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| DESIGN CONTROL | PREPARED BY RP Baker<br>APPROVED BY [signature] 6/11/82 | | | |

1.0 REFERENCES

1-A TUGCO/TUSI CPSES QA Plan
1-B CP-EP-4.5 Design Verification
1-C CP-EP-4.6 Design Change Control
1-D CP-EP-3.0 Organization
1-E CP-EP-6.0 Preparation of Engineering Procedures
1-F CP-EP-7.0 Control of Engineering Procedures and Instructions
1-G CP-EP-16.3 Control of Reportable Deficiencies
1-H CP-EP-18.0 Control of Records Turnover Activities

2.0 GENERAL

2.1 PURPOSE

The purpose of this procedure is to outline general requirements for the site design control program to ensure that activities that affect the design of safety-related or other designated items will be adequately defined, developed, verified and documented in accordance with the provisions of Reference 1-A.

2.2 DEFINITIONS

2.2.1 Design Process - The design process consists of technical and management functions which commence with the identification of design inputs and conclude with the completion of the final design.

2.2.2 Final Design - Approved design output documents or approved changes to these documents.

2.3 RESPONSIBILITIES

The Engineering and Construction Manager is responsible for the development, implementation and management of design documents.

The Engineering and Construction Manager has specifically delegated the detailed implementation of the design program to the Managers of Conceptual and Functional Engineering. These Managers shall ensure that engineering design activites are identified, planned and controlled in accordance with References 1-A, 1-B, and 1-C.



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3.0 PROCEDURE

3.1 GENERAL REQUIREMENTS

3.1.1 Assignment of Design Responsibility

The design program shall control the design of all safety-related structures and components and any other areas designated by the Engineering and Construction Manager acknowledging the roles of the various organizations.

3.1.2 Engineering Procedure and Instruction

Personnel within the site organization per 1-D shall establish and implement procedures/instructions as required to implement the design/engineering program. Engineering Instructions shall be used to control specific design tasks required by the Engineering Procedures. These instructions may be for such tasks as design planning, design interface contol, design input and control of design documents. The instructions shall be prepared, issued and controlled per the provisions of Reference 1-E and 1-F.

3.2 DESIGN INTERFACE CONTROL

3.2.1 Application

Design interface control shall be applied when the design activity of one organization, internal or external, includes or affects the design activity of other organizations. These considerations shall normally be defined in established procedures/instructions.

3.2.2 Documentation

When an interface has been identified, the following shall be prepared with appropriate management approval.

a. Identification of titles and responsibilities of key personnel.
b. Establishment of lines of communication and controls for the flow of design information and changes.
c. Control and distribution of all documentation.

3.3 DESIGN INPUT

Design inputs, upon which final design is based shall be identified, documented, reviewed and approved on a timely basis. Design inputs shall be detailed enough to provide a consistent basis for making design decisions, accomplishing design verification and evaluating design changes.

3.4 CONTROL OF DESIGN DOCUMENTS

Engineering procedures and instructions shall outline document control requirements when applicable, such as:

a. Document issue and distribution.
b. Adequate control across design interfaces in accordance with Section 3.3.
c. Assurance that proper documents are identified and available throughout the design program.

3.5 DEFICIENCIES AND NONCONFORMANCES

Significant deficiencies and nonconformances discovered during the design process such as deviations to the design bases as reflected in FSAR commitments, design errors or deviations from the applicable codes or standards shall be documented in accordance with Reference 1-A and 1-G.

3.6 RECORD RETENTION AND TURNOVER

The originating organization/discipline shall assure that sufficient records are prepared as design work progresses to furnish documentary evidence of the quality of the design process and to reflect compliance with documented Engineering Procedures/Instructions. Design records required for retention during plant operation shall be collected, stored and maintained in compliance with Reference 1-H.