

BEFORE THE  
UNITED STATES NUCLEAR REGULATORY COMMISSION

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In the Matter of

:

PENNSYLVANIA POWER &  
LIGHT COMPANY

:

Docket Nos. 50-387 and 50-388

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AMENDMENT NO. 48

APPLICATION FOR CLASS 103

OPERATING LICENSES FOR THE SUSQUEHANNA  
STEAM ELECTRIC STATION

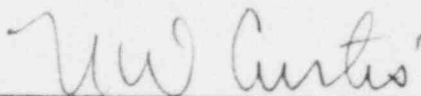
UNITS NO. 1 AND NO. 2

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Applicant, Pennsylvania Power & Light Company, hereby files Amendment No. 48 to its Operating License Application dated July 31, 1978.

This amendment contains Revision 2 to the Susquehanna SES License Application.

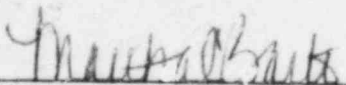
PENNSYLVANIA POWER & LIGHT COMPANY BY:



N. W. Curtis

V. P. Engineering and Construction-Nuclear

Sworn to and subscribed before me  
this 8th of June, 1982.



Notary Public

MARTHA C. BARTO, Notary Public

Allentown, Lehigh County, Pa.

My Commission Expires Jan. 13, 1986

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Sworn to and subscribed before me  
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Notary Public

MARTINA C. CANTO, Notary Public

Allentown, Lehigh County, Pa.

My Commission Expires Jan. 13, 1985

AMENDMENTS TO  
SUSQUEHANNA SES LICENSE APPLICATION

<u>AMENDMENT</u>	<u>CONTENT</u>
1	Revision No. 1-FSAR
2	Revision No. 2-FSAR
3	Revision No. 3-FSAR
4	Revision No. 1-ER-OL
5	Revision No. 4-FSAR
6	Revision No. B-Security Plan
7	Revision No. 5-FSAR
8	Revision No. 6-FSAR
9	Revision No. 7-FSAR
10	Revision No. 8-FSAR (Proprietary)
11	Revision No. 9-FSAR
12	Revision No. 2-ER-OL
13	Revision No. 10-FSAR
14	Revision No. 11-FSAR
15	Revision No. C-Security Plan
16	Revision No. 12-FSAR
17	Revision No. D-Security Plan
18	Revision No. 13-FSAR
19	Revision No. 1-Emergency Plan
20	Revision No. 14-FSAR
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25	Revision No. 2-Emergency Plan
26	Revision No. 18-FSAR
27	Revision No. 19-FSAR
28	Revision No. 3-Emergency Plan
29	Revision No. 20-FSAR
30	Revision No. 21-FSAR
31	Revision No. 22-FSAR
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36	Revision H - Security Plan
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38	Revision 25 - FSAR
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43	Revision 29 - FSAR
44	Revision I - Security Plan
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46	Revision K - Security Plan
47	Revision 30 - FSAR
48	Revision 2 - License Application

LICENSE APPLICATION REVISIONS

The attached Revision 2 pages revise the Susquehanna Steam Electric Station License Application.

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SSES-FSAR  
BEFORE THE  
UNITED STATES NUCLEAR REGULATORY COMMISSION

APPLICATION OF  
PENNSYLVANIA POWER & LIGHT COMPANY  
AND  
ALLEGHENY ELECTRIC COOPERATIVE, INC.  
FOR  
CLASS 103 OPERATING LICENSES FOR SUSQUEHANNA  
STEAM ELECTRIC STATION UNITS 1 AND 2

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 Class 103 Operating Licenses for two Utilization Facilities to be located in Salem Township, Luzerne County, Pennsylvania, hereinafter referred to as Susquehanna SES. In support of this application, Applicants state as follows:

1. Name of Applicants:

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

2. Address of Applicants:

PL: Two North Ninth Street Allentown, Pennsylvania 18101

AE: 212 Locust Street, Harrisburg, Pennsylvania 17101

3. Description of Business of PL:

PL is a corporation which was organized on June 4, 1920, under the laws of the Commonwealth of Pennsylvania, to exist perpetually. PL is an operating public utility engaged in the business of purchasing, generating, transmitting, distributing and selling electricity to the customers served by PL in central eastern Pennsylvania. PL also supplies steam heating service in Harrisburg, Pennsylvania. PL's principal place of business is Allentown, Pennsylvania.

PL is not owned, controlled or dominated by an alien, a foreign corporation or a foreign government.

