

QUALITY ASSURANCE MANUAL



Franklin Research Center

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QUALITY ASSURANCE MANUAL

SECTION 4. OUTLINE OF FRANKLIN QUALITY ASSURANCE PROGRAM

Section 4

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Date

Issued 5/4/79

Effective

Date 5/4/79

Revision

Number 3

Date

Approved

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A. General

1. The Franklin Quality Assurance Program is based on a system designed to effectively control, evaluate, and assure satisfactory control of quality and product integrity throughout all areas of project performance.
2. Particular emphasis is placed on controlling the quality of all structures, systems and components which could through product malfunction or failure, inadequate quality or accident cause undue harm and risk to the project or the health and safety of the public.

B. Applicability

1. This Program is applicable to all phases of engineering effort including coverage for:
 - a. Incorporation of all necessary Quality Assurance requirements during design, stress analysis, fabrication, performance testing, development, and related effort.
 - b. Evaluations of the Quality Assurance capabilities of any prospective consultants or subcontractors and surveillance of any outside work performed.
 - c. Assuring identification of and compliance with requirements of appropriate engineering codes and standards consistent with good engineering practice and consistent with contractual requirements of the sponsor. This shall include compilation of all pertinent Quality Assurance documents, as required.

C. Applicable Regulations

1. 10CFR50 Appendix B - Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants.
2. 10CFR21 - Reporting of Defects and Noncompliance

QA. 4. Outline of Franklin Quality Assurance Program

3. ANSI N45.2 - 1977 - Quality Assurance Program Requirements for Nuclear Facilities.
4. ANSI N45.2.9 - 1979 - Requirements for Collection, Storage, and Maintenance of Quality Assurance Records for Nuclear Power Plants.
5. ASME Boiler and Pressure Vessel Code - Section III - Article NCA-4000 - Quality Assurance.

D. Program Responsibilities

1. Franklin is responsible for compliance with all applicable quality control requirements established by the sponsor.
2. In addition, Franklin is responsible for establishing, implementing and maintaining a Quality Program which assures that all supplies and services furnished under the project (whether manufactured or performed) are controlled at all points necessary to ensure conformance to project quality requirements.
3. In the event that Franklin procures services from a consultant or subcontractor, Franklin will apply and impose similar techniques, concepts, and requirements for quality as those used in managing its own Quality Assurance system.
4. The Manager of Quality Assurance is responsible for ensuring that individuals assigned to Quality Assurance activities possess the needed experience or training for carrying out the required functions.

E. Program Implementation

1. Specific elements of Franklin's Quality Assurance Program are described in Sections 5 through 20 of this Manual; and in QASD No. 4-1, "Quality Assurance Indoctrination, Training, and Qualification of Personnel."
2. Quality Assurance System Documents (QASDs, contained herein) are referenced for those elements that require inter-departmental standardization and coordination. They are generated, controlled and maintained by a top level Quality Assurance Administrative Instruction No. 1-1.
3. Quality Assurance Procedure documents (QAPs) are referenced for those elements where typically a single organizational unit is involved. They are generated, controlled and maintained by a top level Quality Assurance Administrative Instruction No. 1-1; and are a supplement to this Manual.