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SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards revised FSAR Section 7.1.New Section 7.1.2.6.9 added to provided ref to compliance w/Reg Guide 1.45. Sections 7:1.2.6.9-7.1.6.20 renumbered & Section 7.1.2.5.21 provides ref to position of Reg Guide 1.97.

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SEP 16 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
FSAR SECTION 7.1
ER 100508 FILE 841-1
PLA-1821 Docket No. 50-388

Dear Mr. Schwencer:

In order to support obtaining an operating license for Susquehanna SES Unit 2, attached is revised Section 7.1 of the Susquehanna SES FSAR. The revisions to this section are as follows:

| | | |
|---|---|---|
| ----- | - | New Section 7.1.2.6.9 has been added to provide a reference to the sections of the FSAR where compliance to Regulatory Guide 1.45 can be found. |
| 7.1.2.6.9 through 7.1.2.6.20 | - | These sections have been renumbered due to the insertion of new Section 7.1.2.6.9. |
| 7.1.2.6.21 | - | This section has been added to provide a reference to our position on Regulatory Guide 1.97. |

These revisions will be incorporated in the next amendment to the FSAR.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

Attachment

cc: R. L. Perch NRC

B001
1/1

instrumentation and control systems and no discussion is provided.

b) Non-NSSS - Refer to Subsection 3.11.2b.2 and Section 3.13.

7.1.2.6.9 Conformance to Regulatory Guide 1.45 (5/73)

Refer to Subsections 3.13 and 5.2.5.1 for detailed description of the Susquehanna SES design conformance to this guide.

7.1.2.6.10 Conformance to Regulatory Guide 1.47 (5/73)

a) NSSS - The system of bypass indication is designed to satisfy the requirement of IEEE 279-1971 paragraph 4.13 and Regulatory Guide 1.47 and is discussed for each safety-related system under Sections 7.2, 7.3, 7.4, and 7.6. The design of the bypass indication system allows testing during normal operation and is used to supplement administrative procedures by providing indications of safety systems status.

The bypass indication system is designed and installed in a manner which precludes the possibility of adverse affects on the plant safety system. The bypass indication system is electrically isolated from the protection circuits such that the failure or bypass of a protective function is not a credible consequence of failures in the bypass indication system and the bypass indication system cannot reduce the independence between redundant safety systems.

b) Non-NSSS - Refer to individual systems in Section 7.3 and discussion in Section 7.5

7.1.2.6.11 Conformance to Regulatory Guide 1.53 (6/73)

a) NSSS - The safety-related system designs conform to the single failure criterion. The analysis portions of Sections 7.2, 7.3, 7.4 and 7.6 provide further discussion.

b) Non-NSSS Refer to Section 3.13

7.1.2.6.12 Conformance to Regualtory Guide 1.62 (10/73)

a) NSSS - Manual initiation of the protective action is provided at the system level in the Reactor Protection System, (primary) Containment and Reactor Vessel Isolation Control System and Emergency Core Cooling Systems. The analysis portions of Sections 7.2 and 7.3 provide further discussion.

b) Non-NSSS - Refer to Section 3.13.

7.1.2.6.13 Conformance to Regulatory Guide 1.63 (10/73)

a.) NSSS - Regulatory Guide 1.63 applies to electrical penetration assemblies which are not part of NSSS scope.

b.) Non-NSSS - Refer to Section 3.13.

7.1.2.6.14 Conformance to Regulatory Guide 1.68 (11/73)

Refer to Section 3.13.

7.1.2.6.15 Conformance to Regulatory Guide 1.70 (Rev. 2)

The format and content of Chapter 7 conform to the requirements of Regulatory Guide 1.70.

7.1.2.6.16 Conformance to Regulatory Guide 1.73 (1/74)

Refer to Section 3.13.

7.1.2.6.17 Conformance to Regulatory Guide 1.75 (1/75)

a) NSSS Regulatory Guide 1.75 is not applicable to Susquehanna SES; however, degree of compliance to separation criteria of IEEE 384 is discussed in Subsection 7.1.2.5.8.

b) Non-NSSS - Refer to Section 3.13 and Subsection 8.1.6.1, Paragraph n.

7.1.2.6.18 Conformance to Regulatory Guide 1.80 (6/74)

a) NSSS - Regulatory Guide 1.80 applies to the testing of instrument air systems which are not part of the NSSS scope.

b) Non-NSSS - Refer to Section 3.13.

7.1.2.6.19 Conformance to Regulatory Guide 1.89 (11/74)

a) NSSS - See the Susquehanna SES Environmental Equipment Qualification Program.

b) Non-NSSS - Refer to Section 3.13.

7.1.2.6.20 Conformance to Regulatory Guide 1.96 (5/75)

Main Steamline Isolation Valve Leakage Control System is designed to the requirements of Regulatory Guide 1.96. Further discusssion is provided in Subsection 7.3.2a.3.

7.1.2.6.21 Conformance to Regulatory Guide 1.97

Post accident instrumentation has been upgraded in Unit 2 in accordance with Regulatory Guide 1.97, Revision 2, with clarifications as described in PLA-965. Equipment and components used for post accident monitoring are described in the applicable FSAR sections.

7.1.2.7 Technical Design Bases

The technical design bases for RPS are in Subsection 7.2.1, for engineered safety features in Subsection 7.3.1, for systems required for safe shutdown in Subsection 7.4.1, and for other systems required for safety in Subsection 7.6.1.

7.1.2.8 Safety System Settings

The safety system setpoints are listed in the Technical Specifications. The settings are determined based on operating experience and conservative analyses. The settings are high enough to preclude inadvertant initiation of the safety action, but low enough to assure that significant margin is maintained between the actual setting and the limiting safety system