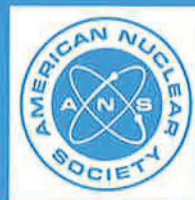


# American Nuclear Society

**containment system leakage  
testing requirements**

**an American National Standard**



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Testing Requirements**

Secretariat  
**American Nuclear Society**

Prepared by the  
**American Nuclear Society  
Standards Committee  
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# Foreword

(This foreword is not a part of American National Standard Containment System Leakage Testing Requirements, ANSI/ANS-56.8-1981.)

The American Nuclear Society sponsored a work group to review the American National Standard Leakage Rate Testing of Containment Structures for Nuclear Reactors, N45.4-1972 (ANS-7.60), and to provide a basis for determining leakage rates through containment systems.

In preparing the standard it was recognized that there have been many changes in testing procedures due to advancement in computer and instrument technology. By developing a standard to take advantage of these improvements, there could be a conflict with its applicability to existing facilities since many of these facilities were not designed to accept modification to their existing testing systems and procedures.

It is not the intent of this standard to require modifications to existing facilities (construction permit issued) in order to meet this standard's testing provisions. However, the standard may serve as a guide for the testing that can be performed in conformance with this standard.

The standard recommends the absolute method of leakage-rate measurements using the mass point analysis analytical technique.

The appendices furnish the formula derivations, alternate test procedures, data rejection criteria and instrument selection guide.

Working Group ANS-56.8 of the Standards Committee of the American Nuclear Society had the following membership at the time of its approval of this standard:

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The members of American Nuclear Society's Nuclear Power Plant Standards Committee (NUPPSCO) at the time of its approval of this standard were:

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