

R. R. Sgarro
Director - Regulatory Affairs

PPL Bell Bend, LLC
Two North Ninth Street
Allentown, PA18101-1179
Tel. 610.774.7552 Fax 610.774.2618
rrsgarro@pplweb.com



February 13, 2013

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC20555-0001

**BELL BEND NUCLEAR POWER PLANT
INFORMATION ON LANDFILL CLOSURE
BNP-2013-025 Docket No. 52-039**

The purpose of this letter is to respond to the NRC Project Manager's request for information about the current status of a landfill cited in Section 9.3.2.1.1 of the Bell Bend COLA, Part 3, Environmental Report. The following documents are enclosed in response to this request:

1. Pennsylvania Power & Light Application for Permit for Solid Waste Disposal and/or Processing Facilities to the Pennsylvania Department of Environmental Resources, Bureau of Solid Waste Management, dated November 6, 1984. In addition to other information, this application documents the waste types in question and the restoration plan upon closure of the site.
2. PPL Susquehanna, LLC Letter PLE-0023393, R. L. Anderson (PPL) to R. Ducceschi (PA DEP), "Solid Waste Disposal Site No. 3 I.D. No. 101363, Final Closure", dated October 13, 2003. This letter provides PPL's request for final closure of this site, including evidence that closure plans had been completed in accordance with the PA DEP approved design.
3. PA DEP Letter, R. C. Wallace (PA DEP) to R. L. Anderson (PPL), dated December 2, 2003. This letter provides Final Closure Certification for the site in question.


This landfill has been closed since 2003 and will not be used as part of the Bell Bend project.

Should you have questions, please contact the undersigned at 610.774.7552.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on February 13, 2013.

Respectfully,


Rocco R. Sgarro

RRS/kw

Enclosures: As stated

D102
new

cc: w/ Enclosures

Ms. Laura Quinn-Willingham
Senior Project Manager
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

w/o Enclosures

Mr. William Dean
Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
2100 Renaissance Blvd., Suite 100
King of Prussia, PA 19406-2713

Enclosure 1

Pennsylvania Power & Light Application for Permit for Solid Waste Disposal and/or Processing Facilities to the Pennsylvania Department of Environmental Resources, Bureau of Solid Waste Management, dated November 6, 1984.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

Date Prepared:

11/6/84

APPLICATION FOR PERMIT FOR SOLID WASTE DISPOSAL
and/or PROCESSING FACILITIESDEPARTMENT USE ONLY
ID #Form No. 1
PHASE NO. 1

1. Applicant (Name and Address)

Pennsylvania Power & Light Co.
Two North Ninth Street
Allentown, PA 18101

Telephone Number: (215) 770-5151

2. Application for: New Facility ☒

Permit Modification

Module 1 Waste Approval ☐Additional Acreage ☐Design/Operational Change ☐New Permittee/Operator ☐

3. Property Owner(s) (Name and Address)

Pennsylvania Power & Light Co.
Two North Ninth Street
Allentown, PA 18101

Telephone Number: (215) 770-5151

4. Name of Facility Solid Waste Disposal Site #3Address of Facility Susquehanna Steam Electric StationP.O. Box 467, U.S. Rt. 11

(Include Access Road Name and Legislative Number)

Berwick, PA Zip 18603City-Borough-Township Salem TownshipCounty Luzerne

5. U.S.G.S. Map Location of Facility

7.5' Map Name Berwick, Pa.Map Number N4100-W7607.5/7.5

Center of Facility:

LATITUDE 41° 05' 37"LONGITUDE 76° 09' 17"

6. Type of Operation:

Class I Construction & DemolitionWaste Disposal Site

7. General Information:

Number of New Acres Proposed for Permit

11114.6151

Total Acres of the Property

111210.0101

Number of Previously Permitted Acres

1111101

8. Documents Prepared By: (Name and Address)

Jerome S. Fields, Sr. Env. Scientist-Nuclear
Pennsylvania Power & Light Co.
Two North Ninth Street, A2-4
Allentown, PA 18101
Telephone Number: (215) 770-7889

9. AFFIDAVIT:

COMMONWEALTH/STATE OF PennsylvaniaCOUNTY OF LehighSworn and subscribed to before me this 14thday of November19 84

NOTARY PUBLIC

My Commission Expires:

MARtha C. BARTO, Notary Public
Allentown, Lehigh County, Pa.
My Commission Expires Jan. 13, 1986

PRINT OR TYPE Name to be Signed:

Date:

I, Bruce D. Kenyon being
duly sworn according to law, depose and say that I (am the
applicant) or (am an officer or official of the applicant) and
that the documents and statements submitted as part of this
application are true and correct to the best of my know-
ledge and belief.Signature B KenyonTitle Vice Pres.-Nuclear Operations

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENTDATE PREPARED
11/6/84DEMOLITION WASTE DISPOSAL
MODULE NO. 5

IDENTIFICATION NO.

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PHASE I

A. *Classification of Waste:*

1. Describe the waste by origin, composition and quantity. (Attach Narrative)
2. Classify waste as Class I, Class II or Class III. Class I

B. Submit Solid Waste Form No. 1 and the following data:

1. Describe proposed operating procedures.
2. Describe borrow area(s).
3. Provide large scale map: 1" = 200' with 10' Contour Interval.
4. Provide U.S.D.A. Soil Conservation Service Soils Map.
5. Describe proposed restoration plan.
6. For Class III Waste, submit Solid Waste Module No. 2 after consultation with the Regional Solid Waste Manager to determine extent of data required for Phase I.

PHASE II

A. *Class I Waste:*

1. Provide plan indicating limits of site work; show erosion and sedimentation controls; cross sections indicating volumes, final grading plan, access controls, and restoration procedures.
2. Provide time frames for site operation and filling through to closure.

B. *Class II Waste:*

1. Same as Class I Waste.
2. Same as Class I Waste.
3. Provide description of soils and describe ground water conditions at the site (backhoe pits, borings, etc.).
4. Flooding frequency of site. _____
5. Obtain additional soils and geology data requirements from Regional Solid Waste Manager.
6. Fire protection, accident prevention, and safety narrative.

C. *Class III Waste:*

1. Submit Solid Waste Form No. 2.
2. Submit those plans, data, designs, and facilities as have been determined necessary as a result of the Phase I evaluation.
3. Submit Solid Waste Form No. 7, Bonding Requirements.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

DATE PREPARED
11/6/84

DEMOLITION WASTE DISPOSAL
MODULE NO. 5

IDENTIFICATION NO.

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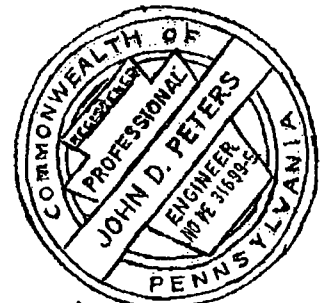
NAME AND ADDRESS OF GEOLOGIST SUPPLYING DATA FOR MODULE 2:

Name _____
Street _____
City and State _____ Zip _____
Telephone Number & Area Code _____

NAME AND ADDRESS OF ENGINEER RESPONSIBLE:

Name John D. Peters
Registration Number PE-031699-E
Street P.O. Box 284
City and State Berwick, PA Zip 18603
Telephone Number & Area Code (717) 864-3537

SEAL



John D. Peters u/ky

PP&L - SSES - SITE 3 (WEST LOT)

Phase I

A. Classification of Waste

1. Waste Description

The Pennsylvania Power & Light Company plans to operate a construction and demolition waste disposal site to receive wastes from various construction and maintenance activities on the Susquehanna Steam Electric Station (Susquehanna SES) site. Waste streams will include spoils and concrete excavated during construction activities as well as silt and sediment which has settled and accumulated in the cooling tower basins.

Soil, gravel, and rock generated from continuing construction activities at the Susquehanna SES will be disposed of on this proposed disposal site. These construction activities include installation of a bypass line for the Unit 1 cooling tower, piping connections to the new Diesel Generator Building (currently under construction), construction of additional transformer foundations, and implement sheds, as well as numerous other small construction projects. The materials being excavated for disposal consist primarily of Oquaga, Braseville, and Chenango soil series found on the Susquehanna SES site, as well as underlying gravelly subsoils. Figures 1 and 2 provide a map of the Susquehanna SES site and a soils map showing the locations of these soils, respectively. It should be noted that some of the material being excavated may not be the native soils depicted in Figure 2 due to previous construction and cutting/filling activities in these areas.

Waste concrete excavated during these previously mentioned construction activities will also be disposed of on this site. Other sources of waste concrete include dismantling of temporary security fencing and erosion strips on the Susquehanna SES site. Additionally, surplus concrete will be generated from trucks and washwaters during these various construction activities and will be disposed of on this proposed site.

