1.1 INTRODUCTION

1.1.1 TYPE OF LICENSE

This FSAR is submitted by PPL Susquehanna, LLC in support of its application for an operating license for Susquehanna Steam Electric Station (Susquehanna SES) Units 1 and 2.

1.1.2 IDENTIFICATION OF APPLICANT

Application is made by PPL Susquehanna, LLC, Two North Ninth Street, Allentown, Pennsylvania, 18101.

1.1.3 NUMBER OF PLANT UNITS

The plant consists of two units which have a common control room, diesel generators and refueling floor, turbine operating deck, radwaste system, and other auxiliary systems.

1.1.4 DESCRIPTION OF LOCATION

The 2,355 acre plant site is located in Salem Township, Luzerne County, Pennsylvania, approximately 20 miles southwest of Wilkes-Barre, 50 miles northwest of Allentown and 70 miles northeast of Harrisburg.

1.1.5 TYPE OF NUCLEAR STEAM SUPPLY

The Nuclear Steam Supply System for each unit consists of a General Electric Boiling Water Reactor, BWR/4 product line with a 3952 MWt nominal rating.

1.1.6 TYPE OF CONTAINMENT

The containment is a pressure suppression type designated as Mark II. The drywell is a steel-lined concrete cone located above the steel-lined concrete cylindrical pressure suppression chamber.

The drywell and suppression chamber are separated by a concrete diaphragm slab which also serves to strengthen the entire system.

1.1.7 CORE THERMAL POWER LEVELS

The rated core thermal power for each unit is 3952 MWt. The nominal turbine generator output at 3952 MWt is 1300 MWe for both Unit 1 and Unit 2.

1.1.8 SCHEDULED FUEL LOAD AND OPERATION DATA

Unit 1 original fuel load was on July 27, 1982 with a commercial operation date of June 8, 1983. Unit 2 original fuel load was March 28, 1984 with a commercial operation date of February 12, 1985.

1.1.9 FSAR ORGANIZATION

The Susquehanna SES Final Safety Analysis Report (FSAR) has been organized using Regulatory Guide 1.70 Revision 2 (September, 1975).

Where information has been presented that has not been specifically requested by the standard format, the information is presented in the appropriate chapter as a section or subsection, and follows the information specifically requested by the standard format.

Tabulations of data are designated "tables" and are identified by the section number, followed by a dash and number of table according to its order in the text; e.g., Table 3.4-5 is the fifth table of Section 3.4. Drawings, pictures, sketches, curves, graphs, and engineering diagrams are identified as "figures" and are numbered in the same manner as tables.