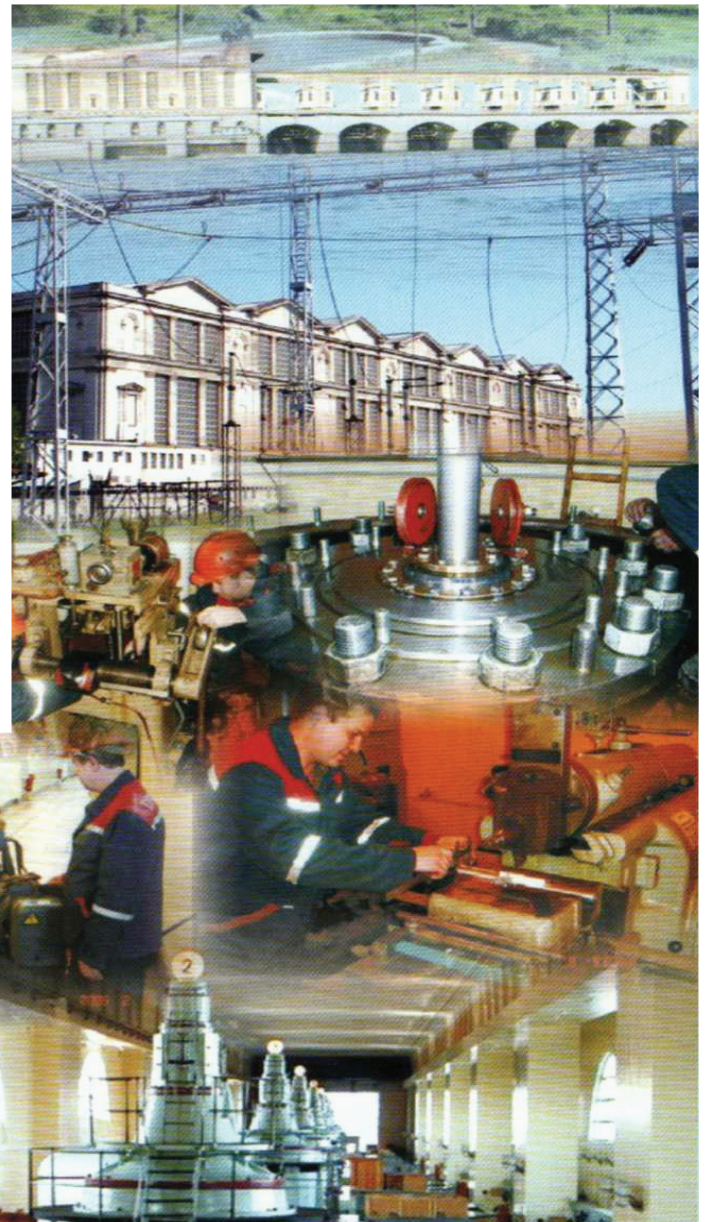
The branch cooperates with leading companies of power engineering:

- OJSC "Engineer center EHS" – "Firm OPI RES" in reconstruction of powered engines and thermal control improvement of bearing, examination and adjustment of regulation systems of hydro units.
- OJSC "NPO CKTI" - the laboratory of hydro turbines in part of vibrational and energy tests of hydro units before and after repair

Occasionally managers and specialists held meetings, which concerns actual problems of production activities.

