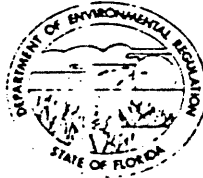


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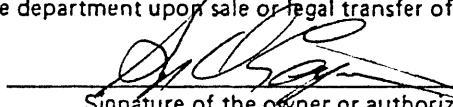
NORTHWEST FLORIDA
DERPAID
DEC 03 1980
\$20.00-MELRECEIVED
JAN 28 1982STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATIONAPPLICATION TO OPERATE/CONSTRUCT
INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL SYSTEMSType application: ☒ Operation ☐ Temporary Operation ☐ ConstructionSource Status: ☐ New ☒ Existing ☐ ModificationSource Name: Scholz Electric Generating Plant County: JacksonSource Location: Street: P.O. Box 35 City: ChattahoocheeLat.: 30 ° 40 ' 08 " Long.: 84 ° 53 ' 13 "Appl. Name and Title: George O. Layman, Director, Power SupplyAppl. Address: P.O. Box 1151, Pensacola, Florida 32520DIV. ENVIRONMENTAL
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STATEMENTS BY APPLICANT AND ENGINEER

A. Applicant

The undersigned owner or authorized representative* of Gulf Power Company

is fully aware that the statements made in this application for a Industrial Wastewater permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the department. He also understands that a permit, if granted by the department, will be non-transferable and he will promptly notify the department upon sale or legal transfer of the permitted establishment.


 Signature of the owner or authorized representative

George O. Layman, Director, Power Supply
 Name and Title (Please type)
Date: 12/2/80 Telephone No.: 904/434-8354

*Attach a letter of authorization

B. Professional Engineer Registered in Florida (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned, if authorized by the owner, will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: _____ Mailing Address: _____

Name (please type): _____

Company Name: _____

Florida Registration No.: _____ Telephone No.: _____

(Affix Seal) Date: _____

DETAILED DESCRIPTION OF SOURCE

- A. Describe the nature and extent of the project. Refer to existing pollution control facilities, expected improvements in performance of the facilities and state whether the project will result in full compliance. Attach additional sheet if necessary.

See Footnote (1)

Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? ____ Yes X No

- B. Schedule of Project Covered in this Application (Construction Permit Application Only).

All projects:

Start of Construction (Date): N/A

Completion of Construction (Date): N/A

- C. Cost of Construction (Show a breakdown of costs for individual components/units of the project serving pollution control purposes only). Information on actual costs shall be furnished with the application for operation permit.

Waste Treatment (approximately) - \$265,000

- D. For this source indicate any previous DER permits: issuance dates, and expiration dates; and order and notices.

Permit I032-11017

Issue Date: October 4, 1978

Expiration Date: February 16, 1981

- E. Indicate the relationship between this project and area regional planning for sewage treatment. List steps to be taken for this sewage plant to become part of an area wide sewerage system.

N/A

- F. Indicate EPA-NPDES permit, effective date and expiration date:

Permit No. FL: 000 2283

12/31/75

Issue Date

2/16/81

Expiration Date

INDUSTRIAL WASTEWATER TREATMENT PROCESS

A. General

1. Type of Industry Electric Utility
2. Raw Materials and Chemicals used N/A
3. Production Rate 98 MW - Plant Capacity (2)
tons/day, lbs./day, etc.
4. Normal Operation 24 hours/day - 7 days/week - 52 weeks/year
hrs./day, days/week
5. If operation is seasonal, explain N/A

B. Describe wastewater treatment process and identify treatment units

See Footnote (3)

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C. List sludge treatment units

N/A

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D. Volume, composition, and Site and Method of Ultimate Disposal of Sludge. Identify location(s) of ultimate disposal

N/A

E. Method(s) and Location(s) of Flow Measurement

1. Cooling Water Intake - Daily Pump Logs
2. Ash Pond Discharge - Pipe Flow Calculations

F. Describe practices to be followed to ensure adequate waste treatment during emergencies such as power loss and equipment failures causing shut down of pollution abatement equipment of the proposed/permitted facilities.

