Chernobyl Bibliography

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SUMMARY

The purpose of the DOE/OHER Chernobyl Database project is to create and maintain an information system to provide usable information for research studies related to the Chernobyl nuclear accident. The system is the official United States repository for information about the Chernobyl accident and its consequences, and currently includes an extensive bibliography and diverse radiological measurements with supporting information. PNL has established two resources: original (not summarized) measurement data, currently about 80,000 measurements, with ancillary information; and about 2200 bibliographic citations, some including abstracts. Researchers can retrieve this information by dialing into a PNL microVAX and using on-line menus and forms, or by requesting information from project staff on magnetic media or in printed form.

Data and reference materials have been obtained from domestic and foreign organizations and individuals, and expansion of resources is an ongoing activity. As a result of the type of much information that is now being received, summarized data, a third resource will be added to the Chernobyl Database. We plan to investigate computerizing images of maps, graphs, plots, charts, and tables of summarized data, and include ancillary information about the image from source reports and publications.

Major organizations that have contributed radiological measurement data include the Washington State Department Of Social And Health Services; United States Environmental Protection Agency (domestic and foreign data); United States Nuclear Regulatory Commission; Stone & Webster; Brookhaven National Laboratory; Commissariat A L'energie Atomique in France; Ministry Of Agriculture, Fisheries, and Food in the United Kingdom; Japan National Institute of Radiological Sciences; and the Finnish Centre For Radiation and Nuclear Safety (STUK). Scientists in Australia, Austria, Belgium, Canada, China, Denmark, England, Federal Republic of Germany, Finland, France, Ireland, Italy, Japan, the Netherlands, Romania, Scotland, Spain, Sweden, Switzerland, United States, Wales, and Yugoslavia have made contributions.

Bibliographic materials have been obtained from scientists in the above countries that have replied to requests. Many other requests have been made. In addition, literature searches have been conducted, including a search of the DOE Energy Database. The last search was conducted in January, 1989.

Use of information contained in the system allows researchers to evaluate historical risk, transport, and deposition models previously developed based on data from laboratory experiments, theoretical calculations, computer simulations, and limited real data. It also allows a variety of other research activities. Ability to access reference materials is important to many of these. The following is the bibliographic information in the DOE/OHER Chernobyl Database at the current time.

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