A third waste stream contributing to this disposal site will be silt and sediment removed during cleaning of the cooling tower basins. During plant operation, river water laden with silt and sediment is pumped to the cooling tower basins for cooling purposes. The only treatment the water receives is the addition of acid to prevent scaling and chlorine to prevent biofouling as it is pumped through the condensers. Silt and sediment suspended in the river water settles and accumulates in the cooling tower basins and needs to be disposed of periodically. This sediment is nothing more than fine Susquehanna River sediment. Analyses of samples of this sediment taken in June 1981 are provided in Table 2.

Quantities of spoils, waste concrete, and sediment to be disposed of on this site are as follows:

Cubic Yards/Year (cy/yr)

<u>Year</u>	<u>Spoils</u>	<u>Concrete</u>	<u>Silt & Sediment</u>	<u>Total</u>
1985	1,000	300	1,500	2,800
1986-1999	200	100	1,500	<u>1,800</u>
Total project waste volume through 1999:				28,000 cy

After approximately five years, the quantities of spoils and concrete wastes applied to the site may decrease. The amount of these wastes to be disposed of in subsequent years would not exceed the values listed above.

2. Waste Classification

According to Section 75.33(b) of the Pa. Department of Environmental Resources (Pa. DER) Solid Waste Management Rules and Regulations, all of the above wastes are classified as Class I Construction and Demolition Wastes.

B. Site Description and Operating Procedures

1. Operating Procedures

No site preparation (i.e., grubbing or clearing) will be required at this disposal site. The site is a cleared, relatively flat gravel area, which had been previously filled and graded ranging in elevation from 718 to 722 feet above mean seal level (MSL). Currently, the site is being used as a laydown area for spare parts and supplies. These materials will be relocated as filling progresses and more land area is needed. The hill to the west of the proposed disposal site is a grassy area used previously for spoils disposal. Filling will start on the western edge of the site near this existing spoils pile and proceed in an easterly direction. Two somewhat separate disposal activities will occur on this site: (1) disposal of waste concrete and spoils, and (2) disposal of sediment from the cooling tower basins.

Spoils and concrete wastes will be deposited on the disposal site on a relatively continual basis. Soil excavated during construction activities will be stockpiled on portions of the site and seeded for later use as cover soils. If these disposal operations are interrupted for 15 days or more, the fill deposits shall be graded to prevent ponding and accelerated surface runoff. As the waste deposits approach final grades, or if disposal operations will be suspended for 6 months or more, the wastes will be graded, covered with soil stockpiled previously, and seeded.

Silt and sediment will be applied to the site approximately every 9 months (from two cooling tower basins, each being cleaned every 18 months during refueling outages). Temporary earthen berms will be built on portions of the site to contain the mud-like sediment until it dries. This sediment will be applied to the site and spread within the boundaries of the berms to facilitate drying. After the sediment has dried, the area will be graded, covered with soil, and seeded.

2. Borrow Areas

Cover soils for the disposal area will be supplied from two sources. Initially, soils excavated during various construction projects will be stockpiled at the disposal site and later used as cover soils. Additional cover soils will be obtained as needed from the existing spoils pile located to the west of the disposal site.

3. Maps

Figure 1 provides a general site map showing the location of the proposed disposal site, while Figure 3 provides a detailed map of the site.

4. Soils Map

A soil survey was conducted by the U.S.D.A. Soil Conservation Service on the Susquehanna SES site and included in the Susquehanna SES 1972 Environmental Report-Construction Permit Stage. A map showing the soils found on the proposed disposal site is presented in Figure 2. Table 1 provides additional information regarding these soils.

As stated in Section I.B.1. of this application, the proposed disposal site had been filled previously and leveled for use as a material laydown area. Therefore, it should be noted that the wastes permitted under this application are not being applied directly over the native Chenango or Oquaga soil series. Rather, they are being placed on top of up to 10 feet of spoils which overlay the native soils.

5. Restoration Plan

Since two relatively separate disposal operations will occur on this site, the establishment of temporary vegetation will differ depending upon the type of waste being revegetated. Concrete wastes and spoils will be graded, covered with soil, and temporarily revegetated if these operations will be suspended for 6 months or more. However, after each application of sediment from the cooling tower basins (every nine months), that portion of the disposal site used will be graded, covered with soil, and seeded. As portions of the site achieve final planned elevations, the wastes will be covered with soil to provide 2 feet of soil over any concrete wastes, graded and permanently seeded.

Both temporary and permanent vegetation shall be established by following PP&L's standard procedure for planting coarse lawns. This procedure was followed and proved successful in revegetating the spoils disposal area located on the western border of this proposed site. Ground limestone shall be applied and worked into the soil prior to seeding at a rate of 100 pounds per 1000 square feet. A standard commercial fertilizer (10-6-4 of nitrogen, phosphorous, and potash, respectively) shall also be applied and worked into the soil prior to seeding at a rate of 20 pounds per 1000 square feet. The area shall be seeded with a mixture of 60% Kentucky 31 Tall Fescue, 20% Chewings Red Fescue, and 20% Annual Rye Grass at a rate of 6 pounds per 1000 square feet. The seed shall be sown evenly by an approved mechanical seeder, by hand, or by hydroseeding. After seeding, the area shall be protected by mulching with straw. This mulch shall be anchored with an asphalt emulsion tack. Following the initial planting, the disposal site shall be checked for the adequacy of vegetative cover and any unstable areas shall be reseeded.

Portions of the existing spoils pile which will be used as a borrow area to supply cover soils will be revegetated using the revegetation procedure above.

Phase II - Class I Waste

A. Operational Plan

As outlined in Phase I, a total of approximately 28,000 cy of material will be disposed of on this site over the next 15 years. The addition of approximately 1 foot of cover soils over the entire 4.65 acre site will add 7,500 cy of material to the site. A total volume of 35,500 cy of material will then be applied to this site. As shown in Figure 3, the addition of this quantity of material (actually 35,670 cy) will bring final planned elevations of the site to between 724 and 728 feet above MSL. Figure 3 also provides cross sections showing the existing ground surface, depth of fill, and proposed final grades.

The waste deposits will be graded periodically as operations at the site proceed in order to reduce ponding, accelerated runoff, and erosion. Erosion will be further minimized by seeding the area after each application of sediment to the site and also if other disposal operations will be suspended for six months or more. Additionally, soils stockpiled on the site for later use as cover soils will be seeded for erosion control. Erosion from this site should not be a problem since the site is relatively flat and less than one acre of the site will be impacted at any given time.

Access to this disposal site will be via the gravel road which enters the existing laydown area from township road T438, shown on Figures 1 and 3. A locked gate on this gravel road prevents access to the laydown area and the disposal site when these areas are not in use. The site is well within PP&L property boundaries, which are clearly marked with "No Trespassing" signs. Additionally, security personnel routinely patrol the township road immediately adjacent to the proposed site.

Restoration and revegetation of the site will occur as described in Phase I. After 15 years when the waste deposits applied to the site reach the final proposed elevations, the area will be permanently seeded and closed using these same revegetation procedures.

B. Time Frame of Site Operation

The first applications of spoils and waste concrete to the site will occur in 1985. Applications of these waste streams to the site will decrease markedly beginning in 1986 as most construction activities are completed but will continue periodically through the year 1999. Silt and sediment from the cooling tower basins will first be applied in March 1985 during the Unit 1 refueling outage. Application of silt and sediment will reoccur at approximately 9-month intervals through 1999 (two cooling tower basins, each being cleaned every 18 months).

Filling at the site will continue at the rates described in Phase I through the year 1999 when the site will be permanently revegetated and closed.

das/ph I site 3

TABLE 1

SSES
SOIL LIMITATIONS
For
Estimated Soil Properties Significant to Engineering
Luzerne County, Pennsylvania

