



The American Society of
Mechanical Engineers

A N A M E R I C A N N A T I O N A L S T A N D A R D

CODE FOR OPERATION AND MAINTENANCE OF NUCLEAR POWER PLANTS

ASME OM CODE-2001
(Revision of ASME OM CODE-1998)

SUBSECTION ISTA General Requirements

ISTA-1000 INTRODUCTION

ISTA-1100 Scope

Section IST establishes the requirements for preservice and inservice testing and examination of certain components to assess their operational readiness in light-water reactor nuclear power plants. It identifies the components subject to test or examination, responsibilities, methods, intervals, parameters to be measured and evaluated, criteria for evaluating the results, corrective action, personnel qualification, and record keeping. These requirements apply to:

- (a) pumps and valves that are required to perform a specific function in shutting down a reactor to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident;
- (b) pressure relief devices that protect systems or portions of systems that perform one or more of these three functions; and
- (a) (c) dynamic restraints (snubbers) used in systems that perform one or more of these three functions, or to ensure the integrity of the reactor coolant pressure boundary.

ISTA-1200 Jurisdiction

The jurisdiction of Section IST covers individual components that have met all the requirements of the construction code commencing at the time when the construction code requirements have been met, irrespective of the physical location. When portions of systems or plants are completed at different times, the jurisdiction of this Section shall cover only those components on which all construction related to the components has been completed.

ISTA-1300 Application

- (01) **ISTA-1310 Components Subject to Testing and Examination.** Components identified in Section IST for testing or examination shall be included in the test plan (ISTA-3110). These components include

nuclear power plant items such as pumps, valves, and dynamic restraints (snubbers).

ISTA-1320 Classifications. Optional construction (01) of a component in a system boundary to a classification higher than the minimum class established in the component Design Specification (either upgrading from Class 2 to Class 1 or Class 3 to Class 2) shall not affect the overall system classification by which the applicable requirements of Section IST are determined.

ISTA-1400 Referenced Standards and Specifications

When standards and specifications are referenced in Section IST, their revision date or indicator shall be as shown in Table ISTA-1400-1.

ISTA-1500 Owner's Responsibilities (01)

The responsibilities of the Owner of the nuclear power plant shall include the following:

- (a) determination of the appropriate Code Class for each component of the plant, identification of the system boundaries for each class of components subject to test or examination, and the components exempt from testing or examination requirements;
- (b) design and arrangement of system components to include allowance for adequate access and clearances for conduct of the tests and examinations;
- (c) preparation of plans and schedules;
- (d) preparation of written test and examination instructions and procedures;
- (e) qualification of personnel who perform and evaluate examinations and tests in accordance with the Owner's quality assurance program;
- (f) performance of required tests and examinations;
- (g) recording of required test and examination results that provide a basis for evaluation and facilitate comparison with the results of subsequent tests or examinations;
- (h) evaluation of tests and examination results;