

RAS J-84

PNPS-FSAR

In the Matter of Entergy (Pilgrim Nuclear Power Station)
 Docket No. 50-293-LR Official Exhibit No. 54
 OFFERED by: Applicant/Licensee Intervenor _____
 (NRC Staff) Other NRC Staff Ex. 16
 IDENTIFIED on 4-10-08 Witness/Panel _____
 Action Taken: ADMITTED REJECTED WITHDRAWN
 Reporter/Clerk Thibault

1.10 QUALITY ASSURANCE PROGRAM

1.10.1 Introduction

Boston Edison Company, as original owner and operator of Pilgrim Nuclear Power Station, assumed full responsibility and authority for facility operation and has taken appropriate action to ensure the station is designed, modified, operated, and maintained in accordance with sound engineering principles and safe operating practices. The Boston Edison Company Quality Assurance Program for operation of PNPS was defined in the Boston Edison Quality Assurance Manual Volume II (BEQAM).

The ownership and operation of PNPS was transferred from Boston Edison Company to the Entergy Nuclear Generation Company (ENGC), effective July 13, 1999.

The ENGC Quality Assurance Program for operation of PNPS was defined in the Pilgrim Quality Assurance Manual (PQAM), which was the governing document for quality related activities relating to Pilgrim Station until May 5, 2002, when the NRC approved ENGC's transfer of plant operating responsibility to Entergy Nuclear Operations Inc. (ENOI). At this time the PQAM was replaced by adopting the Entergy QA Program Manual (QAPM), as the QA program description for PNPS.

The requirements in the QAPM, and its predecessors (BEQAM and PQAM), were established to comply with the requirements of 10 CFR 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants."

1.10.2 QA Program Objectives

The quality assurance program's objectives are to ensure compliance with regulatory requirements, company commitments, and established practices for efficient design, modification, maintenance, testing, and operation of Pilgrim Station. The program requires every person involved in quality assurance program related activities to comply with the provisions of the program.

1.10.3 QA Program Organization

The function of the Pilgrim Quality Assurance Organization established by Entergy is to monitor the quality oriented activities of all organizations involved in the design, modification, operation, and maintenance of Pilgrim Station and report the results of such monitoring activities to the appropriate levels of management.

The site quality assurance organization reports off-site to the Entergy Director, Oversight. The Director, Oversight through the VP, Oversight reports to the President, Planning, Development and Oversight and the Chief Executive Officer. This reporting relationship ensures the appropriate organizational freedom required by 10 CFR 50 Appendix B, Criteria I as needed for the site QA organization to effectively perform their assigned functions.

1.10.4 Quality Control and Assurance Measures

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The degree to which quality control and assurance measures are assigned is a direct function of the safety and operating requirements of the various structures, systems, and components.

Essential equipment and nuclear systems are emphasized; however, nonessential and non-safety related systems and components may be included in the Quality Assurance Program to the extent necessary to assure reliability of station operation.

The quality assurance organization has developed an integrated system of planned audits, reviews, surveillances, inspections, and assessments in order to fulfill its responsibility for monitoring of QA Program implementation. The system has been designed to meet or exceed applicable regulatory, license, and national code or standard requirements. The audits, reviews, and surveillances are scheduled to provide comprehensive oversight and verification of all aspects of the QA Program and to provide management of the affected areas with continuous assessments of facility operation.

In addition to the commitments to NRC Regulatory Guides and ANSI Standards described in the Entergy QAPM, the following Regulatory Guides and associated ANSI Standards will be applied to construction related activities associated with major modifications during the operational phase that are comparable in nature and extent to related activities occurring during initial plan design and construction:

- Regulatory Guide 1.54, Rev. 0, 1973. "QA Requirements for Protective Coating Applied to Water-Cooled Nuclear Power Plants."
- Regulatory Guide 1.55, Rev. 0, 1973. "Concrete Placement in Category I Structures."
- ANSI N45.2.16, "Requirements for the Calibration and Control of Measuring and Test Equipment Used in the construction and Maintenance of Nuclear Power Generating Stations."

UFSAR, Appendix D describes the quality assurance program for the initial design and construction phase of Pilgrim Station.

1.10.5 Quality Records and Documentation

Documentation to support quality assurance is essential to the safe operation, integrity and proper maintenance of Pilgrim Station. It is compiled and maintained throughout the life of the plant. In general, the minimum requirements for documentation for PNPS are those requirements imposed by the QAPM.

Refer to Section 13.7.5 relative to records retention.

1.10.6 Quality Program Review

Periodic, independent reviews of the QA Program policies and implementation are conducted to evaluate the continued adequacy and effectiveness of the program.

1.10.7 QA Program Update

The QA Program applied to operation and modification of Pilgrim Station is set forth in the QAPM.