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 AUTH. NAME: CURTIS, V. H. AUTHORITY AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards replacement training programs for non-licensed & licensed operators & mitigating core damage training program. Supplements Section 13.2 of FSAR & will be included in next revision.

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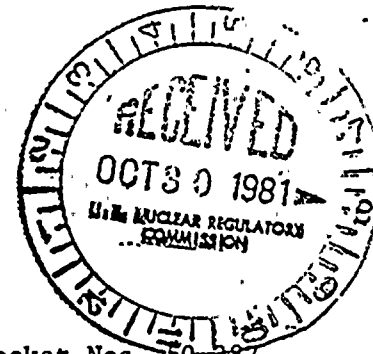


Pennsylvania Power & Light Company

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Norman W. Curtis
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October 27, 1981



Docket Nos. 50-387
50-388

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Project Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
REQUALIFICATION PROGRAM
ER 100450 FILE 835-04
PLA-949

Dear Mr. Schwencer:

Attached for your review are Pennsylvania Power & Light Company's Replacement Training Programs for non-licensed and licensed operators (Attachment 1) and the Mitigation of Core Damage Training Program (Attachment 2). These program outlines supplement the FSAR Section 13.2 and will be included in the next FSAR revision of that section.

This submittal completes PP&L's action items generated by the review of Section 13.2 of the FSAR. If you require additional information or clarification, please call.

Very truly yours,

N. W. Curtis *BWK*

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

CTC/mks

Attachment

cc: R. Perch - NRC
Paul Collins - NRC

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REPLACEMENT TRAINING PROGRAMS FOR
OPERATIONS SECTION POSITIONS AT SUSQUEHANNA SES

I. Non-Licensed Auxiliary System Operator

A. General Plant Orientation

General Employee Training
Fire Brigade
Confined Space Entry
Permit and Tag
Respirator Training
CPR and First Aid

B. Plant Systems Training

C. Basic Power Plant Fundamentals

Water Chemistry and Treatment
Lubrication and Bearings
Basic Electricity and Electrical Science
Valves and pumps
Radiation Detection and Protection
Basic Mathematics
Heat Transfer and Fluid Flow
Classical physics
Atomic and Nuclear Physics
Physical Processes
Piping Systems and components
Instrumentation and measurements
Principles of diesel engines
Principles of Steam Turbine
Principles of air compression

D. Operations Section Orientation

E. Qualification card completion and on-the-job training

We anticipate the formal training will take approximately 12 weeks to complete and the on-the-job training and qualification card will require an additional six months.

II. Non-Licensed Nuclear Plant Operator

A. Susquehanna Systems Technology

B. Power Plant Fundamentals

Instrumentation and control
Thermodynamics
Advanced Chemistry and Radiochemistry
Materials and Metallurgy
Reactor Theory and Safety
Intermediate Mathematics

- C. Operations and Section Orientation
- D. Qualification card completion and on-the-job training

We expect that this training will build on the training previously received. The formal training should take approximately 11 weeks to complete and the qualification card will require an additional six months.

III. Licensed Plant Control Operator (RO)

- A. Advanced Fundamentals

- Mathematics
- Reactor Theory
- Advanced Chemistry
- Advanced Health Physics
- Heat Transfer and Fluid Flow
- Accident Prevention and Mitigation

- B. Transient Analysis
- C. Susquehanna Systems Operations and Technology
- D. Simulator Training
- E. Control Room On-The-Job Training
- F. Qualification card completion

We expect that this training will build upon training previously received. It is expected that this training will take approximately 900 hours to complete.

IV. Senior Control Room Operator (SRO)

- A. Leadership, communications, and Decision Making
- B. Advanced Transient Analysis: Accident recognition and mitigation
- C. Simulator Training
- D. On-The-Job Training

We anticipate that this training will build upon the training previously received as non-licensed and licensed operators. This training should take approximately six weeks to complete.

V. Shift Supervisor (SRO)

- A. Communication skills
- B. Behavior Sciences
- C. Leadership and Motivation

D. Administrative and Management Requirements

E. Advanced Emergency Plan Implementation

This training should build upon previous training received. It is anticipated that this training will take approximately four weeks to complete.

MITIGATING CORE DAMAGE
TRAINING PROGRAM

PP&L will comply with the intent of the training outlined in the INPO Guidelines for Training to Recognize and Mitigate the Consequences of Core Damage, Rev. 1, 1/15/81. The guideline specifies certain quantity of hours spent on various subjects for certain positions on the Plant Staff. However, we feel that a comprehensive training program should address these subjects, but to call out a particular aspect and call it "Mitigation Training" is not necessarily the proper way to deliver the training. PP&L intends to distribute the suggested training throughout the programs for the designated positions so that it is an integrated part of appropriate topics. For example, the licensed positions will receive training on Section 4.1 "Core Cooling Mechanisms" in both the classroom and on the simulator while discussing thermal hydraulics, normal startup and shutdown, cooling when isolated, and cooling during accidents. The other positions will be similarly trained.