Original concurrence to be returned to
FBrown, SS-396, 74205

to DCS

Distribution: Category X
Docket No. 30-19311 (50-387/388)

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PLoysen	

JAN - 6 1983

Docket No. 30-19311

Pennsylvania Power & Light Company
ATTN: Mr. N. W. Curtis, Vice-President
Engineering & Construction-Nuclear
Two North Ninth Street
Allentown, PA 18101

Gentlemen:

We are reviewing your September 23, 1982 revised license application, pursuant to 10 CFR Part 30, for contingency storage of LLRW generated from operation of the Susquehanna Steam Electric Station.

Based on our review of this submittal, several matters were found that require clarification and additional information necessary to continue our safety and environmental reviews. As a result, we have prepared a list of questions and request for additional information that is enclosed.

The enclosed questions and request for additional information have been discussed with Tom Gangloff in a phone conversation on December 20, 1982, at which time he provided informal responses. The purpose of this letter is to formalize those questions and request for additional information as well as your responses to them.

If you have any questions or wish to meet to discuss these items, please contact Fritz Sturz (301-427-4205).

Sincerely,

Original signed by
Leland C. Rouse

Leland C. Rouse, Chief
Advanced Fuel and Spent Fuel
Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure:
List of Questions and Request
for Additional Information

cc: Tom Gangloff

OFFICE	FCAF	FCAF	FCAF				
SURNAME	FSturz:ss	PLoysen	LCRouse				
DATE	1/4/83	1/5/83	1/5/83				

LIST OF QUESTIONS AND REQUEST FOR ADDITIONAL INFORMATION

I Fire Detection/Protection Systems

A. There appears to be conflicting information about the fire detection and protection system provided in various sections and attachments to the revised application: (1) Attachment 3, Section 2.9.4, Page 10, indicates that "the entire structure will be equipped with a dry pipe sprinkler....". Yet, (2) Attachment 1, Section XI, Section 4.9, Page 38, indicates that only the interim trash storage vault, final trash storage vault, truck bay and control room will have fire detection systems and dry pipe sprinkler systems. Further, (3) in Attachment 1, Section VIII, Subsections 2 and 3, Page 12, it is indicated that the interim and final trash storage vault will have infra-red smoke detector systems and that the control room will have three photoelectric smoke detectors. No mention is made of the number and type of smoke detectors for the truck bay.

Please clarify exactly which areas of the LLRW Holding Facility will be covered by the dry pipe sprinkler system. Also, please clarify the number and types of smoke detectors for each area of the holding facility.

B. In addition to fire hydrants and hose houses around the building perimeter, is the LLRW Holding Facility equipped with any other fire fighting apparatus, such as fire extinguishers? If so please provide information about the numbers and locations of such equipment.

C. Please verify that fire alarms originating in the LLRW Holding Facility are annunciated at both the holding facility control room and the SSES reactor control room.

D. There is no discussion about what actions will be taken in response to fire alarm signals at the LLRW Holding Facility. Will the SSES fire brigade respond? The local fire department? Will the response to fire alarms at the Holding Facility be incorporated into operational and administrative procedures existing for the SSES? Please describe the actions to be taken in response to fire alarm signals at the LLRW Holding Facility.

II Assumptions used to Assess an Accidental Fire

In addition to those assumptions listed in Attachment 3, Table 3, Page 24, please provide more information concerning your assumptions for assessing the impact of an accidental fire in the LLRW Holding Facility. Additional information is required about the following:

(1) What was the assumed duration of release from the fire?

(2) What was the assumed duration of exposure to an individual at the designated locations?

(3) What was the breathing rate assumed in the assessment?

(4) Did you assume any deposition or decay of radionuclides in the plume?

(5) What were the Dose Conversion Factors used in the assessment? (A reference is sufficient.)

III Crane Loading and Unloading System

A. The description of crane operations in Attachment 1, Section V, Pages 7-8, is somewhat confusing with respect to speed and direction of various components of the crane system. Please clarify the translational and lateral speeds of the two hoists. At what speeds can objects be raised and lowered? A drawing which identifies the major components would be helpful.

B. In the event of loss of power the only capability mentioned for returning a radwaste liner held by the crane to a safe position is to release the crane brakes and use a winch to return the crane to the truck bay. What capability exists for raising or lowering a radwaste liner during loss of power?

IV Shield Bell System

What is the lifting capacity of the electric motor driven hoist for each shield bell discussed in Attachment 1, Section V, Page 10?

V Purpose and Need

The discussion of the purpose and need for the LLRW Holding Facility (Attachment 2, Section 2.0) would benefit by including your current waste disposal practices. Please provide historical information about monthly allocations at waste disposal sites, and the availability of resources to transport and dispose of your wastes.