

# Appendix E

## Participants

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Participants in Armenia .....	E.1
Participants in Ukraine .....	E.2
Participants in Russia .....	E.3
Participants in Bulgaria, the Czech Republic, Kazakhstan, Hungary, Lithuania, and Slovakia .....	E.5
Contractors in Host Countries and Europe .....	E.8
International Participants .....	E.13
U.S. Contractors and Commercial Firms .....	E.14
Additional Participants in the United States .....	E.23

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## Participants in Armenia

### Nuclear Power Plant

Armenia Nuclear Power Plant  
Souren Azatian, Plant Manager  
Armavir-6  
377766, Armenia

Government Agencies	
Ministry of Energy	Ministry responsible for Armenia nuclear power plant
Armenian Nuclear Regulatory Authority	Armenia's nuclear regulatory body, formed in 1994

## Participants in Ukraine

### Nuclear Power Plants

Chornobyl Nuclear Power Plant  
Vitaliy Tolstonogov, Director General  
Kyiv Region  
255620, Slavutych, Ukraine

Khmelnyskyy Nuclear Power Plant  
Khmelnyskyy Region  
281093, Neteshin, Ukraine

Rivne Nuclear Power Plant  
Volodymyr Korovkin, Director General  
Rivne Region  
265921, Kuznetsovsk, Ukraine

South Ukraine Nuclear Power Plant  
Leonid Korchagin, Director General  
Mykolaiv Region  
329550, Yuzhnoukrainsk, Ukraine

Zaporizhzhya Nuclear Power Plant  
Danko Biley, Director General  
Zaporizhzhya Region  
332608, Energodar, Ukraine

Government Agencies	
National Nuclear Generating Company Energoatom vul. Arsenalna 9/11 Kyiv, 252011, Ukraine	Responsible for nuclear power operations
Ministry for Environmental Protection and Nuclear Safety of Ukraine vul. Khreshchatyk 5 Kyiv, 252601, Ukraine	Implementation of the state policy for environmental protection, effective use and rehabilitation of natural resources, protection of the population and environment against the negative impact of human activity by monitoring environmental, nuclear, and radioactive safety
Nuclear Regulatory Administration Ministry for Environmental Protection and Nuclear Safety vul. Observatorna 11/1 Kyiv, 254053, Ukraine	Ukrainian nuclear regulatory authority

Scientific Institutes	
Crimea Scientific and Engineering Institute P.O. Box 3 Shelkino, Leninsky Raion Crimea, Ukraine	Provides technical support to reactor safety enhancement projects at Ukrainian nuclear power plants
International Chornobyl Center for Nuclear Safety, Radioactive Waste and Radioecology 26 Lesya Ukrainka Blvd. Kyiv, 252133, Ukraine  Slavutych Laboratory for International Research and Technology vul. Gvardiyskoi Dyvizii 7/1 Slavutych, 255190, Ukraine	Research center and technical support organization for nuclear safety and decommissioning activities for Chornobyl NPP and the Chornobyl Shelter

Scientific Institutes in Ukraine ( <i>cont'd</i> )	
Nuclear Power Plant Operations Support Institute vul. Radgospna 35-37 Kyiv, 252142, Ukraine	Established in 1997 to support the National Nuclear Generating Company Energoatom by coordinating Energoatom's general scientific and technical policy and providing engineering expertise to Ukraine's nuclear power plants. The NPP OSI also is helping to develop an infrastructure for sustained scientific, technical, and engineering support to Ukraine's nuclear industry operating enterprises
Science and Technology Center of Ukraine Laboratoryj Provulok 3 Kyiv, 252133, Ukraine	International center provides opportunities for scientists and engineers in former Soviet countries with knowledge and/or skills involving missile delivery systems and weapons of mass destruction to redirect their talents to peaceful activities
State Scientific and Technical Center for Nuclear and Radiation Safety 17 Kharkovskoye Shosse Kyiv, 253090, Ukraine	Scientific support for nuclear power plant licensing and regulation: core processes simulation, thermo-hydraulic calculations and PSA, material science, radiation monitoring, design safety evaluation, etc.
State Scientific and Technical Center for Control Systems and Emergency Response Systems vul. Arsenalna 9/11 Kyiv, 252011, Ukraine	Scientific support for nuclear power plant operations

## Participants in Russia

### Nuclear Power Plants

Balakovo Nuclear Power Plant  
Pavel L. Ipatov, Plant Manager  
Saratov Region  
413800, Balakovo 26, Russia

Beloyarsk Nuclear Power Plant  
Oleg Saraev, Plant Manager  
Sverdlovsk Region  
624051, Zarechny, Russia

Bilibino Nuclear Power Plant  
Valentin F. Zazhivnov, Director  
Magadan Region  
686510, Chukotka, Russia

Kalinin Nuclear Power Plant  
Stanislav I. Antipov, Director  
Tver Region  
171850, Udomyla, Russia

Kola Nuclear Power Plant  
Yuri V. Kolomtsev, Director  
Murmansk Region  
184151, Polyarnye Zori, Russia

Kursk Nuclear Power Plant  
Yury I. Slepokon, Plant Manager  
Kursk Region  
307239, Kurchatov, Russia

Leningrad Nuclear Power Plant  
Valery Lebedev, Director  
St. Petersburg Region  
188537, Sosnovy Bor, Russia

Novovoronezh Nuclear Power Plant  
Vyacheslav A. Vikin, Director  
Voronezh Region  
396072, Novovoronezh, Russia

Smolensk Nuclear Power Plant  
Sergey P. Krylov, Director  
Smolensk Region  
216532, Desnogorsk, Russia