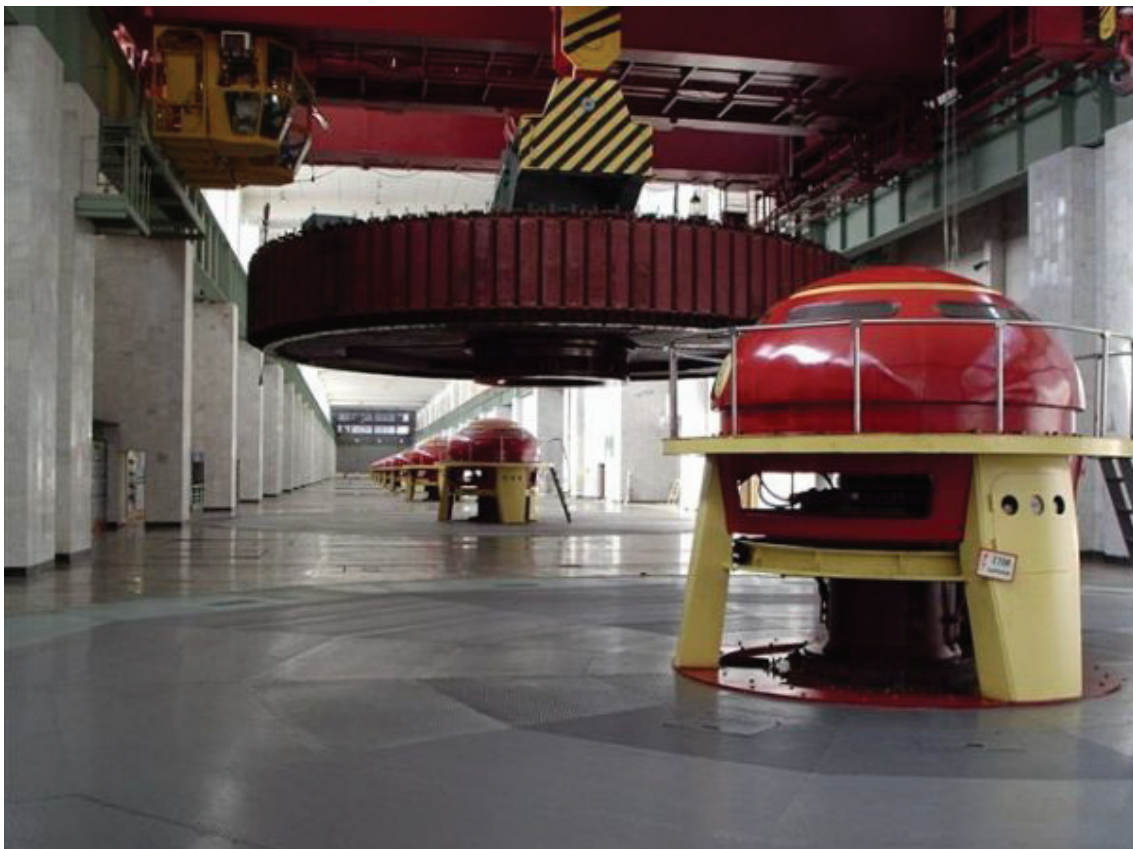
Main issues in agenda:

- Quality of performed works
- Increase of equipment maintenance warranty length
- Reduction of repair works time
- Implementation of new Management forms





Nizhegorodskaya Hydro Electro Power Station



Cheboksarskaya Hydro Electro Power Station

“INTEKHMONTAZH” Ltd.



LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"INTEKHMONTAZH" Ltd.



The permanent development

INTEKHMONTAZH Ltd fulfills the next assignments:

1. Major middle overhauls and maintenance repair of boiler and turbine equipment of heat station.
2. Modernization and mounting of steam turbine.
3. Modernization, setting up of steam distribution and the system of regulation.

The staff of INTEKHMONTAZH Ltd

IntekhMontazh Ltd is the independent company. The director is the head of the company. There are deputy of director, chief engineer, chief accountant, plant engineer, the chief of production and technical department, the chief of the sector under director subordination. The chief engineer makes the control of producing and manages the chief of the sector, the plant engineer, the producing and technical department. Under the control of chief of the sector are foremen and repairmen who manage the put task of remedial maintenance and mounting of technological equipment.

Our specialists are the most valuable resource. Investments into them are compensated many times. InTekhMontazh Ltd organizes probation trips visiting the producer factories and production plants for foremen and repairmen. A lot of engineers were raised their level during extension courses, took part in building NPP in China and Bulgaria, built four power units at Balakovo NPP.

