

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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ACCESSION NBR:8309200087 DOC DATE: 83/09/16 NOTARIZED: NO DOCKET #
 FACIL:50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
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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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NOTES:1cy NMSS/FCAF/PM. LPDR 2cys. 05000388

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NOTES: 3 3

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves assessing the outcomes against the objectives and goals and identifying any areas for improvement.

1. 本報告係根據本會所屬之「臺灣省教育會」及「臺灣省教育研究會」之資料，並參考各縣市教育局之資料，以及各縣市教育局之教育行政人員之訪談結果，而彙編而成。

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

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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 - These sections have been renumbered due to the insertion of through new Section 7.1.2.6.9.
- 7.1.2.6.20
- 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

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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 discussion 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 inadvertent initiation of the safety action, but low enough to assure that significant margin is maintained between the actual setting and the limiting safety system