Government Agencies	
Gosatomnadzor (GAN) 34 Taganskaya Street Moscow, 109147, Russia	Russian organization responsible for regulating the safety of nuclear reactors and fuel cycle enterprises
Ministry of Atomic Energy of the Russian Federation (Minatom) 24/26 B. Ordynka Moscow, 101000, Russia	Russian organization responsible for developing nuclear reactors and for fuel cycle enterprises
Rosenergoatom (REA) 101000 P.B. 911 Concern Rosenergoatom Moscow, Russia	A business sector of Minatom responsible for all nuclear power plant operations except the Leningrad nuclear power plant

Scientific Institutes	
All-Russian Planning and Design, Research and Technological Association (VNIPIET) 82 Savushkin St. Petersburg, 197228, Russia	State enterprise involved in nuclear power engineering, nuclear fuel cycle decommissioning, nuclear waste management
Atomenergoproekt Bakuninskaya 7, Build 1 Moscow, 107815, Russia	VVER and RBMK nuclear facility architect/engineer responsible for the balance-of-plant design (non-nuclear portion of plant)

Scientific Institutes in Russia ( <i>cont'd</i> )	
Research and Development Institute of Power Engineering (RDIPE) P.O. Box 788 Moscow, 101000, Russia	Main designer of RBMK reactors
Gidropress 21 Ordzhonikidze Street Moscow, 142103, Russia	Design institute responsible for VVER reactor design, steam generator design and manufacturing, and thermal-hydraulic code development and testing
Nuclear Safety Institute (IBRAE) Russian Academy of Sciences 52 Bolshaya Tuskaya Moscow, 113191, Russia	Independent organization specializing in the development of computer analysis methods for nuclear safety
Kurchatov Institute RRC Kurchatov Square 1 Moscow, 123182, Russia	Russian scientific center that designs power reactors, research reactors, nuclear fuel, fuel cycle facilities, space nuclear reactors; conducts economic and policy studies, metallurgical research, fusion research
Russian Institute for Nuclear Power Plant Operations (VNIIAES) Ferganskaya 25 Moscow, 109507, Russia	Assists in nuclear power plant startup, operations, and training; manufactures full-scope and analytical simulators
Khlopin Radium Institute 2-nd Murinsky prosp., 28 St. Petersburg, 194021, Russia	Research institute in the areas of nuclear fuel cycle, reprocessing technology for spent nuclear fuel and radwaste, waste burial, radioecology, and radiochemistry
All-Russian Institute of Fire Protection (VNIIPO) Balashiha 6 Moscow, 143900, Russia	Russian agency responsible for fire safety standards, testing, and certification
International Science and Technology Center Luganskaya Street 9 Moscow, 115516, Russia	International center provides opportunities for scientists and engineers in former Soviet countries with knowledge and/or skills involving missile delivery systems and weapons of mass destruction to redirect their talents to peaceful activities
Atominform P.O. Box 971 Moscow, 127434, Russia	Division of Minatom responsible for scientific and technical information; also serves as Russia's national center for the International Atomic Energy Agency's International Nuclear Information System (INIS)
NIKIET P.O. Box 788 Moscow, 101000, Russia	Responsible for RBMK analysis and computer code methodology
Elektrogorsk Research Center for Nuclear Power Plants Safety ul. Bezymyannaya, 6 Moscow Region Elektrogorsk, 142530, Russia	Responsible for research, development, and manufacture of remote and robotic systems for NPP maintenance and servicing

## Participants in Bulgaria

### Nuclear Power Plant

Kozloduy Nuclear Power Plant  
Ivan Ivanov, Plant Manager  
Kozloduy 3321, Bulgaria

Government Agencies	
Committee on the Use of Atomic Energy for Peaceful Purposes	Bulgarian nuclear regulatory authority
Committee of Energy	Responsible for all energy-related matters in Bulgaria
National Electric Company	Owner and operator of all Bulgarian electrical generation, transmission, and distribution equipment
Scientific Institute	
Institute for Nuclear Research and Nuclear Energy	Nuclear research and development; safety analysis work for Bulgarian reactors

## Participants in the Czech Republic

### Nuclear Power Plant

Dukovany Nuclear Power Plant  
Jiri Vagner, Plant Manager  
675 50 Dukovany, Czech Republic

Government Agencies	
State Office of Nuclear Safety	Czech nuclear regulatory authority
Ministry of Industry and Trade, Section for Nuclear Area Administration	Responsible for nuclear power plants and fuel cycle
Scientific Institute	
Nuclear Research Institute Rez, plc	Nuclear research and development; operator of research reactor

## Participants in Hungary

### Nuclear Power Plant

Paks Nuclear Power Plant  
 Emo Petz, Plant Manager  
 P.O. Box 71  
 H-7031 Paks, Hungary

Government Agencies	
National Committee for Technological Development	Ministerial-level organization with responsibility for nuclear power development and policy
Hungary Atomic Energy Commission	Hungarian nuclear regulatory authority
Hungarian Power Company	Hungarian national utility, owner and operator of Paks nuclear power plant

Scientific Institute	
Institute for Electric Power Research (VEIKI)	Nuclear power research and development

## Participants in Kazakhstan

### Nuclear Power Plant

Aktau Nuclear Power Plant  
 Vyacheslav L. Levin, Plant Manager  
 Aktau, Mangyshlak, Kazakhstan

Government Agency	
Kazakh State Atomic Power Engineering and Industry Corporation	Utility responsible for nuclear power plant operations



## Participants in Lithuania

### Nuclear Power Plant

Ignalina Nuclear Power Plant  
 Viktor N. Shevaldin, Plant Manager  
 4761 Visaginas, Lithuania

Government Agencies	
Lithuanian Nuclear Power Safety Inspectorate (VATESI)	Lithuanian nuclear regulatory authority
Ministry of Economy, Republic of Lithuania	Responsible for nuclear power
Scientific Institute	
Lithuanian Energy Institute, Ignalina Safety Analysis Group	Responsible for safety analyses for Ignalina nuclear power plant
Kaunas Technical University	

