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Nuclear Criticality Safety Experiments, Calculations, and Analyses—1958 to 1982

Compilation of Papers from the Transactions
of the American Nuclear Society

Volume 1: Lookup Tables

Brian L. Koponen and Viktor E. Hampel

Manuscript Date: October 21, 1982

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Foreword

There is intense public concern about the potential hazards in the operation of nuclear reactors and in the processing, transport, and storage of fissionable nuclear materials. This concern has resulted in enhancement of the already strong determination to maintain the extraordinary safety record of the nuclear industry.

Part of the responsibility in that regard resides in the Nuclear Facilities Safety Division of the Office of Nuclear Safety, which operates under the auspices of the Assistant Secretary for Environmental Protection, Safety, and Emergency Preparedness of the U.S. Department of Energy (DOE). We wish to acknowledge here the support of this branch of the DOE in our performance of the task that has culminated in this publication. In particular, we wish to acknowledge the assistance of Robert W. Barber, Acting Director of the Nuclear Facilities Safety Division, and Blake Brown of that division.

Their encouragement and programmatic support permits us to transfer nuclear criticality information and data, available until now primarily to the Lawrence Livermore National Laboratory, to the Technology Information System, where it will become available to the nuclear criticality community at large through interactive dial-up from computer terminals nationwide. Communication facilities already include commercial and federal telephone networks, toll-free WATS lines, the extensive ARPA computer network, and TYMNET.

The resulting Nuclear Criticality Information System (NCIS), in preparation since 1981, contains a growing number of resources pertinent to nuclear criticality safety: safety standards, quality assurance, bibliographic references to the topical literature, numeric data describing experiments, and means for effective communication among those charged to sustain the safe use of nuclear power and its expanded role in the future of our country.

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Nuclear Criticality Safety Experiments, Calculations, and Analyses – 1958 to 1982

Abstract

This compilation contains 688 complete summaries of papers on nuclear criticality safety as presented at meetings of the American Nuclear Society (ANS). The selected papers contain criticality parameters for fissile materials derived from experiments and calculations, as well as criticality safety analyses for fissile material processing, transport, and storage.

The compilation was developed as a component of the Nuclear Criticality Information System (NCIS) now under development at the Lawrence Livermore National Laboratory.

The compilation is presented in two volumes: **Volume 1** contains a directory to the ANS Transaction volume and page number where each summary was originally published, the author concordance, and the subject concordance derived from the keyphrases in titles. **Volume 2** contains—in chronological order—the full-text summaries, reproduced here by permission of the American Nuclear Society from their Transactions, volumes 1–41.

Introduction

The summaries on nuclear criticality safety experiments, calculations, and analyses presented herein were originally published in the proceedings of the semiannual meetings of the American Nuclear Society. They are reproduced here by permission of the ANS as a quick reference for those concerned with the nuclear criticality safety of fissile materials.

This compilation is one of a series of computer-generated publications released from the Nuclear Criticality Information System (NCIS)

at the Lawrence Livermore National Laboratory (LLNL).^{1–6} A previous publication contained references to 1067 reports involving nuclear criticality experiments.⁷ The information in both publications can be searched interactively from remote terminals by telephone dial-up, toll-free WATS lines, over the Advanced Research Projects Agency (ARPA) computer network, and over the international TYMNET. The Technology Information System (TIS) at LLNL operates the host computer for NCIS.^{8–12}

Contents of the Compilation

Papers in this compilation were selected from the view of a criticality safety specialist who needs accurate information and data to determine safe limits for processing, transporting, and storing fissile materials. Papers related directly to power

and research reactors have been omitted, as have those dealing with the determination of neutron reaction rates (i.e., cross sections and other physics parameters). Papers pertaining to calculational methods and results of criticality safety analyses

Table of ANS Transactions selected for compilation.

Volume	Year	Papers selected
1	1958	10
2	1959	13
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19	1974	19
20	1975	2
21	1975	6
22	1975	13
23	1976	14
24	1976	9
25	1976 Special meeting	0
26	1977	6
27	1977	31
28	1978	22
29	1978 Special meeting	0
30	1978	13
31	1979 Special meeting	13
32	1979	19
33	1979	17
34	1980	9
35	1980	20
36	1981 Special meeting	0
37	1981 Special meeting	0
38	1981	10
39	1981	43
40	1982 Special meeting	0
41	1982	25
42	1982	15 ^a

^a These papers had not been published at the time of this publication and are not included in the compilation.

are included. Some of the papers deal with criticality safety training, safety standards, quality assurance, and related administrative aspects of the national criticality safety programs.

