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CZECH NUCLEAR FORUM
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October 25 - 26, 2011

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ATOMENERGOPROEKT

The State Atomic Energy Corporation ROSATOM



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ROSATOM

State Atomic Energy Corporation Rosatom incorporates more than 250 enterprises including all the companies of the civil sector and nuclear weapons complex as well as academic institutions and the unique nuclear-propelled icebreaker fleet. Rosatom is the biggest generating company in Russia that provides more than 40% of the electric power in the European part of the country. Rosatom is one of the leaders of the global market of nuclear technologies holding the 1st place in the world in terms of nuclear power plants construction abroad (simultaneous construction of 5 reactors); the 2nd place in the world in terms of uranium reserves (including joint ventures abroad) and the 4th place in the world in terms of production volume; the 4th place in the world in terms of electric power generation at nuclear power plants and providing 40% of the world market of uranium enrichment services, cutting-edge enrichment facilities and 17% of the world nuclear fuel market (supplies for every 6th reactor in the world). General Director of State Atomic Energy Corporation Rosatom is Mr. Sergey Kirienko.

AF-Consult Czech Republic s.r.o.



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AF-Consult Czech Republic s.r.o. – member of AF Energy Division since 05/2010. AF designs and constructs power plants every day. We are on the edge of new technical development and applications in all types of power plants. We provide a full set of energy markets consulting services tailored for national governments, public agencies, energy companies and investors in energy anywhere in the world. We have been working with the nuclear power industry since its infancy, successfully carrying out projects dealing with everything from full-service undertakings to highly specialized aspects of specific details.

«All-Russian Scientific and Research Institute for Nuclear Power Plant

Operation» (VNIIAES, LTD)



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VNIIAES, LTD All-Russian Scientific and Research Institute for Nuclear Power Plant Operation. The main lines of activities: Analysis and generalization of NPP operational experience; Scientific supervision of startup and commissioning of nuclear power units; Surveillance of NPP life cycle; Nuclear safety; Environmental management and labour protection at NPP; Nuclear waste and spent fuel treatment; Decommissioning; Development and delivery of full-scale and special simulators for NPP; Development, commissioning and improvement of I&C for NPP, reactor.

All for Power Journal



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The All for Power journal is focussed on conventional and nuclear power. The journal maps opportunities for suppliers in the power/energy sector. It respects the balance of the energy mix. Not least, the journal supports the use of “waste to energy”. The information portal www.allforpower.cz serves as an online supplement for the journal.

«ALSTOM Atomenergomash», LLC



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ALSTOM Atomenergomash LLC (AAEM) is a joint venture established in 2007 by Atomenergomash OJSC (51%) and Alstom (49%) for the supply of key power conversion equipment for the turbine islands of Russian NPPs, as well as for nuclear power plants constructed outside Russia with the use of Russian nuclear reactor technologies. Alstom transferred to AAEM its spearhead ARABELLE™ half-speed turbine and generator technology for output ratings ranging from 1200 MW to 1800 MW.

The main lines of business include:

- manufacture of half-speed turbine and generator packages with ratings 1200 -1800 MW based on the Istom ARABELLE™ technology;
- integrated delivery of equipment for NPP turbine halls;
- service and retrofit of NPP turbine hall equipment;
- supply of diesel generator sets for normal and reliable power supply systems.

ALTA, a.s.



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ALTA as a general supplier of technological units, offers and provides a wide range of top-quality commercial, design, engineering and financial services. Thanks to the property acquisition of the TOS KUŘIM – OS (2005), the company SE-MI Technology, a.s. (2008), the company ČKD BLANSKO-OS, a.s. (2010) and the company ŠKODA MACHINE TOOL a.s. (2011) has a significant production and design base in the field of machine tools and equipment for underground and surface exploitation.

Together with subsidiary service organization ALTA 32, s.r.o. provide a complete solution in the area of fuel cycle of nuclear power plants, namely from the supply of nuclear materials and new nuclear fuel to optimization studies of its utilization in the reactor even after its irradiation. Supplies of fuel elements for Czech and Slovakian nuclear power plants represent one of the traditional activities of the ALTA Company since its foundation.

Since the year 1995, ALTA is the exclusive representative of the Russian company TVEL, a producer and supplier of nuclear fuel, on the territory of the Czech Republic and since 2010 also on the territory of Slovakia.

AMT Group



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AMT Group – a dynamic and effective business implementing energy projects of any complexity in Russia and abroad.

The structure of AMTGroup: Russian and foreign companies which are functionally separated on the principle of business and activity.

AMT Group performs complex orders on a complete equipment deliveries, supervises and takes responsible for the entire cycle of events:

- Funding;
- Planning;
- Design;
- Production;
- Construction and installation works;
- Agreement with regulators;
- Delivery;
- Commissioning.

AMT Group – participates in construction and modernization projects in the field of nuclear energy, i.e. Rostov NPP (the 2nd, the 3rd, the 4th power units), Kalinin NPP (the 4th power unit), the Baltic NPP, Smolensk NPP Leningrad NPP and other customers.

AMT Group partners – more than 100 Russian and foreign companies and organizations.

AMT Group key enterprises:

- CJSC «AMT Engineering» – system management projects in the nuclear and conventional energy, including:
- International Engineering;
- Cooperation and coordination of project participants;
- Risk Management.
- LLC “Promenergokomplekt”:

Complete delivery of equipment and materials for the nuclear and conventional energy, including:

- Electrical equipment;
- Back-up diesel power plants;
- Cables and wires;
- Valves;
- Mechanical equipment;
- Pumps;
- Cooling system;
- Pipes and pipelines;
- Lifting equipment;
- Accessories (tanks, hatches, doors, elevators, ventilation equipment, air conditioners, oil purification equipment, etc.).
- “AMT Region»: – AMT Group projects support at the regional level and engineering of special projects, including:
- Valves for nuclear power plants.

Arako s.r.o.



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Arako s.r.o. is a traditional Czech manufacturer of industrial valves in accordance to the worldwide quality standard ISO 9001. ARAKO carries forward the long tradition of manufacturing of valves since 1953. In 2007 Arako become part of OAO Atomenergomash Moscow.

Our valves are used for all areas of power generation, such as power engineering and nuclear power engineering, fossil fuel plants, oil and gas, pulp and paper, chemical and petrochemical industry.

Our product line includes a wide range of both high-pressure and low-pressure valves, such as: shut-off and control bellows sealed globe valves, quick-acting bellows valves with pneumatic control, solenoid pilot valves and non-returning valves.

As an valve manufacturer with 50 years' tradition we pay special attention to the maintenance of the high quality level of production process. All manufacturing activities of the company are concentrated in the production plant in the Czech Republic where we build on many years' experience, new knowledge and technologies. This enables us to maintain the high quality standard of our products and services.

We also provide our customers with full-scale service and maintenance on all valve products.

The industrial valves from Arako are used by the customers throughout the Czech Republic and in a number of countries all over the world. The customers appreciate particularly the reliability and long life in a variety of environments and climatic conditions. Our valves are designed to meet critical industrial needs and are approved by major companies worldwide.

The company is firmly rooted in tradition lasting for fifty years and looks towards the future with great hope and expectations.

ARMATURY Group a.s.



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The company ARMATURY Group a.s. is a leading Czech manufacturer of industrial valves and supplier of pumps and metallurgical stock. The company started business on 1 January 2000. The tradition of this young and dynamically developing company is closely linked with the more than thirty-years' history of production of valves in the SIGMA concern. We design and produce special valves which are regularly used in the most demanding conditions of industrial plants. We produce product series of ball valves, butterfly valves, gate valves as well as metallurgical and special valves. Our own assortment is completed with products made by foreign and domestic manufacturers. We possess modern technical facilities. Internal research and development are incontestable advantages. The high-quality design of our valves increases the service reliability, safety and service life of the products. ARMATURY Group consists of two production plants and two sales offices located in Czech Republic, three sales offices in Slovakia and subsidiary company in Russia. We are DIN EN ISO 9001, DIN EN ISO 14001, API 6D and GOST-R certified. We possess OIT Certificates for our valves for the nuclear power plants in Russia.

ATB RIVA CALZONI SPA

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ATB RIVA CALZONI SpA manufacturing facilities are based in Roncadelle (BS) and in Venice areas. ATB RIVA CALZONI SpA has three major Divisions with diversified businesses: Petrochemical Division, Hydro Division, Nuclear Division. ATB RIVA CALZONI SpA has also a Division dedicated to Third Parties Services.

The capabilities of the Nuclear Division are well documented by the long and successful experience in manufacturing large Pressure Vessels for the last 30 years. ATB has an impressive list of equipment for welding, cladding, milling, turning, cutting, rolling and forming. The most important assets are, though, the People working at ATB with their know-how and their dedication to Quality and on time delivery of products. We recognize that defect free goal is the base of our continuous improvement program as well as the key aspect of our culture. ATB can manufacture the following nuclear components: Steam generator, Reactor Vessel, Pressurizer, Pressure Vessels and Tanks, Heat Exchangers, Containment Vessel, Tanks. ATB can also manufacture the entire Reactor for SMR Plants and Casks and Containers for Spent Fuel and Radioactive Waste.

ATB can provide Services for nuclear components, like NDT testing, rolling and machining. ATB is certified according to ASME III, N and NPT Stamps and is also approved as a Qualified Supplier for major Nuclear Engineering Companies

OJSC Atomenergomash

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OJSC Atomenergomash is the power machine building division of the State Corporation Rosatom, one of the leading power machine building companies of Russia. OJSC Atomenergomash is a supplier of efficient comprehensive solutions for nuclear, thermal, gas and petrochemical industry. The company comprises over 40 manufacturing, R&D, engineering enterprises in the territory of Russia and abroad.

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The main activities of Atomenergomontage Ltd. include: supply, assembly, commissioning and maintenance of equipment, machines and facilities intended for the nuclear and the conventional energy sectors and other industries as well.

We have completed a great number of projects contracting with: NPP Kozloduy EAD, TPP Varna AD, TPP Maritsa East 2 EAD, Enel Maritsa East 3 AD, Risk Engineering AD, Atomenergoremont EAD, Svilotsel AD, Lukoil Neftochim Bourgas AD.

Since 2005 we have implemented and strictly apply a Quality Management System according to ISO 9001:2000, updated with ISO 9001:2008 in 2009.

The company is certified for Environment Management and Protection according to EN ISO 14001:2004 and Occupational Health and Safety according to BS OHSAS 18001:2007.

Atomenergomontage Ltd. has certificates for manufacturing welded metal structures in accordance with standards DIN 18800-7, Class E and DIN EN ISO 3834-2 issued by the German certifying company SLV Halle.

Standard DIN EN ISO 3834-2 – "Quality requirements for fusion welding of metallic materials" is a supplement to DIN 18800 and shows the company's capability to manufacture welded metal structures.

The company is a member of the Bulgarian Atomic Forum BULATOM, the German-Bulgarian Industrial and Trade Chamber and the Bulgarian Industrial association.

Joint-Stock Company Nizhny Novgorod Engineering Company

«ATOMENERGOPROEKT» (JSC NIAEP)

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Joint-Stock Company NIZHNY NOVGOROD ENGINEERING COMPANY

«ATOMENERGOPROEKT» (JSC NIAEP) renders engineering services in designing and construction of nuclear power plants and power generating units, including: surveying, designing, construction management, field supervision and atomic engineering projects development activities for commercial operation. The company carries out functions of the General contractor for projects construction, materials and equipment deliveries for NPPs, pre-commissioning and start-up operations.

The unique nature of the services rendered by JSC NIAEP lies in the complex approach to NPPs construction – from designing up to equipment delivery and the plant «turn-key» commissioning to the Customer.

Under initiative of JSC NIAEP Memorandum of Association of Innovative Engineering Design was signed by 28 Russian and foreign companies, among which are: JSC NIAEP, PKF of JSC «Concern Rosenergoatom», JSC Afrikantov OKBM, Bentley Systems Co., Dassault Systems Co., Siemens PLM Software, KCBA (Kiev), and JSC «Kharkov Institute «Energoproekt».

The Association of Innovative Engineering Design is committed to pool everyone, who applies advanced and effective methods for designing complex industrial facilities – not just only in the nuclear engineering, but in oil-and-gas and aerospace industries, in the power engineering in general. It is committed to be a constantly acting platform for exchanging innovations.

For the purpose of competitive advantages improvement and order timing reduce the Company applies up-to-date IT-based methods for NPPs designing and construction.

The NPP designing is based on 3-D modeling and Multi-D technology use.