Soils and Mapping Symbols		Depth to Seasonal High Water Table (feet)	Depth to Bedrock	Depth From Surface (typical profile) (inches)	Available Moisture Capacity (in. per in. Depth)	U.S.D.A. Texture (typical profile)	¹ Permeability	¹ Shrink-swell Potential	¹ Corrosion Potential Steel/Concrete	¹ Drainage
Atherton Silt Loam	At	At Surface	6+	0-10 10-30 30-60	.14-.18 .08-.13 .04-.12	Silt loam Silt loam to fine sandy loam Stratified sand and gravel	Moderately slow Slow Moderately rapid	Moderate Moderate Low	High/High High/High High/Moderate	Poorly to very poorly drained
Basler Soils	Bf	1-3	6+	0-10 10-36 36-50	.18-.22 .18-.22 .18-.22	Silt loam to loam Silt loam to fine sandy loam Sandy loam to silt loam	Moderately rapid Moderate Moderate	Low Low Low	Moderate/Moderate Moderate/Moderate Moderate/Moderate	Moderately well to somewhat poorly drained.
Braceville Gravelly Loam	Br B	1½-3	10+	0-10 10-36 36-60	.15-.18 .15-.18 .03-.08	Gravelly loam Gravelly loam and fine sandy loam Stratified sand and gravel	Moderate Moderately slow Moderately rapid	Low Low Low	Moderate/Moderate Moderate/Moderate Moderate/Moderate	Moderately well drained.
² Chenango Gravelly Sandy Loam	Ch B Ch C Ch D	5+	10+	0-10 10-20 20-60	.13-.15 .08-.12 .06-.10	Gravelly loam to gravelly sandy loam Gravelly loam to gravelly sandy loam Stratified sand and gravel	Moderately rapid+ Moderately rapid+ Rapid+	Low Low Low	Low/Moderate Low/Moderate Low/Moderate	Well drained.
Holly Silt Loam	Ho	At Surface	6+	0-8 8-24 24-60	.13-.17 .08-.12 .05-.07	Silt loam Silt loam to very fine sandy loam Stratified silt, sand and gravel	Moderate Moderately slow Moderate	Low Low Low	High/Moderate High/Moderate High/Moderate	Somewhat poorly to poorly drained.
² Oquaga and Lordstown Channery Silt Loam	Ol B Ol D	3+	2-4	0-5 5-22 22-40	.12-.18 .08-.12 .08-.12	Silt loam Silt loam, channery silt loam Loam	Moderately rapid Moderately rapid Moderately rapid	Low Low Low	Low/High Low/High Low/High	Well drained.
² Oquaga and Lordstown Very Stony Silt Loam	Op B Op D Op F	3+	2-4	0-5 5-22 22-40	.12-.18 .08-.12 .08-.12	Silt loam Silt loam, channery silt loam	Moderately rapid Moderately rapid Moderately rapid	Low Low Low	Low/High Low/High Low/High	Well drained.
Papakating Soils	Pk	At Surface	5+	0-10 10-28 28-36	.18-.23 .16-.19 .08-.11	Silt loam to silty clay loam Silt loam to silty clay loam Clay loam	Moderate Moderately slow Moderately slow	Moderate Moderate Moderate	High/Moderate High/Moderate High/Moderate	Very poorly drained.
Red Hook Soils	Rd B	0-1½	6+	0-8 8-35 35-60	.16-.18 .15-.17 .08-.10	Loam Gravelly loam Gravelly fine sandy loam	Moderate Moderately slow Moderately rapid	Moderate Moderate Low	High/High High/High High/High	Somewhat poorly to poorly drained
Tioga Soils	TBb	3+	6+	0-45 45-60	.10-.14 .06-.10	Silt loam to fine sandy loam Stratified silt, sand, and gravel	Moderate Moderate to moderately rapid	Low Low	High/Moderate High/Moderate	Well Drained

¹ Terms used in these columns are explained in the glossary (of the soil survey).

² These soils are found on PP&L's proposed disposal site.

Table 2

Cooling Tower Basin Sediment Analyses

THE ANGELINE ELIZABETH KIRBY MEMORIAL HEALTH CENTER
 71 NORTH FRANKLIN STREET
 WILKES-BARRE, PENNSYLVANIA 18701

July 31, 1981

Report to: Pennsylvania Power & Lights
 Date Submitted: June 22, 1981
 Sample: Sludge (*Sediment from #1 cooling tower basin*)
 Description: Appearance of thick, muddy water.
 Analysis Requested: E. P. Toxicity and Module #1.

Results:

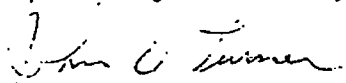
<u>Test</u>	<u>Leachate</u>	<u>Waste Itself</u>
Arsenic	< 0.005 ppm	2.28 ug/g
Barium	0.87 ppm	170.27 ug/g
Cadmium	0.053 ppm	2.62 ug/g
Chromium	0.017 ppm	99.10 ug/g
Lead	0.031 ppm	146.91 ug/g
Mercury	< 0.001 ppm	< 0.85 ug/g
Selenium	0.002 ppm	< 0.031 ug/g
Silver	0.002 ppm	0.87 ug/g
Endrin	< 0.0002 ppm	--
Lindane	< 0.004 ppm	--
Methoxychlor	< 0.1 ppm	--
Toxaphene	< 0.005 ppm	--
2, 4 - D	< 0.1 ppm	--
2, 4, 5 - TP (Silvex)	< 0.01 ppm	--
Percent Solids	--	74.801%

Continued on Page 2.

Pennsylvania Power & Lights
July 31, 1981
Page 2

<u>Test</u>	<u>Leachate</u>	<u>Waste Itself</u>
pH	5.0	8.34
COD	2800	--
Total Organic Carbon	1963	--
Oil and Grease	0.004	0.0013%
Total Dissolved Solids	2360	--
Volatile Suspended Solids	66	--
Specific Conductivity	2200	--
Ammonia-Nitrogen	4.970	--
Phenol	0.015	0.900 ug/g
Cyanide	0.125	0.50 ug/g
Copper	0.303	218.07 ug/g
Molybdenum	< 0.5	< 109.15 ug/g
Nickel	0.79	139.71 ug/g
Iron	0.109	37,502.22 ug/g