The 688 papers describing work carried out by the international nuclear criticality safety community span more than two decades of work with fissile materials and have contributed to a safety record unmatched by any other industry. Although a total of 819 authors contributed to this body of knowledge, 32 specialists are credited with having published 347, or half, of all the papers, indicating that experimental work centers around a relatively small number of facilities. Some 550 authors have published only once. These statistics underscore the importance of organizing and disseminating nuclear criticality information to those responsible for the safety of others.

As calculational methods have improved in recent years, more than half of the critical experiment facilities have been closed. It is gratifying to note, however, that the number of nuclear safety publications has continued to rise (see figure).

Accurately measured and well reported criticality experiments represent a timeless and valuable reference. However, readers who want to establish the publication date of a particular summary can refer to the following table of ANS Transactions, which shows the year and number of publications selected for this compilation.

Other NCIS publications scheduled for release include a general bibliography to the nuclear criticality literature and an update to the previous

compilation on simple critical experiments. We also hope to release numeric data describing nuclear criticality safety experiments that may serve as benchmarks for calculations.

Corrections, comments, or additions to this compilation are welcomed. Address all communications to:

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How to Use the Compilation

This compilation is presented in two volumes to allow their convenient and independent use:

Volume 1, the directory, is organized in chronological and alphabetical order:

- Index to volume and page number of ANS Transactions.
- Author concordance.
- Author index.
- Subject concordance.
- Subject index.

The author and subject concordances list, respectively, in chronologically ascending order, the relevant publications associated with a particular author or a keyphrase taken from the titles to the publications. The volume and page numbers of

ANS Transactions shown in the concordances lead to the full-text papers reproduced in Volume 2.

The author and subject indexes are concise listings of all authors and keyphrases and refer to the page numbers of Volume 1 where the expanded concordance for the relevant publications is cited.

Volume 2 contains the full-text reprint of the selected nuclear criticality safety publications taken directly from the ANS Transactions. The top of each page bears the original volume and page number for each paper. The name of the session is indicated only before the first paper in the session. When more than one paper is reproduced on a page, more than one range of page numbers appears at the top of the page.

Creating the Compilation by Computer

Since 1968, we have been collecting contributions for a library of criticality safety documents at LLNL. This collection has been augmented by LLNL's Technical Information Department (TID) through selective searching and retrieval of pertinent reports from the literature. More recently, we have used the large, computer-based information system of the National Technical Information Service (NTIS) of the U.S. Department of Energy (DOE/RECON) to obtain citations to the literature pertinent to nuclear criticality safety. This search and retrieval pertains especially to RECON's Nuclear Science Abstracts (NSA) and to its Energy Data Base (DOE/EDB).

Originally, we used the MASTER CONTROL database management system to create the databases, to verify the text of the citations, and to search interactively.^{13,14} The system also permits direct correlation with the corresponding numeric data of criticality experiments and printing in a variety of different formats. Interactive search and retrieval with MASTER CONTROL provides LLNL staff with immediate and up-to-date insights about criticality experiments, or shows the results of relevant computer calculations. During the past 12 years, we developed a sophisticated set of postprocessing routines that take computer output generated by MASTER CONTROL and

format it, with a variety of fonts and type options, into camera-ready copy for printing.^{15,16} We used the high-resolution hardcopy cameras of the FR80 output devices, linked directly with LLNL computers,* to create earlier compilations of criticality safety papers. The use of MASTER CONTROL and OCTOPUS is limited to LLNL.

To make this valuable resource available to others, descriptive and numeric information and

data files are now being transferred from the OCTOPUS computer network to the TIS for interactive access and use nationwide by criticality safety personnel at other national laboratories and by special arrangement at universities and in industry.

* OCTOPUS network of four CRAYs and four CDC-7600s.

Acknowledgments

We gratefully acknowledge the assistance of the many experimenters and nuclear criticality safety personnel who encouraged us to proceed with this work. Of special note are DOE's Nuclear Facilities Safety Division, Office of Nuclear Safety, under whose auspices and sponsorship this work was carried out, and O. Clinton Kolar, head of the Criticality Safety Office at LLNL. Dr. Kolar has established the long-range planning and support required to make the unique resources of LLNL available to the criticality safety community at large. The creation and expansion of the online interactive NCIS, in particular, is due in part to his initiative.

We would also like to thank Richard K. Hunt of TID, who carried out the required support functions, Ginger Affolter and Carol Ann Foret of Staffbuilders, who contributed their expertise to the preparation of the camera-ready copies, and June A. Canada and Barry R. Smith of TID, who provided editorial guidance and had overall responsibility for the publication.

Our particular thanks go to Michael Diekman of the American Nuclear Society, who allowed us to reprint the selected papers on nuclear criticality safety as a concise and timely reference.

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