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 AUTH. NAME    AUTHOR AFFILIATION  
 BYRAM, R.G.    Pennsylvania Power & Light Co.  
 RECIP. NAME    RECIPIENT AFFILIATION  
 MILLER, C.L.    Project Directorate I-2

*Rev. 6/28/94 JN*

SUBJECT: Forwards Rev 21 to "SSES Emergency Plan." Rev added definitions for "Lens Dose Equivalent" & "Shallow Dose Equivalent" & revised definitions for "Committed Dose Equivalent" & "Total Effective Dose Equivalent."

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**Pennsylvania Power & Light Company**

Two North Ninth Street • Allentown, PA 18101-1179 • 610/774-5151

Robert G. Byram  
Senior Vice President—Nuclear  
610/774-7502  
Fax: 610/774-5019

MAY 18 1994

Director of Nuclear Reactor Regulation  
Attention: Mr. C. L. Miller, Project Director  
Project Directorate I-2  
Division of Reactor Projects  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

**SUSQUEHANNA STEAM ELECTRIC STATION  
EMERGENCY PLAN REVISION NO. 21  
PLA-4129 FILES R36, A17-13**

Docket Nos. 50-387  
and 50-388

Dear Mr. Miller:

Enclosed is Revision No. 21 to the Susquehanna Steam Electric Station Emergency Plan. In accordance with the requirements of 10CFR50.54q, the changes have been made without commission approval as they do not decrease the effectiveness of the plan and the plan as changed continues to satisfy the applicable requirements of Appendix E to 10 CFR 50.

The changes to the plan are summarized below:

**Section 1.0, Definitions**

Definitions have been added for "Lens Dose Equivalent" and "Shallow Dose Equivalent". Definitions for "Committed Dose Equivalent" and "Total Effective Dose Equivalent" have been revised. The terms "Control Zone" and "Control Zone Evacuation" were changed to "Radiologically Controlled Area" and "Radiologically Controlled Area Evacuation" respectively. The definition for "Protective Action Guides" has been administratively changed to be gender neutral.

**Section 2.0, Acronyms**

The following acronyms have been added to the list of acronyms:

DAC - Derived Air Concentration  
MIDAS - Meteorological Information and Dose Assessment System

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The following acronyms have been deleted from the list of acronyms:

EPIP - Emergency Plant Implementing Procedures  
MPC - Maximum Permissible Concentration  
STREAM - Susquehanna Terrain - Incorporating Regional Effluent Assessment Model

### Section 5.0, Emergency Conditions

The text of this section has been retyped. No changes have been made to the content of the section.

### Section 6.0, Organizational Control of Emergencies

The description of the Phase I response has been changed to replace the title of Superintendent of Plant with Vice President - Nuclear Operations. Also, under the description of the responsibilities of the Shift Supervisor as Emergency Director, the responsibility for notifying off-site agencies has been added.

The description of Phase II response has been changed to replace the title of Superintendent of Plant with Vice President - Nuclear Operations.

The description of the Phase III response has been changed to indicate that the EOF personnel will be prepared for rather than having achieved full functional operation within one hour.

### Section 6.1, Normal Operating Organization

An asterisk has been added to the listing of minimum off-hours shift response to indicate the availability of 1-Health Physics Technician per unit rather than only one for the plant.

### Section 6.2, On-Site Emergency Organization - (Phase II)

Subsection 6.2.1 has been revised to designate the Vice President - Nuclear Operations or his designated alternate as the relief for the Shift Supervisor as the Emergency Director.

The title of the position described in Subsection 6.2.4 has been changed to read "Health Physics Network Communicator". Also the position is filled with a qualified health physics management person.

The requirement in Subsection 6.2.5 for the Radiation Protection Coordinator to maintain communication with DER/BRP has been changed to maintaining communication until relieved. Also, the position will be filled by a qualified health physics management person.

### Section 6.3, Off-Site Resources and Activities (Phase III)

Subsection 6.3.1.2 has been changed to replace the Supervisor-Maintenance Outage/Production with the Manager-Nuclear Information Services as a typical alternate to fill the Interim Recovery Manager position.

Item c) under the list of responsibilities for the Lead Technical Support Staffer (Subsection 6.3.1.4) has been changed to add specificity by requiring the provision of technical information to the Recovery Manger and offsite agencies.

Item e) under the list of responsibilities for the Radiation Support Manager has been changed from "assigning" to "controlling" field monitoring team.

### Section 6.4, Coordination with Participating Government Agencies

The title of Subsection 6.4.3 has been revised to add the acronym "JIC".

Figures 6.1, 6.2a, and 6.5 were revised to reflect title changes and organization changes described in the text.

### Section 7.1, Assessment Actions for all Emergency Classifications

Subsection 7.1.1 previously stated that field monitoring teams verified dose calculation. That action is no longer their responsibility. Also, survey meters carried by on-site and near-site monitoring teams are not necessarily ionization type as previously stated in the text.

#### Subsection 7.1.1.1, Meteorology

Reference to the two supplemental meteorological towers has been removed from the text. It has been determined that the data provided by these towers was of limited value when used in a modeling grid composed of a large array of varied topographical features.

#### Subsection 7.1.1.3, Dose Calculations for Airborne Releases

This was administratively changed to add clarity to statements.

#### Subsection 7.3.1.2, Radiologically Controlled Area Evacuation

The term "Local Area Evacuation" has been replaced with "Radiologically Controlled Area Evacuation".