Respectfully submitted,



John O. Turner, Ph.D.
Director of Laboratory

cc: Ms. Lenore K. Vnuk

JOT:mm

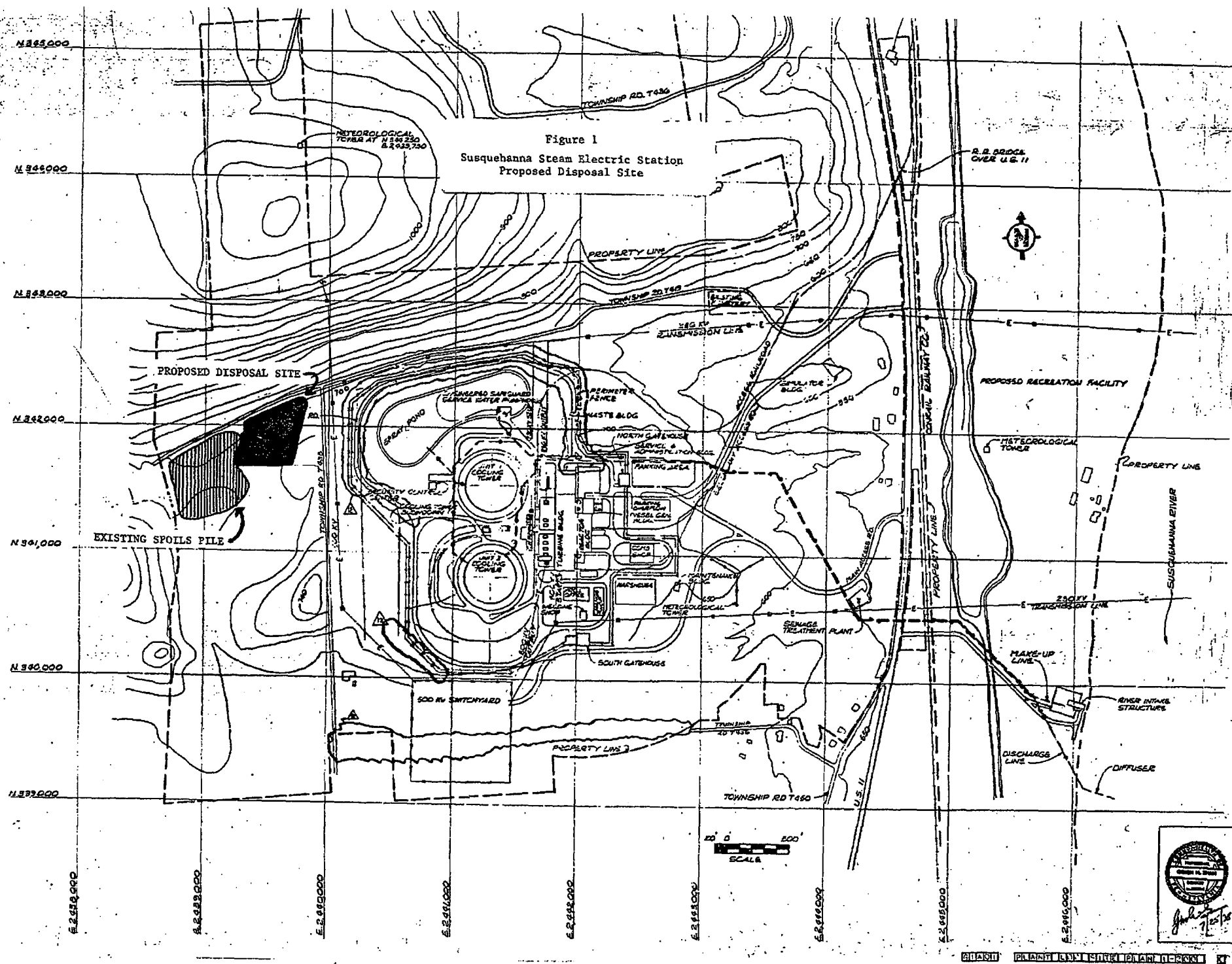
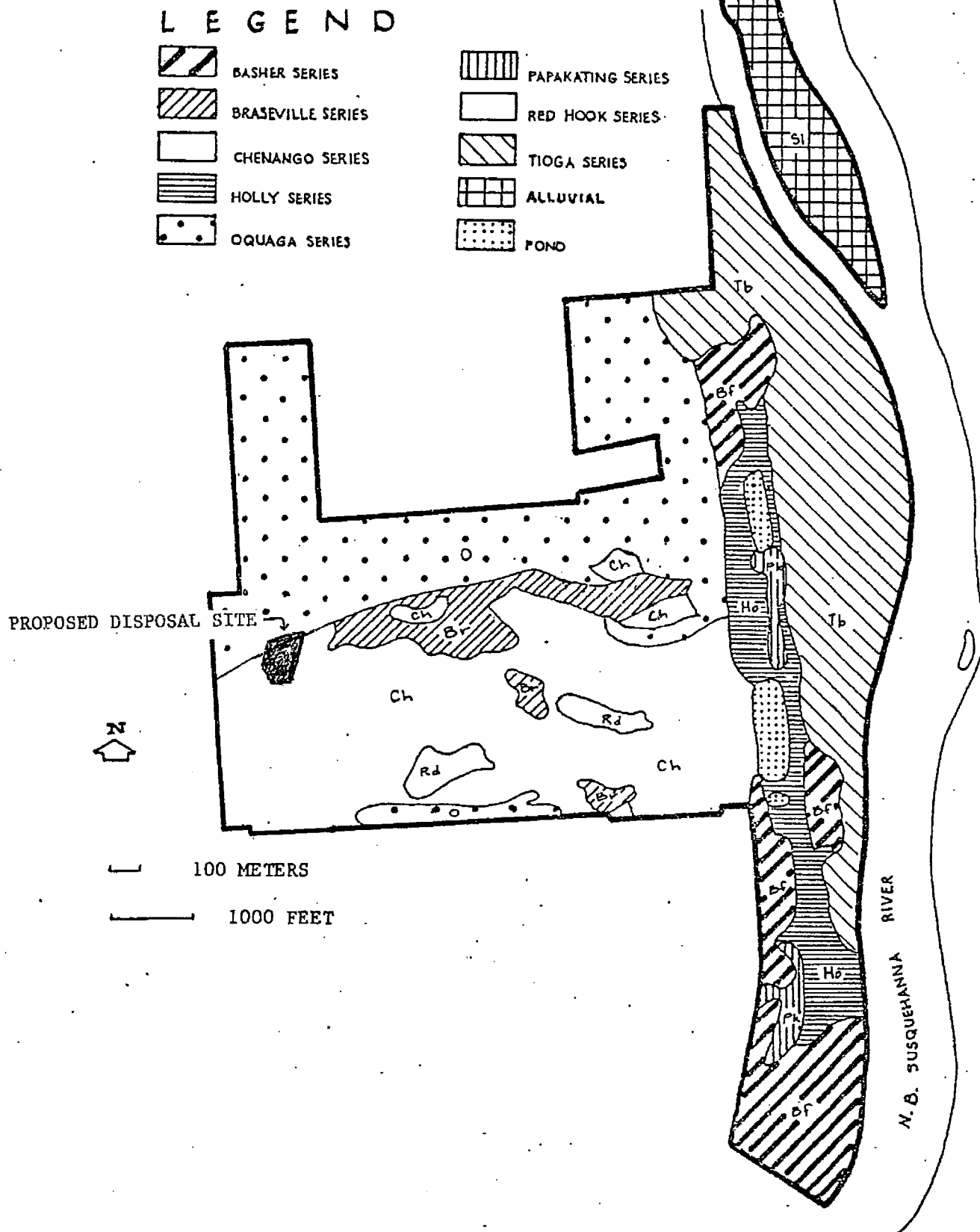
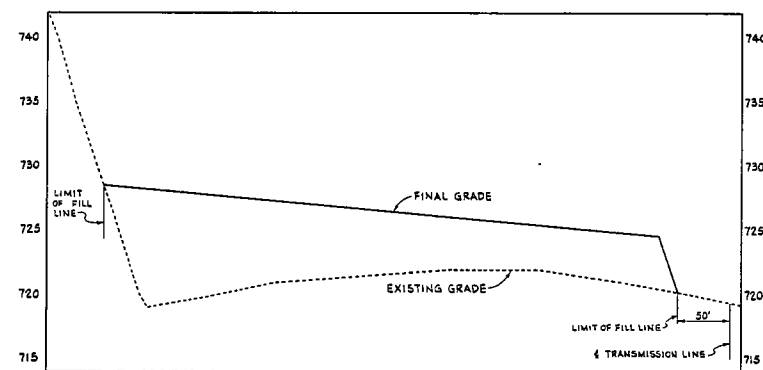
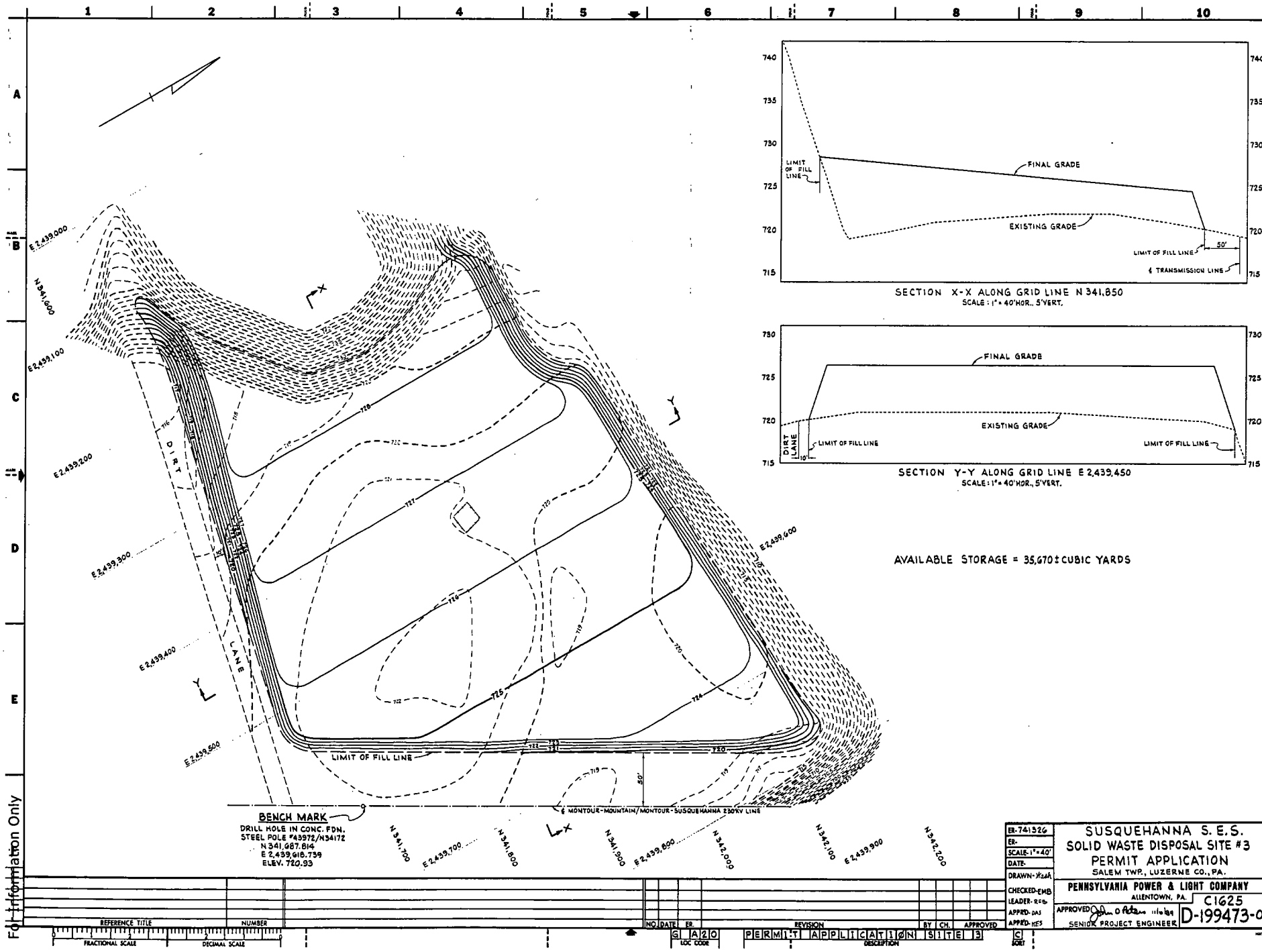
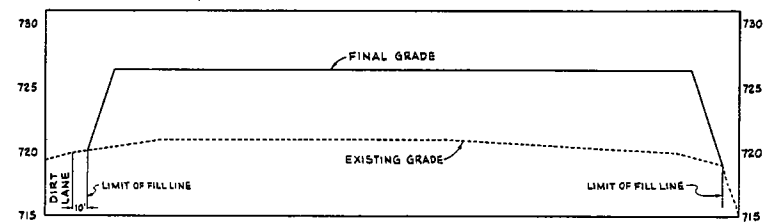


Figure 2
Soil Series Found on the
Susquehanna SES Site





SECTION X-X ALONG GRID LINE N 341,050
SCALE: 1" = 40' HOR., 5" VERT.