The Multi-D Project is mainly aimed at NPP unit construction timing minimization due to more efficient NPP unit designing and construction management system based on the information model of the facility.

Since 2008, a brand new procurement system is in use at the Company to enable the suppliers competitive environment quality be improved and purchased items cost – decreased.

Due to the specified business process priority for power units construction an efficient legal organizational mechanism for prompt support of constructed NPPs with equipment and materials of the desired price/quality indices.

Joint Stock Company «Saint Petersburg Research and Design Institute

«ATOMENERGOPROEKT» (JSC «SPAEP»)



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JSC "SPAEP" being a structural part of JSC "Atomenergoprom" is one of the leading companies in Russia, which develops complex designs and researches for nuclear and thermal power plants.

JSC SPAEP has been designing thermal power plants since 1929 and nuclear plants since 1955 for the former USSR and abroad.

Presently JSC SPAEP has been reorganized into an engineering company to provide engineering services in construction of modern 'turn-key' NPPs in the market economy environment. In world practice such activity is termed EPCM (Engineering, Procurement, Construction Management) and includes justification of investment, survey activities, design, supply of equipment, construction, erection and plant commissioning.

The company today has 81 years of successful work; more than 1700 world-class specialists; quality management system ISO 9001; unique projects in 19 countries; participation in design work for 118 power plants including 18 nuclear power stations. The latest successfully implemented international project pursuant to the SPAEP design is Tianwan NPP in China, taken over for commercial operation in 2007.

The following projects are currently under development: Leningrad NPP-2 with reactors VVER-1200 (for which the Company is both the general designer and the general contractor), Baltic NPP with reactors VVER-1200, Power Units 3 and 4 of Tianwan NPP in China, Power Unit 4 of Beloyarsk NPP with reactor FR-800, turbine hall of Unit 1 of Buzher NPP in Iran with reactor VVER-1000, etc. The Institute is also taking part in the work on upgrading and life extension of the operating power units of Kola NPP, Beloyarsk NPP, Kursk NPP, Smolensk NPP and Leningrad NPP and other power facilities in the Russian Federation.

ATOMSTROYEXPORT JSC



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ATOMSTROYEXPORT JSC (ASE JSC) is one of the world's leading companies that implement projects of construction and modernization of nuclear power facilities.

ASE JSC promotes Russian nuclear technology on the world market. The main activities are focused on management of construction of modern NPPs with light water reactors of VVER type with improved safety abroad.

At present, ASE JSC simultaneously implements contracts for construction of NPPs in India, China, Bulgaria and Iran.

ASE JSC is getting prepared to extend works at Kudankulam NPP in India due to the signed Russian-Indian Intergovernmental agreement on cooperation in construction of four additional power units at Kudankulam NPP site.

In its activities ASE JSC exploits all the achievements of a half-century-long experience of the Russian nuclear industry and the innovation development of modern national technology. At present, ASE JSC is promoting on the international market an evolutionary project of the generation III+ NPP with VVER-type reactor called AES-2006 which has increased capacity, improved efficiency factor and combined passive and active safety systems.

When working with foreign customers JSC Atomstroyexport closely cooperates with the design, scientific, industrial and construction organizations of the country-customer, involving its potential in supplies of equipment and materials, performance of works on the objects.

ASE JSC holds a leading position on the world market of nuclear power installations and constructs reliable and safe NPPs of the new generation meeting international requirements and IAEA recommendations.

Armatorka Krnov, a.s.



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Armatorka Krnov continue in 50-years long tradition with design and construction activities in the field of steel valves for nuclear engineering, oil-processing, chemistry, power generating, district heating and gas industry. From the technical know-how point of view our company takes advantage of human resources, up to date evidence and data and production disposing capacity of the former Research Valve Institute SIGMA, later ARPO.

Valve are characterized by the high grade of safety and operational reliability, which is guaranteed by the Quality Assurance Management System, introduced and certified in compliance with ISO 9001:2008 Standard.

The main production programme of our company consists of the Ball-, Gate-, Butterfly-, Check-, Globe and Special valves manufacturing, which comply with the following standards: EN, DIN, API, ANSI, GOST.

Structural design and technical conditions of all the valves for nuclear power engineering meet „General technical requirements for valves and piping JE“ – OTT 87/91. Our company is experienced in deliveries in accordance with the requirements of the Code 309/2005 Sb., – about ensurance of technical safety of chosen equipment, SÚBJ No. 214/97 Sb., 56/2006Zb.z., ÚDJ SR 317/2002Z.z.

Valve for nuclear power engineering are on regular basis manufactured from material P 265 GH (11 416), 12 020, 22K and 08Cr18Ni10Ti, however can be made also from other types of steel according to the wish of clients.

The essential principle of our company philosophy consists of the effort to provide maximum services and comfort to our customers at reasonable pricing in long time run.

JSC Atomenergoproekt



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JSC "Atomenergoproekt" is an engineering company, general designer of Nuclear Power Plants. The Company implements total complex of design and survey works in the field of NPP construction and upgrading, including works on construction site selection; development of design and working documentation, 3D-design; engineering survey; ecological monitoring; field supervision for NPP construction and operation; NPP life extension; as well as organization of construction and erection works, equipment supply, adjustment works, NPPs commissioning.

JSC «Atomenergoproekt» is the General Designer of the Balakovo, Bilibino, Kursk, Smolensk, Novovoronezh NPPs, «Bushehr» NPP in Iran, «Kudankulam» NPP in India, «Belene» NPP in Bulgaria, «Akkuyu» NPP in Turkey. Based on the company designs the «Kozlodui» NPP in Bulgaria, «Temelin» NPP in the Czech Republic, Zaporozhye NPP in the Ukraine have been constructed.

With participation of the company specialists more than 120 designs of NPP power units with different reactor types have been developed.

JSC "Atomenergoproekt" is a General Contractor for Novovoronezh NPP-2 designing and construction (2 power units with reactors of VVER-1200 type in compliance with "NPP-2006" Project), performing total complex of engineering services.

ATOMEX GROUP



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The target of the Association is to associate several leading Czech production firms experienced in the:

- manufacture and deliveries of the equipment for power engineering
- manufacture and refurbishment of technological equipment for the nuclear power plants
- ecological systems for industrial waste incineration plants
- manufacture and assembly of technological equipment for industrial waste water treatment plants
- equipment for chemical and petrochemical industries

Association members:

- AURA a.s.
- B&Bartoni, spol. s r. o.
- BAEST, a.s.,
- Best Consulting & Training, s.r.o.
- FK system – povrchové úpravy, s.r.o.
- DEL a.s.
- firstNET, a. s.
- H Project, s.r.o.
- KRÁLOVOPOLSKÁ, a.s.
- LAPP KABEL, s.r.o.
- LVOS, s.r.o.
- MBNS – International, spol. s r.o.
- MICO, spol. s r.o.
- ZVU POTEZ a.s.
- Univerzita Pardubice
- Institute of Thermomechanics ASCR, v. v. i.
- In cooperation with one of the Member of the Association, company DEL a.s. (www.del.cz; Jiri Kabelka, CEO; jiri.kabelka@del.cz) among we namely offer:
- Projection and supplies of technological units

Project management, robots, handling, mechanization, welding stations and jigs, conveyor systems, foaming and slitting lines, retrofitting and modernization of technological equipment.

- Automation of technological processes, delivery of electrical equipment

Complete delivery of electrical equipment, electrical design and documentation, automation, software PLC, PC

and robots, visualization of technological processes, database applications

- Switchboard manufacturing

Switchboard and control panels manufacturing, sheet metal work and material splitting.

- Assembly

Dismantling, transfers of technological unit.

- References for NPP

• Reconstruction and modernisation of Fuel Handling Machines

• Cutting and feeding device of IK container

• Electrical equipment of HDP 2000 press (NUKEM) with mechanisation equipment

• Modernisation of Polar crane

• Control cabinets for testing and repairing manipulators

• Testing stand for pressure armature

• Testing stand for active maintenance NPP

• Service by nuclear fuel changing

AUMA Servopohony spol. s r. o.



Czech Republic, 2500 Brandýs n. L. – Stará Boleslav, 1Boleslavská 1467
 Tel. +(420) 326377792
 Fax +(420) 326303251
 E-mail: Auma-s@auma.cz
 Web: www.auma.com

AUMA is one of the leading manufacturers of electric actuators, actuator controls and valve gearboxes for the automation. AUMA have more than 45 years of experience in research, development and manufacture of electric multi-turn and part-turn actuators. Our product portfolio covers all kinds of industrial applications including the safety system of nuclear power plants. AUMA actuators are certified and qualified acc. to the IEEE, KTA and NP 068-05 nuclear standards.

BESTTECHNICA TM-Radomir PAD



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 Fax +359 777 80218
 E-mail: tm_radomir@besttechnica.bg
 Web: www.besttechnica.bg

Besttechnica is company with 120 years experience and traditions in the manufacture and supply of machines and equipment for heavy industrial and investment engineering, infrastructure and especially power industry. A greater part of the equipment for the nuclear power plants in ex Czechoslovakia, Poland, Hungary, Ex East Germany, ex Sovien Union, and Bulgaria have been manufactured in the plants of Besttechnica.

Besttechnica offers design, manufacture, delivery, commissioning, guarantee service of special equipment for nuclear power plants as heavy lifting cranes, traverses, tipping appliances, transport cars, other lifting and handling equipment, heavy shielding gates, special steel structures etc.

Recently Besttechnica has delivered equipment for customers like NPP Kozloduy, Nukem Technologies, ONET Technologies, Siempelkamp Tensioning Systems.

After the successful quality audit for suppliers evaluation Besttechnica was approved as sub supplier of equipment for Atomstroyexport. which was conducted by Atomstroyexport and was awarded with the first contract for design, manufacture and delivery of 2 off Transport locks for reactor compartment in Belene NPP. The equipment is designed for transportation of materials through hermetic protection of the reactor type V-446B and is to secure and perform safety functions.

Burns and Roe Enterprises, Inc.



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Tel. 201-265-2000
Fax 201-986-4335
E-mail: info@roe.com
Web: www.roe.com

CZECH NUCLEAR FORUM



CZECH REPUBLIC, 147 00 PRAHA 4 – PODOLÍ, HOFFMANNOVA 3
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Web: www.nuclear-forum.cz

The Czech Nuclear Forum is an independent, non-governmental and non-profit civic association to support the development of a safe, economically efficient and publicly accepted Czech nuclear power program.

The Czech Nuclear Forum encompasses some 25 organizations, including the plant and component manufacturers, uranium mining companies, design and engineering companies, research establishment and consulting companies. Some foreign companies with activities in the Czech Republic have also shown interest in the Czech Nuclear Forum membership as associated members.

CHEMCOMEX Praha, a.s.



Czech Republic, 156 00 Prague-Zbraslav, Elisky Premyslovny 379
Tel. +(420) 226 259 111
E-mail: chemcomex@chemcomex.cz
Web: www.chemcomex.cz

Engineering Services, Technical Designing
Chemistry Control and Information Systems for Nuclear Power Plants
Sampling & Sample Conditioning Systems
Tubing and Piping for Nuclear Power Plants
Special Welding
Radioactive Waste Management
Customer Tailored Application Software
Dosimetry, Detectors and Radiation Control Systems

Chladicí věže Praha, a.s.



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Web: www.chv-praha.cz

Established in 1951, Chladicí věže Praha supplies a complete portfolio of industrial cooling products for both nuclear and fossil power plants with a total number of constructed concrete cooling towers references exceeding 80. Chladicí věže Praha is the only company in Central and Eastern Europe delivering forced draft cooling towers, micro-coolers, fan cooling towers and manufacturing its own cooling technology components (cooling fills, spraying nozzles and precipitators). Chladicí věže Praha possesses unique technology and equipment for erecting chimney-type reinforced concrete and metallic cooling towers including special concrete forms and a tower crane for building cooling towers that are up to 180 meters high.

At present, the biggest projects the company is executing is the construction of cooling towers for ČEZ Počerady CAPP Combined cycle in the Czech Republic and for Enel Mochovce Nuclear Power Plant in Slovakia.

OJSC "Atomenergomash" have completed the acquisition of 51% stake Chladicí věže Praha, a.s. on September 7, 2011.

ČKD GROUP, a.s.