The names and addresses of PL's directors and principal officers, all of whom are citizens of the United States, are as follows:

DIRECTORS

NAME	ADDRESS
Clifford L. Alexander, Jr.	Alexander & Associates, Inc. 400 C Street, NE Washington, DC 20002
Rose Well Brayton	Woolrich Woolen Mills, Inc. Woolrich, PA 17779
Robert K. Campbell, President and Chief Executive Officer	Pennsylvania Power & Light Company Two North Ninth St. Allentown, PA 18101
Dr. Edgar L. Dessen	Northeastern Building Suite 214-219 8 W. Broad St. Hazleton, PA 18201
Robert R. Fortune Executive Vice President, Financial	Pennsylvania Power & Light Company Two North Ninth St. Allentown, PA 18101
Frances R. Hesselbein, National Executive Director	Girl Scouts of the United States of America 830 Third Avenue New York, NY 10022
Harry A. Jensen President and Chief Executive Officer	Armstrong World Industries, Inc. P. O. Box 3001 Lancaster, PA 18101
John T. Kauffman, Executive Vice President, Operations	Pennsylvania Power & Light Co. Two North Ninth St. Allentown, PA 18101
Dr. W. Deming Lewis, President	Lehigh University President's Office Bethlehem, PA 18015
Harold S. Mohler, Chairman of the Board	Hershey Foods Corporation Corporate Headquarters 100 Mansion Road East Hewershey, PA 17033
Dr. Ralph W. Richardson, Jr.	100 Rainlo Street State College, PA 16801
Norman Robertson, Senior Vice President & Chief Economist	Mellon Bank, N.A. Mellon Square Pittsburgh, PA 15230
David L. Tressler, President and Chief Executive Officer	Northeastern Bank of PA Penn Avenue & Spruce Streets Scranton, PA 18503

PRINCIPAL OFFICERSNAMEADDRESS

Robert K. Campbell,  
President and Chief  
Executive Officer

Two North Ninth St.  
Allentown, PA 18101

Robert R. Fortune,  
Executive Vice President,  
Financial

Two North Ninth St.  
Allentown, PA 18101

John T. Kauffman,  
Executive Vice President,  
Operations

Two North Ninth St.  
Allentown, PA 18101

Jack R. Calhoun,  
Senior Vice President,  
Nuclear

Two North Ninth St.  
Allentown, PA 18101

Harley L. Collins,  
Senior Vice President,  
System Power & Engineering

Two North Ninth St.  
Allentown, PA 18101

Merlin F. Hertzog,  
Senior Vice President,  
Human Resource &  
Development

Two North Ninth St.  
Allentown, PA 18101

Leon L. Nonemaker  
Senior Vice President,  
Division Operations

Two North Ninth St.  
Allentown, PA 18101

Gennaro D. Caliendo  
Vice President and Chief  
Council, Regulatory  
Affairs

Two North Ninth St.  
Allentown, PA 18101

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

Two North Ninth St.  
Allentown, PA 18101

Charles E. Fugua,  
Vice President, Susquehanna  
Division

P. O. Box 158  
Montoursville, PA 17754

Charles J. Green,  
Vice President  
Harrisburg Division

1801 Brookwood St.,  
Harrisburg, PA 17104

Bruce D. Kenyon,  
Vice President,  
Nuclear Operations

Two North Ninth St.  
Allentown, PA 18101



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Carl R. Maio  
Vice President,  
Lehigh Division

R. D. No. 2  
Allentown, PA 18106

Grayson E. McNair,  
Vice President,  
Consumer & Community  
Services

Two North Ninth St.  
Allentown, PA 18101

Edward M. Nagel,  
Vice President,  
General Council &  
Secretary

Two North Ninth St.  
Allentown, PA 18101

Herbert D. Nash, Jr.  
Vice President,  
Central Division

344 South Poplar St.  
Hazleton, PA 18201

John E. Roth  
Vice President,  
Northern Division

600 Larch St.  
Scranton, PA 18501

Charles E. Russoli  
Vice President &  
Treasurer

Two North Ninth St.  
Allentown, PA 18101

Edward H. Seidler,  
Vice President,  
Engineering &  
Construction, SP&E

Two North Ninth St.  
Allentown, PA 18101

Brentwood S. Shunk  
Vice President,  
Lancaster Division

1701 Manheim Pike  
Lancaster, PA 17601

George F. Vanderslice,  
Vice President &  
Comptroller

Two North Ninth St.  
Allentown, PA 18101

4. Description of Business of AE:

AE is a non-profit federated cooperative association with fourteen member, distribution cooperatives as listed in Appendix A. Thirteen of its members serve rural areas in Pennsylvania and one serves rural areas in New Jersey. AE is the wholesale power supplier for each of its 14 member distribution cooperatives.

