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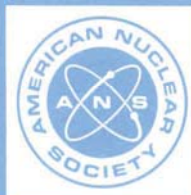
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**design criteria for consolidation
of LWR spent fuel**

an American National Standard

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**American National Standard
Design Criteria for Consolidation
of LWR spent fuel**

Secretariat
American Nuclear Society

Prepared by the
**American Nuclear Society
Standards Committee
Working Group ANS-57.10**

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American National Standard

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Foreword

(This Foreword is not a part of American National Standard Design Criteria for Consolidation of LWR Spent Fuel, ANSI/ANS-57.10-1987.)

This standard provides design criteria for the equipment and systems comprising the rod consolidation process for commercial light water reactor (LWR) spent fuel assemblies. The criteria are applicable to wet and dry, and horizontal and vertical consolidation concepts.

The standard does not include storage of the spent nuclear fuel either prior to performing consolidation or upon completion of the process. There is a section in the standard which identifies interface considerations of the process with the facility or installation in which consolidation will take place.

The rod consolidation process is intended to produce canisters filled with full length fuel rods that have been removed from spent nuclear fuel. The process removes those components that maintain rod spacing and, thereby, allow the individual fuel rods to be reconfigured into a close packed array. This will result in more efficient spent fuel management.

The standard is intended to be consistent with the requirements of the regulations in Title 10, "Energy," Code of Federal Regulation, Parts 50 "Domestic Licensing of Production and Utilization Facilities," and 72 "Licensing Requirements for the Storage of Spent Fuel in an Independent Spent Fuel Storage Installation (ISFSI)."

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