Czech Republic, 110 00 Praha 1, Ovocný trh 572/11,
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Web: www.ckd.cz

ČKD GROUP is an association of engineering and manufacturing companies with strong export orientation, operating in the segment of engineering and electrical industries. Supplying of the capital equipment, technology nodes, spare parts and components for renewable energy industry, infrastructure, conventional and nuclear energy industry, oil and gas transport and processing, ecology, chemistry and electrical engineering is the main specialization of the group.

ČKD GROUP pays particular attention to supplying its customers with such services as feasibility study and funding model preparation, complex technical services, modernization and consultancy.

Dassault Systèmes



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Fax:+33 1 70 73 4300
E-mail: Jean-Luc.DOSNE@3ds.com
Web: www.3ds.com

About Dassault Systèmes

In the nuclear or power industry, project delays and health and safety issues in major projects can drive up costs.

Companies can no longer afford NOT to validate their outage schedule in a virtual environment.

DASSAULT SYSTEMES' virtual maintenance solution is used to plan and validate the critical operations of the outage schedule, simulate kinematic mechanical devices like cranes and robots, and simulate and analyze worker activities with detailed ergonomic analyses to ensure their health & safety.

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 115,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance to recycling. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product – SolidWorks for 3D mechanical design – DELMIA for virtual production – SIMULIA for virtual testing – ENOVIA for global collaborative lifecycle management, and 3DVIA for online 3D lifelike experiences. Dassault Systèmes' shares are listed on Euronext Paris (#13065, DSY.PA) and Dassault Systèmes' ADRs may be traded on the US Over-The-Counter (OTC) market (DASTY). For more information, visit <http://www.3ds.com/energy> and our Energy Interactive showroom: <http://interactiveshowroom.3ds.com/energy>

DC Gépszer Kft.



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Our main fields of activity:

Tank / vessel cleaning, maintenance and production
Cleaning, maintenance and production of heat exchangers, steam generator
Technological pipeline assembly
Qualified welding
Maintenance of pipeline fittings and armatures
Installation, mounting and maintenance of machines and production lines
Surface cleaning and cutting with high-pressure water (up to 3000 bar)
Demolition with high-pressure water

DEKRA Industrial AB



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Web: www.dekra-industrial.se

DEKRA Industrial AB is part of the Inspection Body DEKRA S.E. with more than 24.000 employees on 4 continents. By consequence DEKRA is TOP 3 on the global TIC (Testing, Inspection and Consulting) market worldwide. Within our company DEKRA Industrial AB is related to our serviceline "Energy & Process Industries", which puts us in position that we can offer our highly specified mechanized inspection services, presented on this conference all over the world. Based on these self developed technologies and our experiences DEKRA is able to realise the complete inspection of a reactor pressure vessel. Furthermore our serviceline offers a capacity of more than 800 NDT operators in order to realise also big shutdowns in the Energy & Process field and 9 material testing labs for destructive testing, metallography, failure-, corrosion-analyses and a lot of additional services all over Europe. Naturally we also provide a broad range of inspection services within the Energy & Process field. In unit with our other competence centers within DEKRA we can offer also e.g. HSE support, ATEX services, personnel trainings, personnel services, sustainability management consultancy, product certifications, automotive and rail inspections, [...] out of one hand. These facts give our customers significant opportunities to save time and money and increase the safety in the customers site at the same time, just following our principle: "DEKRA – on the safe side".

Dunamenti Fire Protection Co.



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Tel. +36 1 221 5574
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Web: www.dunamenti.hu

Dunamenti Fire Protection Co has been working for more than 30 years on fields of fire protection and construction. In the course of our activity we settled ourselves two main targets: to provide the most complete service possible to our customers, and to carry out quality works.

We were among the first companies that acquired the qualification for execution of works in nuclear plants, and in 1996 the company was audited among the firsts in the country in the field of fire protection according the ISO 9000 quality assurance standard.

We also introduced the integrated Quality Assurance System (ISO 9001), the Environmental Management System (ISO 14001), and the certification process of the Health and Safety Management System (MEBIR) was also completed.

In April 1982, the execution of a complete cable fire protection has started at the Nuclear Power Plant in Paks. The installation project ran until 1986, but the maintenance and safety works are still in operation.

In 1985, we have started exporting fire protection materials for cables to Russian-developed nuclear power plants in the former Soviet Union, Czechoslovakia, Germany, Great-Britain and Bulgaria.

After the Chernobyl disaster in 1986 the demand for our materials begun to rise by these power plants (because there wasn't any cable fire protection present) and large volumes were delivered by us.

We offer for nuclear power stations high quality products for following fire protection purposes:

- Fire protection of steel structures
- Cable-coatings, cable and air duct coverings
- Fire protection sealing of cable entries and air ducts
- Fire protection sealing of plastic pipe passings
- Fire Protection Closing of joints, and gaps
- Active fire protection systems

Our export activity through subsidiaries or representatives covers Ukraine, Russia, Baltic countries, Slovakia, Romania, Czech Republic, Poland and Spain.

We have all necessary international and local certificates in the above mentioned countries for the distribution.

EGP INVEST, Ltd.



Czech Republic, 688 01 Uherský Brod, Antonína Dvořáka 1707
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EGP INVEST, Ltd. provides design works and services in the field of investment construction, reconstruction, modernization and innovation of buildings. The company focuses primarily on the field of nuclear and conventional power engineering, as well as on projects dealing with energy supply from renewable sources. The company also offers its services in other fields, such as petrochemistry, and industrial, water management and civil engineering.

In 2009, EGPI became a 100% subsidiary of ÚJV Řež, a.s. and joined the other companies constituting ÚJV Řež, a.s. Group.

Company is a holder certification according to standards ISO 9001, ISO 14001, OHSAS 18001

Elektro Kroměříž a.s.



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Elektro Kroměříž a.s. (EKM), is an important supplier of LV switchboards for the production and distribution of electric energy in the Czech Republic. It has been involved for many years in the implementation of projects and the refurbishment of resources in the nuclear, classic and hydraulic power plant sectors and in the construction of solar power stations. The company uses specific types of switchboards which allow optional modifications requested by customers. The product range of cabinets and available instrumentation is based on the customer's requirements. Our suppliers include all the leading world manufacturers of instrumentation applications and guarantees full adherence to the client's conditions and requirements. EKM provides the delivery of selected low-voltage electrical equipment for nuclear power plants of the VVER 400 and VVER 1 000 types. In the Czech Republic EKM switchboards have been

installed as part of the complex refurbishment programme at the Dukovany NPP, EKM also organizes contract deliveries for the Temelin NPP. Switchboards for power generation at nuclear power plants represent an important part of the production of EKM. The company meets the conditions relevant to deliveries for the nuclear power sector and is a recognized supplier of selected electrical equipment in this sector. The company provides for the elaboration and implementation of the required systematic measures in the legislative, organizational and HR fields, in the fields of documentation management and archiving, registration of processes, control, etc. EKM provides first class products in accordance to EN ISO 9001:2008 quality systems and Environmental Management System EN ISO 14001:2004.

Enersense International Oy



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Enersense International is a leading global project management company in the energy sector. Enersense International has gained detailed knowledge of operating within major energy construction projects, as well as significant experience in new-build related international project management.

European Nuclear Society



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Web: www.europeanuclear.org

ENS is the largest society for nuclear science, research and industry in Europe. Ever since its foundation in 1975 it has been promoting the advancement of nuclear science, research and engineering to its members, decision makers and the general public.

The Society's membership includes national nuclear societies from 22 countries in Europe plus Israel. Another crucial component of that membership is the group of about 60 corporate members, representing key stakeholders which are partners for nuclear technology and research in Europe.

A sophisticated communications and networking platform

ENS connects its members with the principle aim of fostering and coordinating their activities on an international level. In relation to this, the society encourages the networking of scientists and engineers between different countries and organises meetings devoted to scientific and technical matters and to the communication on nuclear applications.

A network of people

ENS comprises more than 20,000 professionals from industry, the academic world, research centres and authorities: people who voluntarily commit themselves to generate ideas and to take up responsibilities, who have the enthusiasm to get things done and the curiosity to learn from colleagues and from people outside the network

ENVINET a.s.

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Web: www.envinet.cz

ENVINET a.s.

- Project engineering
- Radiation monitoring systems

- Chemical control and industrial automation equipment
- RW characterization, Free Release Measurement systems
- Customized information systems

ENVINET a.s. is an engineering and supplying company certified to the international standards ISO 9001, ISO 14001, ISO 27001, ISO 20000-1 and OHSAS 18001.

CORE BUSINESS ACTIVITIES IN NUCLEAR FIELD:

- Radiation monitoring systems for NPPs and research centres.
- Radioactive waste characterization: design, production and supply of measuring equipment for RW characterization and free release measurement.
- Radioactive waste management: development and implementation of customized IS covering all processes of RW management, registration and tracking in all repositories of the Czech Republic.
- Complex technologies for all types of NPP laboratories: chemical, radiochemical, metrological, environment radiation monitoring laboratories equipment; measuring procedures; metrological verification, calibration, testing; accreditation documents preparation, data management IS.
- Radiochemical monitoring and gamma spectrometric measurement: own solutions for rare gases activity measurements in the ventilation stack; steam generator leakages on the basis of N16 activity concentration measurements; shift radiochemical control in primary and secondary circuits.
- Ionizing radiation detectors manufacturing and service: development and production of plastic scintillators and the NaI(Tl) scintillation crystals; calibration and service of spectrometric equipment & routes.
- Industrial automation systems: 3D design, production, installation and service, complex intelligent production lines, data collection and analysis.
- Customized IS for RW management & tracking, nuclear fuel registration, long-term operation, LIMS for all types of laboratories, inspections, project management, spectrometry evaluation SW.
- Personal dosimetry service: official measurements of ionizing radiation and neutron doses and personal dosimeters dose evaluation from medical and research workplaces.
- Design and supply of technologies for PET (Positron emission tomography) centres.
- Specialized services – outsourcing, licensing support, staff training, operating and maintenance procedures, starting tests.

EPLAN ENGINEERING CZ, s.r.o.

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EPLAN Software & Service is the global standard in software and service concepts for electrical, fluid and process control technology design engineering for over 20 years now. EPLAN has become a worldwide leader in technology solutions.

„EPLAN your Engineering“

EPLAN Software & Service is a market leading supplier of first class engineering solutions. The primary objective is to provide integrated, mechatronic oriented workflows and efficient process support to our customers. Users are fully supported through a broad spectrum of services including training, consulting and customer solutions.

Worldwide engineering / global presence

With 18,000 customers and 60,000 installations worldwide, the German based software provider has been demonstrating the success of consistent practice orientation with intentional presence for over 20 years. More than 50 sales and service centers guarantee worldwide support spanning over six continents. As a 100% Rittal subsidiary, EPLAN belongs to the Friedhelm Loh Group. EPLAN is a synonym for innovative strength, continuity, progress and investment security in this strong business group.

EPLAN Platform – Your key to success

The revolutionary EPLAN platform technology allows you to take part in the future of global engineering. The platform provides core functions that are equally required in electrical CAE as well as in fluid or PCT engineering

– combined with a unique bridge to mechanical engineering. All systems are fed from the same data source, making (e.g.) redundant data entry a thing of the past. The EPLANT Platform – disciplines united, integration and collaboration enabled!

Europe Today – Europe-Today.Ru

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The latest news on Europe in Russian, from thousands of sources worldwide. Articles, blog posts, quotes, high-quality photos, video and more.

EXCEL CSEPEL MACHINE TOOLS LTD

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 Web: www.csepel.eu



BK-CS Metal KFT, as a subsidiary of Excel Csepel KFT, is a company in Hungary specialized for turbine housing manufacture, repair and renewal. The plant has a significant machining capacity. Some of the major machines of the company are the following:



FANS, a.s.

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 Web: www.fansct.com



FANS, a.s. undertakes construction of cooling towers for almost 20 years. Products and services offered include design, engineering, manufacturing, delivery, installation, and commissioning of complete cooling towers. FANS, a.s. provides complete cooling solution inclusive of cooling towers, pumping stations, piping, water treatment etc. In cooling circuits for power, nuclear power, chemical, metallurgical, steel plant, sugar mill and other industries in Europe, CIS, Asia, Africa, and Latin America. FANS, a.s. also design, manufactures, end delivers Air Coolers and Air Cooled Condensers of steam. In 2008, the subsidiary ZAO FANS-East was established in Moscow, Russia. In 2009, the subsidiary FANS ASIA Pvt.Ltd. was established in Visakhapatnam, India.