AE's principal place of business is Harrisburg, Pennsylvania.

AE is a non-profit electric cooperative corporation duly organized, validly existing and in good standing under the Electric Cooperative Corporation Act. The Act of June 21, 1937, P.L. 1969, 1, et. seq. 15 P.S. 12402 et. seq. and other applicable laws of the Commonwealth of Pennsylvania

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and is not owned, controlled or dominated by an alien, foreign corporation or a foreign government.

The names and business addresses of AE's directors and principal officers, all of whom are citizens of the United States, are as follows:

DIRECTORS

<u>NAME</u>	<u>ADDRESS</u>
John Drake	R. D. No. 1 Sayre, PA 18840
Donald Streams	R. D. No. 3 Blairsville, PA 15717
Robert Sterrett	R. D. No. 3 Grove City, PA 16127
John E. Anstadt	Proctor Star Route Williamsport, PA 17701
Myron Ludwick	R. D. No. 3 Sugar Grove, PA 16350
Harris Horn	R. D. No. 2 Dover, PA 17315
Dennis Shaffer	Crystal Springs, PA 15536
Benjamin H. Slick	Roaring Spring, PA 16673
A. D. Stainbrook	R. D. No. 3 Meadville, PA 16335
James L. Henderson	P. O. Box 117 Highland Lakes, NJ 07422
Lloyd L. Dugan, Sr.	P. O. Box 182 Galeton, PA 16922
Robert E. Leonard	P. O. Box 325 Frenchville, PA 16836
Hiram W. Walker	R. D. No. 2 Meyersdale, PA 15501
Don Hill	Warfordsburg, PA 17279
Harold Hines	R. D. No. 1 Cohranton, PA 16314

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Principal Officers

<u>Name</u>	<u>Address</u>
James L. Henderson President	P. O. Box 117 Highland Lakes, NJ 07422
Myron Ludwick Treasurer	P. D. No. 3 Sugar Grove, PA 16350
John E. Anstadt Secretary	Proctor Star Route Williamsport, PA 17701
Robert Sterrett	P. D. No. 3 Grove City, PA 16127

5. Participation of Applicants

PL and AE will participate in the operation of Susquehanna SES, Units 1 and 2, under the following arrangements:

The Applicants own Units 1 and 2 as tenants in common, with PL owning an undivided ninety percent (90%) interest and AE owning an undivided ten percent (10%) interest therein.

PL will have absolute authority and discretion for the management, operation and maintenance of Susquehanna SES, and is authorized to act on AE's behalf in such capacities, including the pursuit of required authorizations, permits and licenses from the Nuclear Regulatory Commission.

In almost all circumstances AE will pay 10% of all operating costs of Susquehanna SES and will receive 10% of the capacity and energy of Susquehanna SES.

AE will pay for the operation and maintenance of, and will own a 100% interest in 42.3 miles of the Sunbury-Susquehanna No. 2 500 KV transmission line erected on right of way parcels 7 through 188, inclusive, and a one-third undivided interest in the right of way applicable to these parcels. PL will operate and maintain this line for the account of AE. PL will have the complete and free use of this line so long as either unit of Susquehanna SES is in commercial operation. PL shall provide to AE a transmission service for AE's power produced by Susquehanna SES from Susquehanna SES to PL's points of interconnection with other utilities with which AE has arrangements for the delivery of such power for AE.

6. Class and Period of Licenses Applied for and Use to Which Facilities Will Be Put

The Licenses hereby applied for are Class 103 Operating Licenses as defined by 10 CFR 50.22. They are requested for a period of forty (40) years from the date of issuance of the operating licenses.

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The Applicants also apply for such additional source, byproduct and special nuclear material licenses as may be necessary or appropriate to the possession, use and operation of the licensed facilities.

