# **American Nuclear Society**

## WITHDRAWN

January 13, 2011 ANSI/ANS-19.6.1-2005 (W2011) reload startup physics tests for pressurized water reactors

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American National Standard Reload Startup Physics Tests for Pressurized Water Reactors

Secretariat
American Nuclear Society

Prepared by the American Nuclear Society Standards Committee Working Group ANS-19.6.1

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Approved November 29, 2005 by the American National Standards Institute, Inc.

#### American National Standard

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#### **Foreword**

(This Foreword is not a part of American National Standard "Reload Startup Physics Tests for Pressurized Water Reactors," ANSI/ANS-19.6.1-2005.)

It is the intent of this American National Standard to provide guidance for verifying the nuclear characteristics of a commercial pressurized water reactor core. This standard is intended to cover the physics tests that are performed following a refueling or other alteration of the reactor core for which nuclear design calculations are required. This standard provides the minimum acceptable startup physics test program; however, the standard recognizes that additional tests may be required by special design features for a particular core.

Compliance with the intent of this standard can be demonstrated by meeting the following requirements:

- (1) Perform the physics tests described herein using one or more of the acceptable test methods;
- (2) Determine if the test results agree with the predicted results within the previously established test criteria;
- (3) Document the above in accordance with the requirements of Section 7 of this standard.

Suggestions for the improvement of this standard are welcome. They should be sent to the American Nuclear Society, 555 North Kensington Avenue, La Grange Park, Illinois 60526.

Following is a summary of changes that were made to the 1997 version:

- (1) The differential boron worth test was removed from the minimum test program;
- (2) The dynamic rod worth measurement method was added to the acceptable list of test methods;
- (3) The rod symmetry measurement method was removed from the list of acceptable test methods;
- (4) Several clarifications and editing changes were made.

This standard was developed by Working Group ANS-19.6.1 of the American Nuclear Society, which had the active participation of the following members in preparing the current version:

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The membership of Subcommittee ANS-19 at the time of its review and approval of this standard was as follows:

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