N/A

G. Laboratory: list tests for which equipment/chemicals are provided.

1. Temperature
2. pH
3. Chlorine

INDUSTRIAL WASTEWATER CHARACTERISTICS

Information furnished in this section for construction permit shall be based on reasonable prediction and good professional judgment. However, actual data shall be submitted when applying for an operation permit. Note: If there is more than one discharge point, submit the following data for each point:

A. Flow (MGD): Average daily flow for proposed project:

84.8

129.6

129.6

AVERAGE

MAXIMUM

DESIGN

B. Water Quality Characteristics. (30-day average)

Parameter	Influent (mg/l)	Effluent (mg/l)	Effluent (lbs/day)	
			Average	Design
5-day BOD	ND	ND	ND	NA
Total Solids:				
Total	ND	ND	ND	NA
Volatile	ND	ND	ND	NA
Suspended Solids:				
Total	15.8	17.6	12,477	NA
Volatile	ND	ND	ND	NA
pH:	7.60	7.56	NA	NA
Temperature °F:	72.5	83.5 (6)	NA	NA

List other pertinent parameters:

Arsenic	LT .01	LT .01	LT 7.09	N/A
Cadmium	LT .002	LT .002	LT 1.42	N/A
Chromium	LT .01	LT .01	LT 7.09	N/A
Copper	LT .01	LT .01	LT 7.09	N/A
Lead	LT .01	LT .01	LT 7.09	N/A
Iron	1.23	1.32	935.8	N/A
Mercury	LT .0002	LT .0002	LT .142	N/A
Nickel	LT .01	LT .01	LT 7.09	N/A
Selenium	LT .002	LT .002	LT 1.42	N/A
Zinc	.013	.018	12.76	N/A
Oils & Grease	LT 1	LT 1	LT 708.9	N/A
Chlorine	ND	.2236	158.5	N/A

ULTIMATE EFFLUENT DISPOSAL

A. Type of Receiving Body

Name of Water Body

1. Surface Waters: Fresh ☒ 1
 Salt or Brackish ☐ 2
2. Groundwaters: Surface or Sub-surface Irrigation ☐ 3
 Ponding and Percolation ☐ 4
 Recharge Wells ☐ 5

Apalachicola River

B. If discharge is to surface waters complete the following:

1. Drainage Ditch ☐ 1 Small Stream ☐ 5
 River ☒ 2 Man-made Canal ☐ 6
 Landlocked Lake ☐ 3 Lake with outlet ☐ 7
 Tidal Estuary ☐ 4 Ocean or Gulf ☐ 8

2. Identify and describe the drainage path of effluents to major body of water: The circulating cooling water upon leaving the respective condensers, flows via the discharge tunnels and canal into the Apalachicola River.

3. Florida's Water Quality and Use Classification of the receiving waters: Apalachicola River - Class III

4. Minimum weekly average flow of receiving bodies of water for 10 year period: 34,791 MG/WK

5. Degree of dilution provided by receiving waters at minimum flow: 38.4 (7)

C. Description of outfall to area surface waters.

1. Approximate water depth at outfall during low flow: 7.2 ft.
2. Approximate depth below outfall invert: N/A
3. Diameter of outfall: N/A
4. Approximate distance of outfall from shoreline: At shoreline

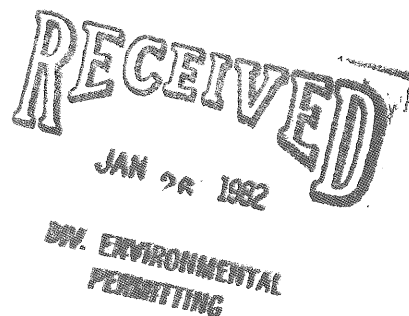
D. If discharge into groundwaters is involved during treatment or disposal, furnish the following information: N/A

1. Surface or sub-surface irrigation.

- a) Description of disposal structure(s) N/A
- b) Area under irrigation
- Total: N/A
- Per rotation:
- c) Irrigation rate: N/A
- d) Percolation rate: N/A
- e) Ultimate disposal of surface/sub-surface runoff: N/A
- f) Cover Crop, type: N/A

2. Seepage Ponds: (for each surface impoundment)

- a) Area of Pond(s): N/A
- b) Design Depth of Water in the Ponds: N/A
- c) Percolation Rate: N/A
- d) Indicate any overflow during rainfall: N/A
- e) What is groundwater table elevation at its highest point during the year? N/A
- What is the elevation of the pond bottom? _____
- f) Number and location of groundwater monitoring wells: N/A



E. Environmental Data on Pollution Source

1. Character of Area Within One Mile of Plant:

Rural

2. Distance from the Nearest Municipality: approximately 3 miles

3. Owner of Land (if different from applicant): N/A

4. Availability of Space for Expansion of Plant: Limited

5. If disposal is to groundwater as described in Section D above, complete the following: N/A

a) Description of the geohydrology of groundwater in the disposal area: N/A

b) Direction of the groundwater flow: N/A

c) Description of the chemical characteristics and uses of the area groundwater: N/A

d) Indicate the number of potable water supply wells within 500 feet of effluent disposal area, the depths of those wells and their approximate distances and direction from the disposal area: N/A

e) List all lakes, ponds and all other sources of surface water within one mile of the disposal area. List their uses and the water elevations of the water bodies, their approximate distance and direction from the disposal area: N/A