The facilities will be used as a part of PL's and all of AE's electric utility plant for the generation of electric power. The facilities will consist of two complete nuclear power plants each producing approximately 1050 MWE net of electrical power. Each unit will consist of a nuclear steam

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The Sullivan Review  
Water Street  
Dushore, PA 18614

Suburban Trends  
5 Boonton Avenue  
Butler, NJ 07405

Middletown Times Herald  
Record  
40 Mulberry Street  
Middletown, NY 10940

Free Press Courier  
129 Main Street  
Westfield, PA 16950

Leader Vindicator  
435 Broad Street  
New Bethlehem, PA 16242

Forest Press  
Elm Street  
Tionesta, PA 18657

Tunkhannock New Age  
Tunkhannock, PA 18657

The Albion News  
16 Market Street  
Albion, PA 16401

Canneaut Lake Breeze  
138 Erie Street  
Linesville, PA 16424

Conneautville Courier  
Main Street  
Conneautville, PA 16406

The Linesville Herald  
138 Erie Street  
Linesville, PA 16424

Canton Independent-Sentinel  
18 Truly Street  
Canton, PA 17724

Elkland Journal  
221 East River Street  
Elkland, PA 16920

Sunday Patriot News  
P. O. Box 481  
York, PA 17401

Valley Times Star  
51 S. Big Spring Avenue  
Newville, PA 17291

Meyersdale Republican  
301 North Street  
Meyersdale, PA 15552

The Clarion News  
645 Main Street  
Clarion, PA 16214

Jeffersonian Democrat  
Main Street  
Brookville, PA 15825

Reynoldsville Star  
Reynoldsville, PA 15851

Brockway Record  
Brockway, PA 15853

Ridgway Record  
Ridgway, PA 15853

Fulton County Democate  
Lincoln Way East  
McConnellsburg, PA 17233

The Sellinsgrove Time Tribune  
103 South Market Street  
Muncy, PA 17870

Oakland Republican  
Oakland, MD 04963

Johnstown Tribune Democate  
Somerset Bureau of  
Johnstown  
113 South Center Avenue  
Somerset, PA 15501

Progress News  
Emblenton, PA 16373

Troy Gazette-Register  
11 Canton Street  
Troy, PA 16947

Mountain Top Eagle  
Mt. View Bldg.  
P. O. Box 10  
Mountain Top, PA 18707

Reporter-Arcus  
Log Maple Street  
Port Allegany, PA 16743

The Weatherly Herald  
31 Wilbur Street  
Weatherly, PA 18255

The Sunday Dispatch  
109 New Street  
Pittston, PA 18641

The Union County Journal  
Box 337  
Lewisburg, PA 17837

The White Haven Journal  
211 Main Street  
White Haven, PA 18661

The Abington Journal  
P. O. Box 117  
Clark Summit, PA 18411

The Luminary  
113 South Main Street  
Muncy, PA 17756

10. Communication:

PL will be solely responsible for communications with the Nuclear Regulatory Commission related to Susquehanna SES. Accordingly, all communications to PL and AE pertaining to Susquehanna SES should be sent to:

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

Copies of all such communications should be sent to:

Edward M. Nagel, Esquire  
Vice President, General Counsel and Secretary  
Pennsylvania Power & Light Company  
Two North Ninth Street  
Allentown, PA 18101

Jay E. Silberg, Esquire  
Shaw, Pittman, Potts & Trowbridge  
1800 M. Street, N.W.  
Washington, DC 20036

William E. Barberich  
Manager-Nuclear Licensing  
Pennsylvania Power & Light Company  
Two North Ninth Street  
Allentown, PA 18101

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PENNSYLVANIA POWER & LIGHT COMPANY

by Norman W. Curtis

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



APPENDIX A

MEMBERS OF Allegheny Electric Cooperative

Adams Electric Cooperative, Inc.  
P. O. Box 130  
Gettysburg, PA 17325

Bedford Rural Electric Cooperative, Inc.  
P. O. Box 335  
Bedford, PA 15522

Central Electric Cooperative, Inc.  
P. O. Box 329  
Parker, PA 16049

Claverack Rural Electric Cooperative, Inc.  
Towanda, PA 16848

New Enterprise Rural Electric Cooperative, Inc.  
New Enterprise, PA 16664

Northwestern Rural Electric Cooperative  
Association, Inc.  
R. D. No. 1  
Cambridge Springs, PA 16403

Valley Rural Electric Cooperative, Inc.  
P. O. Box 477  
Huntingdon, PA 16652

Somerset Rural Electric Co-op, Inc.  
127 E. Fairview Street  
Somerset, PA 15501

Southwest Central Rural Electric Cooperative, Inc.  
P. O. Box 70, Airport Rd., R. D. No. 4  
Indiana, PA 15701

Sullivan County Rural Electric Cooperative, Inc.  
Forksville, PA 16616

Sussex Rural Electric Cooperative  
22 E. Main Street  
Sussex, NJ 07461

Tri-County Rural Electric Cooperative, Inc.  
22 N. Main Street  
Mansfield, PA 16933

United Electric Cooperative, Inc.  
R. D. No. 2, P. O. Box 688  
DuBois, PA 15801