But the main experience is our interesting and creative job. Proceeding complicated specialized tasks we actively use tutorship.



The Specialization

The system-defined chart of remedial maintenance of power units

Repair maintenance of power equipment consists of four complementary sets of work:

1. The maintenance works.
2. The major overhaul of auxiliary equipment.
3. The special maintenance and major overhaul of primary equipment.
4. The construction and mounting of power equipment.

IntekhMontazh Ltd traditionally directs attention to the third category companies.

The modern remedial maintenance is impossible without technical reequipment which includes nowadays both repair works and mounting and reconstruction of equipment. It requires the application of the special program of renovation.

Application of innovation development takes on special significance. The first place certainly goes to the flexibility, the speed of repair process and the skill to choose the optimal decision for every case.

The traditions

- The professionalism of officials;
- The close connection with producer factories;
- The quality preparation for major overhaul;
- The active development of new units.

The contemporaneity

- The flexibility and the rapidity of maintenance;
- The application of technological innovations;
- Continuous training and development of staff.



The brief list of our realized projects

- The major overhaul of the DKVR 20 boiler;
- The mounting of the PTVM-30 boiler;
- The mounting of spirituous automated line output 3000 dal;
- The major overhaul of the boiler house with five DKVR-20 boilers;
- The metalwork construction and mounting of the structures;
- The mounting, repair and maintenance of the conveyer at BMU Ltd.
- The mounting, repair and maintenance of the technical pneumatics feeding transport of apatite at BMU Ltd.
- The maintenance of crane runway CFS of BMU Ltd;
- Gas flue and pipe line construction and mounting at BMU Ltd;
- The maintenance of technological equipment and technological pipe lines;

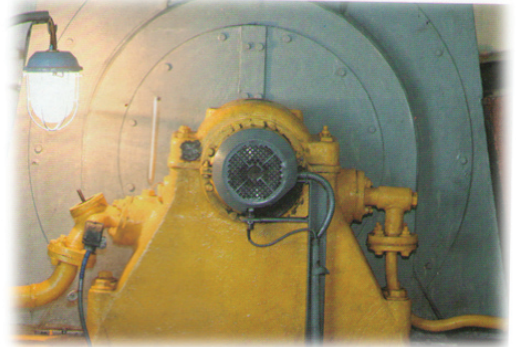


LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

"INTEKHMONTAZH" Ltd.

- The heat insulation of gas flues;
- The setting DKVR 20 and PTVM 30 boilers;
- The antirust defense of equipment and metalwork;
- The setting and lining of the furnaces, boilers and machines;
- The major overhaul of BKZ-420 boilers at VAZA Heat Station;
- The major overhaul of BKZ-420 boilers at the Saratov Heat Station №5;
- TGM-96: 2 sets;
- The major overhaul of BKZ-420 boilers at Engels Heat Station №3. Two sets.
- The major overhaul of BKZ-420 boilers at Heat Station KNPZ. Four sets.
- The major overhaul of BKZ-420 boilers at Samara Heat Station. Three sets.
- The major overhaul of PTVM-180 boilers at Balakovo Heat Station №4. Two sets.
- The major overhaul of TM-35 boilers at Volskcement. Two sets.
- The major overhaul carried out of K-300, K-200, PT-60, R-50, VPT-25 LMZ; PT-135, T-100, R-100 UTMZ turbines.

The annual turnover 16 million \$



The prospects

The extension of equipment durability of steam turbine takes the special significance as a result of consensence of primary power equipment.

This is a whole complex of complicated specialized tasks directed to the renovation of power equipment:

- Co-ordination of modernization with producer factories;
- Application of modern technology participating the lead branch institutes;



- Reconstruction and modernization of steam turbines;
- Reconstruction of working blades and other parts of steam turbines.





LTD GROUP of COMPANIES
"RUSGROUP MOSCOW"

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