SECTION Y-Y ALONG GRID LINE E 2,439,450
SCALE: 1" = 40' HOR., 5" VERT.

AVAILABLE STORAGE = 35,670 ± CUBIC YARDS

BENCH MARK
DRILL HOLE IN CONC. FDN.
STEEL POLE #43972/N34172
N 341,087.814
E 2,439,618.759
ELEV. 720.93

ER-741326
EB-
SCALE: 1" = 40'
DATE:
DRAWN: YZAR
CHECKED: EMB
LEADER: RCB
APPROD: DAS
APPROD: HES

**SUSQUEHANNA S.E.S.
SOLID WASTE DISPOSAL SITE #3
PERMIT APPLICATION**
SALEM TWP., LUZERNE CO., PA.
PENNSYLVANIA POWER & LIGHT COMPANY
ALLENTOWN, PA. C1625
APPROVED: [Signature] 0 1/2 1/8 1/8
SENIOR PROJECT ENGINEER
D-199473-0

For Information Only

REFERENCE TITLE
NUMBER
FRACTIONAL SCALE
DECIMAL SCALE

NO. DATE ER. REVISION
G 1 A 2 0
LOC. CODE
PERMIT APPLICATION SITE 3

BY CH. APPROVED
C
JOB

Enclosure 2

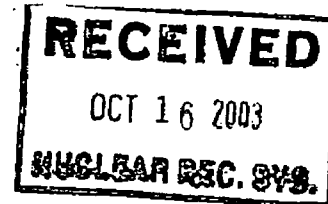
PPL Susquehanna, LLC Letter PLE-0023393, R. L. Anderson (PPL) to R. Ducceschi (PA DEP),
"Solid Waste Disposal Site No. 3 I.D. No. 101363, Final Closure", dated October 13, 2003.

Richard L. Anderson
Vice President Nuclear Operations

Cert. Mail 7002 2410 0002 7420 2371
PPL Susquehanna, LLC
769 Salem Boulevard
Berwick, PA 18603
Tel. 570.542.3883 Fax 570.542.1504
randerson@pplweb.com



October 13, 2003



Mr. Reno Ducceschi
Waste Management Program
Pennsylvania Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18711-0790

PPL SUSQUEHANNA, LLC
SOLID WASTE DISPOSAL SITE NO. 3
I.D. NO. 101363, FINAL CLOSURE
CCN 742931
PLE-0023393

Dear Mr. Ducceschi:

PPL Susquehanna, LLC (PPL) requests that the Pennsylvania Department of Environmental Protection (PaDEP) approve final closure of PPL Susquehanna, LLC's Solid Waste Disposal Site No.3. This solid waste disposal site is located in Salem Township, Luzerne County at the Susquehanna Steam Electric Station. Completed PaDEP Form 37, Certification of Facility Construction Activity for final closure, is provided for your review. In addition, PPL requests release from this site's financial assurance bond.

Closure for this solid waste disposal site I.D. No. 101363 began in 1993. The closure plan included a \$68,000 surety bond, number 0-5760084-3-1. The bond amount was approved in a letter from Mr. William Tomayko, Regional Facilities Manager, PaDEP Waste Management Program on January 8, 1993.

On November 19, 1993 in letter PLE-17363, PPL notified Mr. Tomayko that closure of the site was completed. This letter included PaDEP Form 19R, Certification of Facility Construction Activity, signed by Mr. Daniel G. Bodnar, P.E. He certified that PPL followed closure plans approved by the PaDEP. This was confirmed in a letter dated January 9, 1997 from Mr. Robert C. Wallace, PaDEP stating that departmental inspections conducted at this site following closure construction had determined that the closure work was completed in accordance with the approved design.

Cert. Mail 7002 2410 0002 7420 2371
Waste Management Program
PLE-0023393

Mr. Bodnar has since retired and Mr. John A. Swankoski, P.E. was selected to review final closure requirements and complete PaDEP Form, 37, as required by your agency. Mr. Swankoski was provided copies of PaDEP correspondence, permit information, site drawings, and the approved closure plan by Mr. Jerome S. Fields. Also, Mr. Fields has inspected the site with Mr. Swankoski.

PPL provided this information to Mr. Swankoski in order to meet the requirements of Form 37, which states, "The construction activity was observed by myself or a person under my direct supervision, in a manner consistent with the approved permit". Mr. Fields submitted the permit application to the PaDEP for this site on November 14, 1984, letter PLE-6264 and is familiar both with the operation and closure of this solid waste disposal site.

PaDEP Form 37, PaDEP Form 19R, a surety bond renewal invoice, an insurance certificate, photos, and drawings are included with this final closure request for your review. If you have any questions please contact Mr. Fields at 610-774-7889.

Sincerely,



Richard L. Anderson
Vice President Nuclear Operations

Enclosures

1. PaDEP Form 37
2. PaDEP Form 19R
3. Surety Bond No. 0-5760084-3-1 renewal invoice
4. Certificate of Insurance Certificate No. 001007
5. Photos of Solid Waste Disposal Site No. 3, July 30, 2003 (3 pages)
6. Drawing - Annual Topographic Survey ^(1,2), Revised per 1993 Field Survey, D205944, Sheet 1, Rev. 6
7. Drawing - Solid Waste Disposal Site #3 Final Closure ⁽²⁾, Survey May 2003, E295911, Sheet 1, Rev. 0

Notes:

Note 1 - Final Grade - proposed grade prior to adding two feet of cover

Note 2 - Existing Grade - present grade of site including two feet of cover

Cc

J. A. Swankoski GENPL5 w/a

Cert. Mail 7002 2410 0002 7420 2371
Waste Management Program
PLE-0023393

Bcc

T. D. Belles
M. M. Force
J. V. Kelly
A. Khanwalkar
J. L. McCormick

NUCSA3 w/o/a
NUCSA1 w/a
GENPL5 w/o/a
GENTW3 w/a
NUCSA3 w/a

D. J. Morgan
B. E. Rhoads
C. H. Saxton
C. S. Shamory
~~Nuclear Records~~

NUCSA3 w/o/a
NUCSA3 w/o/a
NUCSA3 w/a
GENTW17 w/a
GENPL4 w/a

2540-PM-LRWM0012 Rev. 6/2001



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Date Prepared/Revised

DEP USE ONLY

Date Received

FORM 37
CERTIFICATION OF FACILITY
CONSTRUCTION ACTIVITY

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 37, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: 273.203/277.203

SECTION A. SITE IDENTIFIER

Applicant/permittee: PPL Susquehanna, LLC

Site Name: Susquehanna Steam Electric Station

Facility ID (as issued by DEP): 101363

SECTION B.

I, John A. Swankoski, being a Registered Professional Engineer in accordance with the
(Engineer's Name - Print or Type)
Pennsylvania Professional Engineer's Registration Law do hereby certify that to the best of my knowledge, information and belief that the following construction activity for:

FACILITY NAME: Solid Waste Disposal Site No.3FACILITY LOCATION: Salem Township

(Municipality)

Luzerne

(County)

is constructed, and prepared in accordance with the documents, statements, designs, and plans submitted as part of Application No. 101363
as approved by the Department of Environmental Protection.

SECTION C. CONSTRUCTION ACTIVITY**MUNICIPAL WASTE LANDFILL**

- ☐ 1. Ground water monitoring system.
- ☐ 2. Subbase.
- ☐ 3. Secondary liner.
- ☐ 4. Leachate detection zone.
- ☐ 5. Primary liner.
- ☐ 6. Protective cover and the collection system within the protective cover.
- ☐ 7. Leachate treatment /conveyance facilities.
- ☐ 8. Sedimentation ponds/erosion and sedimentation control structures.
- ☐ 9. Closure.
- ☐ 10. Final Closure.
- ☐ 11. Gas management system.
- ☐ 12. Roadways.
- ☐ 13. Radioactive monitoring system.
- ☐ 14. Other. Explain _____

CONSTRUCTION/DEMOLITION WASTE LANDFILL

- ☐ 1. Ground water monitoring system.
- ☐ 2. Subbase.
- ☐ 3. Leachate detection zone.
- ☐ 4. Liner.
- ☐ 5. Protective cover and the collection system within the protective cover.
- ☐ 6. Placement of attenuating soil at natural attenuation facilities.
- ☐ 7. Leachate treatment /conveyance facilities.
- ☐ 8. Sedimentation ponds/erosion and sedimentation control structures.
- ☐ 9. Closure.
- ☒ 10. Final Closure.
- ☐ 11. Gas management system.
- ☐ 12. Radioactive monitoring system.
- ☐ 13. Other. Explain _____

PROCESSING FACILITY

Description of Construction Activity:

- ☒ 1. Facility was closed June 30, 1992. PPL Susq., LLC followed closure plan approved by the PaDEP.
- ☐ 2. _____

A description of the construction activity and phase or sequence of construction involved is included, along with appropriate as-built drawings, plans, photographs, and related test results.