## Participants in Slovakia

### Nuclear Power Plant

Bohunice Nuclear Power Plant  
 Ladislav Rataj, Plant Manager  
 91931 Jaslovske Bohunice, Slovakia

Government Agency	
Nuclear Regulatory Authority	Slovakian nuclear regulatory organization
Scientific Institute	
Nuclear Power Plant Research Institute (VUJE)	Nuclear research and development analysis; training at Trnava

## Contractors in Host Countries and Europe

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Organization	Services/Materials	Contact Name and Address
American Eagle	Computer equipment	Technology 2001 Odessa, Ukraine
AmeriData Global Ges m.b.H.	Computer equipment	Leopold Kojeder Banichgasse 40-42, A-130 Wien Vienna, Austria 20151
ARDES Information Technologies	Camera, computer equipment, and supplies for the Kozloduy configuration management project	Ivan Batanov 4 Janko Sakazov Boulevard Sofia, 1000, Bulgaria
Association of Computer Technology & Information Systems	Technical services	Yuri E. Gorlinsky Kurchatov Square Moscow, 123182, Russia
Atomservice	Technical support, Chornobyl Shelter criticality monitoring system	Mikhail Zolotukhin 38/2 Belgorodsky Kyiv, 255190, Ukraine
Barrow Hepburn Sala	Industrial safety equipment for Chornobyl Shelter	Jayne Boyer Old Mill Road Portsmouth, Bristol BS20 9BX, England
Chornobyl Union International	Logistical support to reactor safety enhancement projects at Ukrainian nuclear power plants	Volodymer F. Shovkoshytny Chornobyl Union International Lesi Ukrainky pl. 1 #312 Kyiv, 252196, Ukraine
Computer Science & Information Center	Training Russia reliability database project	Pavel Pupyrev Prechistinka Street 4D Moscow, 119034, Russia
Control Data	Computer equipment	Krasnopresnenskaya Nab 12 Office 1704A Moscow, 123610, Russia
Crimea Scientific and Engineering Institute	Technical support to reactor safety enhancement projects at Ukrainian nuclear power plants	Viktor Tysrenov Crimea Scientific and Engineering Institute P.O. Box 3 Shelkino, Leninsky Raion Crimea, Ukraine
Diaprom	Technical assistance in support of in-service inspections of RBMK reactors	Dmitri Gutsev Ferganskaya 25 Moscow, 109507, Russia

Contractors in Host Countries and Europe (*cont'd*)

Organization	Services/Materials	Contact Name and Address
Division of Atomic Energy Problems, Institute for Nuclear Research	Technical assistance to projects in RBMK reactor safety and radiological emergency preparedness	Dr. Victor Gavrilyk, Director National Academy of Science of Ukraine 47 Kyiv-28 Kyiv, 252028, Ukraine
Electrosentronaladka	Fire detection system for Smolensk	Vladlen Arkhipov B.2, 16 Berezhkovskaya Moscow, 121869, Russia
ELMAR Trade	Air-conditioning system, printer supplies, electrical cable ductwork for Novovoronezh nuclear power plant training center	Igor Raikhel Tsyurupi Street 10 Veronezh, 39400, Russia
Energoatom	Development of national industry quality assurance standard for Ukraine nuclear power plants	Mykola Dudchenko 9/11 Arsenalna St. Kyiv, 253090, Ukraine
Energopool	Technical assistance and support to RBMK reactor safety enhancement projects	Boris A. Gabaraev, c/o ENTEK Research and Development Institute of Power Engineering ul. Malaya Krasnoselskaya 2/8 Moscow, 101000, Russia
Energoproekt	Emergency operating instruction analysis for Kozloduy	Emilian Popov 51, James Boucher Blvd. Sofia, 1407, Bulgaria
Energorisk, Ltd.	Technical support	Grigory Gromov vul. Radgospna 35-37 Room 707 Kyiv, 252142, Ukraine
Engineering and Technical Center for the Training of Nuclear Industry Personnel	Technical support services, simulators	Vitaliy Tchuprina Prospekt Chervonykh Kozakiv 23 Kyiv, 253655, Ukraine
FIMA	Audio-video system for the Ignalina training technology transfer project	G. Treideris Gostauto 11-1A Vilnius, 2600, Lithuania
General Energy Technologies (GET)	Hardware and electrical equipment used for training simulators	Dr. Alex Kroshilin General Energy Technologies c/o VNIIAES Ferganskaya 25 Moscow, 109507, Russia
Hilti	Concrete drills and saws for Chornobyl Shelter	Peter Stracar FL-9494 Schaan Furstentum, Liechtensein

Contractors in Host Countries and Europe (*cont'd*)

Organization	Services/Materials	Contact Name and Address
Honeywell International	Custom-made computers	Dane McSpedon P.O. Box 85F Lappeenranta, Finland 53501
Hopkinsons, Ltd.	Mainsteam isolation valves for the Armenia nuclear power plant	Steven Brooke P.O. Box B27 Huddersfield, England HD2 2UR
INETEC	Steam generator examination equipment	Doska Corak Kotvraska 51 10000 Zagreb, Croatia
Information and Technologies	Technical support, Ukraine reliability database	Yakov Barsuk vul. Tereshchenkivska 3, #53, 54 Kyiv, 252004, Ukraine
Institute of Nuclear Reactors and Nuclear Energy	Technical services	Pavlin P. Groudev Bulgaria Academy of Science Tzarigradsko shaussee 72 Sofia, 1784, Bulgaria
Institute of Physics and Power Engineering (IPPE)	Management and support services for international forum on nuclear power plant safety assessments	Gennady Pshakin Institute of Physics and Power Engineering Bondarenko Square 1 Obninsk, 249020, Russia
Interatom	Technical support, Kursk Unit 1 in-depth safety assessment	Anatoly Kirichenko Kitaigorodsky pr., 7 Moscow, 103074, Russia
Joint-Stock Enterprise Ltd. – EIS	Technical services, Zaporizhzhya Unit 5 in-depth safety assessment	Yaroslav Ovsienko or Nikolai Shikinov Zaporizhzhya, 332608, Ukraine
KFKI Atomic Energy Research Institute	Technical assistance in nuclear power plant operation and safety, environmental restoration, training, technical exchange facilitation	Dr. Janos Gado, Director H-15-25 Budapest 114 Hungary
KHATE	Technical services, Khmelnytsky simulators	Michail B. Chernousov P.O. Box 362 Khmelnytsky Region Neteshin, 281093, Ukraine
Kyiv Energoproekt	Technical services	Mitcho Golemehev 135 Peremoga Avenue Kyiv, 252135, Ukraine

