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 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Informs that FSAR Section 12.2 revised to reflect that layout of equipment in Unit 2 not significantly different than Unit 1 layout. Shielding & zoning requirements apply to both units. Info will be incorporated into next FSAR amend.

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OCT 06 1983

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

SUSQUEHANNA STEAM ELECTRIC STATION
FSAR SECTION 12.2
ER 100508 FILE 841-1
PLA-1868

Docket No. 50-388

Dear Mr. Schwencer:

In order to support obtaining an operating license for Susquehanna SES Unit 2, enclosed is revised Section 12.2 of the Susquehanna SES FSAR. This section has been revised to reflect the fact that the layout of equipment in Unit 2 is not significantly different from the layout in Unit 1, therefore the shielding and zoning requirements are applicable to both units. This revision will be incorporated in the next amendment to the FSAR.

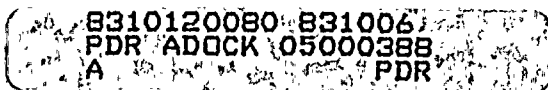
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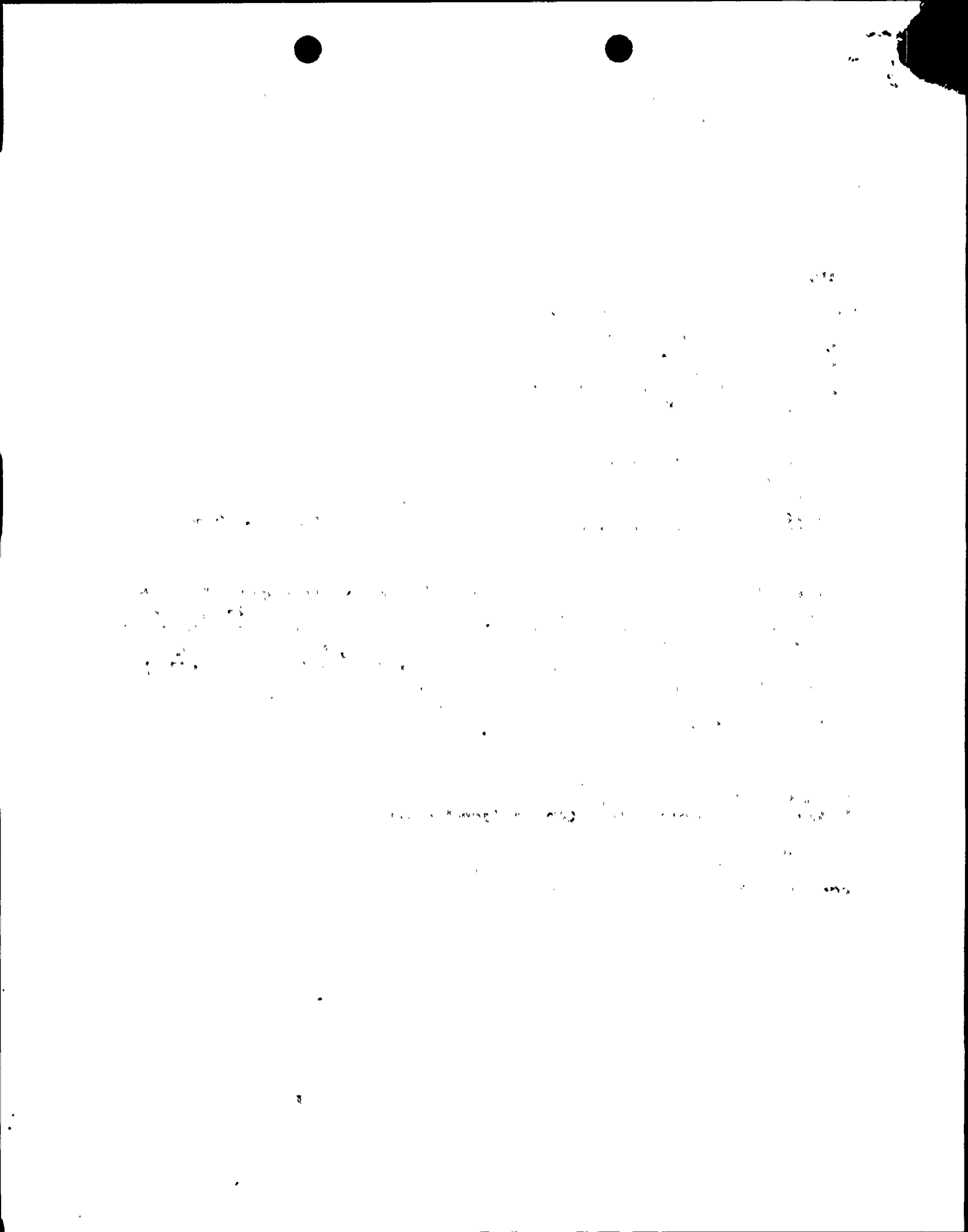
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cc: R. L. Perch NRC

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12.2. RADIATION SOURCES

In this section the sources of radiation that form the basis for shield design calculations and the sources of airborne radioactivity required for the design of personnel protective measures and for dose assessment are discussed and identified.

12.2.1 CONTAINED SOURCES

The shielding design source terms are based on a noble gas fission product release rate of 0.1 Ci/sec (after 30 minutes decay) and the corresponding fission, activation, and corrosion product concentrations in the primary coolant. The sources in the primary coolant are discussed in Section 11.1 and listed in Tables 11.1-1 through 11.1-5. Throughout most of the primary coolant system, activation products, principally nitrogen-16, are the primary radiation sources for shielding design. For all systems transporting radioactive materials, conservative allowance is made for transit decay, while at the same time providing for daughter product formation.

Basic reactor data and core region description used for this section are listed in Tables 12.2-1 through 12.2-5.

In this subsection the design sources are presented by building location and system. General locations of the equipment discussed in this section are shown on the shielding and zoning drawings, Figures 12.3-8 through 12.3-27. The layout of equipment in Unit 2 is not significantly different from the layout in Unit 1, therefore the shielding and zoning requirements shown on these drawings are applicable to both units. Detailed data on source descriptions for each shielded plant area are presented in Tables 12.2-38 through 12.2-40.

Shielding source terms presented in this section and associated tables are based on conservative assumptions regarding system and equipment operations and characteristics to provide reasonably conservative radioactivity concentrations for shielding design. Therefore, the shielding source terms are not intended to approximate the actual system design radioactivity concentrations.