

# Appendix G

Information Resources

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Detailed information is available in print and on the Internet regarding the U.S. Department of Energy's cooperative work in Armenia, Ukraine, Russia, Bulgaria, the Czech Republic, Hungary, Lithuania, Slovakia, and Kazakhstan. The information describes efforts to install safety equipment, improve operating procedures, establish training centers, and address the extraordinary problems at Chornobyl.

## Resource Center

The Resource Center at the Pacific Northwest National Laboratory in Richland, Washington, is the central source for printed information. Its collection holds major reports on the cooperative safety work, including the following:

- ◆ The annual, comprehensive *Status Report* describes major activities and key accomplishments since 1992. The report also provides information on reactor types, risks, and the need for international collaboration to improve safety. The *Status Report* is available in English and Russian.
- ◆ *Cooperation to Improve the Safety of Soviet-Designed Nuclear Power Plants* is a brochure describing the need for international collaboration and the benefits, objectives, and key accomplishments of U.S. efforts.

These documents may be obtained from the Resource Center by contacting Nancy Jackson, Pacific Northwest National Laboratory, at 509-372-4679 or by e-mail: [nancy.jackson@pnl.gov](mailto:nancy.jackson@pnl.gov).

The Resource Center stores a range of other documents related to safety work at Soviet-designed nuclear power plants. These include technical reports, books, and journals, as well as fact sheets on the technologies being transferred to Soviet-designed plants. Additional items are news articles from U.S., Russian, and international papers; schematics of Soviet-designed reactors; and maps showing reactor sites. The Resource Center also stores photographs showing the reactors, safety equipment, plant personnel, and the local communities, as well as videotapes, including a tour of the destroyed reactor at Chornobyl. For details, contact Nancy Jackson.

## Internet Site

Further information is readily available on the Internet at <http://insp.pnl.gov:2080>. The Internet site offers a variety of in-depth resources.

*Nuclear Safety in Ukraine and Russia* summarizes the technical concerns with Soviet reactor designs, the nations' dependence on nuclear energy despite current risks, and the socioeconomic issues that impede safety improvements. The report also details the need for international collaboration in addressing the risks and describes the response of the international community. The report can be found by opening the Internet site and clicking on the words "Reports and Publications."

The monthly *Activity Report* documents recent activities in the progress of U.S. safety projects. The report also lists meetings, workshops, and trips planned for two months ahead. Click on "Reports and Publications."

The *Chornobyl Report* provides a monthly update on Chornobyl support activities.

The on-line "*Resource Center*" is a search tool to locate items in the Resource Center at the Pacific Northwest National Laboratory.

The Internet site also provides the following resources:

- ◆ descriptions of projects and technologies
- ◆ a review of nuclear safety issues in each of the host countries
- ◆ photographs showing the reactors, safety equipment, plant personnel, their communities, and conditions inside the destroyed reactor at Chornobyl

- ◆ a bibliography of specific technical documents available by request from the Resource Center at the Pacific Northwest National Laboratory
- ◆ a list of participating organizations and contractors
- ◆ names and phone numbers of contact people in the United States and host countries
- ◆ links to Internet sites with related information, such as the home pages of the Nuclear Energy Agency, the Russian Academy of Sciences, and the International Nuclear Safety Center Database at Argonne National Laboratory.

In addition to the public-access information, the Internet site provides shared work-spaces for U.S. and contractor personnel assigned to the safety projects. These areas, which are password-protected, include database links and information on project equipment, commitments, and foreign travel.

The site is updated regularly by staff at the U.S. Department of Energy's Pacific Northwest National Laboratory.

## **International Nuclear Safety Center Database**

The U.S. Department of Energy has developed a database of international nuclear safety information at Argonne National Laboratory in Argonne, Illinois. The database provides

- ◆ an open, readily accessible information resource on the world's nuclear facilities, including nuclear power plants in the United States
- ◆ an electronic format for international collaborative safety research for the U.S. Department of Energy and its international research partners.

The database is accessible on the Internet at **<http://www.insc.anl.gov>**

This database contains six main sections:

- ◆ Reactor and Plant Information – an up-to-date list of the world's nuclear power plants along with basic information and operational status
- ◆ INSC Projects and Current Activities – descriptive paragraphs and links to specific examples
- ◆ Other Information Sources and Databases – a list of web sites with related information
- ◆ INSC Safety and Risk Analysis Library – collection of documents related to safety of Soviet-designed nuclear power plants available in the International Nuclear Safety Center (INSC) library – Copies of these documents may be obtained from the originating organizations.
- ◆ Reactor Material Properties – information intended to meet the needs of analysts using computer codes and doing experiments for safety evaluation of the world's commercial nuclear reactors – The focus is on the materials used in light water reactors, with initial emphasis on high-priority properties of materials unique to Soviet nuclear reactor designs and reactors in eastern Europe and developing countries.
- ◆ Audio-Visual Materials – links to audio-visual materials that can be downloaded and/or interactively viewed.