FCRB

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The FIRST CZECH-RUSSIAN BANK Limited Liability Company ("OOO FCRB") was founded in 1996 to service international trade and investment projects between the Russian Federation and the Czech Republic and to provide banking services to companies engaged in Russian-Czech international trade, and to Czech-invested Russian companies and organizations. At present FCRB is a rapidly growing universal bank offering a wide range of advanced banking services to corporate, SME and retail clients.

The Bank's development priorities are to:

- service international trade transactions with Eastern and Southern Europe;
- engage as strategic partners financial institutions from European countries specialized in lending to exporting companies and their partners on favourable terms;
- establish strategic cooperation with government-owned companies of European countries engaged in export risk insurance;
- further enhance the quality of the Bank's services by improving banking technologies and business processes.

FNK Group of Companies

Russia, 123317 Moscow, Tower Nord, Business Center Moscow-City, bld.1, 8, Presnenskaya nab.
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FNK Group of Companies is an engineering company operating on the market of integrated power engineering project management. The Company's main activity is a highly effective project management in engineering and supply of technological equipment for nuclear and conventional power enterprises, chemical and oil and gas companies of Russia.

A potent combination of the best specialists who are fully aware of the customers' peculiarities ensures an implementation of the production operation technologies and corporate management, complying with the international standards.

The customers of FNK Group of Companies are the largest companies: INTER RAO UES, RAO UES of the East; Holding-MRSK; Rosenergoatom Concern; AtomRedMetZoloto; TVEL, OGG, TKG and foreign companies. More than 107 large projects have been implemented during the three previous years.

The main activity of the company is project management for development, production and delivery of equipment for handling of radioactive wastes and spent nuclear fuel (RW and SNF).

The largest project connected with handling of RW and SNF, being implemented by LLC ElectroLab, is creation of a container fleet of the transportation packages (TUK-109, UKHh-121) for conversion of the spent nuclear fuel of the RBMK-1000 reactors for dry storage scheme. The container has a weight of 90 tons and is a dual – purpose storage of spent nuclear fuel and the possibility of its further transportation. Transportation container TUK 109 passed all test requirements, meets all safety standards and rules. Decisions underlying the invention are certified by GC FNK. In 2011 LLC ElectroLab which is a part of Group of Companies "FNK" has launched a full scale production of transportation packages (TUK 109) for "Rosenergoatom" Concern's needs.

LLC ElectroLab performs packaged supplies of equipment for NPP:

- Equipment for handling of RW and SNF: cross beams, positioners, fuel handling machines, clamps, RW storage containers
- Equipment for processing of RW and SNF: liquid radioactive wastes evaporation plants, solid radioactive wastes defragmentation and melting plants, solid radioactive wastes incinerators
- Equipment for NPP: heat exchangers, tanks, air collectors, receivers, hatches, gates, doors, sluices, transformers, etc.

Fortum Power and Heat Oy

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Fortum's purpose is to create energy that improves life for present and future generations. We provide sustainable solutions that fulfil the needs for low emissions, resource-efficiency and energy security, and deliver excellent value to our shareholders. Our activities cover the generation, distribution and sales of electricity and heat as well as related expert services.

Currently, Fortum's operations focus on the Nordic countries, Russia and Baltic Rim area.

Fortum's power generation in 2010 totalled 69.8 TWh, out of which nuclear production was 22.0 TWh.

Nuclear power plays an important role in Fortum's climate-benign energy production. In addition to its ownership of the Loviisa nuclear power plant, Fortum has a shareholding in Teollisuuden Voima Oy's (TVO) Olkiluoto existing nuclear power plant units as well as a partial shareholding in the Forsmark and Oskarshamn nuclear power plants in Sweden. Fortum also owns a share in the new Olkiluoto power plant unit 3 currently under construction.

Fortum also provides services related e.g. to nuclear safety and waste management, and products such as APROS process simulation software and NURES – radioactive waste purification and radioactive waste solidification facility.

GEA EGI Contracting/Engineering Co. Ltd.

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Web: www.egi.hu



GEA EGI is the genuine developer of Heller indirect dry cooling system invented by its founders. The company has supplied more than 100 dry cooling systems for generating capacity in excess of 25000 MW in aggregate worldwide, for nuclear, fossil fired (coal, oil/gas, combined cycle, biomass) and solar applications.

GEA EGI also excels in combined dry/wet cooling solutions developed for applications where cooling water is available in limited amount. The company also manufactures auxiliary air coolers (cooling water modules) and wet surface (dry/deluged) auxiliary coolers for dry cooled power plants or for open cycle gas turbines.

GETINGE LA CALHENE

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Getinge-La Calhène is a €40M French Company, part of Getinge Group from Sweden. It is specialised in the supply to the Pharmaceutical and Nuclear Industries of Isolators, Containment, Transfer and Manipulation Systems designed to protect operators or patients from harmful materials. The Company has been supplying the Nuclear Industry for more than 50 years. It is the inventor of the famous DPTE® transfer system. It has also an exclusive agreement to commercialise Padirac cask devices worldwide. The Company is well known for its widely used range of master slave manipulators in Nuclear Fuel Reprocessing Plants, in Nuclear Research Centres or Radiopharma facilities worldwide. It also manufactures very popular glove systems used in glove boxes for the fabrication of Nuclear fuel. It is headquartered in Vendôme, France.

GLENTOR s.r.o.

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Production and service of hydraulic axial piston pumps and motors
Production of customized hydraulic components and power units
Service and repairs of hydraulic piston pumps and motors
Production of spare parts for hydraulic equipment
Hand operated pneumatic and hydraulic tools for construction works in mines and power systems, water main repairs, gas piping repairs

JINPO PLUS a.s.

Czech Republik, 702 00 Ostrava – Přívoz Kristanova 1113/2
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 Web: www.jinpo-plus.cz

Production program of the company:

The entire production and supply program of JINPO PLUS a.s. is focused on the following sectors:

- Energy industry
- Gas industry
- Petrochemical industry
- Building industry where the strategic concept includes the development of production and supplies for both the conventional and nuclear energy industry.
- Production and supplies of complete piping systems consisting of pipes, bends, tee-sections, transitions, flanges, connection accessories, etc.
- Prefabrication of piping JINPO PLUS a.s. is focused on the deliveries of technological units in the form of prefabrication of partial components. This character of production ensures entirely all activities that are necessary for the supply of complete technological units:
- Elaboration of documentation
- Segmenting of piping distribution systems into partial (transportable and re-mountable) sections
- Preparation of production documentation
- Self-manufacture of individual complete units
- Surface protection
- Appropriate tests
- Issue of the accompanying technical documentation (certificates, testimonials, etc.)

The production of prefabricated units is carried out in the standards ISO, DIN, EN and the quality of material respects the requirements of customers.

JSC OKB «GIDROPRESS»

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It is established in 1946. A complex of design, calculation-theoretical, experimental-research and production activities on creating the reactor plants of various types for NPP. At present the company is focused on elaboration of WWER reactor designs of a wide power range: from 300 to 1700 MW.

WWER reactors developed in OKB «GIDROPRESS» are successfully operated at 19 NPPs in Russia, Ukraine, Armenia, Finland, Bulgaria, Hungary, Czech Republic, Slovakia, China and Iran.

They are 23 WWER-440 Units with the total power of 10120 MW, and 29 WWER-1000 Units with the total power of 29000 MW to be replenished in the near future with newly constructed power Units with WWER-1000 reactors.

Activities are under way on extension of first generation reactor equipment service life. Extensive work has been performed on elaboration of WWER-1500 RP high-power design.

Today OKB «GIDROPRESS» is the only company in the world whose designs are implemented simultaneously in five RP power Units abroad: at Kudankulam NPP in India, Bushehr NPP in Iran, Belene NPP in Bulgaria. Each of the designs is unique, and each of the power plants has its own peculiarities. All the designs have the following common features: high quality standards of work and maximum requirements for the safety level.

GKN – STROMAG

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Main supplier of disc brakes for French nuclear industry since 30 years, Stromag France provides worldwide braking solutions meeting all safety and quality requirements. Our company is validated by ISO9001:2008 certification and EDF (French Electricity company) qualification.

All Stromag France products are developed and manufactured to meet the stringent and specific needs of the nuclear field market place validated by the availability of Quality Plan, reinforced controls and conformity certifications. All countries that have chosen nuclear energy are constrained high security to ensure optimal environmental protection.

Therefore, handling of radioactive materials must be completely secure.

Thanks to the confidence of its customers, disc brakes equip since many years nuclear cranes, not only in Europe: France, England, Germany Czech Republic ... but also in Asia: China, Korea ...

In this application, our products meet high standards of quality, reliability and robustness.

Furthermore, Stromag France as specialist in nuclear application is able to provide "product adaptation" service for client's specific requirements concerning material, lowering system load secure, electrical switches, decontamination painting or protection selection, with the possibility to have customer witness testing conducted in-house. Electromagnetic or hydraulic, each brake is selected by our engineers to optimize the best braking system.

Stromag France skills are world-renowned:

We supply braking systems for DIAKHONT, AREVA, NKM NOELL and KONECRANES...

Emergency brakes are already installed in OSKOL (Russia) and DUCHOVANY (Czech republic) nuclear power plants

Because nuclear applications require high level of safety, your installations require STROMAG FRANCE braking systems.

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General contractor of Civil Part

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The area of activities of Magyar Villamos Művek Zrt. and the company group controlled by it (MVM Group) is one of the most important sectors of strategic importance of the national economy, the domestic electricity industry.

The MVM Group is a key player in the electricity sector, the only one in national ownership. Its activities include the areas of electricity generation, transmission, system operation and electricity trade. The structure of the Group corresponds to that of what are called vertically integrated companies, also proven under competitive market conditions in Europe. The integrated structure provides a proper background for developments which are absolutely necessary in

the power system and require extreme expenses, while the company can cooperate as a partner with the professional investors representing the largest European power company groups also present in Hungary just due to the organisational structure proven in Europe.

Given its capital strength, the Group is able to contribute to the implementation of the national energy strategy objectives efficiently and on the merits due to its ability to reduce risks, arising from its integrated operation and also improving its market competitiveness. The fact that its is owned by the state allows the state to facilitate the implementation of these objectives not only by regulatory means, but also as owner.

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I.B.C. Praha Co. Ltd. was established in the year 1994. In co-operation with Armatúrka Krnov manufacturing works is engaged in design and construction activities in the field of steel valves for nuclear engineering, oil-processing, chemistry, power generating, district heating and gas industry. From the technical know-how point of view our company takes advantage of human resources, up to date evidence and data and production disposing capacity of the former Research Valve Institute SIGMA, later ARPO. Valves are characterized by high grade of safety and operational reliability, which is guaranteed by the Quality Assurance Management System, introduced and certified in compliance with ISO 9001:2008 Standard.

Structural design and technical conditions of all the valves for nuclear power engineering meet «General technical requirements for valves and piping NP 068-05 and related regulations. Our company is experienced in deliveries in accordance with the requirements of the Code 309/2005 Sb., – about ensurance of technical safety of chosen equipment, SÚBJ No. 214/97 Sb., 56/2006Zb. z., ÚDJ SR 317/2002Z.z.

Valves for nuclear power engineering are on regular basis manufactured from materials P 265 GH (11 416), 12 020, 22K and 08Cr18Ni10Ti, however can be made also from other types of steel according to the wish of clients.

The essential principle of our company philosophy consists in the effort to provide maximum services and comfort to our customers at reasonable pricing in long time run. We are happy to say that we have succeeded in fulfilling our intentions until now, since the very beginning of our activities we started more than 17 years ago. We believe frankly that we shall follow this way based on our mutual partnership even in the coming future.

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«Institute «Orgenergostroy» is one of the leading companies of the Russian Federation dealing with of construction, overhaul and technical modernization of the projects of power engineering, gas-oil and ore mining and smelting complexes

Designing divisions of the Institute perform architectural and civil designing of civil items, develop designs of engineering lines and systems and develop special sections of designs as well. Engineering divisions of the Institute perform comprehensive management of construction of the projects, including “turn-key” ones.

An important direction of the Institute’s activities is scientific-research and R&D domain.

Invensys Operations Management



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Invensys Operations Management offers cost effective, low risk, full scope systems and engineering capabilities that meet the unique demands of the nuclear industry, including plant life extension, resolution of obsolescence issues, increased plant performance and meeting the latest regulatory guidelines. The capabilities of our dedicated nuclear team extend to new build projects, addressing control room design, Instrumentation and Control architecture design, application engineering and configuration, and full integration of Invensys products as well as third party and OEM supplied control systems.

