



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

October 22, 1992

Mr. A. Bert Davis
Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Braidwood Station Units 1 and 2
Application for Storm Water Permit
NRC Docket Nos. 50-456 and 50-457

Dear Mr. Davis:

Commonwealth Edison Company is the holder of National Pollutant Discharge Elimination System (NPDES) Permit No. IL0048321 for Braidwood Station. Section 3.2 of Appendix B (Environmental Protection Plan) of Facility Operating Licenses NPF-72 and NPF-77 requires that proposed changes to the NPDES permit to be reported to the NRC. Enclosed is Braidwood's application for a storm water permit. Rather than issue a separate permit, it is expected that the Illinois Environmental Protection Agency will incorporate the additional storm water discharge points addressed by the enclosed application into the NPDES permit for Braidwood Station upon its renewal in 1995.

Please direct any questions regarding this matter to this office.

Respectfully,

Terence W. Simpkin
T.W. Simpkin
Nuclear Licensing Administrator

Enclosure

cc: Braidwood Resident Inspector
R.M. Pulsifer - NRR
NRC Document Control Desk

360061

9210300014 921022
PDR ADOCK 05000456
P PDR

ZNLD/968/2

KE231

September 29, 1992

CERTIFIED MAIL

Mr. Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

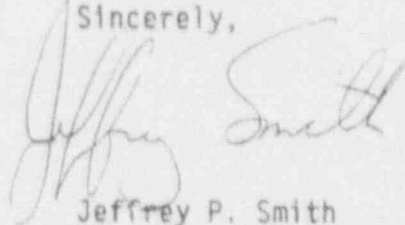
Subject: Commonwealth Edison Company, Individual Storm Water
Permit Application - Braidwood Generating Station.

Dear Mr. McSwiggin:

Enclosed please find an individual storm water permit application for the Company's Braidwood Generating Station covering a single outfall. The application consists of Forms 1, 2F, and supporting documentation. Please note that several sections of the application were completed with guidance from the Industrial Permits Section, IEPA.

If you have questions or desire additional information regarding this application, please call Mr. Doug Yowell of my staff at (312) 294-4461.

Sincerely,



Jeffrey P. Smith
Supervisor of Water Quality

1623a
DWY:JPS:et

bcc: D. W. Yowell
File: W-20-PER-H7 (w/encl.)

FORM 1 GENERAL	 EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permit Program</i> <i>Read the General Instructions before starting</i>	I. EPA I.D. NUMBER ILD000800505																																																						
II. POLLUTANT CHARACTERISTIC INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental forms listed in the parentheses following the questions. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">SPECIFIC QUESTIONS</th> <th colspan="3">MARK X</th> <th rowspan="2">SPECIFIC QUESTIONS</th> <th colspan="3">MARK X</th> </tr> <tr> <th>YES</th> <th>NO</th> <th>ATTACHED</th> <th>YES</th> <th>NO</th> <th>ATTACHED</th> </tr> </thead> <tbody> <tr> <td>A. 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Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	
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VII. SIC CODES (4 digit - optional priority)	
A. FIRST	B. SECOND
4911	Electrical Generation & Distribution
C. THIRD	D. FOURTH

VIII. OPERATOR INFORMATION			
A. NAME			
COMMONWEALTH EDISON CO.			
B. Is the Name listed in Item VIII-A also the Owner?			
☒ YES ☐ NO			
C. STATUS OF OPERATOR (Enter the appropriate number into the answer box if "Other" (Specify))			
1. FEDERAL	2. PUBLIC (other than Federal or State)	3. PRIVATE	4. OTHER (Specify)
	P		
D. PHONE (Area Code & No.)			
A	312 294 4433		
E. STREET OR PO BOX			
PO Box 767 35 FW			
F. CITY OR TOWN	G. STATE H. ZIP CODE		
CHICAGO	IL 60690		
I. INDIAN LAND			
Is the facility located on Indian lands?			
☐ YES ☒ NO			

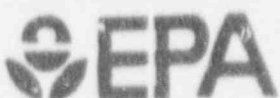
X. EXISTING ENVIRONMENTAL PERMITS	
A. NPDES (Discharges to surface waters)	
9. N	IL0048321
B. PSD (Air Emissions from Proposed Sources)	
9. P	82110055
C. UIC (Underground Injection of Fluids)	
9. U	
D. RCRA (Hazardous Wastes)	
9. R	IEPA LOG. NO. A-421
9. P	79020011
(Specify) AIR - RADWASTE VOL. REDUCT. SYSTEM	
(Specify) AIR - AUX BOILER, TANKS, DIESEL GENERATOR	

