American Nuclear Society

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fuel assembly identification

an American National Standard

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American National Standard
Fuel Assembly Identification

Secretariat
American Nuclear Society

Prepared by the
American Nuclear Society
Standards Committee
Working Group ANS-57.8

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American National Standard

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Foreword

(This Foreword is not a part of American National Standard Fuel Assembly Identification, ANSI/ANS-57.8-1978, Revision of N18.3-1972.)

This Standard describes a system for the unique identification of nuclear fuel assemblies. This uniqueness is provided by assigning each fuel assembly a fabricator or facility identification prefix and a serial number. Although the Standard was developed primarily for commercial light-water reactor fuel, it may be used for any reactor fuel contained in discrete fuel assemblies that can be identified with a serial number as specified by the Standard.

The Standard was originally developed to meet a need of the U.S. Atomic Energy Commission, now U.S. Nuclear Regulatory Commission, for its Safeguards Program. Reporting and record keeping are a necessary part of this Program. Because of the large volume of fuel needed to support commercial power reactors, a systematic method of fuel assembly identification is necessary to ensure that no two fuel assemblies manufactured in the United States have the same number; the reactor fuel can thus be accurately and expeditiously recorded. This Standard provides such an identification system.

The Standard was originally developed by the Fuel Assembly Identification Working Group of Subcommittee 13. Members of the Working Group were:

C. Sastre, Chairman, *Brookhaven National Laboratory*
G. C. Andognini, *Yankee Atomic Electric Company*
A. J. Anthony, *Combustion Engineering*
E. A. Bassler, *Westinghouse Electric Corporation*
R. R. Dlesk, *Commonwealth Edison Company*
L. F. Hardy, *General Electric Company*
D. Mars, *Babcock & Wilcox Company*
J. D. O'Toole, *United Nuclear Corporation*
P. D. Wright, *Gulf General Atomic*

A substantial contribution was made by A.A. Karkosza, past Chairman of the Working Group.

This Standard was originally prepared by Subcommittee 13 of the Standards Committee of the American Nuclear Society. At the time of approval, the membership of the Subcommittee was:

J. F. Mumm, Chairman, *Babcock & Wilcox Company*
G. C. Andognini, *Yankee Atomic Electric Company*
A. J. Anthony, *Combustion Engineering, Inc.*
E. A. Bassler, *Westinghouse Electric Corporation*
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J. M. Williams, *U.S. Atomic Energy Commission*
W. Willoughby II, *South Carolina Electric & Gas Company*
T. Wyke, *Duke Power Company*

The Standard was reviewed by Subcommittee ANS-50, the Power Reactor Systems Committee, in January 1978 to prepare the maintenance revision. It was designated ANS-57.8 at the time since ANS-13 had been incorporated into ANS-50 previously. The membership of ANS-50 at the time of its approval of the revision was:

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G. L. Wessman, *General Atomic Company*
J. E. Windhorst, *Southern Company Services*
F. C. Zapp, *Oak Ridge National Laboratory*

The American National Standards Committee N18, Nuclear Design Criteria, had the following membership at the time of its approval of the revision:

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