REACTOR SAFETY BIBLIOGRAPHY

Selected Unclassified References

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Engineering Development Branch
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AECU 3589 (Revised)

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This is a revision of the Reactor Safety Bibliography prepared for the Reactor Safety Conference which was held in New York City on October 31, 1957. The original listing received favorable comment as a valuable reference guide from a number of sources. Neither TID 3589 nor this revision is intended as an exhaustive review of the published material on reactor safety. It was prepared to help those in the nuclear industry in obtaining some of the more recent and relevant material. A longer annotated Reactor Safety Bibliography is in preparation at the Technical Information Services Extension, U. S. Atomic Energy Commission, Oak Ridge, Tennessee. This work is scheduled for release in the fall of 1958.

Most of the reports listed are available to the general public at A.E.C. Depository Libraries located in many large cities and at large universities in the United States. (A complete list of the Depository Libraries, both in the U. S. and abroad, may be found in Nuclear Science Abstracts.) The referenced reports are available for sale at the following addresses:

1. United States Reports:

Office of Technical Services
U. S. Department of Commerce
Washington 25, D. C.

2. Canadian Reports:

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Atomic Energy of Canada, Limited
Chalk River, Ontario, Canada

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Appendix F - Pressure Vessel and Thermal Shield Design.
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Appendix L - Design of Vessel Support Structure.
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28. PRESSURE VESSEL AND PIPING CODES APPLICABLE TO THE PWR REACTOR PLANT (WAPD-WPR-974). 1957.
29. NUCLEAR ENGINEERING & SCIENCE CONGRESS (Sponsored by the Engineers Joint Council in Chicago, 1958). The following preprints are available from the American Institute of Chemical Engineers, N. Y.:
- a. Design of EBR II Primary Tank Support Structure. Preprint 73. R. W. Seidensticker and S. N. Fistedis, ANL.
 - b. The Scope of Pressure Vessel Codes and Activities Toward Improved Content. Preprint No. 76. W. E. Cooper, KAPL.
 - c. Containment Vessel Design Basis for the Dresden Nuclear Power Station. Preprint 121. G. Sege, General Electric.
 - d. Advancing Nuclear Component Design by a Construction Code. Preprint 214. J. F. Harvey and R. M. Douglass, Babcock and Wilcox Company.
 - e. Design Aspects of Embedded Reactor Shells. Preprint 221. S. Fistedis and H. O. Monson, ANL.

HAZARDS SUMMARY REPORTS

Note: This is a representative listing of Hazards Summary Reports. Those reports marked with an asterisk (*) are available only at the Public Document Room, U. S. Atomic Energy Commission, 1717 "H" Street, N. W., Washington, D. C.

1. THE TOWER SHIELDING FACILITY SAFEGUARDS REPORT (ORNL-1550).
L. S. Abbott. June 1953.
2. A HAZARD SUMMARY FOR ROUTINE OPERATION OF THE BULK SHIELDING REACTOR AT ONE MEGAWATT (TID-10102). C. F. Maienschein.
December 1954.
3. HAZARD EVALUATION REPORT ON THE FAST REACTOR ZERO POWER EXPERIMENT ZPR III (ANL-FWT-105). R. O. Brittan, et al. April 1955.
(Declassified February 1957).
4. ARMY PACKAGE POWER REACTOR - DESCRIPTION AND SUPPLEMENT (AECD-3731).
Alco Products, Inc. October 1955. (Pressurized H₂O cooled and moderated, 20 MW Reactor).
- *5. FINAL HAZARDS SUMMARY REPORT TO THE ADVISORY COMMITTEE FOR REACTOR SAFEGUARDS ON A RESEARCH REACTOR FOR THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT-5007). (D₂O cooled and moderated, 1MW reactor).
- *6. HAZARDS SUMMARY REPORT FOR INDUSTRIAL LABORATORIES, INC. (AMF-GR-10-56). Nuclear Engineering Laboratory, American Machine and Foundry Company. June 1956. (Pool type, 5 MW).
7. ENGINEERING TEST REACTOR - ENGINEERING AND SAFEGUARDS REPORT (IDO-24020). Henry J. Kaiser and General Electric Company.
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- *8. NACA REACTOR FACILITY HAZARDS SUMMARY. Edited by T. M. Hallman and B. Lubarsky, NACA, Lewis Flight Propulsion Laboratory.
October 1956. (Five supplements on various phases of the reactor design have been prepared in addition to the main portion of the report).
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16. PWR HAZARDS SUMMARY REPORT (WAPD-SC-541). Bettis Plant,
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Supplements as follows (titles abbreviated):

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 - ZIRCONIUM-WATER REACTION (WAPD-SC-543). May 1957.
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 - HYDROGEN FLAMMABILITY (WAPD-SC-545). May 1957.
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 - SITE DESCRIPTION (WAPD-SC-547). June 1957.
 - HAZARDS TO SURROUNDING AREA (WAPD-SC-548). September 1957.
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- *17. YANKEE CRITICAL EXPERIMENTS HAZARDS SUMMARY REPORT. (YAEC-31).
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 - *18. THE GENERAL ELECTRIC DEVELOPMENTAL BOILING WATER REACTOR
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