XI. MAP	
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.	

XII. NATURE OF BUSINESS (provide a brief description)	
GENERATION AND DISTRIBUTION OF ELECTRIC POWER	

XIII. CERTIFICATION (See instructions)	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	
A. NAME & OFFICIAL TITLE (Type or print)	B. SIGNATURE
R. J. Manning Vice President	<i>R. J. Manning</i>
C. DATE SIGNED	
9/2/11	
COMMENTS FOR OFFICIAL USE ONLY	
C	

Please print or type in the UNSHADOWED areas only.

Form 2F NPDES		United States Environmental Protection Agency Washington, DC 20460 Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity
Paperwork Reduction Act Notice This reporting burden for this application is estimated to average 12.5 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief Information Policy Branch, EPA-220, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460 or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.		
I. Outfall Location		
Present outfall, its latitude and longitude or its location to the nearest 15 seconds and the name of the receiving water.		
A. Outfall Number	B. Latitude	C. Longitude
#1 - Switchyard Runoff	41 12 15	88 16 45
Mazon River		
II. Improvements		
Are you now required by any Federal, state, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule orders, stipulations, court orders, and grant or loan conditions. N.A.		
1. Identification of Conditions Agreements, Etc.	2. Affected Outfalls Number Source of Discharge	3. Brief Description of Project
Compliance Date		
4. Final 5. Reg 6. Date		
B. You may attach additional sheets describing any additional water pollution or other environmental projects which may affect your discharges; you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.		
III. Site Drainage Map		
Attach a site map showing topography for indicating the outline of drainage areas served by the outfall(s) covered in the application. If a topographic map is unavailable, depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall; each known past or present area used for outdoor storage or disposal of significant materials; each existing structural control measure to reduce pollutants in storm water; materials loading and access areas; areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its waste treatment, storage or disposal units including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34; each well where fluids from the facility are injected underground; springs; and other surface water bodies which receive storm water discharges from the facility.		

IV. Narrative Description of Pollutant Sources

1. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building footprints) drained to the outfall and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface Provide units	Total Area Drained Provide units	Outfall Number	Area of Impervious Surface Provide units	Total Area Drained Provide units
#1	0	480,000 ft ²			

2. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water, method of treatment, storage, or disposal; past and present materials management practices employed in the last three years to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

See Attachment 'A'

3. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff, and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
#1	See attachment 'A'	

V. Nonstormwater Discharges

1. Certify, under penalty of law that the outfalls covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfalls are identified in either an accompanying Form 2C or Form 2F application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Douglas W. Yowell, General Biologist	<i>Douglas W. Yowell</i>	9-29-92

2. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Dry weather observation on June 17, 1991 and April 10, 1992

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

Date	Material	Quantity	Comments
12-19-90	Diesel Oil	8000 gal. (est)	Underground line leak near a new construction area. Over 6000 gal initially removed from site runoff oil/water separator (an NPDES permitted outfall). Subsequent cleaning of the separator in addition to soil excavation and clean-up of the area recovered the balance of the oil.

VII. Discharge Information (Continued from page 1 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. Outfall No. 1 - Switchyard Runoff

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample taken During First 30 Minutes	Flow-weighted Composite	Grab Sample taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	< 1.0 ppm	-	-	-	1	-
Biological Oxygen Demand (BOD5)	1.6 ppm	1.1 ppm	-	-	1	-
Chemical Oxygen Demand (COD)	<10 ppm	<10 ppm	-	-	1	-
Total Suspended Solids (TSS)	10 ppm	4 ppm	-	-	1	-
Total Kjeldahl Nitrogen	0.5 ppm	<0.2 ppm	-	-	1	-
Nitrate plus Nitrite Nitrogen	2.32 ppm	2.76 ppm	-	-	1	-
Total Phosphorus	<0.01 ppm	<0.01 ppm	-	-	1	-
pH	Minimum 8.2	Maximum 8.2	Minimum -	Maximum -	1	-

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater if the facility is operating under an existing NPDES permit. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample taken During First 30 Minutes	Flow-weighted Composite	Grab Sample taken During First 30 Minutes	Flow-weighted Composite		

The following is a list of parameters noted in the station's NPDES permit for its process wastewater that are not covered in parts "A" listed above. No analyses were conducted these parameters due to the fact that these constituents are not present in the switchyard and would not be present in the runoff from this outfall. Approval for this rationale was obtained from Mr. Tim Kluge, Industrial Permits Section, EPA, on April 16, 1992.