Contractors in Host Countries and Europe (*cont'd*)

Organization	Services/Materials	Contact Name and Address
Kyiv National Taras Shevchenko University	Technical/training support services	I. Kadenko vul. Volodymyrkaya 64 Kyiv, 252033, Ukraine
Lithuanian Energy Institute	Technical support, VVER reactor safety projects	Prof. Jurgis Vilemas, Director 3 Aukstadvaio 3035 Kaunas, Lithuania
Mega Service Centre	Computer equipment	Mykola Mykolaiovych Yaroshchuk, General Director Prospekt Peremohy 43/12 Kyiv, 252011, Ukraine
MicroAge Phargo Technika	Computer equipment for Russian nuclear power plants	Andrey Lobyntsev Leningradsky Prospekt, 53 Moscow, 125468, Russia
Microinform Training Center	Educational courses and training Russia reliability database project	Natalia Anissimova 44 M Ordynka St. Moscow, 113184, Russia
MOHT OTJIG RM, Ltd.	Analysis support for development of emergency operating instructions for nuclear power plants with VVER reactors	Leonid Sapojnikov, Director General 5, b.4, Potapovsky per. Moscow, 101000, Russia
Multi Trade	Industrial safety equipment for Chernobyl Shelter	Stanislav Petrasek Muchovo nam.1 851 01 Bratislava, Slovakia
Novator-Kiev Limited	Technical services	Andrey Rodionov Kyiv-211 P.O. Box 820/5 Kyiv, 254211, Ukraine
Nuclear Power Plant Operations Support Institute	Technical support, Ukraine quality assurance project	Gennadiy Grynchenko vul. Radgospna, 35/37 Kyiv, 252142, Ukraine
Nuclear Power Plant Research Institute (VUJE), TRNAVA	Technical assistance in nuclear power plant operation and safety, environmental restoration, training, technical exchange facilitation	Peter Liska Okruzna 5 91864 Trnava, Slovakia
Nuclear Research Institute Řež, plc	Analysis support for development of emergency operating instructions for nuclear power plants with VVER reactors	Dr. Fraňtisek Pazdera, Director General Nuclear Research Institute Řež, plc 250 68 Řež, Czech Republic

Contractors in Host Countries and Europe (*cont'd*)

Organization	Services/Materials	Contact Name and Address
Nuclear Safety Institute (IBRAE)	Technical assistance in nuclear power plant operation and safety, environmental restoration, and training	Prof. Leonid A. Bolshov (IBRAE) Russian Academy of Sciences 52 Bolshaya Tulkaya St. Moscow, 113191, Russia
Power Diagnostix Instruments, GmbH	Electrical fault predictive diagnostic systems for RBMK plants	Detlev Gross Wiesenstrasse 7-13-52064 Aachen, Germany
Radiation Protection Institute	Technical support for the Chernobyl Shelter dosimetry	Professor Likhtarov 53 Melnikova Kyiv, 253050, Ukraine
Risk Engineering LTD	Nuclear power plant probabilistic risk assessments, safety analyses, and engineering services	Anton Boiadjiev 34, Totleben Boulevard Sofia, 1606, Bulgaria
Royal Institute of Technology	Technical support services	Bal Raj Schgal Drotting Kristinas VAG 33A Stockholm, 10044, Sweden
Russian Research Center, Kurchatov Institute	Technical assistance in nuclear reactor safety, environmental restoration, data analysis, and technology transfer	Dr. Vladimir Asmolov, Director Russian Research Center, Kurchatov Institute Kurchatov Square 1 Moscow, 123182, Russia
Scientific and Engineering Center for Nuclear and Radiation Safety	Probabilistic risk assessments for Soviet-designed reactors	Dr. Boris Gordon, Director Gosatomnadzor Avtozavodskaya Street 14/23 Moscow, 109280, Russia
Sevastopol Institute of Nuclear Energy & Industry	Technical services	Professor Robert Lukaushkin vul. Kurchatov Sevastopol, 335033, Ukraine
Specialized Language Company	English language training	Natalia Kosenko 7 Darnitsky Boulevard Apartment 173 Kyiv, Ukraine
State Scientific and Technical Center for Control and Emergency Response Systems	Technical services	Ludwig Litvinsky vul. Arsenalna 9/11 Kyiv, 252011, Ukraine

Contractors in Host Countries and Europe (*cont'd*)

