



**THE NATIONAL BOARD
BODY OF KNOWLEDGE
FOR**

**AUTHORIZED NUCLEAR
INSPECTOR SUPERVISORS**

Approved by:  
Executive Director (date of approval)

*Denotes Revisions

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BODY OF KNOWLEDGE FOR

AUTHORIZED NUCLEAR INSPECTOR SUPERVISORS

The National Board has developed this Body of Knowledge to outline duties and responsibilities of supervisors of inspectors performing inspection during the construction phase of nuclear facility components built in accordance with the *ASME Boiler and Pressure Vessel Code*. This Body of Knowledge expands on the Body of Knowledge for the Authorized Nuclear Inspector.

OBJECTIVES

The Authorized Nuclear Inspector Supervisor should have knowledge, and the ability to apply that knowledge, of the following:

- Responsibilities and Duties of the Authorized Nuclear Inspector Supervisor (ANIS)
- Responsibilities and Duties of the Authorized Nuclear Inspector (N), Authorized Nuclear Inservice Inspector (I), and Authorized Nuclear Inspector—Concrete (C).
- Quality Assurance Programs
- Certificate Holder's Responsibilities
- Owner's Responsibilities
- ASME Review Process
- Auditing Techniques
- Radiation Health Physics

REFERENCE MATERIAL

The following reference material is required to obtain and apply the knowledge of the listed objectives in this Body of Knowledge.

- ASME Section III, Div. 1, 2, and 3, *Construction of Nuclear Facility Components*
- ASME Section V, *Nondestructive Examination*
- ASME Section IX, *Welding and Brazing Qualifications*
- ASME QAI-1, *Qualifications for Authorized Inspection*
- ASME NQA-1, Parts 1 and 3, *Quality Assurance Requirements for Nuclear Facility Application*
- *RCI-1, NB-263, *Rules for Commissioned Inspectors*

BODY OF KNOWLEDGE OUTLINE

This outline provides information regarding the listed objectives of this Body of Knowledge, and further describes the duties and responsibilities of the Authorized Nuclear Inspector Supervisor.

1. Responsibilities and Duties of the ANIS

Familiarity with NB-263, ASME QAI-1, and ASME Code Sections applicable to:

- Certificate Holder records and activities,
- Inspector records and assignments,
- Competency of Inspectors,

- Auditing Inspectors, and
 - Auditing Certificate Holders.
2. *Responsibilities and Duties of Authorized Nuclear Inspector (N, I, and C)*
Familiarity with NB-263, ASME QAI-1, and ASME Code Sections applicable to:
- Quality Assurance Program monitoring,
 - Welding and NDE Procedure verification,
 - Welder and NDE personnel qualifications, and
 - Compliance of fabrication processes
3. *Quality Assurance Program*
Understanding of the development and implementation of quality assurance programs as defined by ASME QAI-1, NQA-1, and other applicable ASME Codes.
4. *Certificate Holder's Responsibilities*
Familiarity with ASME Code requirements applicable to:
- Component Design
 - Materials
 - Fabrication
 - Inspection
 - Documentation
 - Interface with Authorized Nuclear Inspector
5. *Owner's Responsibilities*
Familiarity with ASME Code requirements applicable to:
- Classification of components
 - Design Specification
 - Design Output Documents
6. *ASME Review Process*
Familiarity with ASME Code requirements and procedures applicable to:
- Authorized Inspection Agency participation
 - Authorized Nuclear Inspector Supervisor responsibility
 - Authorized Nuclear Inspector responsibility
7. *Auditing Techniques*
Familiarity and understanding for the ASME QAI-1 and ASME Code requirements applicable to auditing inspectors and Certificate Holders.
8. *Radiation Health Physics*
Familiarity with ASME QAI-1 and ASME Code requirements applicable to the:
- Fundamentals of health physics, including film badge, dosimeters, and other radiation monitoring, and
 - System to record and limit radiation exposure of Inspectors.