ADDITIONAL DATA FOR TEMPORARY OPERATION PERMIT
(For Existing Sources Not Meeting Department Standards)

Justification for Temporary Operation Permit Request

A. Attach additional sheets responding to the following items: N/A

1. The facts and reasons which support that:

- a. the applicant has a waste for which no feasible and acceptable method of treatment or disposal is known and the applicant is making a bona fide effort through research and other means to discover and implement such a method;
 - b. the applicant needs permission to pollute the waters within the state for a period of time necessary to complete research, planning, construction, installation or operation of an approved abatement facility or alternate waste disposal system;
 - c. there is no present reasonable, alternative means of disposing of applicant's waste other than by discharging into waters of the state;
 - d. the denial of a temporary operation permit would work an extreme hardship upon the applicant;
 - e. granting of a temporary operation permit will be in the public interest;
 - f. the schedule for meeting compliance outlined in c. is reasonable;
 - g. the discharge will not be unreasonably destructive to the quality of the receiving waters.
2. The damage or harm resulting, or which may result, to the quality of the receiving water should the department grant a temporary operation permit or an extension to an existing temporary operation permit.
3. Any advantages or disadvantages to residents and the environment in the affected area resulting from the department granting or denying a temporary operation permit or an extension to an existing temporary operation permit.

B. Technical Data:

1. Manner of discharge:
2. Receiving body of water:
3. Use of receiving body of water:
4. Condition of receiving body of water:
5. Nature of discharge:
6. Volume of discharge:
7. Frequency of discharge:
8. Quantity of discharge:
9. Quality of Discharge:

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RAW

FINAL

Lbs/day BOD₅

Lbs/day Total Suspended Solids

PPM DO at outfall

Lbs/day Total Phosphorous, P

Lbs/day Total Nitrogen, N

Lbs/day Total Kjeldahl N

10. Proposed Time Discharge is Required:

11. Reasons for Time Required:

12. Reasons why conditions of Chapter 403, Florida Statutes and Chapter 17-3, Florida Administrative Code have not been met:

C. Plans for meeting full compliance to Chapter 403, F. S., and Chapter 17-3, F.A.C. N/A

Schedule of Increments of Progress to meet compliance:

1. Date when planning is expected to be complete _____
2. Date when engineering will be complete _____
3. Date construction application will be submitted to upgrade or replace the existing plant or build lift station and force main to phase out the present facility. _____
4. Date contract will be let _____
5. Date construction will commence _____
6. Date construction is to be complete and so certified _____
7. Date that wastewater collection/transmission/treatment/effluent disposal systems will be certified "in compliance" to your permit _____

(cross out inappropriate components)

D. Who will be responsible for overseeing that the above time schedule will be met?

NAME _____
(Print or type)

TITLE _____

ADDRESS _____

PHONE _____

Signature _____ Date _____

Footnotes

No. Page, Section

1 2, A Scholz Electric Generating Plant consists of two fossil fuel electric generating units. Condenser cooling water is drawn from the Apalachicola River and discharged back into the river via a discharge canal. Ash is collected from the bottom of the boiler and the electrostatic precipitator hoppers and periodically sluiced with water to a dyked ash pond, where sufficient retention time permits the ash to settle out. The ash pond water is discharged into the cooling water discharge canal. Yard drainage and coal pile runoff is discharged to the discharge canal. Construction is now underway to move these streams to the ash pond with completion expected by March 1, 1981. Other low volume wastes (floor drains, building sumps), were routed to the ash pond two years ago. All applicable water quality standards are complied with at the discharge during normal operation.

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2 3, A, 3 Nameplate generation from FPC Form 67.

3 3, B Ash sluice water, both bottom and fly ash, is sluiced with water to a dyked pond on plant property. The pond is designed to allow for sufficient retention time necessary for the ash to settle out. Approximately 31,000 tons of ash are disposed of per year.

4 4, B Date presented in this section was calculated utilizing actual data for the period of October 1979 to September 1980.