Organization	Services/Materials	Contact Name and Address
State Scientific and Technical Center (Slavutych Branch)	Safety analyses and development of symptom-based emergency operating instructions for Chornobyl Unit 3	Victor M. Vasilchenko, Director vul. Radgospna, 35/37 Kyiv, 252142, Ukraine
TAI, Inc.	Provides engineering, management, and scientific services to Rivne nuclear power plant	Natalia Shama Vladimirskaya 89/91, #9 Kyiv, 252005, Ukraine
Technologies Applications, Inc.	Technical services	Nikolai Steinberg Staronavodnitskaya St. 8a apt. 40 P.O. 209 Kyiv, 252011, Ukraine
VALLEX FM Establishment	Computer equipment	Sergey Solakhyan Yerevan Office 13 Moskovian St. Yerevan Republic, Armenia
Ventura Information Technologies	Computer hardware for Kola	Sergey Kulakov Moscow Region Sofrino 36 Krasnokazarmennaya St 12 Moscow, Russia
VNIIAES	Development and implementation of emergency operating instructions for Ukrainian nuclear power plants with VVER reactors	Youri N. Filimontsev, Deputy Director-General Ferganskaya 25 Moscow, 109507, Russia
Westek LDT	Engineering services for RBMK safety parameter display systems	Mikhail Mikhailov P.O. Box 788 Moscow, 101000, Russia
WESTRON JV	Engineering, subassembly, and testing for VVER safety parameter display systems	Michael Chernyshov 1 Adad Proskura St. Kharkov, 310070, Ukraine
ZAO Atlas Copco	Air compressor for Chornobyl	Konstantin Mitin Tverskaya UL.22 A Moscow, 103050, Russia
ZAO Cerberus	Fire detection equipment	A. Türkgenc, Subsidiary Manager ZAO Cerberus U1 10 letia Oktia bria 11, bld. 1 Moscow, 119048, Russia

## International Participants

Company	Role	Contact
European Bank for Reconstruction and Development (EBRD)	Established in 1991 to foster the transition toward market-oriented economies and to promote private and entrepreneurial initiative in the central and eastern European countries committed to and applying the fundamental principles of multiparty democracy, pluralism, and market economics.	<a href="http://www.ebrd.com/">http://www.ebrd.com/</a>
European Union Program of Technical Assistance to the Commonwealth of Independent States (TACIS Program)	The TACIS Program is a European Union initiative that provides grant finance to foster the development of market economies and democratic societies in the New Independent States and Mongolia.	<a href="http://europa.eu.int/comm/dg1a/index.htm">http://europa.eu.int/comm/dg1a/index.htm</a>
International Atomic Energy Agency (IAEA)	Serves as the world's central intergovernmental forum for scientific and technical cooperation in the nuclear field, and as the international inspectorate for the application of nuclear safeguards and verification measures covering civilian nuclear programs. A specialized agency within the United Nations system, the IAEA was established in 1957. Today, a wide range of IAEA products, services, and programs incorporate the cooperative efforts and interests of the Agency's 127 member states.	<a href="http://www.iaea.or.at/worldatom/general/siteindex.html">http://www.iaea.or.at/worldatom/general/siteindex.html</a>
Nuclear Energy Agency of the Organization for Economic Cooperation and Development (OECD NEA)	Facilitates cooperation among its members in the use of nuclear energy for peaceful purposes. It evaluates scientific, technical, and economic issues of nuclear energy development; helps harmonize the legal framework; fosters cooperation on safety and regulatory requirements of existing and advanced-design reactors; and is helping former Soviet bloc countries make their reactors safer. Agency programs deal with the protection of the public and workers from radiation and with the disposal of nuclear waste. The agency also conducts activities to enhance public information.	<a href="http://www.oecd.org/ene/">http://www.oecd.org/ene/</a>
World Association of Nuclear Operators (WANO)	The mission of WANO is to maximize the safety and reliability of the operation of nuclear power plants by exchanging information and encouraging communication, comparison, and emulation among its members.	WANO Coordinating Center: Kings Bldg. 16 Smith Square London SW1P 3JG U.K.  WANO Regional Centers: Atlanta, Moscow, Paris, and Tokyo



## U.S. Contractors and Commercial Firms

The organizations listed here represent all U.S. companies who have participated, or who currently participate, in the U.S. effort to improve safety of Soviet-designed nuclear power plants.

Company	Services/Materials	Contact Name and Address
ABB-Combustion Engineering Nuclear Systems	Ultrasonic test equipment	Sten Caspersson 2000 Day Hill Road Windsor, CT 06095
ABBEON Cal, Inc.	Scanner for detecting rebar in concrete at Chernobyl Shelter	Jared Abbeon 123 Gray Avenue Santa Barbara, CA 93101
American Technologies, Inc.	Configuration management support for Kozloduy nuclear power plant	Ken Fenn 142 Fairbanks Road Oak Ridge, TN 37830
Amersham Life Sciences Inc.	Calibration system for Chernobyl Shelter	Michael Snyder 2636 So. Clearbrook Drive Arlington Heights, IL 60555
Anixter Corporation	Coaxial cable bundles and multiconductor cable bundles for Chernobyl Shelter neutron monitoring system	Jim King 21419 64th Avenue South Kent, WA 98032
Automatic System for Personnel Training	Training support, Ukrainian training technology transfer project	Vitaly Chuprina 3809 Clarks Lane Baltimore, MD 21215
Babcock & Wilcox	Technical support services	Gareth Quale P.O. Box 11165 Lynchburg, VA 24506-1165
Bechtel Hanford Incorporated	Technical support	Mark Morton 3350 George Washington Way Richland, WA 99352
Bechtel National, Inc.	Fire protection equipment and special studies	Mike Archdeacon 8180 Greensboro Drive, Suite 900 McLean, VA 22102-3823
Bicron	Automated thermoluminescent dosimetry system for Chernobyl Shelter	Terry Moore 6801 Cochran Road Solon, OH 44139
BNC Bolting	Ultrasonic bolt gauge system	Steve Barrett 33448 Dositia Drive Dana Point, CA 92629
J. Bradford Corporation	Fire hazards evaluation support	R. Brady Williamson 1052 Merced Street Berkeley, CA 94707