The construction activity was observed by myself or a person under my direct supervision, in a manner consistent with the approved permit.

Engineer's Signature: John A. SwankoskiName of Firm: PPL Susquehanna, LLCTelephone Number: (610) 774-7709Address: 769 Salem BoulevardBerwick, PA 18703Date: 10/7/2003

(SEAL)

ER-006-877; 5/92

Date Prepared/Revised

10/19/93

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

October 7, 2003

LD. Number

101363

FORM 19R
CERTIFICATION OF FACILITY CONSTRUCTION ACTIVITY

General References: 288.202, 289.202

I, DANIEL G. BODNAR, being a Registered Professional Engineer in

(Engineer's name - Print or Type)

accordance with the Pennsylvania Professional Engineer's Registration Law do hereby certify that to the best of my knowledge, information and belief that the following construction activity for:

FACILITY NAME: C&D Landfill Site No. 3 (Susquehanna Steam Electric Station)FACILITY LOCATION: Salem Township Luzerne

(Municipality)

(County)

is constructed, and prepared in accordance with the documents, statements, designs, and plans submitted as part of Application No. 101363 as approved by the Department of Environmental Resources.

The construction activity is:

RESIDUAL WASTE LANDFILL

- ☐ 1. Ground water monitoring system.
☐ 2. Subbase.
☐ 3. Placement of attenuating soil at natural attenuation facilities. (Class 3 only)
☐ 4. Secondary liner. (Class 1 only)
☐ 5. Leachate detection zone. (Class 1 only)
☐ 6. Primary liner.
☐ 7. Protective cover and the collection system within the protective cover.
☐ 8. Leachate treatment/conveyance facilities.
☐ 9. Sedimentation ponds/erosion and sedimentation control structures.
☒ 10. Closure.
☐ 11. Gas management system.
☐ 12. Roadways.
☐ 13. Other. Explain _____

RESIDUAL WASTE DISPOSAL IMPOUNDMENT

- ☐ 1. Ground water monitoring system.
☐ 2. Subbase.
☐ 3. Leachate detection zone.
☐ 4. Secondary liner. (Class 1 only)
☐ 5. Protective cover and the collection system within the protective cover.
☐ 6. Primary liner.
☐ 7. Leachate treatment/conveyance facilities.
☐ 8. Sedimentation ponds/erosion and sedimentation control structures.
☐ 9. Closure.
☐ 10. Roadways.
☐ 11. Other. Explain _____

PROCESSING FACILITY

Description of Construction Activity:

- ☐ 1. _____
☐ 2. _____

A description of the construction activity and phase or sequence of construction involved is included, along with appropriate as-built drawings, plans, photographs, and related test results.

The construction activity was observed by myself or a person under my direct supervision, in a manner consistent with the approved permit.

(SEAL)

Engineer's Signature: Daniel G. Bodnar P.E.Name of Firm: Pennsylvania Power & Light CompanyAddress: Two North Ninth Street (A1-2)Telephone Number: Allentown, PA 18101Date: (215) 774-736119 OCT, 1993

October 7, 2003

**BOND RENEWAL
INVOICE***Surety Bonds*810-668-9100 800-384-9200
FAX 810-667-5200
201 NORTH PRESIDENTIAL BOULEVARD
BALA CYNWYD, PA 19004-1201

Mailing Address:

FPL CORPORATION
Two North Ninth Street
GENTW-13
Allentown, PA 18101

Attn: Stacy Frey

Date: 29-May-03

Customer Copy**Bond Executed in the following Company:**
SAFECO INSURANCE COMPANY OF AMERICA**Principal:**PP&L, INC.
Two North Ninth Street
Allentown, PA 18101
Account Number: PP0100001**Obligee:**

Commonwealth of PA, DER Harrisburg, PA

Bond Number- Term-Trans	Effective Date	Expiration Date	Statement
0-5760084-3-1	6/9/03	6/8/04	JUN 03

Bond Amount	Type	Invoice Number
\$68,000.00	LICENSE & PERMIT BONDS	B48983-3-1

Bond DescriptionSolid Waste Disposal Site #3, Susquehanna SES, Surety Bond for a Waste Management Facility.,
Salem Twp., Luzerne Co., PA**Balance Due**paid 6/20/03
Check # 0019512310JRF
10/3/03

October 7, 2003

Form B (Additional Insured)

Certificate Number:

No 001007

ASSOCIATED ELECTRIC & GAS INSURANCE SERVICES LIMITED
Hamilton, Bermuda**CERTIFICATE OF INSURANCE**
(Excess Liability)

This Certificate is furnished to the Certificate Holder named below as a matter of information only. Neither this Certificate nor the issuance hereof modifies the policy of insurance identified below (the "Policy") in any manner. The Policy terms are solely as stated in the Policy or in any endorsement thereto. Any amendment, change or extension of the Policy can only be effected by a specific endorsement issued by the Company and attached to the Policy.

The undersigned hereby certifies that the Policy has been issued by Associated Electric & Gas Insurance Services Limited (the "Company") to the Named Insured identified below for the coverage described and for the policy period specified.

Notwithstanding any requirements, terms or conditions of any contract or other document with respect to which this Certificate may be issued or to which it may pertain, the insurance afforded by the Policy is subject to all of the terms of the Policy.

NAME OF INSURED: PPL Corp & All subsidiaries

PRINCIPAL ADDRESS: Two North Ninth Street, Allentown, PA 18101-1179

POLICY

POLICY From: 12/31/00

NUMBER: XO 117 AIA 00

PERIOD: To: 12/30/03

RETROACTIVE DATE: 12/31/86

DESCRIPTION Claims-First-Made Excess Liability Policy covering claims for Bodily Injury, Property
OF COVERAGE: Damage and Personal Injury arising from the operations described below.LIMIT OF \$35,000,000 per occurrence and in the aggregate, where applicable.
LIABILITY:ADDITIONAL The Certificate Holder is an additional Insured under the Policy but only (i) to such
INSURED: extent and for such Limits of Liability (subject always to the terms and Limits of Liability of the Policy) as the Named Insured has agreed to provide insurance for the Certificate Holder under the following contract:

Demolition Waste Disposal Facility Permit #101363.

and (ii) with respect to the following operations: Susquehanna SES, Solid Waste Disposal Site #3. The insurance coverage provided is for the purpose of satisfying the requirements of PA Law, including 25 PA Code 271.371-271.376 and 287.371-287.375.

Should the Policy be cancelled, assigned or changed in a manner that is materially adverse to the Insured(s) under the Policy, the undersigned will endeavor to give _____ days advance written notice thereof to the Certificate Holder, but failure to give such notice will impose no obligation or liability of any kind upon the Company, the undersigned or any agent or representative of either.

DATE: December 8, 2000

ISSUED TO: Commonwealth of Pennsylvania

("Certificate Holder")

ADDRESS:

Dept of Environmental Protection
Bureau of Waste Management
Two Public Square
Wilkes-Barre, PA 18711-0790

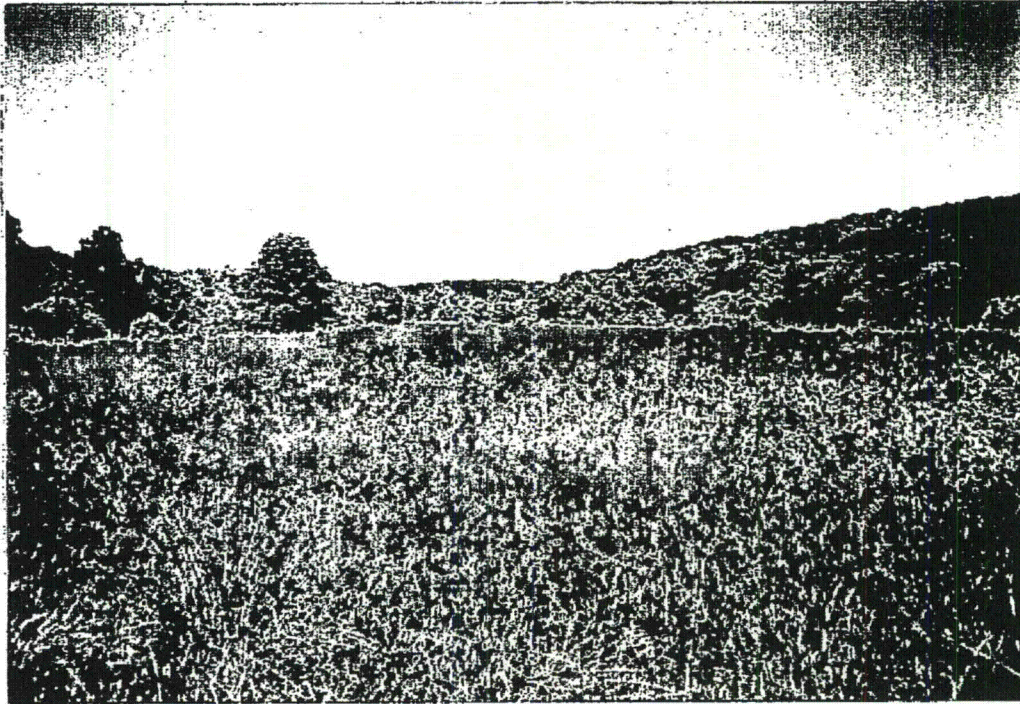
AEGIS INSURANCE SERVICES, INC.

