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 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards revised Section 11.3 of FSAR to be incorporated into next amend. Rev refs gaseous waste mgt sys diagrams.

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SEP 30 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 11.3
ER 100508 FILE 841-1
PLA-1860

Docket No. 50-388

Dear Mr. Schwencer:

In order to support obtaining an operating license for Susquehanna SES Unit 2, enclosed is revised Section 11.3 of the Susquehanna SES FSAR. The revisions to this section are as follows:

11.3.1.2 - This section has been revised to reference Gaseous Waste Management System diagrams for Unit 2, which will be provided later.

These revisions will be incorporated into the next amendment of the FSAR.

Very truly yours,

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

Enclosure

cc: R. L. Perch - NRC

Boo!
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11.3 GASEOUS WASTE MANAGEMENT SYSTEMS11.3.1 DESIGN BASES11.3.1.1 Design Objective

The gaseous waste management systems (GWMS) are designed to process and control the release of gaseous radioactive wastes to the site environs so that the total radiation exposure of persons in offsite areas is as low as reasonably achievable and does not exceed applicable guidelines. This is to be accomplished while maintaining the occupational exposure as low as reasonably achievable and without limiting plant operation or availability.

11.3.1.2 Design Basis

The gaseous waste systems are designed to limit offsite doses from routine station releases to significantly less than the limits specified in 10CFR20, and to operate within the dose objectives established in 10CFR50, Appendix I.

The design basis and maximum expected source terms correspond to 100,000 and 60,000 μ Ci/sec respectively of noble radiogas after a 30 minute delay. Table 11.3-1 lists the quantities of nuclides expected to be released to the environs when operating at the maximum expected failed fuel levels. The expected doses to individuals at or beyond the site boundary are shown in Subsection 11.3.4 and Environmental Report Subsection 5.2.4.2.

A description of the major equipment items in the offgas system is provided in Table 11.3-5. The seismic and quality group classifications of the GWMS components, piping and structures housing them are listed in Section 3.2. The difference in "as-built" configuration of Unit 2 portion of GWMS piping in regard to quality group "D" classification and stem leak-off connection to valve are shown in Figures 11.3-3c and 11.3-3d.

Conservative analyses similar to those presented in Ref 11.3-1 demonstrate that equipment failure cannot result in doses exceeding acceptable guidelines; thus, neither the offgas system nor the buildings housing the equipment were designed to meet Seismic Category I requirements; however, the offgas structural walls are part of the total structural shear wall system and were analyzed to withstand the effects of earthquakes.

The failure of the Ambient Temperature Charcoal Offgas Treatment system is analyzed in Subsection 15.7-1.1. The related failure