

SNUPPS

Standardized Nuclear Unit
Power Plant System

5 Choke Cherry Road
Rockville, Maryland 20850
(301) 869-8010

Nicholas A. Petrick
Executive Director

March 14, 1984

SLNRC 84-0042 FILE: 0541
SUBJ: Revision Fourteen to SNUPPS
FSAR

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

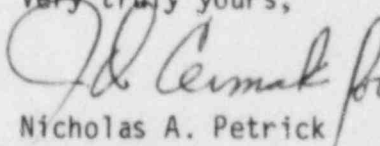
Docket Nos: STN 50-482 and STN 50-483

Dear Mr. Denton:

Forwarded herewith are seventy-five (75) copies of Revision 14 to the Standardized Nuclear Unit Power Plant System (SNUPPS) FSAR. This revision will be incorporated into the applications of the above dockets by amendments submitted by Kansas Gas and Electric Company and Union Electric Company.

The revision includes no changes which are either provided or required to close out open SER issues. The changes which are included in this revision are summarized in the enclosure.

Very truly yours,


Nicholas A. Petrick

SLA/bds/12a30

Enclosure: Summary of Changes

Attachment: Revision 14 to SNUPPS FSAR

cc: G. L. Koester	KGE
D. T. McPhee	KCPL
D. F. Schnell	UE
B. Little	USNRC/CAL
J. H. Neisler	USNRC/CAL
W. Shum	USNRC/WC
A. Smith	USNRC/WC
J. Konklin	USNRC/RIII

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Summary of SNUPPS FSAR Revision 14 Changes

General

FSAR Revision 14 includes no changes which are either provided or required to close out open SER issues.

Specific

1. Maintenance Truss - references to the maintenance truss are removed from FSAR Section 3.8. The truss performs no safety related function and the Standard Review Plan does not address maintenance trusses.
2. Diesel Generator Testing - clarification of implementation of position c.2.a(5) from Reg. Guide 1.108 is provided in Chapters 8 and 14. This clarification was discussed with the Staff as an acceptable method for implementing the recommendations of the Reg. Guide and is supported by annotations in the Technical Specifications.
3. Feedwater isolation on Steam Generator Low-Low Level - description of this design feature is added to Chapter 7 for completeness and to maintain consistency with the rest of the FSAR and the design.
4. Chapter 15 analyses - the main steam line break (MSLB) analyses are revised to delete credit taken for 2000 ppm Boron in the lines downstream of the RWST. The new assumption is more conservative and the impact on the analyses, including calculated reactor power and core heat flux, is not significant. Accident analysis dose tables are revised to reflect availability of a third year of meteorological data and to include calculational refinements.
5. Reactor Vessel Head Drop Analyses - the analysis was revised to include modelling of plastic deformation in the supports; previous safety conclusions were confirmed.
6. Polar Crane Electrical Penetration - because SNUPPS had decided to permit operation of the polar crane in Modes 3 and 4, the polar crane electrical penetration had to be upgraded to comply with the requirements of Reg. Guide 1.63; the upgrade is documented in Chapter 8.
7. Rod Bow Penalty - the rod bow penalty information is revised in FSAR Section 4.4.2.2.5 to be consistent with the SNUPPS Technical Specifications. The revised information is based on a Westinghouse topical report which the Staff has reviewed (WCAP-8691, Rev. 1 (proprietary) and WCAP-8692, Rev. 1 (non-proprietary)).
8. Fire Hazards Analysis - a general update includes the following:
 - a. Format changes are made to incorporate material from Appendices 9.5.C and 9.5.D into Appendices 9.5A and 9.5B.

- b. Information generated to support closeout of NRC fire protection site audit comments is incorporated.
- c. Fire area descriptions are updated to reflect as-built plant conditions and incorporate descriptions of fire protection features added to comply with previous commitments, e.g. descriptions of electrical circuits which will be wrapped with fire barrier material.
- d. Additional detail is furnished in Section 9.5.1 and in Appendix 9.5B, regarding detection and suppression area coverage, to support the SNUPPS conclusion that protection equivalent to 10CFR50 Appendix R requirements is provided.

These updates are considered by SNUPPS to reflect design implementation and not to entail any change in established design criteria.

- 9. High Energy Line Break (HELB) - HELB analyses are revised, incorporating several break relocations and deletions, based on as-built stresses and hanger locations; these analyses are consistent with applicable Branch Technical Positions and previous SNUPPS submittals reviewed by the Staff.
- 10. Equipment Qualification - FSAR Section 3.11 is revised to refer to Revision 2 of the SNUPPS Environmental Qualification Submittal (SLNRC 84-0013, dated 2/1/84) for current information; a commitment is made to revise the FSAR accordingly in a future revision in 1984.
- 11. Test Abstracts - miscellaneous changes are made to test abstracts in Chapter 14 to reflect the site approved startup test procedures; these procedures are developed to ensure that required testing can be performed given plant status during testing and the as-built design.
- 12. System Descriptions - minor updates to numerous system descriptions are incorporated to reflect the as-built design.
- 13. Drawing List (Section i.7) - the engineering drawing list is updated to reflect the current status of the design. SNUPPS plans to submit three copies of the listed engineering drawings approximately 90 days after Callaway fuel load when the as-built program is complete; current copies of listed engineering drawings can be furnished earlier if the Staff requests them.
- 14. Hydrogen Analyzer - the operational commitment for the hydrogen analyzer is revised to reflect compliance with the exact words of the TMI-2 Action Plan paragraph II.F.1, Attachment 6.