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
Burns & Roe Enterprises, Inc.	Technical support services	Ray Chuebon Bldg. 2, 3rd Floor 2237 Trinity Dr. Los Alamos, NM 07649
Canberra Nuclear Products	Multichannel analyzer equipment for Chernobyl Shelter neutron monitoring system	John Makar, Jr. 800 Research Parkway Meridan, CT 06450
Carboline	Fire-resistant coating for nuclear power plant interiors	Shirley Wolverson/Dan Schneider 350 Hanley Industrial Court St. Louis, MO 63144-1599
Cedar Mountain Supply	Pressurized ion chamber for Chernobyl Shelter	Jim Baker HC-12, Box 264 Coeur d'Alene, ID 83814
Ciel Consultants, Inc.	Chernobyl emergency operating instruction program development workshop	Michael Daus P.O. Box 1110 Rathdrum, ID 83858
Colandrea & Associates, Inc.	Quality assurance audit training for Ignalina nuclear power plant	Tom Colandrea 12988 Angosto Way San Diego, CA 92198
Columbia Energy & Environmental Services, Inc.	Technical support services	Dennis Brendel 1207 George Washington Way, Suite 22 Richland, WA 99352
Computational Systems, Inc.	Laser shaft alignment system	Marj Worley/Robert Skeirik 853 Innovation Drive Knoxville, TN 37932
Conger & Elsea Inc.	Training workshop/root cause analysis for Ukrainian nuclear power plants	Dorian Conger 9870 Highway 92, Suite 300 Woodstock, GA 30188
Container Products Corporation	Pressurized water decontamination system for Chernobyl Shelter	Jim Grantham 112 North College Road Wilmington, NC 28405
Data Telemark	Telecommunications equipment	Frank Piepiorra 8201 Greensboro Drive, Suite 1000 McLean, VA 22102
Davis NDE, Inc.	Training for nondestructive examination and maintenance in Ukraine	J. Mark Davis P.O. Box 769 Alabaster, AL 35007

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
Delphinus Engineering, Inc.	Decommissioning and decontamination project management system for Chernobyl Shelter	Roby Lentz 650 Baldwin Tower Eddystone, PA 19022
Digital Equipment Corporation	Computer server for Smolensk Training Center	Mike Moran P.O. Box 5115 Vacaville, CA 95696
Doble Engineering Company	Insulation analysis equipment for RBMK plants	Monte Ishige 85 Walnut Street Watertown, MA 02472
Duke Engineering & Services	Spent fuel dry cask storage system for Zaporizhzhya nuclear power plant	David Marcelli P.O. Box 1004 Charlotte, NC 28201
Eberline	Portable area monitor and detector for Chernobyl Shelter	Scott Lamb 504 Airport Road Santa Fe, NM 87504
EFCO USA, Inc.	Valve repair equipment	Bill Brown 1611 Telegraph Avenue, Suite 1600 Oakland, CA 94612
EG&G Ortec	Gamma spectroscopy system for Chernobyl Shelter	Amy Kennedy 100 Midland Road Oak Ridge, TN 37831
Energy Research Inc.	Technical support and training for the application of ADAM/VVER-440/213	Mohsen Khatib-Rahbar P.O. Box 2034 Rockville, MD 20852
Energy Systems Solutions, Inc.	Year 2000 information exchange meeting in Moscow, Russia	Jim Olson 271 Saddle Ridge Drive Knoxville, TN 37922
Engineering Planning and Management Inc.	Technical support, fire safety upgrades	Wade Larson 20 Speen Street Framingham, MA 01701
Exitech Corporation	Technical support, simulator projects	Rob Johnson 102 East Broadway Maryville, TN 37804
Factory Mutual Engineering & Research	Technical services, fire protection workshop for Gosatomnadzor	Keith Roemer P.O. Box 9102 Norwood, MA 02062
GC Micro	Audio and video equipment to digitize images, Chernobyl Shelter	Kevin Maynard 6100 Redwood Boulevard Novato, CA 94945

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
General Physics Corporation	Training support	Richard Kelly 1991 Centennial Avenue, Suite 100 Aiken, SC 29803
GeoLogistics Services, Inc.	Logistics management and international transportation services	Mitch Martin 205 South Whiting Street Alexandria, VA 22304
GSE Power Systems, Inc. (formerly S3 Technologies)	Simulator design and provision	Michael Mirensky/Robert Kerschner 9189 Red Branch Road Columbia, MD 21045
Halliburton NUS Corporation (acquired by Scientech in October 1996)	Technical/software support, including translation of computer programs into Cyrillic, and training	Darrell Eisenhut 910 Clopper Road Gaithersburg, MD 20878-1399
Hines GS Properties	Subpanel and electric subpanels for satellite dish installation in Slavutych, Ukraine	Tim Edwards 901 D Street SW Washington, DC 20024
Hooker Northwest Associates	Slide scanner for 35-mm positive or negative film for Chornobyl Shelter	Jim Scanner 12729 N.E. 20th, Suite 4 Bellevue, WA 98005
Hydrometrix Inc.	Radiation humidity sensor for Chornobyl Shelter	Ralph Fenner P.O. Box 2064 Alpine, CA 91903
Inspection, Research and Technology, Inc.	Ultrasonic inspection system	Ray Zickus 5 Congress Street Nashua, NH 03062
International Engraving Devices, Inc.	Plastic engraved label maker	Victor Wyman 67 E. Evelyn Avenue, Unit 2 Mountain View, CA 94041
International Executive Services Corps	Technical/training support services	Greg Brennan 333 Ludlow Street Stamford, CT 06902
International Management Development Corporation	Logistics management and transportation coordination	Ronald Davis 6 Maplewood Drive Bellport, NY 11713
JL Shepard & Associates	Calibration instruments for Chornobyl Shelter	J. L. Shepard 1010 Arroyo Avenue San Fernando, CA 91340