Invensys provides the unique functionality demanded by nuclear plant operators including a plant-wide DCS system, a market-leading 1E certified safety system with more than 400,000,000 operational hours without failure on demand, seismic and radiation certified instruments and comprehensive simulation and operator training (OTS) solutions. We provide the only complete nuclear Instrumentation and Control solution which is owned and fully supported by a single supplier, delivering continuously current solutions with low project risk.

Key Benefits

- Single source supplier for nuclear I&C solutions
- Wide range of industry application and solution knowledge and expertise
- 10CFR50 Appendix B, 10CFR21, and NQA-1, and IEEE 1012 compliance

Key Capabilities

- Proven, global track record with over 50 years of experience
- Design, integration, testing and documentation of safety and control systems
- Commercial-off-the-shelf systems designed and manufactured by Invensys
- Turbomachinery control – All OEM’s and reactor types
- 1E Certified Safety Systems – SER from the USNRC
- Software Integrity Level 4 as defined by R.G. 1.168 and IEEE 1012
- Nuclear Augmented Quality to SIL 4, 3 or 2 as defined by IEEE 1012

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I & C Energo a.s. was established in 1993 and it is an engineering and supplier organization providing services in particular in the field of instrumentation and control systems, information systems for industry, electrical power systems and power production optimization including engineering support.

At present, I & C Energo a.s. ranks among the largest Czech firms in this field and supplies the Czech and foreign markets with its three main products:

1) Industrial Service (comprehensive planned, random and predictive maintenance and technical support for I&C and security systems, electric power systems, electronic systems for buildings)

2) Capital Projects (complete engineering design, installation and commissioning, regular warranty and post-warranty):

- Industrial automation, measurement, radiation monitoring system
- Electrical systems and equipment, supporting steel structures
- Building technologies and systems

3) Power Production Optimization.

Market segments, in which the company operates, are the classical power industry and nuclear power industry, heating plants, the water industry, the paper industry, the mining industry, the chemical industry and utilities.

Recent and current nuclear power projects: NPP Temelin (Czech Republic), NPP Dukovany (Czech Republic), NPP Mochovce (Slovakia), NPP Sizewell (UK), NPP Ringhals (Sweden), NPP Ling Ao (China), NPP Rivne, Khmelnytsky and South Ukraine (Ukraine) and other projects.

Besides the priority scope in the power engineering segment in the Czech Republic, I & C Energo implemented projects in last five years in 25 countries, including some outside Europe. With respect to the situation and the extent of investment intentions in main market segments of I & C Energo's scope, the company plans to keep its positive trend of production growth. This goal is based on a current position of I & C Energo in the market considering expected development of nuclear power industry in the Czech Republic and abroad.

- Nuclear power industry and classical power industry
- Heating plants
- The water industry
- The paper industry
- The mining industry
- The chemical industry and utilities

Kabelovna Kabex a.s.

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Kabelovna Kabex a.s. is the producer of special cables, hermetic cable bushings and cable sets for nuclear energetics, petrochemistry and for special premises of traffic tunnel buildings. Modern production technological base relies on own development and cooperation with science technical base.

Production programme:

- power, communication and control cables including optical cables
- halogenfree and fire-resistant cables
- cables for hermetic zones of nuclear power plants of VVER type (LOCA)
- hermetic cable bushings for nuclear power plants of HV and LV modular construction
- cable sets: cable joints, cable termination, connection sets and reMedial sets

Kabelovna Kabex a.s. has references of supplies for nuclear energetics for more than 15 years in more than 18 production units in Europe and Asia.

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We produce and sell customized cold-rolled profiles made of steel, stainless steel, aluminium and other non-ferrous metals. Further materials we process include dual phase steel, multi phase steel and coated strip. Moreover our array of products comprises the assembling of system components.

Kirchhoff & Lehr processes:

- Tap Thicknesses from 0,3 mm to 6,0 mm
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- Profile Lengths until 25.000 mm

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KMW Engineering started its operations in 1983. For nearly 30 years we have executed a few hundred modern ventilation systems, both in Poland and abroad.

Products from KMW Engineering are used to ensure comfort and in technological processes. KMW Engineering specialises in industrial ventilating systems, being the most demanding group of the systems.

Highly qualified staff of over 200 employees executes the production process at two plants located in the central-north Poland: in Solec Kujawski and Inowroclaw. The team of fitters having many years of experience at our company allows for professional and quick execution of any investment.

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COMPANY DATA

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- Certified with EN ISO 9001
- Experience in management and excellent teamwork

- Customer care
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 - Advanced technology – environmentally friendly
- PRODUCTION PROGRAMME
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 - Cranes for automated operations, storage and workshop facilities in metallurgical industry, power engineering and other industries
 - Sophisticated and very heavy steel structures
- REFERENCES
- JASLOVSKÉ BOHUNICE NUCLEAR POWER PLANT – VVER 400 MW
 - DUKOVANY NUCLEAR POWER PLANT- VVER 440 MW
 - MOCHOVCE NUCLEAR POWER PLANT – VVER 440 MW
 - TEMELÍN NUCLEAR POWER PLANT – VVER 1000 MW

KV STEEL s.r.o.



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Czech engineering company KV Steel s.r.o. was established in 2004.

The production program is executed in this location, this program is based on realization of orders based on customer's requests in primary areas of framework welding, production of specialized industrial parts, steel constructions, piping systems etc.

In year 2009 KV Steel start new program for production and experimentation is dedicated to development and manufacturing blowers and machines of Root's type.

Standard series blowers works from 20 to 10 000 m³/h and the compression of from 20 to 100 kPa. Standard vacuum pumps are working from a pressure of 50 kPa abs. For a year and a half of business I sold approximately 200 aggregates with Roots blower. An important milestone for us, the shipment is the blower KV500 A ETE. This blower works at the Temelin nuclear power station (ČEZ) in the system the combustion of hydrogen.

Customers obtained KV Steel from different European countries and in particular from Russia. KV Steel seeks supplies of special blower aggregates in different systems of nuclear power stations of Russian provenance.

LDM, spol. s r.o.



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Design, manufacturing, sale and service of industrial valves for HVAC, power generation and other industry application.

M+W Group



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Infrastructure and Auxiliary Facilities for Nuclear Power Plants

For Nuclear Power plants M+W Group provides high quality services from owners engineering support to comprehensive turnkey solutions for auxiliary and nuclear installations. We continuously transfer "Lessons Learned" from other multiple high-tech and highly complex activities to nuclear energy solutions.

MANDÍK, a.s., HVAC Special Applications Division



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Producer of HVAC systems, mainly Fire safety related components preventing spreading of fire and combustion products through air-conditioning ducts or apertures in dividing constructions, acting as barriers between separate fire sections (Fire dampers) and Regulating elements to regulate airflow or to tightly separate sections of air conditioning ducts (tight, overpressure, regulating and insulating dampers). Products resistant to seismic phenomena and high pressure, while allowing higher air velocities. Resistant to corroding environments.

MICo, spol. s r.o.



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Manufactures separators for nuclear power plants, condensers, pressure vessels, heat exchangers, tanks, comb profile gaskets with expanded graphite to seal of the problematic nodes both nuclear and conventional power plants, the technology for energy, chemical and food industries, including custom design and construction. For production and assembly of separators sewage treatment type USBF. All production activities are focused on environmental programs.

The company owns certificates and authorization for the realization of the production program.

MODŘANY Power, a.s.

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**Montage Complect Engineering Ltd.**

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Montage Complect Engineering Ltd. is a single share holder limited liability company registered in 1991 and for twenty years now has been providing works, services and expertise in the field of:

- Design of metal structures and pressure vessels, made of carbon and stainless steel;
 - Consultancy services in the field of welding processes and technologies;
 - Delivery, fabrication and site erection of metal structures and pressure vessels, construction of cement furnaces;
 - Main pipelines construction;
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 - Certificate I-002997 from the Bulgarian Construction Chamber for group One – high construction developments, associated infrastructure, electronic communication networks and equipment – First to Fifth category of Developments
 - Certificate III-000712 from the Bulgarian Construction Chamber for group Three –Energy infrastructure constructions – First to Third category of Developments
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 - Bureau Veritas Mode II Scheme Recognition
 - DNV Recognition
 - ABS Recognition of Service Provider
 - Germanischer Lloyd Certificates for Approval

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MPOWER Group integrates companies in the area of development, echnology, engineering, production and service of valves for both nuclear and conventional power plants. MPOWER continues in the tradition of producing

industrial valves of the „SIGMA Modřany“. Its main advantage lays in its own development, design and manufacturing facilities. Our own design, production and technology facilities along with the advanced network of production cooperation allow us to respond flexibly to individual customer needs. The production portfolio is being expanded by new types and new design series, allowing us to provide general contractor services during the construction of new power plants. The Group’s ambition is to further develop its position in the segment of high-pressure and nuclear valves. The company’s logn-term goal is to provide complex solutions of supply for power and engineering companies, including design, construction and calculation works, a comprehensive range of valves, a modern manufacturing base, and maintenance and repair at customers’ premises. The dynamic growth of the company is achieved through a clear vision and management accountability, supported by a team of experts.

Národní strojírenský klastř, o.s.

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Národní strojírenský klastř (Czech Machinery Cluster) represents 58 organizations with 21 000 employees with turnover 2,2 billion USD.

Národní strojírenský klastř develops Supply Chain for NPP Construction

NON-PROFIT PARTNERSHIP “NIZHNIY NOVGOROD NUCLEAR ENGINEERING BUSINESS CENTER”(NP “NBC Atommash”)

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NP “NBC Atommash” – a public nonprofit organization created to support the enterprises of nuclear power engineering.

The members of the NP “NBC Atommash” – Russian and foreign enterprises and organizations, manufacturers and suppliers of products and services for the Russian nuclear project.

Main activities:

- Promotion of its members’ products on Russian and foreign markets of products and services for nuclear power plants;
- International cooperation with Czech Republic, China, South Korea, Italy, Spain, Germany, France, Vietnam, Belarus and other countries;
- Organization of conferences, presentations, exhibitions, fairs in Russia and abroad, including unique project International Scientific & industrial Forum “Nuclear Machine-building Fair”;
- Advertising and publishing activities, including publishing of the “Nuclear Project” magazine;
- Organization of technical meetings with the participation of nuclear industry leading specialists in order to discuss the application of members’ products in the projects using the Russian NPP design;
- Performing special projects on the basis of contracts with customers, including (through a contract with JSC “NIAEP”) – a project for the preparation and processing of information about the products of foreign manufacturers for including it into the “Unified industry nomenclature catalogue of equipment for nuclear power plants”.

NORGREN – IMI International s.r.o.

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Nuclear Decommissioning Report

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United Heavy Machinery's activities are diversified and include the following business areas:

- Equipment for the nuclear power industry
- Engineering and equipment for the oil and gas industry
- Drilling equipment for the oil and gas industry
- Production of special steels
- Metallurgy equipment
- Mining equipment
- Cryogenic equipment
- Engineering and construction works

United Heavy Machinery:

- The only manufacturer in Russia and the CIS of vessel-type primary circuit equipment in complete sets for VVER-type nuclear power plants with power outputs of 1000 MWe and 1200 MWe
- Russia's leading producer of unique, heavy equipment for petroleum and gas processing
- One of the world's top five producers (along with Japan Steel Works, Japan Casting & Forging Corporation, China First Heavy Industries, China Erzong) of large and super large special steel products for conventional and nuclear power engineering, metallurgical and petrochemical engineering, as well as for national strategic industrial purposes
- Russia's leading manufacturer of electric mining shovels and one of the world's largest manufacturer of walking draglines
- Russia's leading manufacturer of drilling equipment for the oil and gas industry
- Russia's largest manufacturer of metallurgy equipment

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The company specialises in job-order manufacture of pressure equipments for petro-chemical industry and oil refinery according to following standards : ASME Div1,Div2 including „U”stamp , AD 2000 , EN 13445 ,PED 97/23/EC ,GOST-R, Roztechnadzor, Promatomnadzor ,EN ISO 9001:2009 . The company started this specialised production in 1964 and to this day it has produced more than 2.100 pieces of pressure equipments such as Pressure Vessels, Heat Exchangers, Tanks, Tube bundles, Condensers and Columns made of material by Carbon steel, Stainless steel, Monel, Duplex, HIC and other materials.

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Otavské strojirny a.s. is reliable and flexible engineering company with long tradition. It is specialised in aluminium, carbon and stainless steel series production as well as customized products both based on customer requirements. Otavské strojirny covered production of different components, welding and prefabricated parts. It also provide series production including prototyping and samples or single-piece custom production in segments of storage system, building and agricultural machines, building constructions, railway vehicles, tunnel boring machines, weldments from aluminium and stainless steel.