5 5, B Average effluent expressed in lbs/day was calculated as follows:

lbs/day =

(Annual Average)
(Discharge Flow Rate) (Concentration (8.36)
(MGD) (mg/l)

Footnotes (continued)

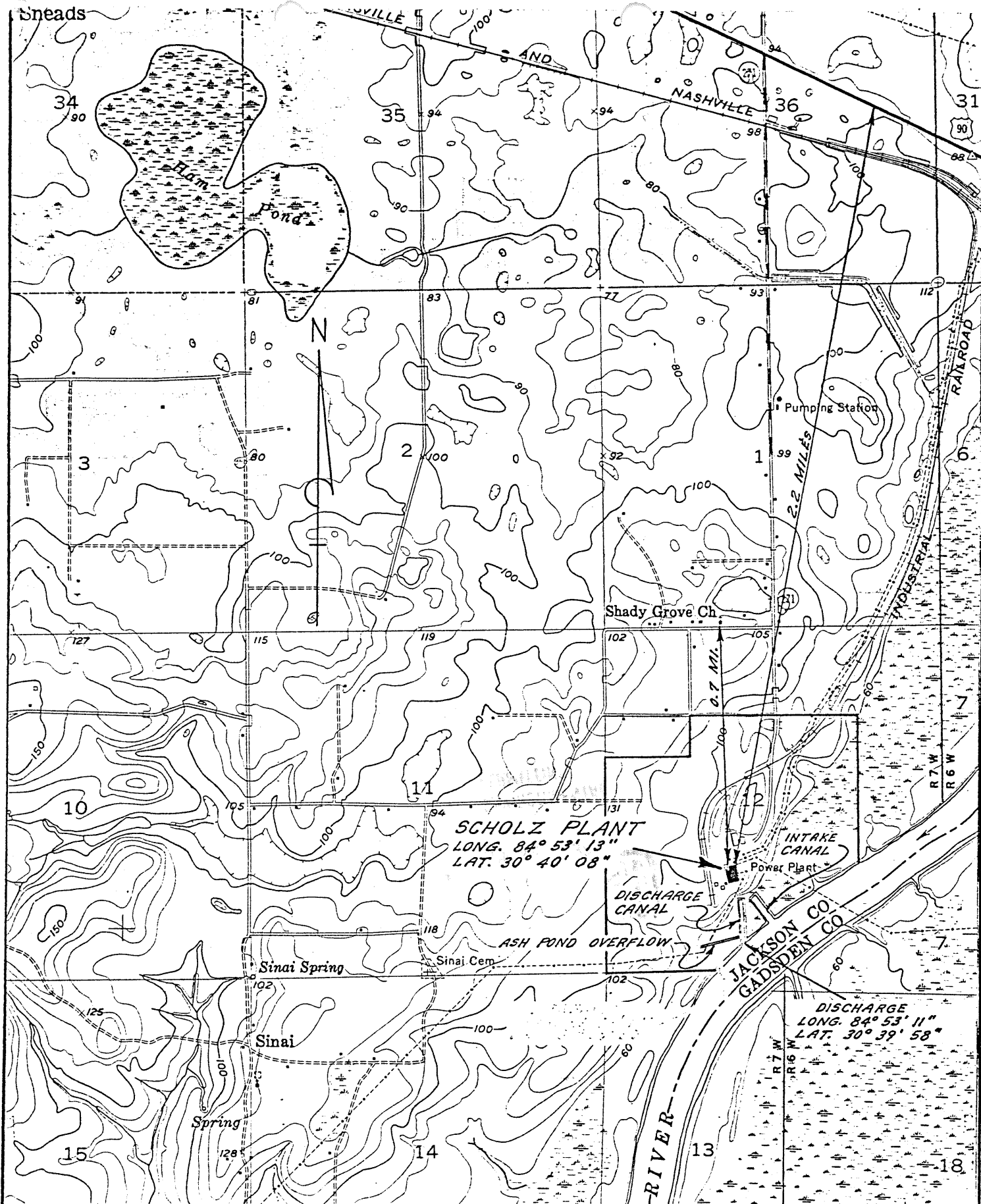
No.	Page, Section	
6	4, B	Effluent temperature calculated by averaging the monthly 24 hour maximum temperatures for the period of October 1979 to September 1980.
7.	5, B, 5.	Calculated by dividing the minimum ten year flow by the maximum discharge flow rate.

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GULF POWER COMPANY

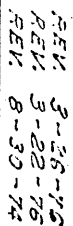


DR. *Hoot*
 TR. _____
 DATE *1-13-71*
 REV. *11-18-80*

SUBJECT *SCHOLZ UNITS 1 & 2 AIR & WATER POLLUTION PERMIT APPLICATION*
 DETAIL *SITE LOCATION AND SURROUNDING AREA*

SCALE _____ SH *1* OF *1* SHEETS

A-3525



TR. A.B.T.

DATE 8-7-74

SUBJECT SCHOLZ STEAM PLANT

DETAIL RIVER WATER CYCLE

SCALE

NOTE

SH / OF / SHEETS

A- 3833