ANSI/ANS-57.8-2020

Fuel Assembly Identification

An American National Standard

Published by the
American Nuclear Society
555 N. Kensington Ave
La Grange Park, IL 60526

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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

Published by the
American Nuclear Society
555 North Kensington Avenue
La Grange Park, Illinois 60526 USA

Approved August 28, 2020
by the
American National Standards Institute, Inc.

American National Standard

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Published by

American Nuclear Society
555 North Kensington Avenue
La Grange Park, Illinois 60526 USA

Printed in the United States of America

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American Nuclear Society
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555 N. Kensington Avenue
La Grange Park, IL 60526

or standards@ans.org

Foreword

(This foreword does not contain any requirements of American National Standard "Fuel Assembly Identification," ANSI/ANS-57.8-2020, but is included for informational purposes.)

This standard describes a system for the unique identification of nuclear fuel assemblies. This uniqueness is achieved by the assignment of the following to each fuel assembly: (1) a fabricator or facility identification prefix and (2) a serial number. Although this standard was developed primarily for commercial light water reactor fuel, it may be used for any nonmobile reactor fuel contained in discrete fuel assemblies that can be identified with a serial number as specified by this standard.

This standard was originally developed to meet a need of the U.S. Atomic Energy Commission, now the U.S. Nuclear Regulatory Commission, for its Safeguards Program. Reporting and recordkeeping are necessary parts 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.

This standard does not incorporate the concepts of generating risk-informed insights, performance-based requirements, or a graded approach to quality assurance. The user is advised that one or more of these techniques could enhance the application of this standard.

This standard might reference documents and other standards that have been superseded or withdrawn at the time the standard is applied. A statement has been included in the references section that provides guidance on the use of references.

This standard was prepared by the ANS-57.8 Working Group of the American Nuclear Society. The following members contributed to this standard:

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