OJSC Power Machines

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Power Machines is the Russia's leading manufacturer and provider of complex end-to-end solutions in the field of the electric machine industry, which include the engineering, production, supply, erection, servicing and modernization of the equipment for the hydraulic, thermal and nuclear power plants.

Rakovnik

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PÖYRY ERŐTERV Ltd.

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ERŐTERV, which is a power plant and network design company, was founded 60 year ago and now it belongs to the Pöyry Group. ERŐTERV designed the Hungarian conventional power plants, transmission lines and substations, and contributed to the Paks nuclear power plant investment, as a general designer from the very beginning. In recent decades, ERŐTERV has taken part in the safety improvement measures, in the reconstructions and in the plant lifetime extension projects.

Currently ERŐTERV is involved in the preparation of the new nuclear units of Paks NPP.

Main nuclear reference projects of ERŐTERV during last years:

- Reconstruction of the Radiation Monitoring System
- Strength calculation and studies for Plant Life Extension program of existing units
- Basic design for reconstruction of Chemical Sampling and Metering System
- Basic design for reconstruction of Demineralised Water Plant
- Detailed electrical, I&C, software and civil design for monitoring system of Severe Accident Management
- Recovery project after accident of fuel elements
- Licensing of storage for the final disposal of low and medium activity radioactive waste of the nuclear power plant

Engineering branches:

- Mechanical engineering
- Electrical engineering
- I&C engineering, Process control
- Civil engineering, General organisation
- Environmental protection
- Radioactive Waste Management

Design and engineering activities for:

- nuclear energy generating and service facilities
- conventional energy generating facilities
- electric substations
- electric networks
- management of electric systems

Certificates:

- ISO 9001
- ISO 14001
- Certified supplier of Paks NPP

PowerTec Russia Magazine

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PowerTec Russia & CIS Magazine is the leading technology publication for the fast moving power generation market in Russia & the CIS regions. Promoting the latest technologies that increase efficiency in this sector, it is read by engineers and senior management across this important market.

Pražský telegraph

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Pražský telegraph is a weekly newspaper, unique on the market of Russian-languages press of Central. In our newspaper you can read about events in Czech Republic, economics, social affairs, culture, etc.

Chief-editor of «Prague Telegraph» – Natalia Sudlenkova is autor in the newspaper «Izvestia», magazine «Profile» and «The National Banking Journal» (Russia), magazines Týden, MF Plus, newspaper Lidové noviny, E15 (Czech Republic), etc.

Circulation – 4 thousand. a week.

The newspaper have more than five hundred subscribers, for example embassies of Russia, Belarus, Ukraine, Moldova, Kazakhstan, Azerbaijan, «Gazprom export», Khanty-Mansijskiy bank, First Czech-Russian bank, ŠkodaJSPilsen Steel, MSA, Arako, companies Červa, Maxima, Vemex, ALTA, Cheteng Engineering, EU-Real Estate, European-Russian Bank, and others.

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The company PRAKAB PRAŽSKÁ KABELOVNA s.r.o. is a production center for the SKB Group with more than hundred years of tradition in cable manufacturing. The production program covers a wide range of cables up to 1 kV, i.e. installation, energy, telecommunication, control and electronic cables. In the last decade it started to produce halogen-free, low-smoke and fire resistant cables that meet latest international standards. The production has been certified to meet fire safety standards in many countries, such as the Czech Republic, Germany, Austria, Slovakia, Poland and Russia. Long-term export proves high product quality and the company reliability as a supplier.

ZAO «Progress-Ekologiya»

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INNOVATION – Main activities

CJSC «Progress-EKOLOGIYA»

LA Lomazova, TG Gushchina

CJSC «Progress-Ekologiya», Obninsk

CJSC «Progress- Ekologiya is represented on the high technology market since 1999.

Main activities:

- Funding and implementation of innovative technologies in the field of nuclear energy and industry;
- the developing, manufacturing (или production) and supply (или delivery) of equipment for nuclear power stations and ROSATOM;

- research and experimental design works

The main products of company «Progress-Ecology» are high-performance aerosol filters new generation of filtration equipment for cleaning the air in the ventilation systems of nuclear power plants, sorbents, filter-adsorbers, equipment for collection and transportation of solid radioactive wastes.

The company is working actively with science centers, art groups and individual scientists from Russia - acquires the licenses for the patented innovations' production, sponsors final scientific researches and experimental engineering developments and implements perspective products in to its manufacturing facilities.

The innovative approach allows the company to create and produce a new generation equipment that meets modern requirements and to ensure a reliable quality control. All manufactured filtration equipment passes acceptance tests at certified by Gosstandart test complex IKAF-5000 and on a testing stand for in iodine sorbents on radioactive iodine.

During twelve years, CJSC «Progress-Ekologiya» mastered the production of various products:

- The new generation aerosol filters with the working capacity FVEA 3500 m³ / h and the efficiency of glasspaper of Class 99.95% H13 and H13-H14 Class - 99.97%. Filters are intended for exhaust and inlet ventilation.

- Specially developed filter-adsorber FAI-2000-1E and versatile aerosol and sorbing filters FAI-3000-1 and IFA-3000-2, which are designed to be installed in ventilation systems, which has not previously been provided with cleaning from radioiodine, but such a need exists.

- Filter adsorber IAA-1500 with a replaceable cartridge, filled with impregnated activated carbon SKT-3IK («Sorbiob»), surpassing its sorption properties overseas counterparts. Modernisation of the design of the adsorber had provided with an opportunity to replace their spent sorbent only, what positively effects on economic indicators, while decreasing the load on the storage of SRW at nuclear power plants.

- Filters FARTOS of 250, 500 and 2500 m³ / h for the treatment of emissions from liquid radioactive aerosols, capable to operate with self-cleaning efficiency of 99.9%. Filters are suitable as well for trapping and solid and mixed radioactive aerosols.

- Glass fiber coarse filters FSGO-500 and Integrated Treatment FSKO-1000 for capturing the liquid and solid radioactive aerosols.

- The combined filtering plants with the working capacity from 2,000 to 12,700 m³ / h, allowing the solution of various problems of gas purification by means of an appropriate set of standard uniform items.

- The Plant filtering UVA and PE-1500 for the room environmental system for personnel that provide with the air purification from radioactive aerosols with an efficiency of at least 99.97% and 99.9% of radioiodine at an emergency at the plant.

- filter-adsorbers V-65, intended to reduce the volume activity of short-lived radionuclides of inert gases at the nuclear power station.

The manufactured gas treatment equipment now used at nuclear power stations in our country, and is being supplied to the nuclear power stations in Iran and India.

ZAO «Progress-Ecology» is equipped with modern production equipment and testing facilities, has the license of the Federal Agency for the producing and design of equipment for nuclear power stations, has several patents.

RANDA HAVEL LEGAL

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RANDA HAVEL LEGAL

RANDA HAVEL LEGAL is one of the few law firms in the Czech legal market that is focused on the energy sector in a global sense. The firm's legal services in this field include:

- preparation of tender documentation;
- drafting and negotiating EPC contracts from the perspective of an investor or EPC contractor;
- consultancy in the field of double taxation avoidance, permanent establishments, the optimal model of project insurance, project financing, securing of the contractual price payment and providing licenses for know-how and intellectual property to supplies that are the subjects of EPC projects
- regulatory matters of business activities on the energy market;
- drafting all types of contracts in the field of production and distribution of energy;
- mergers and acquisitions, including takeovers and consolidation of enterprises and establishing subsidiaries and joint ventures.

The firm's energy team is led by Jan Havel whose unique and long term experience includes over 50 major complex investment and development projects in the power sector, including nuclear power, in Europe, the Americas and Asia in the past 15 years.

RANDA HAVEL LEGAL has very strong position and experience in the power sector in the CEE territory, including modernization/reconstruction/completion of four nuclear power plants in the region – NPP Temelin (Czech Republic), NPP Dukovany (Czech Republic), NPP Jaslovské Bohunice (Slovakia) and NPP Mochovce (Slovakia). RANDA HAVEL LEGAL have also had the opportunity to participate on a large number of international power projects in the territories such as Bosnia, Denmark, Finland, Hungary, Germany, Netherlands, India, Pakistan, Poland, Romania, Russia, Turkey, United Kingdom and others.

Law firm RANDA HAVEL LEGAL won the prestigious Corporate INTL Magazine Legal Award for the Construction and Energy Law Firm of the year 2010 and 2011 in the Czech Republic. The firm has also been awarded the title of Czech Energy Law Firm of the Year for 2011 by Global Law Experts and is also the recommended law firm for 2010 and 2011 in the Europe, Middle East & Africa edition of the prestigious international publication Legal500.

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Rolls-Royce

Rolls-Royce is a global business providing integrated power systems for use on land, at sea and in the air.

Within the global nuclear industry, its focus is on providing nuclear power utility vendors and operators with integrated, long-term support solutions and services spanning the reactor lifecycle, from concept design to in-service support through to obsolescence management and plant life extension.

A world-leader in safety-critical digital instrumentation and control systems for nuclear reactors, Rolls-Royce has nuclear I&C systems installed in over 200 reactors across 20 countries.

For over 50 years, Rolls-Royce has been helping naval and commercial utility customers to maximise plant operation and safely extend plant lifetimes. Its capabilities cover four core areas of expertise:

- Safety, licensing and environmental engineering
- Mechanical systems and component engineering

Instrumentation and control
In-service support

ROSENERGOATOM CONCERN JSC



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Electricity generation

JSC Concern Rosenergoatom is one of the largest Russian utilities and the only nuclear operator in the country. JSC Concern Rosenergoatom generates electricity and heat at 10 nuclear power plants in Russia and performs siting, construction, operation and decommissioning nuclear installations, radiation sources and nuclear materials and radiation substance storage facilities.

At present, JSC Concern Rosenergoatom operates 32 power reactors with a total electricity output of 16,6 % of Russia's generation in 2010.

Among Russian and foreign utilities, Rosenergoatom is leading in terms of installed capacity (24.2 GW) and electricity production, which amounted to 170.1 billion kWh in 2010.

Sandvik Chomutov Precision Tubes Ltd



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Sandvik is a high-technology, engineering group with advanced products and a world-leading positions within selected areas. Worldwide business activities are conducted through representation in more than 130 countries. Sandvik's operations are based on unique expertise in materials technology and extensive insight into customer processes.

This combination has provided world-leading positions in three primary areas:

- Sandvik Tooling – tools and tooling systems for metal cutting, blanks and components
- Sandvik Mining and Constructions – equipment and tools for the mining and construction industries
- Sandvik Materials Technology – products in advanced stainless materials, titanium, special alloys, metallic and ceramic resistance materials and process systems.

Sandvik Chomutov, as a member of Sandvik Materials Technology group, is producer of precision seamless stainless tubes from high alloy materials. The tubes are used in different industries, as Oil&Gas, Energy etc, and different applications, as Steam generator tubes, Heat Exchangers tubes, tubes for Umbilical cables production etc, where high corrosion resistance and top quality of the product is required.

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Schulz Export is 100% owned by Wilh. Schulz GmbH and acts as exort sales office and organization for Wilh. Schulz. Schulz was established in 1945 and is now worldwide a leading manufacturer and supplier of seamless and welded tubes and pipes, butt weld fittings, flanges, forgings, stub ends, spools and special pipe components in stan-

standard stainless steel grades, high nickel alloys, duplex, super duplex, 6Mo grades, titanium, copper-nickel, hastelloy, exotic materials, carbon steel as well as clad material.

Piping components are manufactured from NPS 1/2" 10S up to 30" OD with 6" wall thicknesses (smls.) Welded components are produced up to 98" OD with no wall thickness limitations.

SeeNews World



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SeeNews (www.seenews.com & www.world.seenews.com) is a group of products carrying timely, accurate, reliable, exclusive and in-depth news and research from more than 80 countries worldwide. SeeNews is a leading source of information for investors, analysts, bankers, brokers, financial consultants, Media, state institutions, international organisations and all professionals who need high-quality comprehensive coverage of events crucial to their investments and work. SeeNews focuses on hot topics and industries across both established and emerging markets covering key company news, results and analyses giving insights into the latest market deals and in-depth coverage of M&A.

SLOVENSKÉ ENERGETICKÉ STROJÁRNE a.s.



