

American Nuclear Society

design bases for facilities for LMFBR spent fuel storage
in liquid metal outside the primary coolant boundary

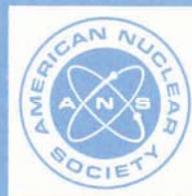
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**American National Standard
Design Bases for Facilities for LMFBR Spent Fuel Storage
in Liquid Metal Outside the Primary Coolant Boundary**

Secretariat
American Nuclear Society

Prepared by the
**American Nuclear Society
Standards Committee
Working Group ANS-54.2**

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Foreword

(This Foreword is not a part of American National Standard Design Bases for Facilities for LMFBR Spent Fuel Storage in Liquid Metal Outside the Primary Coolant Boundary, ANSI/ANS-54.2-1985.)

This standard provides minimum design requirements for the design of Liquid Metal Fast Breeder Reactor (LMFBR) Spent Fuel Storage Facilities, outside the primary coolant boundary, using liquid metal for decay heat transfer. It sets forth general guidelines and specific design parameters which, if used, could assist in design efforts. It does not, however, relieve the designer of the responsibility for compliance with specific construction codes referenced herein.

The guidance available for establishing radionuclide source terms from stored spent LMFBR fuel was limited at the time this standard was written. It is expected that as the industry matures information will become available which will enable more complete guidance to be provided. In the absence of such guidance the designer should use prudent engineering judgment. The designer is also reminded that U.S. Nuclear Regulatory Commission (NRC) regulatory guides exist which contain information that should be referred to in designing systems and components.

The standard was developed under sponsorship of the American Nuclear Society (ANS). This standard was developed by Working Group ANS-54.2 of the American Nuclear Society which had the participation of the following members during the period it prepared and approved the standard.

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