**Subsection 7.4.1, Emergency Exposure**

The term "quarterly limits" has been deleted.

**Subsection 8.1.2.4, Occupant Accommodations**

The statement describing the location of toilet facilities has been clarified.

**Subsection 8.1.3.1, Special Layout Description**

The words "terminal/printer" was replaced by "printer/terminal".

**Subsection 8.2.1, Media Operations Center**

The description of the location of the Media Operations Center was changed to indicate it is located near rather than in Wilkes Barre.

**Subsection 8.2.3.3.1, Evacuation Criteria**

Item a) the word "exposure" was changed to "dose".

Item c) the measure was changed from 150 MPC to 75 DAC.

**Subsection 8.2.4, General Office Engineering Support Center (GOESC)**

The General Office Engineering Support Center has been added to the description of PP&L Off-Site Emergency Centers.

**Section 9.2, Review and Updating**

This section has been changed to more completely describe the review and updating of the SSES Emergency Plan and Emergency Plan Position Specific Procedures.

**Section 9.4, Public Education and Information**

This section has been reformatted. The "Emergency Information Brochure" is no longer being utilized. Information previously provided by the brochure is now found in a telephone directory insert which is described in Subsection 9.4.1.

**Table 9.1, Training of Susquehanna SES Emergency Response Personnel**

This table was revised to reflect position title changes. Neither licensed operations personnel, non-licensed operations personnel nor chemistry technicians are to be used for radiation monitoring teams.

**Appendix C**

This appendix was changed to reflect the current listing of Position Specific Procedures.

**Appendix D**

This appendix was updated to reflect the current equipment listings and locations.

**Appendix E**

This appendix was updated to include the most recent corporate policy statement.

Should you have any questions regarding this submittal please call Mr. Carl Roszkowski at (717) 542-3394.

Very truly yours,

  
R. G. Byram

Enclosure

cc: NRC Document Control Desk (original)  
NRC Region I  
Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES  
Mr. C. Poslusny, NRC Project Manager - Rockville  
Mr. T. T. Martin, Administrator, Region I



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**EMERGENCY PLAN, REVISION 21**

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List of Effective Pages, pages LEP-1 to LEP-8, Rev. 20	List of Effective Pages, pages LEP-1 to LEP-8, Rev. 21
Table of Contents pages i to iii, Rev. 18	Table of Contents pages i to iii, Rev. 21
Section 1.0, DEFINITIONS pages 1-1 to 1-5, Rev. 20	Section 1.0, DEFINITIONS pages 1-1 to 1-5, Rev. 21
Section 2.0, ACRONYMS pages 2-1 to 2-2, Rev. 18	Section 2.0, ACRONYMS pages 2-1 to 2-2, Rev. 21
Section 5.0, EMERGENCY CONDITIONS pages 5-1 to 5-7	Section 5.0, EMERGENCY CONDITIONS pages 5-1 to 5-6, Rev. 21
Section 6.0, ORGANIZATIONAL CONTROL OF EMERGENCIES pages 6-1 to 6-20	Section 6.0, ORGANIZATIONAL CONTROL OF EMERGENCIES pages 6-1 to 6-19, Rev. 21
Figure 6.1, SSES ORGANIZATION 1 page, Rev. 18	Figure 6.1, SSES ORGANIZATION 1 page, Rev. 21
Figure 6.3, TSC ORGANIZATION 1 page, Rev. 15	Figure 6.3, TSC ORGANIZATION 1 page, Rev. 21

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Figure 6.5, GENERAL OFFICE  
EMERGENCY ORGANIZATION  
1 page, Rev. 15

Figure 6.5, GENERAL OFFICE  
EMERGENCY ORGANIZATION  
1 page, Rev. 21

Section 7.0, EMERGENCY MEASURES  
pages 7-1 to 7-8

Section 7.0, EMERGENCY MEASURES  
pages 7-1 to 7-7, Rev. 21

Section 8.0, EMERGENCY FACILITIES  
AND EQUIPMENT  
pages 8-1 to 8-20

Section 8.0, EMERGENCY FACILITIES  
AND EQUIPMENT  
pages 8-1 to 8-19, Rev. 21

Section 9.0, MAINTAINING  
EMERGENCY PREPAREDNESS  
pages 9-1 to 9-4

Section 9.0, MAINTAINING  
EMERGENCY PREPAREDNESS  
pages 9-1 to 9-5, Rev. 21

Table 9.1, TRAINING OF  
SUSQUEHANNA SES EMERGENCY  
RESPONSE PERSONNEL  
pages 1 and 2

Table 9.1, TRAINING OF  
SUSQUEHANNA SES EMERGENCY  
RESPONSE PERSONNEL  
pages 1 and 2, Rev. 21

Appendix C, SSES EMERGENCY PLAN  
POSITION SPECIFIC PROCEDURES  
pages C-1 to C-3

Appendix C, SSES EMERGENCY PLAN  
POSITION SPECIFIC PROCEDURES  
pages C-1 to C-3, Rev. 21

Appendix D, EQUIPMENT  
INFORMATION LISTING  
pages D-1 to D-16

Appendix D, EQUIPMENT  
INFORMATION LISTING  
pages D-1 to D-17, Rev. 21

Appendix E, Corporate Policy Statement  
E-1 and 1 page letter dated 5/93

Appendix E, Corporate Policy Statement  
E-1 and 1 page letter dated 4/94