BY: 

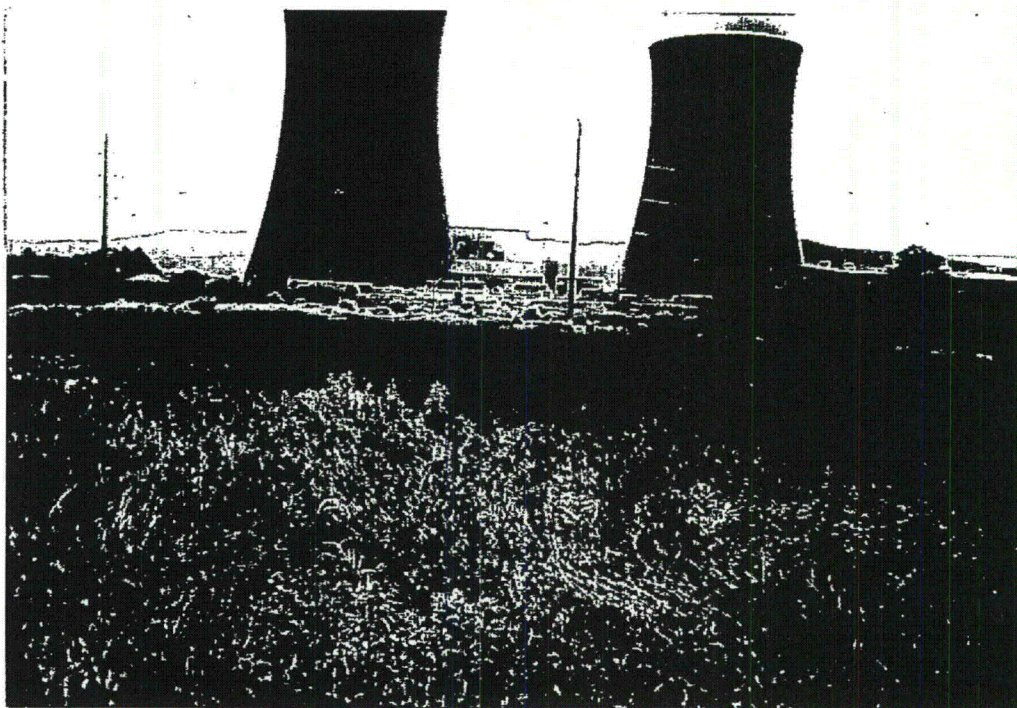
At Jersey City, New Jersey

PHOTOS OF SOLID WASTE DISPOSAL SITE NO. 3*
TAKEN JULY 30, 2003

October 7, 2003



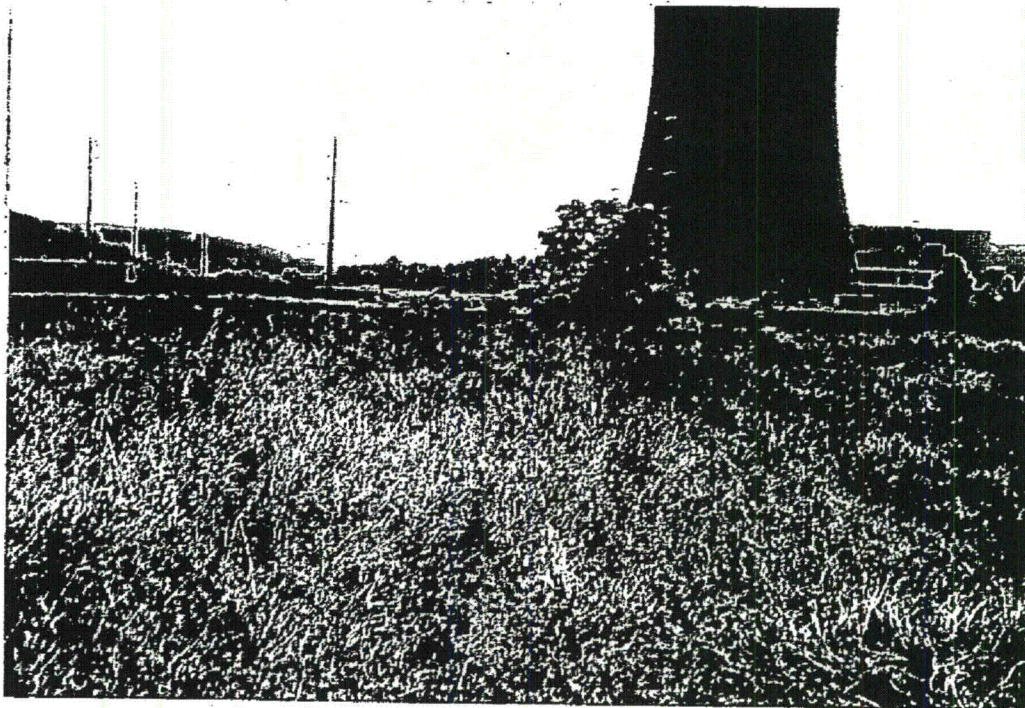
Near Hub & Tack #1 facing West ↑



Near Nail 43 facing East along X-X Axis ↑

* See Drawing E295911 for locations. Transmission lines and Cooling Towers are outside of this site.

PHOTOS OF SOLID WASTE DISPOSAL SITE NO. 3*
TAKEN JULY 30, 2003



Near Hub & Tack #16 facing East ↗



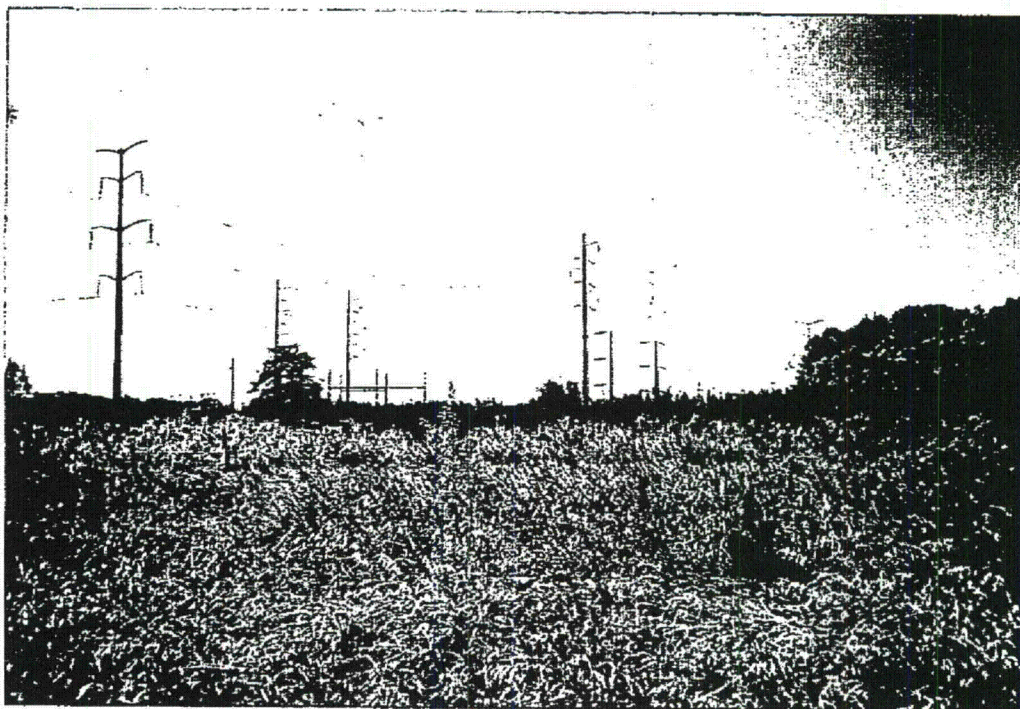
Near Hub & Tack #15 facing North ↗

* See Drawing E295911 for locations. Transmission lines and Cooling Towers are outside of this site.