- Temperature
- Chlorine, Total Residual
- Fecal Coliform

Continued from Page 2

VII. Discharge Information

A, B, C, & D. See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.

*Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E. Potential discharges not covered by analysis: Is any pollutant listed in Table 2F-2 a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ Yes. List all such pollutants below:

☐ No. (go to Section IX)

- Chlorine, Total Residual
- Fecal Coliform
- Boron

No analyses were conducted on these parameters due to the fact that these constituents are not present in the switchyard and would not be present in the runoff from this outfall. Approval for this rationale was obtained from Mr. Tim Kluge, Industrial Permits Section, IEPA, on April 16, 1992.

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes. List all such pollutants below:

☒ No. (go to Section IX)

IX. Contract Analysis Information

Were any of the analyses reported in item V performed by a contract laboratory or consulting firm?

☐ Yes. List the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below:

☒ No. (go to Section X)

A. Name	B. Address	C. Code & Phone No.	D. Pollutants Analyzed

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print)

R. J. Manning
Vice President

B. Area Code and Phone No.

C. Signature

[Signature]

D. Date Signed

7/29/92

Pollutant		Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Source of Pollutant
CAS Number	and Trade Name	24-hr Sample taken During First 30 Minutes	Flow-weighted Composite	24-hr Sample taken During First 30 Minutes	Flow-weighted Composite		
PCB's		<0.0005 ppm	<0.0005 ppm	-	-	1	-

While no Polychlorinated Biphenyls (PCB's) were expected to be present in the discharge from the station's switchyard given the absence of equipment containing PCB's within this area. This analysis was conducted to confirm that no PCB's are being discharged from the switchyard outfall.

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.							
1	2	3	4	5	6	7	8
Date of Storm Event	Duration of Storm (minutes)	Total rainfall during storm event (inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gallons/minute or specify unit)	Total flow from rain event (gallons or specify unit)	Season sample was taken	Form of Precipitation (rainfall, snowmelt)
10/24/91	1440	0.47	240 hrs.	100 gpm	70,312 gal.	Fall	Rainfall

9. Provide a description of the method of flow measurement or estimate.

Flow estimated using equation provided in Guidance Manual for the Preparation of NPDES Permit Applications For Storm Water Discharges Associated With Industrial Activity EPA-505/8-91-002.

EPA I.D. No. ILD000800505

BRAIDWOOD STATION
OTHER PERMITS (cont'd)

Sewage Sludge Land Application - 1468-86

Attachment "A"

Inside the main plant area there are several storage areas that have been delineated on the prints. The "new and used" oil storage area is bermed and sloped to direct rainfall and spillage to an oil/water separator. The diesel oil storage tanks are located within a bermed area to prevent runoff in the event of leakage. The diesel oil unloading area has a bermed concrete pad sloped to a catch basin to collect spillage that may occur during the unloading process.

The hazardous materials (Haz-Mat) storage building contains a berm to control potential leakage. The Mixed Waste building utilizes "tubs" to contain spillage from wastes which may be stored inside the building. A bulk lime storage silo is located just outside the make-up demineralizer building. The housing surrounding the silo has a raised wall to retain any leakage from the silo. Transformers located inside the plant area have underdrain systems directed to an oil/water separator prior to discharge to the north site stormwater runoff point (an existing NPDES permitted outfall).

Outside the main plant area are sewage treatment plant sludge drying beds which provide a means for dewatering sewage sludge. The beds are concrete with an underdrain system designed to direct liquid (including precipitation) back to the sewage plant for reprocessing. A bermed area located outside the main plant area is used as an intermediate storage area for lime sludge that is awaiting landfill disposal. A fire training area is located to the north of the main plant area and directs runoff to the previously mentioned north site stormwater runoff point.

