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BEFORE THE
UNITED STATES NUCLEAR REGULATORY COMMISSION

In the matter of
PENNSYLVANIA POWER & LIGHT COMPANY
And
ALLEGHENY ELECTRIC COOPERATIVE, INC.

Application for a Byproduct Material License
Pursuant to 10 CFR 30 for the Interim Storage of
Low-level Radioactive Waste

Pursuant to the Atomic Energy Act of 1954, as amended, and the Rules and Regulations issued thereunder, Pennsylvania Power & Light Company and Allegheny Electric Cooperative, Inc. (hereinafter referred to as "Applicants") hereby apply to the United States Nuclear Regulatory Commission for a Byproduct Material License pursuant to 10 CFR 30 for the interim storage of low-level radioactive waste (LLRW). In support of this application, Applicants state as follows:

1. Name of Applicants

Pennsylvania Power & Light Company (hereinafter "PP&L") and Allegheny Electric Cooperative, Inc. (hereinafter "AE")

2. Address of Applicants

PP&L: Two North Ninth Street, Allentown, Pennsylvania 18101
AE: 212 Locust Street, Harrisburg, Pennsylvania 17101

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3. Purpose and Need

Applicants currently own and are constructing the Susquehanna Steam Electric Station (Susquehanna SES), pursuant to Construction Permit Nos. CPPR-101 and CPPR-102. The Susquehanna SES is located about eight kilometers (5 miles) northeast of Berwick, Pennsylvania, and consists of two 1050 MWe boiling water reactor (BWR) units. Applications for operating licenses for these units were docketed July 20, 1978. (Docket Nos. 50-387 and 50-388)

In view of current uncertainties over the near term availability of disposal sites, Applicants seek authorization to store on the Susquehanna SES site LLRW in a Low-Level Radioactive Waste Holding Facility (LLRWHF). The facility will have the capacity to temporarily store LLRW to be generated from up to four reactor-years per unit of operation. Permanent retention of these wastes in this facility is not planned. The waste to be temporarily stored is only that LLRW incidental to the operation of the Susquehanna SES. Acceptance of any off-site generated wastes for storage in this facility is not contemplated.

4. Description of Material to be Stored

The LLRWHF is designed to store dry, active waste and dewatered, solidified (cement) waste generated by the Susquehanna SES. The dry, active waste will include contaminated paper, trash, clothing, small equipment and filters. The solidified waste will include wet, dewatered waste in the form of evaporator bottoms, resins, and sludges that have been immobilized in cement and contain less than 0.5 percent free standing water. The facility may also be used to temporarily store large pieces of contaminated plant equipment.

5. Environmental Assessment

Impacts to the general public from storage of LLRW in the LLRWHF will be substantially less than applicable limits and insignificant in comparison with natural background radiation doses. An environmental assessment of the operation of the LLRWHF at the Susquehanna SES site is provided in Attachment 1.

6. Safety Analysis

The control or mitigation of the consequences of postulated failures or accidents arising out of storage of LLRW in the LLRWHF is discussed in the attached safety analysis of the operation of the LLRWHF (Attachment 2).

7. Radiation Protection

Radiation control and protection for operation of the LLRWHF will be maintained in accordance with Susquehanna SES Plant Administrative and Operating Procedures. The radiation protection program is described in detail in the attached Section 12.5 of the Susquehanna SES Final Safety Analysis Report (FSAR) (Docket Nos. 50-387, July 20, 1978). (Attachment 3). The qualification, training and experience of the Radiation Protection Officer and his alternates are provided in Attachment 4.

Individuals working with radioactive materials are to be designated by the Radiation Protection Officer or his alternate and shall, as a minimum, have experience as gained by successfully completing the Radiation Protection Training program as outlined in Attachment 5.

8. Quality Assurance

To assure the LLRWHF will perform its intended function, the design, procurement, construction, installation, inspection and testing of this facility will be controlled by a Quality Assurance Plan. Attachment 6 provides a table of systems, equipment and structures of the LLRWHF to which the Quality Assurance Plan is applied. Sufficient records will be identifiable and retrievable to furnish evidence that the Quality Assurance Plan is implemented.

9. Operations

Attachment 7 identifies appropriate operational activities which will be controlled by procedures during the operation of the LLRWHF.

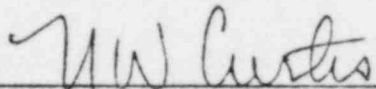
Sufficient records will be identifiable and retrievable to furnish evidence that the operational procedures have been implemented.

10. Certificate

Applicants certify that this Application is prepared in conformity with Title 10 Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of their knowledge and belief.

PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE

By:

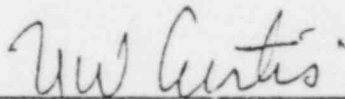


Norman W. Curtis
Vice President,

Engineering & Construction-Nuclear
Pennsylvania Power & Light Company

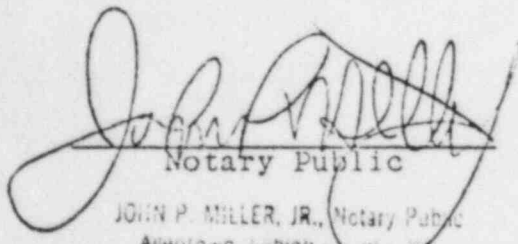
COMMONWEALTH OF PENNSYLVANIA)
: SS
COUNTY OF LEHIGH)

I, NORMAN W. CURTIS, being duly sworn according to law, state that I am Vice President, Engineering & Construction-Nuclear of Pennsylvania Power & Light Company and that the facts set forth in the foregoing Application are true and correct to the best of my knowledge, information and belief.



Norman W. Curtis
Vice President,
Engineering & Construction-
Nuclear

Sworn to and subscribed
before me this 5TH day
of August, 1981.



Notary Public
JOHN P. MILLER, JR., Notary Public
Allentown, Lehigh County, PA
My Commission Expires May 20, 1985

TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 PHONE: (215) 770-5151

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NORMAN W. CURTIS
Vice President-Engineering & Construction-Nuclear
770-5381

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August 5, 1981

Director
Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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SUSQUEHANNA STEAM ELECTRIC STATION
LOW LEVEL RADIOACTIVE WASTE HOLDING FACILITY
10CFR30 - LICENSE APPLICATION
ER 101013 FILE-10
PLX-18

Dear Sir:

Attached please find two (2) copies of a 10CFR30 application filed by Pennsylvania Power and Light Company and Allegheny Electric Cooperative Incorporated. This application seeks authorization to store low level radioactive wastes generated from the operation of the Susquehanna Steam Electric Station in an on-site Low Level Radioactive Waste Holding Facility.

This application is exempt from licensing fees per 10CFR 170.11(a)(3).

Any questions concerning this application should be forwarded to Mr. Thomas E. Gangloff, (215) 770-5486 of the Nuclear Licensing Department.

Very truly yours,

NW Curtis

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

TEG/mks

Attachment

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INSPECTION AND ENFORCEMENT

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PENNSYLVANIA POWER & LIGHT COMPANY

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