



U.S. NUCLEAR REGULATORY COMMISSION

STANDARD REVIEW PLAN

Appendix 7-A BRANCH TECHNICAL POSITIONS

REVIEW RESPONSIBILITIES

Primary - Organization responsible for the review of instrumentation and controls

Secondary - None

The Standard Review Plan (SRP) Chapter 7 branch technical positions (BTPs) represent guidelines intended to supplement the instrumentation and controls acceptance criteria and guidance provided in regulatory guides and applicable industry standards for implementing the regulatory requirements in the Commission regulations. The BTPs are written to resolve technical problems or questions of interpretation that arise in the detailed reviews of plant designs. The Staff must make a judgment in each such case, in order to complete its review of the particular application. Where the same technical problem or question of interpretation arises in several cases, the Staff's judgment on the point at issue is formalized in a BTP. A BTP is primarily an instruction to Staff reviewers that outlines an acceptable approach to the particular issue and ensures a uniform treatment of the issue by Staff reviewers. The approaches taken in the BTPs, like the recommendations of regulatory guides, are not mandatory, but do provide defined, acceptable, and immediate solutions to some of the technical problems and questions of interpretation that arise in the review process. In some instances, regulatory guides may be developed from BTPs after a sufficient experience in their use has accumulated.

All BTPs applicable to the SRP sections in Chapter 7 have been collected in this appendix for convenience.

Rev. 5 - [Month] 2007

USNRC STANDARD REVIEW PLAN

This Standard Review Plan, NUREG-0800, has been prepared to establish criteria that the U.S. Nuclear Regulatory Commission staff responsible for the review of applications to construct and operate nuclear power plants intends to use in evaluating whether an applicant/licensee meets the NRC's regulations. The Standard Review Plan is not a substitute for the NRC's regulations, and compliance with it is not required. However, an applicant is required to identify differences between the design features, analytical techniques, and procedural measures proposed for its facility and the SRP acceptance criteria and evaluate how the proposed alternatives to the SRP acceptance criteria provide an acceptable method of complying with the NRC regulations.

The standard review plan sections are numbered in accordance with corresponding sections in Regulatory Guide 1.70, "Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants (LWR Edition)." Not all sections of Regulatory Guide 1.70 have a corresponding review plan section. The SRP sections applicable to a combined license application for a new light-water reactor (LWR) are based on Regulatory Guide 1.206, "Combined License Applications for Nuclear Power Plants (LWR Edition)."

These documents are made available to the public as part of the NRC's policy to inform the nuclear industry and the general public of regulatory procedures and policies. Individual sections of NUREG-0800 will be revised periodically, as appropriate, to accommodate comments and to reflect new information and experience. Comments may be submitted electronically by email to NRR_SRP@nrc.gov.

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Table 7-A-1. SRP Chapter 7 Branch Technical Positions

BTP Number	Title
7-1	Guidance on Isolation of Low-Pressure Systems from the High-Pressure Reactor Coolant System
7-2	Guidance on Requirements on Motor-Operated Valves in the Emergency Core Cooling System Accumulator Lines
7-3	Guidance on Protection System Trip Point Changes for Operation with Reactor Coolant Pumps Out of Service
7-4	Guidance on Design Criteria for Auxiliary Feedwater Systems
7-5	Guidance on Spurious Withdrawals of Single Control Rods in Pressurized Water Reactors
7-6	Guidance on Design of Instrumentation and Controls Provided to Accomplish Changeover from Injection to Recirculation Mode
7-7	Not used
7-8	Guidance on Application of Regulatory Guide 1.22
7-9	Guidance on Requirements for Reactor Protection System Anticipatory Trips
7-10	Guidance on Application of Regulatory Guide 1.97
7-11	Guidance on Application and Qualification of Isolation Devices
7-12	Guidance on Establishing and Maintaining Instrument Setpoints
7-13	Guidance on Cross-Calibration of Protection System Resistance Temperature Detectors
7-14	Guidance on Software Reviews for Digital Computer-Based Instrumentation and Control Systems
7-15	Not used
7-16	Not Used
7-17	Guidance on Self-Test and Surveillance Test Provisions
7-18	Guidance on Use of Programmable Logic Controllers in Digital Computer-Based Instrumentation and Control Systems
7-19	Guidance on Evaluation of Diversity and Defense-in-Depth Digital Computer-Based Instrumentation and Control Systems
7-20	Not used
7-21	Guidance on Digital Computer Real-Time Performance

SRP Appendix 7-A
Description of Changes

This SRP section updates the guidance previously provided in Revision 4, dated June 1997, of this SRP. See ADAMS accession number ML063410219.

In addition, this SRP section was administratively updated in accordance with NRR Office Instruction, LIC-200, Revision 1, "Standard Review Plan (SRP) Process."

The technical changes are incorporated in Revision 5, dated [Month] 2007.

Review Responsibilities - Reflects changes in review branches resulting from reorganization and branch consolidation. Change is reflected throughout the SRP.

TABLE 7-A-1

1. Revised the title of Table 7-A-1 to reflect that the BTPs in the table are connected to SRP Chapter 7.
2. Revised the title of BTP 7-16 to indicate that BTP 7-16 it is not used.
3. Updated the title of BTP 7-19.