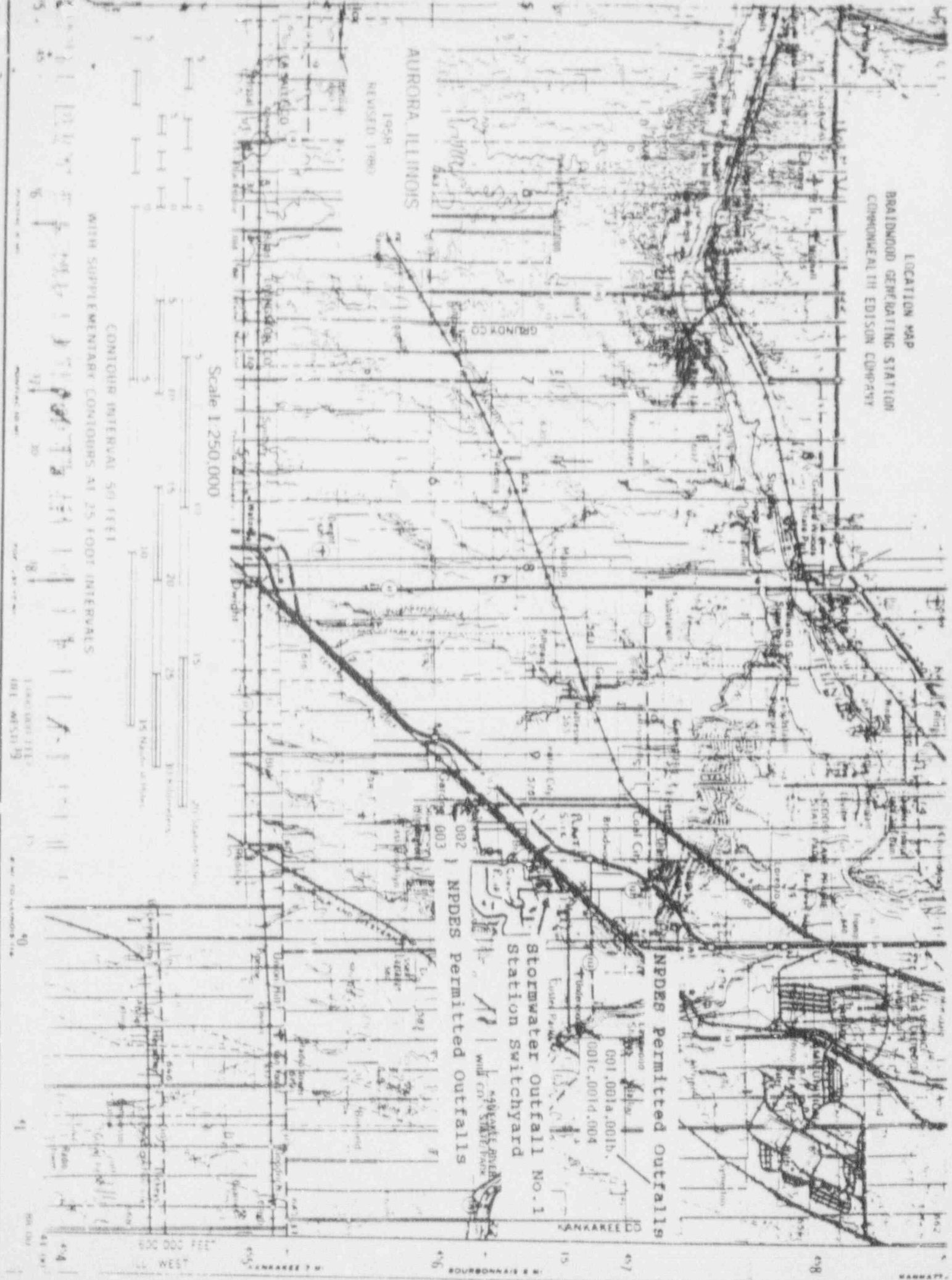
The switchyard area (listed as outfall number "1" on form 2f part 1) has an underdrain system installed to collect and route stormwater through the switchyard oil/water separator prior to discharge to an unnamed drainage ditch.

LOCATION MAP
 BRAIDWOOD GENERATING STATION
 COMMONWEALTH Edison COMPANY

AURORA ILLINOIS
 1958
 REVISED 1980

Scale 1:250,000

CONTOUR INTERVAL 50 FEET
 WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS



NPDES Permitted Outfalls

001, 001a, 001b,

001c, 001d, 004

Stormwater Outfall No. 1
 Station Switchyard

002, 003 NPDES Permitted Outfalls

WILL CO. WATER WORKS

KANKAKEE CO.

SOURBONNAIS R.

600 000 FEET

WEST

KANKAKEE R.

6

15

47

48

KANKAKEE R.