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Deliveries of equipment for both power and combined power and heating plants, incinerating plants and industrial companies. Equipment and products for nuclear power engineering: high-pressure heaters, low-pressure heaters, condensers, pipelines, pressure vessels, tanks, deaerators, water heaters, separators. Manufacturing technology for large-size, heavy machined products and welded elements (horizontal boring and drilling machines up to 250 mm diameter, carousels up to 14 000 mm, handling materials up to 200 tons).

Siempelkamp Tensioning Systems GmbH



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Single/multiple stud tensioning and turning equipment for primary components of NPPs of Western and Russian design, service for opening/closing of RV, cleaning of studs, nuts and flange holes, upgrades of tensioners (business references in China, Czech Rep., Slovakia, Russia, India, France, USA, South Korea)

Sigma Group a.s.

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Sigma Group a.s. is a modern, dynamic machinery company which is the most important manufacturer of pumps in the Czech republic.

Currently it is centring on a research, a development and manufactory Medial, heavy and Unixe pumps and pumps aggregates for using in industrial. In this area the company belongs to the world's top pumps companies and successfully connects to long-term tradition of producing the pumps. Among the important customers are home and foreign industrial companies which work in the area of light and heavy industry, classical and nuclear power engineering, petrochemistry, oil extraction, coal mining and water management.

ŠKODA JS a.s.



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ŠKODA JS a.s., a nuclear engineering company gained vast experience and proved to be a reliable provider of engineering, equipment and service for nuclear power plants worldwide.

Engineering

In projects of the Czech and Slovakian nuclear power plants has ŠKODA JS been acting as the main contractor of the primary circuit and fuel handling systems. Deliveries involve detailed design, manufacture, procurement, on-site erection, start-up tests and commissioning.

In 2009 ŠKODA JS signed a contract on supply of crucial systems and components of the nuclear island for the Slovakian Mochovce NPP Unit 3&4 Completion Project. Two nuclear units are to be completed in 2012, 2013, respectively.

Production

ŠKODA JS has manufactured and delivered 21 sets of VVER-440 type and 3 sets of VVER-1000 type nuclear reactors. The deliveries involved reactor pressure vessel, reactor internals, control rod drive mechanisms and all other major reactor components. More than 2000 pcs of control rod drive mechanisms for the VVER-440 and the VVER-1000 type of reactors have been delivered to several NPPs in Central and Eastern Europe.

Other major projects: supply of BWR reactor internal components for two units at the Forsmark and Olkiluoto NPPs, two reactor main flange joint stud tensioners for the Lungmen NPP (Tai-wan). At present, the manufacture of reactor internal parts for the new constructed EPR reactors of the Chinese Tianshan NPP/Unit 1 is in progress.

Spent fuel storage equipment involves compact storage racks and transport and storage casks. To date, 335 pcs of various type of casks have been manufactured.

Service

ŠKODA JS meets the current requirements of NPP operators by providing a state-of-the-art equipment and technologies of technical services including in-service inspections of the reactor pressure vessel and primary piping, equipment lifetime extension and repairs. Recently, a long-term contract for entire maintenance works in reactor building of all six Czech NPP units has been signed.

ŠKODA PRAHA Invest

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ŠKODA PRAHA Invest is offering its clients tailored solutions according to their needs and requirements while maintaining high quality standards and competitive prices. In its strategy is to concentrate on acquiring construction projects of new power plants, plant technologies (balance of plant) and environmental constructions as well as reconstruction, modernization and maintenance.

ŠKODA PRAHA Invest offers professional elaboration on various levels of project documentation regarding power plants in digitalized form:

- elaboration on project documentation ranging from feasibility studies, and bids to implementation of projects,
- elaboration on complex documentation regarding power plant start-up and commissioning, ranging from clean-up operations and testing programs to accurate control verification of delivered equipment and performance guarantees,
- compilation of operational rules and instructions for single technological systems as well as for entire units,
- design of database model of current power plant status,
- elaboration on maintenance documentation,
- digitalization of archive documentation.

ŠKODA PRAHA Invest as the technology general supplier for the construction of all nuclear power plants in the Czech Republic and Slovakia cooperates also in engineering projects relating to

- fuel circuits in nuclear power plants, radioactive waste processing and storage,
- rehabilitation of nuclear units, capacity expansion
- disposal of decommissioned nuclear units.

State Scientific Center of the Russian Federation – Institute for Physics and Power Engineering named after

A. I. Leypunsky (SSC RF – IPPE)

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«The priority direction of SSC RF – IPPE activity: studies in the area of development of fast neutron reactors and closed fuel cycle technologies. Safety systems of NPP with fast reactors, as well as VVER type light water reactors are designed.

Job-order production:

- VVER-1000 и 1200 leak detection systems reactors;
- VVER-1000 и 1200 NPP Hydrogen Safety System
- filters (including iodine-based absorbers) for removal of toxic and radio-active aerosols from the air;
- radioisotopes for medical and technical purposes, including radiopharmaceuticals and radiation sources.

Areas of development:

- water nano-technology of manufacturing of high thermal conductivity modified oxide materials;
- liquid metal technology of synthesis of nano-structured materials, in particular, aluminum hydrate ALOOH;

- technology of plasma-chemical synthesis of filtering membranes with organic and inorganic porous substrates. The line of filters and filtering elements for purification of water and other liquids is to start-up».

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The STM POWER was founded in the year 2002. A main professional interest of its promoters was to push through in the field of hydromechanics and hydro power plants. This interest determined the main objectives of the entrepreneurial plan focused on production, updating, reconstruction and repair of machine equipment in the field. Individual skills and experience of personnel and knowledge of the entrepreneurial environment have been the precondition for a fast development of rather small company. After three years of activity on the market the company has been stabilised and profiled into the present state. The company gained stable customers.

In 2004, the Division of Nuclear Energy was established within STM POWER. The Division of Nuclear Energy performs consultation, engineering and documentation activities and provides technical support in accordance with §4 of the Act No. 130/1998 on peaceful use of atomic energy. Performing the above mentioned activities is supported by skilled and experienced personnel enlisted and engaged in the STM POWER who have worked in the corresponding fields for many years.

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Main supplier of disc brakes for French nuclear industry since 30 years, Stromag France provides worldwide braking solutions meeting all safety and quality requirements. Our company is validated by ISO9001:2008 certification and EDF (French Electricity company) qualification.

All Stromag France products are developed and manufactured to meet the stringent and specific needs of the nuclear field market place validated by the availability of Quality Plan, reinforced controls and conformity certifications. All countries that have chosen nuclear energy are constrained high security to ensure optimal environmental protection.

Therefore, handling of radioactive materials must be completely secure.

Thanks to the confidence of its customers, disc brakes equip since many years nuclear cranes, not only in Europe: France, England, Germany Czech Republic ... but also in Asia: China, Korea ...

In this application, our products meet high standards of quality, reliability and robustness.

Furthermore, Stromag France as specialist in nuclear application is able to provide "product adaptation" service for client's specific requirements concerning material, lowering system load secure, electrical switches, decontamination painting or protection selection, with the possibility to have customer witness testing conducted in-house. Electromagnetic or hydraulic, each brake is selected by our engineers to optimize the best braking system.

Stromag France skills are world-renowned:

We supply braking systems for DIAKHONT, AREVA, NKM NOELL and KONECRANES...

Emergency brakes are already installed in OSKOL (Russia) and DUCHOVANY (Czech republic) nuclear power plants

Because nuclear applications require high level of safety, your installations require STROMAG FRANCE braking systems.

SYNCHRON-S Ltd.

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The company SYNCHRON-S is specialized in development of complete range of technical solutions in the field of fire safety and security. The company carries out design, project legalization and installation of:

FIRE SAFETY SYSTEMS: Sprinkler extinguishing systems, Water mist, powder and foam extinguishing systems, Gas extinguishing systems, Fire detection and alarm system

SECURITY SYSTEMS: Intrusion detection, Video surveillance and Access control systems

With 20 years of experience and more than 2 500 completed projects SYNCHRON-S has a leading position among suppliers of engineering services and specialized technical solution in the field of fire safety and security. SYNCHRON-S has successfully completed projects in civil, industrial and special purpose sites. The company has realized one of the biggest projects in the country. Among them are Thermal Power Plant Bobov dol, Thermal Power Plant Maritza East, Assarel Medet, Sofia Airport, Ministry of Defence, Megapark Sofia, etc.

The full spectrum of activities that the company provides for each project is a guarantee for high quality and efficiency of the systems, and in particular: Risk assessment, Project design, Delivery and installation of the equipment, Start up of the systems, Professional service support, Technical maintenance tests and Training the personnel responsible for the building safety.

In the process of planning and implementation of the systems SYNCHRON-S rely on the latest technologies, rich experience and reliable equipment of world leading producers. The company is representative of SIEMENS, TYCO and LPG. The equipment is approved by recognized testing laboratories and meets European and international standards.

SYNCHRON-S is certified according to the standard ISO 9001:2008 and has VdS certificate for Installation and maintenance of Sprinkler Systems and certificate from Ministry of Defence according to the standard BDS EN 50133.

Tatra Tender s.r.o.

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Tatra Tender s.r.o. is a Slovak consultancy company providing complex services in the area of public procurement. Members of our team possess substantial experience in management and realization of the public procurement processes, including the preparation of candidates' bids for public procurement. Juraj Revický is an attorney at law and a co-owner of the firm. He has been cooperating with Russian Trade Representation in Bratislava, including offer of services to ATOMSTROJEXPORT in Slovakia. Tatra Tender also advises the largest Slovak electricity producer (contracting entity) – also in relation to its procurement of supplies facilitating of NPP. Among other Tatra Tender clients are several major contracting entities and tenderers – Siemens, DECOM, TATRAVAGÓNKA, Železiarne Podbrezová. Tatra Tender advises several clients in close co-operation with Peter Bollardt. Peter Bollardt is an Of Counsel at Čechová & Partners; previously, he worked at White & Case and had an independent practice. Peter provides legal advice to one of the largest electricity producers in the country regarding various aspects of its operations, especially commercial litigation, energy law, corporate law and other areas. He also advises a company active in underground natural gas storage activities and represents an agency administering state owned land in litigation matters.

Company "TENEX- Service"

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TENEX-Service is a universal, dynamically growing leasing company which has considerable experience in leasing projects implementation both with Russian and foreign companies and enterprises.

TENEX-Service leasing company was established in 2005 and it is part of the State Atomic Energy Corporation "Rosatom". The sole shareholder of TENEX-Service is JSC "Atomenergoprom".

The principal direction of TENEX-Service's activity is financing and complex upgrading of companies' and enterprises' production base on the terms of financial lease for the purpose of technological leadership development and innovation potential increase.

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TES Limited Company has been established in 1992 as an engineering company providing engineering and testing services to power industry, especially to the nuclear one. In its activities, the company relies on its own development, know-how, up-to-date-technical equipment and an experienced and highly qualified team of professionals. The company first priority is high-quality services, responsible approach to its customers and timely fulfillment of all obligations and liabilities. The company has obtained quality certificates according the common European Standard. The operator of Czech nuclear power plants CEZ Utility has includes TES Company among its selected contractors

TES Ltd Company provides wide range of engineering and technical services to power industry including special measurements of electrical and process parameters, cable diagnostics or monitoring of electrical system performance. TES Ltd Company also develops and supplies testing systems for these purposes.

TES Ltd Company provides also services in the area of preparation and implementation of investment projects, model calculations of thermo hydraulic processes, development of operating documentation, event analysis including analysis report preparation and technical reviews of documents related to commissioning and operation of power generating facilities.

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TÜV NORD Nuclear, Services in the field of nuclear safety

Under the common label TÜV NORD Nuclear the entities of TÜV NORD Group operating in the nuclear field provide services to nuclear regulatory authorities as well as vendors and operators of nuclear installations worldwide.

In general terms, the TÜV NORD Nuclear services encompass safety assessments, design reviews, documentation reviews and inspections and therefore reflect the full scope of a technical service provider in the nuclear field.

In the German market, these TSO services are provided exclusively for the regulator, whereas in the international environment TÜV NORD Nuclear may become involved on behalf of any party.

All TÜV NORD Nuclear services are subject to the application of stringent Safety and Quality Management rules.

The TÜV NORD Nuclear services extend to all kinds of nuclear facilities encompassing for instance nuclear power plants, research reactors, fuel supply facilities, treatment and interim storage facilities for spent fuel and radioactive waste as well as repositories for final disposal.

The services of safety assessments, reviews and inspections within the framework of nuclear licensing and supervision are based on highly sophisticated and advanced approaches, profound knowledge and a vast experience in all areas of concern. TÜV NORD Nuclear has developed and continuously updated these competencies in line with the development of the state of the art in the past decades.