PHOTOS OF SOLID WASTE DISPOSAL SITE NO. 3*
TAKEN JULY 30, 2003

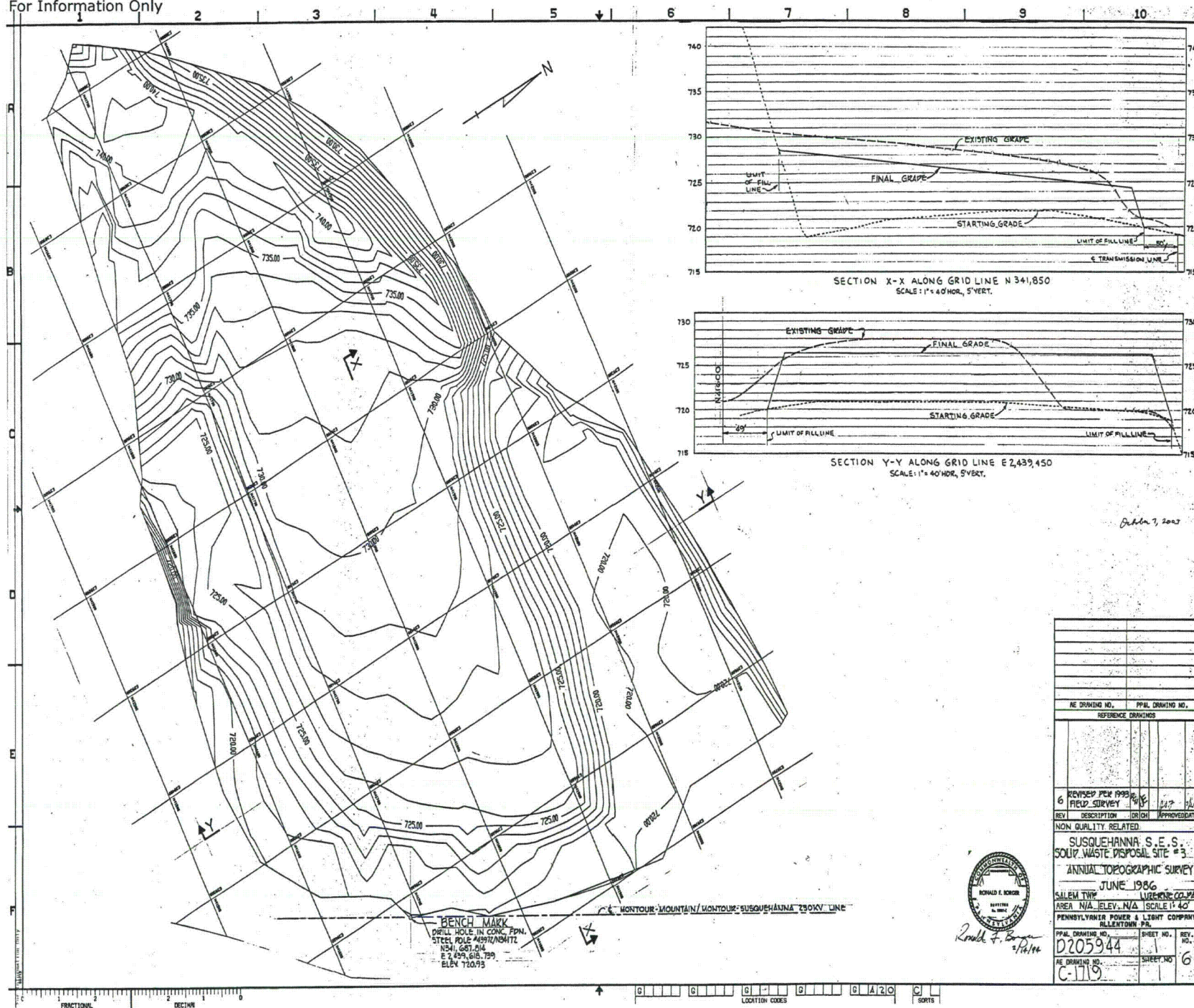


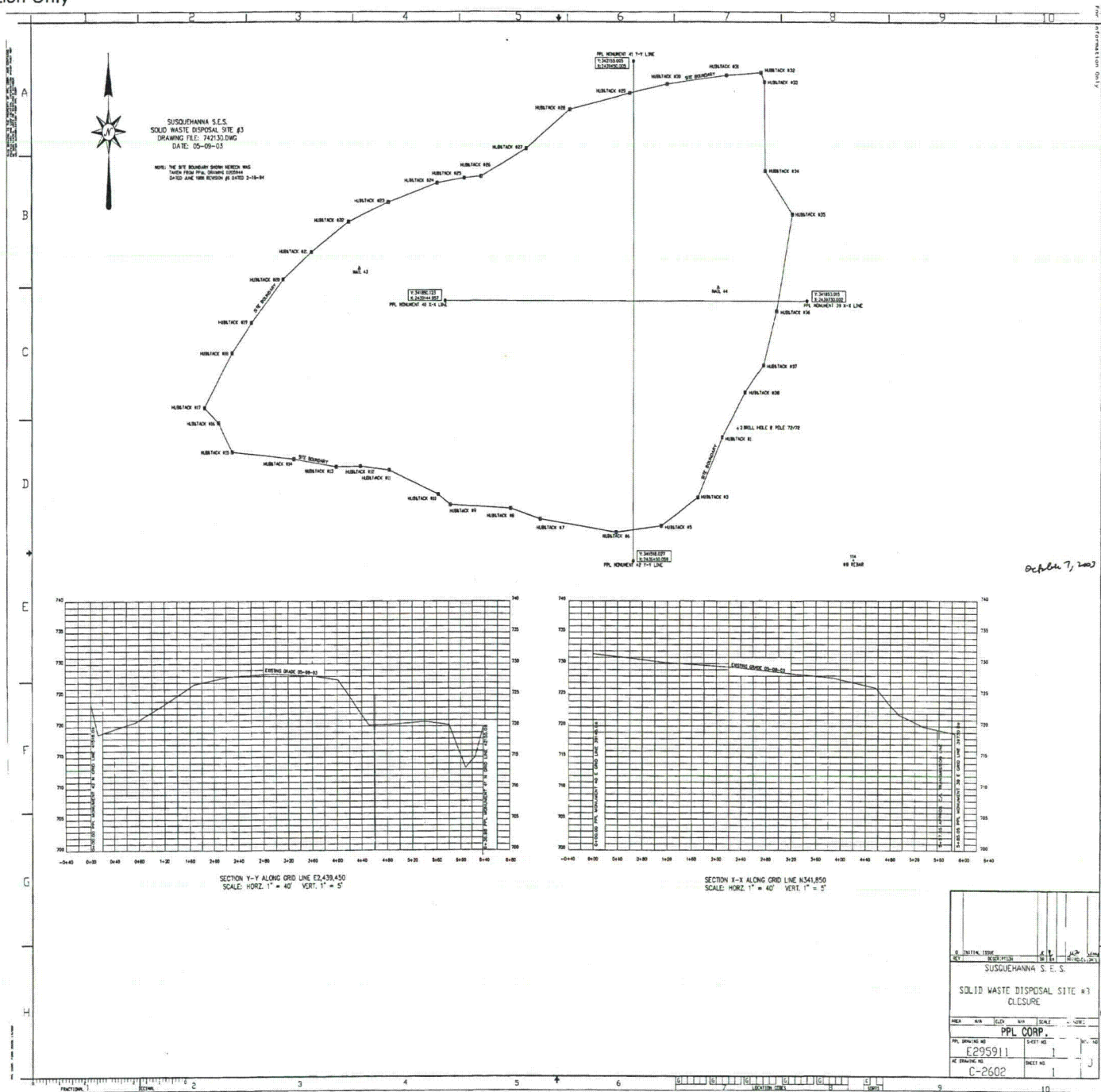
Near Hub & Tack #6 facing North along Y-Y axis ↑



Near Hub and Tack #29 facing South ↑

* See Drawing E295911 for locations. Transmission lines and Cooling Towers are outside of this site.





Enclosure 3

PA DEP Letter, R. C. Wallace (PA DEP) to R. L. Anderson (PPL), dated December 2, 2003.



Pennsylvania Department of Environmental Protection

2 Public Square
Wilkes-Barre, PA 18711-0790
December 2, 2003

Northeast Regional Office

570-826-2511
Fax 570-826-5448

PPL Susquehanna, LLC
769 Salem Boulevard
Berwick, PA 18603

Attention: Mr. Richard L. Anderson
Vice President Nuclear Operations

Re: PPL Susquehanna, LLC
Solid Waste Disposal Site No. 3
I.D. # 101363
Salem Township, Luzerne County

Dear Mr. Anderson:

The Department has reviewed PPL's October 13, 2003 submission, regarding final closure of its Solid Waste Disposal Site No. 3 located in Salem Township, Luzerne County.

This letter constitutes the Department's Final Closure Certification for the aforementioned disposal site. The Department will proceed to release PPL's \$68,000.00 Financial Assurance Bond.

If you have any questions regarding this matter, please feel free to contact me.

Sincerely,

Robert C. Wallace
Chief, Engineering & Facilities Section
Waste Management Program

570-826-2511
211742
CR-1174697