

American Nuclear Society

**medical certification and monitoring
of personnel requiring operator licenses
for nuclear power plants**

an American National Standard

REAFFIRMED

July 2, 2018

ANSI/ANS-3.4-2013 (R2018)

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**American National Standard
Medical Certification and Monitoring
of Personnel Requiring Operator
Licenses for Nuclear Power Plants**

Secretariat
American Nuclear Society

Prepared by the
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Working Group ANS-3.4**

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American National Standard

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Foreword

(This Foreword is not a part of American National Standard “Medical Certification and Monitoring of Personnel Requiring Operator Licenses for Nuclear Power Plants,” ANSI/ANS-3.4-2013.)

The organization that operates a nuclear power plant has responsibility for safe and reliable operation of the plant. Inherent in this overall function is the responsibility to select and retain operators and senior operators who are physically and mentally capable of such operations. The qualification of operators and senior operators is of great importance because they perform and direct manipulations of mechanisms and controls that affect the safe operation of a nuclear reactor. This standard defines and updates medical, mental health, and physical requirements for licensing of nuclear power plant reactor operators and senior operators. It also addresses the content, extent, methods of examination, and continual monitoring of licensed operators’ medical health.

This standard reflects available medical clinical knowledge with respect to certification and monitoring of personnel licensed to operate nuclear power plants. In addition, this revision provides clarification and comprehensive medical guidance to improve industry’s consistent implementation of the standard. This revision is a major rewrite. The major changes made as a result of the revision include the following:

- Specific minimum requirements, disqualifying conditions, conditional restrictions, examination methods, and monitoring methods are provided for each medical area;
- Nuclear industry operating experience and consideration of other industry medical standards are incorporated, including those of the U.S. Department of Transportation and Federal Aviation Administration;
- The medical criteria reflect progressions in medical science that include updated terminology, current medical practices, criteria for normality, and risk assessments.

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

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 revised standard was prepared by the ANS-3.4 Working Group and reviewed by Subcommittee ANS-21 and the American Nuclear Society Nuclear Facility Standards Committee (NFSC). At the time of the revision, the membership of the ANS-3.4 Working Group was the following:

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