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
J&R Engineering Company, Inc.	Cask transporter for Zaporizhzhya spent fuel dry storage system	Richard Savignac P.O. Box 447 Mukwonago, WI 53149
Keeler & Long	Fire-resistant coating for nuclear power plant interiors	Kendall Smith/David Long P.O. Box 460 Watertown, CT 06795
Kraut Kramer Branson, Inc.	Manual ultrasonic inspection equipment	Tim Morrison 50 County Industrial Park Road Lewiston, PA 17044
LANCS Industries	Positive pressure containment for Chernobyl Shelter	Kevin Bylin 12704 NE 124 <sup>th</sup> Street, Suite 36 Kirkland, WA 98034
Liberty Technologies, Inc.	Diagnostic system for assessing motor-operated-valve operability; system demonstrated at Novovoronezh and Smolensk and proposed for installation at Armenia	Mark Pittman 2410 Charles City Road Richmond, VA 23231
Lighthouse Technology	Magneto-Optic Juke Box digital library for mass storage of images for Chernobyl Shelter	David Manriquez 5933 Sea Lion Place 104 Carlsbad, CA 92008
M&D Professional Services	Technical support, Chernobyl Shelter	Milon Meyer 1305 Mansfield, Suite 5 Richland, WA 99352
Machine Tech	Pipe lathes and tools	George Sandora 2988 East 24th Road Marseilles, IL 61341
Mechanical Maintenance Products, Inc.	Machinery/shaft alignment training	Jon Zatazelo 3025 Washington Road McMurray, PA 15317
Moore Medical Corporation	Mannequin for cardiopulmonary resuscitation	Debbie Chambers 389 John Downey Drive New Britain, CT 06050
Morrison-Knudsen Corporation	Construction management, technical support, Chernobyl replacement heat plant	William Rueb MK Ferguson Plaza 1500 West 3 <sup>rd</sup> Street Cleveland, OH 44113-1406
MP Frehat c/o Kalyna International Trading Company	Computer equipment	Yaroslav Kot 338 South Rholwing Road Palatine, IL 60067

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
N Wood Counter Laboratory, Inc.	Proportional counter for Chernobyl Shelter	Marjory Crawford P.O. Box 509 Chesterton, IN 46304
National Instruments	Instrument supplies for Chernobyl Shelter	Kelly Haskell 6504 Bridge Point Parkway Austin, TX 78730
Neil F. Lampson Inc.	Technical support, Chernobyl Shelter Project	Walt Trask P.O. Box 6510 Kennewick, WA 99336
Newark Electronics	230-v to 115-v step-down isolation transformer	Lisa Ackerman West 222 Mission 134 Spokane, WA 99201
NFS-Radiation Protection Systems, Inc.	Ventilation system for Chernobyl Shelter	Fred Lucci 10 Vista Drive Old Lyme, CT 06371
Nilfisk of America Inc.	Wet/dry vacuum for Chernobyl Shelter	Virginia Pierce 300 Technology Drive Malvern, PA 19355
Nuclear Maintenance Applications Center, Electric Power Research Institute	Training support	Vic Varma 1300 Harris Boulevard Charlotte, NC 28262
NUS Instruments	Safety-related instrument modules for process control, Ignalina nuclear power plant	Norman Main 440 West Broadway Idaho Falls, ID 83402
OMEGA Engineering, Inc.	Temperature humidity device	Donna Ragnor One Omega Drive P.O. Box 4047 Stanford, CT 06907
Orion/Atlantic	Satellite system for international communication	Mark Gilroy 2440 Research Boulevard, Suite 400 Rockville, MD 20850
PACE, Inc.	Soldering equipment	Jane Gazaway 9893 Brewers Court Laurel, MD 20707
Pacific CAD	Full-scale scanner for Chernobyl Shelter	Jason Qunell 621 West Mallon, Suite 700 Spokane, WA 99201

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
Panel Components Corporation	Power cord to convert from U.S. to European plug standards	Ralph Bright P.O. Box 115 Oskoloosa, IA 52577
Parsons Power Group, Inc.	Novovoronezh emergency water system	Ray Pearsall 2675 Morgantown Road Reading, PA 19607
Path Training Corporation	Training support	Paul Thurmond 13305 Pulver Place Darnestown, MD 20878
Paul C. Rizzo Associates Inc.	Technical support, Ukraine electrical capacity factor improvement	Paul Rizzo 105 Mall Boulevard, Suite 270-E Monroeville, PA 15146
PC Connection	Color and black-and-white laser printers for Chornobyl Shelter	Sean Aquilino P.O. Box 100 Milford, NH 03055
Precision Data Technology, Inc.	Neutron detector modules for Chornobyl Shelter	Larry Eceleston 601 40th Place Everett, WA 98201
Promatec	Sealant materials	Charles Spriggs P.O. Box 309 Cypress, TX 77410-0309
Rainier Photographic Supply	Photographic equipment for enlarging, developing, and setting color prints	Howard Boyd 8730 Rainier Avenue South Seattle, WA 98118
Raytheon Engineers & Constructors, Inc.	Direct-current power supply, architect-engineering support	Joe Costello 508 Carnegie Center Princeton, NJ 08540
RedZone Robotics, Inc.	Telerobotic structural diagnostic system for Chornobyl Shelter	Tim Denmeade 2425 Liberty Avenue Pittsburgh, PA 15222-4639
Reuter Stokes, Inc.	Fission chambers/counters for Chornobyl Shelter	David McCaughey Edison Park 499 Darrow Road Twinsburg, OH 44087
RJ Electronics	Radiation-hardened, down-hole camera equipment for Chornobyl Shelter	Roy Bennett 10656 Oak Drive S.E. Salem, OR 97306