Although originally developed in the specific German nuclear licensing and supervision environment, these competencies can equally be applied in the international area by offering customised services to clients abroad.

TÜV NORD Czech, s.r.o.



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TÜV NORD Czech, s.r.o., subsidiary of TÜV NORD International, is an accredited body by the Czech Accreditation Institute which has been more than two decades in business. By this time the company has achieved a strategic position on the domestic market.

Our company provides large range of certification services, product certification (technical inspections, personnel certification), laboratory services and technical inspection stations. Our services are offered (according ISO and EU and Czech national standards) mainly in fields of industry, energy, transport, agriculture and governmental authorities.

Main accreditations and authorizations:

- Authorised Body No. 248 performs activities concerning the conformity assessment accord. to the Regulation No.309/2005 Coll. for law-governed nuclear facility components
- Inspection Body No. 4013 accredited accord. to the Czech national standard ČSN EN ISO/IEC 17020:2005
- Notified Body 0045 TÜV NORD of Systems GmbH & Co.KG
- Notified Body 1221 performs the activities concerning the conformity assessment
- Accredited Testing laboratories No. 1060 accord. to the ČSN EN 17025/2005
- Accredited Certification Body for certification of products No. 3170
- Accredited Certification Body for personnel certification No. 3197
- Cooperation with TÜV NORD CERT GmbH in certification services
- Since 2006 our company has extended the product offer in the Testing laboratories located in Brno. Based on the valid accreditation within the frame of EU the Testing laboratories Brno plays an important role in quality improvement by provision of mechanical testing, metallographic and chemical analysis or issuing the Certificate of quality solid fuels and biomass.

Our qualified personnel provides also training upon customer's request.

Furthermore, our company operates three technical inspection stations (1 station in Prague city, another 2 in the town Carlsbad). All stations offer carbon oxide emission measurement, sale of vignettes and plaquettes.

TÜV SÜD CZECH



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TÜV SÜD is world-reputable authority in areas of independent checking, testing, inspection, certification and education. It disposes of more than 600 subsidiaries worldwide and reaches turnover of more than 1.43 milliard EUR. In the Czech republic TÜV SÜD works since 1995 and it has nine offices in all regions.

As authorized person AO 211 TÜV SÜD considers in the Czech republic the conformity of special-designed equipments for nuclear energy, which conforms to regulation No. 309/2005 Sb. As inspection authority No. 4002 according to ISO/IEC 17020 TÜV SÜD inspects equipment and technology for nuclear energy. Main areas of activity are inspections by suppliers of classic and nuclear power stations, operation, reconstruction and modernization of nuclear power stations in the Czech republic, inspections by producers of basic and additional material for nuclear power station.

Main advantages for companies:

Checking of production and management systems of independent third party and helping of increasing of the level of suppliers for nuclear power station.

Fulfilling of Czech legal requirements for launching of special-designed equipments for nuclear energy.

Using of trademark TÜV in product's certification.

Increasing of competitiveness.

TÜV SÜD Industrie Service GmbH



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The range of TÜV SÜD services includes consulting, inspection, testing and expert assessment, as well as certification and training in all areas of technology. The objectives are safety and quality, with environmental protection and economic efficiency. TÜV SÜD has 16,000 employees located at more than 600 locations worldwide. The Nuclear Energy Business Area of TÜV SÜD has over 600 highly qualified engineers who are based in Germany, the United Kingdom and South Korean.

The Nuclear Energy Business Area has a 50-year history of providing regulatory support, in line with the main business areas of TÜV SÜD that are certification, testing, inspection and training. TÜV SÜD has undertaken international projects for Argentina, Brazil, Finland, Japan, Lithuania, Russia, Sweden, Ukraine, South Korea, Switzerland and the United Kingdom.

Within Germany TÜV SÜD is a technical support organisation for nuclear regulatory authorities, and internationally TÜV SÜD is a technical consultant/third-party supplier for utilities, manufacturers, the European Commission and licensing authorities. TÜV SÜD has developed its experience in over 500-reactor years of construction, operation and decommissioning.

Within the TÜV SÜD Industrie Service GmbH the Nuclear Division "Energy and Technology" is providing services to nuclear industry and state authorities in Germany and other countries. TÜV SÜD has gained extensive experience in all aspects of nuclear engineering and radiation protection and has been active in this field since the peaceful utilisation of nuclear energy began in Germany.

TVEL – Fuel company of Rosatom



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TVEL Fuel Company is an affiliate of the State Corporation "Rosatom". TVEL Fuel Company comprises fuel fabrication, separation & sublimation assets, as well as gas centrifuge manufacturing and equipment.

Aim of the establishment of the Fuel Company is to build an optimum structure of management of nuclear fuel cycle enterprises in order to increase effectiveness of labour and competitiveness on the global market.

UJP PRAHA a.s.



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Behavior of nuclear fuels (especially cladding tubes) in steady state, transition and accident conditions.

VALTIMET



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VALTIMET, leader in titanium and stainless steel welded tubes
Products

Valtimet, a Vallourec Group company, supplies welded tubes for heat exchangers with a complete range of product forms (straight, bent, smooth, finned, corrug, ted), sizes and materials (titanium, austenitic stainless steel, ferrite stainless steel). In Powergen, Valtimet tubes are used in Condensers, High-Pressure and Low-Pressure FeedWater Heaters as well as MSRs (in nuclear applications).

Innovation

Valtimet R&D teams develop research to enhance the performance and longevity of the tubes and optimize the manufacturing process. Thus, to meet the requirements of nuclear power plants, Valtimet, under VALFIN* trademark, has designed a unique and totally integrated production process for fining stainless steel of titanium tubes. This process enhances the outer tubes surface and optimizes the heat transfer. A2.5 to 3 ratio of finned to unfinned provides a highly efficient and cost-effective heat transfer surface effectively reducing the overall cost and size of the MSR.

Reliability

Valtimet's production lines incorporate the latest in product quality, technical know-how and expertise. Unchallenged leader in high end controls including Ultrasonic, Eddy Current, Pneumatic and Hydraulic tests, Valtimet guarantees the highest level of reliability meeting the most stringent industry specification.

VF, a.s.



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VF, a.s. is a leading international company in the field of delivering systems for Radiation Protection and Monitoring for nuclear industry.

We offer complete solutions for the refurbishment of old or the development of new nuclear power facilities, for research companies using R&D reactors, for nuclear fuel reprocessing plants, radioactive waste repositories and other clients as well. This includes a large spectrum of products for Radiation Protection and Monitoring in the following areas:

- area and process monitoring
- liquid and gaseous effluent monitoring
- monitoring of solid waste
- monitoring of personal doses and contamination received in controlled areas
- monitoring of surrounding environments
- handheld and laboratory instruments
- complete measurement, control and information systems

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VISOLA Electric Insulation Technology Ltd



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VISOLA Ltd was set up in 1991. The aim of the founders was to continue their former R&D work resulted a successful manufacturing of electrical cable penetrations (EPAs) for Paks NPP in Hungary. The 6 kV primary cooling loop pumps of four VVER-440 blocks are still energized through those 96 pieces of EPAs which have been put in service in early of 90's.

The first 4 years of the new company was devoted to development of further EPAs required by Paks NPP in order to replace obsolete power and I&C penetrations. The new products were based on application of glass-to-metal sealed feed-throughs made by Schott Electronic Packaging GmbH. The first maintenance-free EPAs equipped with gamma-screening and leakage monitoring system were installed in 1996. At present 141 pieces of 1 kV power penetrations, 199 I&C penetrations and 7 coaxial penetrations contribute to the enhanced reliability of electrical power generation in Hungary. All of them were made and delivered by VISOLA Ltd.

In 2006 VISOLA Ltd launched a new development. The goal was an elaboration of an economic technology for refurbishment of aged I&C penetrations. A lot of them are namely unsuitable for further service especially considering the decided extension of service time of Paks NPP by 20 years. According a new concept the obsolete penetration modules are to be replaced by new ones while the original casing tubes with gamma screening should remain in concrete walls. VISOLA Ltd developed a family of quite new penetration modules having epoxy resin insulation. An

installation technology – also developed by VISOLA Ltd – enables the refurbishment of penetrations both on site and in workshop.

The new cable penetration accessories and technology were subjected to a type test which was successful. Finally the Hungarian Atomic Energy Authority approved the application of VISOLA's products and procedure. 33 pieces of refurbished EPAs are already in service and further installations are planned.

VISOLA Ltd is also active in supporting recent projects related to prevention and – in worst case – managing of a heavy nuclear accident. A trade of special cables and cable accessories – included LOCA-proof ones – belongs to the company's traditional fields of activity since 1997. Last year a complex project was undertaken comprising a substantial redesign of cable junction boxes for reactor core thermometers and connecting cable system.

Weidmüller s.r.o.



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Weidmüller – partner in Industrial connectivity

Weidmüller is the leading provider of solutions for electrical connectivity, transmission and conditioning of power, signal data in industrial environments.

Portfolio of the product range include terminal blocks, industrial connectors, connectors and PCB terminals, relays, converters, optocouplers, power suppliers, surge protection, electrical enclosures, industrial Ethernet and complex of identification system .

To the wide portfolio of products also belong tools for electronics and line of customers products.

ZPA Industry a.s.



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ZPA Industry is the engineering company headquartered in Czech Republic with branch offices and representatives in Europe, North America and Middle East. The company traces it's roots back to 1952 and it has always been country's premium engineering company. It provides engineering services and products for electrical systems LV & HV, field instrumentation, control systems and SCADA/HMI systems. For each industry we have engineers experienced in given technology, who will help customers by providing services, deliveries and products for the project – from single order to complex integrated turn-key solutions. Project managers supervise the project from the first consultation with the customer to the final takeover of the project.

Competence of the company ZPA in nuclear energy. ZPA Industry a.s. has realized as the major subcontractor complete reconstruction of the electrical system, field instrumentation, control system and SCADA for 12 DGS (Diesel Generator Station) and replacement of original relay system serving for control of the reserve power and co-own consumption with new modern redundant control system on Dukovany 4 × 440 MW (ČR)

Company's major strength are it's superior engineering services, well trained and experienced staff and flexibility when working with special requirements of customers. ZPA Industry provides consulting, basic design, detailed design, author's supervision, project management and application software design (I&C and SCADA). It also provides procurement, FAT/SAT of control cabinets including verification of software, erection and supervision/coordination, commissioning with validation of software, training and maintenance.

The company draws on extensive experience it has gathered during participation on number of projects around the world.

ZPA Pečky, a.s.



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We are joint-stock company situated east of Prague. We have 240 employees and moder history of our company since 1953. Our company is industrial and certified in conformity with ISO9001:2008. We are divided to three together cooperated divisions. We are producer of electric actuators, gearboxes, machined parts for machine build-ings and automotive, sheet metal parts and Roots blowers. Electric actuators are usable for control of different kind of valves in different kind of operation, including hermetic zone of NPP. For sample: NPP Temelín, NPP Dukovany, NPP Mochovoce and some NPP's in Russia, Bulgaria and China. Electric actuators we deliver to all countries directly of through valves producer. For production of sheet metal parts we use laser cut machines, stamping machines, pressbrakes, welding and powder painting. Our production is supported of our development department, testing department, jigs production department and also modernly equipped control laboratory. Casting for our products we produce in our foundry which is situated close our factory.

ZVU POTEZ a.s.



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Production, technological and qualification possibilities of the company predestine the orientation of ZVU POTEZ a.s. for energetic line too – mainly nuclear energetics.

Deliveries of boilers, heat exchangers, condensers, pressure vessels and pressure-less ones, vessel's shells, filters, centrifuges and mixers are directed to Clients in the field of energetics, nuclear energetics and uranium industry.

These are directed to the processes of condensation, recovery and storage service Media, including storage of spent nuclear fuel now.

On the field of energetic equipment ZVU POTEZ a.s. also offers smoke-flues, mills, fly ash elevating conveyers, absorbers for thermal power stations and in the frame of environment program than completing parts and complete of wind power plants.

All Clients' requirements are used during equipment design and calculations.

It concerns of single-purpose and large scale production products made of carbon and stainless steel, varied alloys, especially from titanium.

All technical parameters, but also for example surface treatment, meet requirements imposed on the equipment for energetics.

The portfolio of customers is extended from inland, Russia, Slovakia, Turkey and Germany further across South-East Asia, America, Africa and other European countries.