



U.S. NUCLEAR REGULATORY COMMISSION  
**STANDARD REVIEW PLAN**  
 OFFICE OF NUCLEAR REACTOR REGULATION

SECTION 9.2.4

POTABLE AND SANITARY WATER SYSTEMS

REVIEW RESPONSIBILITIES

Primary - Effluent Treatment Systems Branch (ETSB)

Secondary - None

I. AREAS OF REVIEW

At the construction permit (CP) stage of review, ETSB reviews the information in the applicant's safety analysis report (SAR) in the specific areas that follow. At the operating license (OL) stage, ETSB review consists of confirming the design accepted at the CP stage.

1. The system descriptions for the potable and sanitary water systems (PSWS) are reviewed. The piping and instrumentation drawings (P&IDs) are reviewed at the OL stage.
2. System design criteria to prevent connection to systems having the potential for containing radioactive material are reviewed.

II. ACCEPTANCE CRITERIA

ETSB accepts the PSWS design if there are no interconnections between the PSWS and systems having the potential for containing radioactive material.

III. REVIEW PROCEDURES

The reviewer selects and emphasizes material from this review plan, as may be appropriate for a particular case.

In the review of the PSWS, ETSB considers the design criteria to prevent cross connections, as described in the SAR. The P&ID's are reviewed at the OL stage to verify the absence of interconnections with systems having the potential for containing radioactive materials.

IV. EVALUATION FINDINGS

ETSB determines that sufficient information has been provided and that the review supports conclusions of the following type, to be included in the staff's safety evaluation report:

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 USNRC STANDARD REVIEW PLAN
 

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Standard review plans are prepared for the guidance of the Office of Nuclear Reactor Regulation staff responsible for the review of applications to construct and operate nuclear power plants. These documents are made available to the public as part of the Commission's policy to inform the nuclear industry and the general public of regulatory procedures and policies. Standard review plans are not substitutes for regulatory guides or the Commission's regulations and compliance with them is not required. The standard review plan sections are keyed to Revision 2 of the Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants. Not all sections of the Standard Format have a corresponding review plan.

Published standard review plans will be revised periodically, as appropriate, to accommodate comments and to reflect new information and experience.

Comments and suggestions for improvement will be considered and should be sent to the U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation, Washington, D.C. 20556.

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"The potable and sanitary water systems (PSWS) include all components and piping from the supply connection to the municipal or other water source to all points of discharge to sewage facilities or other plant systems. The scope of review of the PSWS included piping and instrumentation diagrams and descriptive information for the PSWS. The applicant's proposed design criteria bases for the PSWS have been reviewed.

"The basis for acceptance in our review has been conformance of the applicant's designs, design criteria, and design bases for the potable and sanitary water systems to industry standards. Based on the foregoing evaluation, we conclude that the proposed potable and sanitary water systems are acceptable."

V. REFERENCES

None

SRP 9.2.5