U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
Science Applications International Corporation	Fire safety support, training support simulator equipment, and probabilistic risk assessment support	Paul Amico 5705 Industry Lane, Floor 2 Frederick, MD 21704
Sciencetech	Training support, probabilistic risk assessment support, other technical support services	Mike Stamatelatos 12707 High Bluff Drive, 2nd Floor San Diego, CA 92130
SGN Eurisys Services Corporation	Technical support for Chernobyl Shelter	Fred Reich P.O. Box 840 Richland, WA 99352
Sierra Nuclear Corporation	Dry cask storage system for Zaporizhzhya spent fuel	John McCarthy 1 Victor Square Scotts Valley, CA 95066
SKF Condition Monitoring	Vibration analysis systems for RBMK reactors	Roger Lamberson 4141 Ruffin Road San Diego, CA 92123
Snell Infrared	Thermography services/training for RBMK reactor sites	Jim Fritz 73 Main Street Montpelier, VT 05602
Sonalysts, Inc.	Training support for Balakovo nuclear power plant	Colin Carroll/Mike Stein P.O. Box 280 Waterford, CT 06385
Sony c/o Proline	Video recording and viewing equipment for Chernobyl Shelter	Tom Connor 1233 120th Avenue, N.E. Bellevue, WA 98005
Steady Systems	Video equipment and lighting equipment for Chernobyl Shelter	John Needham 1956 35th Avenue West Seattle, WA 98199
Steller Dynamics, Inc.	Scanner and associated supplies for digitizing slides and positive and negative film at Chernobyl Shelter	Liz Phillips 401 2nd Avenue South, Suite 501 Seattle, WA 98104
Stone & Webster Engineering Corporation	Configuration management support for Ignalina and Zaporizhzhya nuclear power plants	Edward Warman 245 Summer Street Boston, MA 02210
Taurus Telesis Inc.	Simulator technology support	Arvind Patel 804 Middle Ground Boulevard Newport News, VA 23606



U.S. Contractors and Commercial Firms (*cont'd*)

Company	Services/Materials	Contact Name and Address
Technical Resources International Inc.	Robotics development	Peter Shen 723 The Parkway, Suite 100 Richland, WA 99352
Technology Express	Computer imaging equipment for Chernobyl Shelter	Cyndi Wittman 11711 N. Creek Parkway, Suite 108 Bothell, WA 98011
Tektronix, Inc.	Oscilloscope and manual	Mary Lou Higger 14150 S.W. Karl Braun Drive Beaverton, OR 97077
TRI TOOL Inc.	Pipe lathe and tools	Debra McDade 3806 Security Park Drive Rancho Cordova, CA 95742
Victoreen, Inc.	Manufacture, installation, and initial calibration of high-level confinement radiation monitoring system, Kola Unit 2	William J. Bartlett, Jr. 6000 Cochran Road Solon, OH 44139
Viking Systems International	Technical support services	Jack Saluja 2070 William Pitt Way Pittsburgh, PA 15238
VIT c/o Needham Associates	Camera equipment for Chernobyl Shelter	John Needham 1956 35th Avenue West Seattle, WA 98199
Wagner Spray Tech Corporation	Spray system and hoses for Chernobyl Shelter	Terry Pederson 1770 Fernbrook Lane Minneapolis, MN 55440
Walter C. May Company, Inc.	Concrete drill and breaker for Chernobyl Shelter	Carl May 909 Hwy 2, Dover Hwy Sandpoint, ID 83864
Westinghouse Electric Corporation	Safety parameter display systems	George Madden/Lawrence Homer 1740 Golden Mile Highway Monroeville, PA 15146
Westinghouse Savannah River Company	Protective clothing and respirators for Chernobyl nuclear power plant	Heather Farrer P.O. Box A Aiken, SC 29802
XS International	Computer equipment for Rivne Unit 3 full-scope simulator	Rob Bone 1005 Alderman Drive Alpharetta, GA 30005
Zetec, Inc.	Eddy-current nondestructive examination systems	Fred Coffman P.O. Box 140 Issaquah, WA 98027-0140

## Additional Participants in the United States

### Nuclear Power Plants

Braidwood, Illinois  
 Brunswick, North Carolina  
 Byron, Illinois  
 Calloway, Missouri  
 Catawba, South Carolina  
 Clinton, Illinois  
 Comanche Peak, Texas  
 Duane Arnold, Iowa  
 Fitzpatrick, New York  
 Hatch, Georgia  
 Indian Point, New York  
 Millstone, New York  
 North Anna, Virginia  
 Oconee, South Carolina  
 Palo Verde, Arizona  
 Point Beach, Wisconsin  
 Shearon Harris, North Carolina  
 Three Mile Island, Pennsylvania  
 V.C. Summer, South Carolina  
 Vermont Yankee, Vermont  
 Vogtle, Georgia  
 Washington Public Power Supply System Project Unit 2,  
 Washington  
 Watts Bar, Tennessee  
 Wolf Creek, Kansas  
 Zion, Illinois

### Government Agencies

Defense Nuclear Agency  
 U.S. Agency for International Development  
 U.S. Department of Energy  
 U.S. Department of State  
 U.S. Nuclear Regulatory Commission

### Scientific Institutes, National Laboratories, and Universities

Argonne National Laboratory  
 Battelle Columbus  
 Battelle Frankfurt  
 Battelle Seattle Research Center  
 Brookhaven National Laboratory  
 Electric Power Research Institute  
 Idaho National Engineering and  
 Environmental Laboratory  
 Institute for Nuclear Power Operations  
 Lawrence Livermore National Laboratory  
 Nuclear Energy Institute  
 Oak Ridge National Laboratory  
 Pacific Northwest National Laboratory  
 Sandia National Laboratories  
 University of Maryland  
 University of Tennessee