



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

1421 PEACHTREE ST., N. E.
ATLANTA, GEORGIA 30309

DATE: January 29, 1976

PUBLIC NOTICE NO. 76FL0037D

PUBLIC NOTICE OF NPDES PERMIT DETERMINATIONS

Company: Gulf Power Company
Location: Scholz Steam Plant, Chattahoochee, Florida 32324
NPDES Permit No. FL0002283
Permit Effective Date: February 16, 1976
Prior Public Notice No.: 76FL0037
Prior Public Notice Date: October 30, 1975

After due consideration of the facts applicable to the above-named facility and the requirements and policies expressed in the Federal Water Pollution Control Act and appropriate regulation, the Regional Administrator has determined that the National Pollutant Discharge Elimination System permit should be issued with substantial changes from the tentative determinations announced by the previous public notice of this permit. The changes made in the determinations are described in the last section of this notice.

The permit will be effective on the date given above provided that no request for an adjudicatory hearing and/or legal decision is granted by the Agency. If such a request is granted, all contested provisions of the permit will be stayed pending final Agency action. All uncontested provisions of the permit will become effective on the effective date of the permit.

REQUEST FOR ADJUDICATORY HEARING AND/OR LEGAL DECISION

Any interested person may submit a request for an adjudicatory hearing and/or legal decision within ten (10) days of the date of this notice or the date of receipt of this notice, whichever occurs first. The request and two copies thereof must be submitted to the Regional Hearing Clerk, Environmental Protection Agency, 1421 Peachtree Street, N. E., Atlanta, Georgia 30309. The submission of the request will be within the time period if mailed by Certified Mail before the tenth day. The request must:

- (i) State the name and address of the person making such request;
- (ii) Identify the interest of the requestor which is affected by the proposed issuance, denial or modification of the permit contained in the determination of the Regional Administrator;
- (iii) Identify any persons whom the request represents;

(iv) Include an agreement by the requestor to be subject to examination and cross-examination and to make any employee or consultant of such requestor or other person represented by the requestor available for examination and cross-examination at the expense of such requestor or such other person upon the request of the Presiding Officer, on his own motion, or on the motion of any party.

(v) State with particularity the reasons for the request;

(vi) State with particularity the issues proposed to be considered at the hearing; and

(vii) Include proposed terms and conditions which, in the judgment of the requestor, would be required to carry out the intendment of the Act.

Additional information on adjudicatory hearings and legal decisions is found at Title 40 Code of Federal Regulations, Section 125.36, 39, Federal Register 27081.

DESCRIPTION OF SUBSTANTIAL CHANGES

1. The following limitation and monitoring requirements page was added:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning July 1, 1977 and lasting through expiration the permittee is authorized to discharge from outfall(s) serial number(s) 007*- Point source(s) runoff from material storage

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>	<u>Monitoring Requirements</u>	
	Instantaneous Maximum	Measurement Frequency	Sample Type
Flow-m3/Day (MGD)	N/A	1/	1/
Total Suspended Solids (mg/l)	50 2/	1/	1/

Material storage runoff shall include rainfall runoff to navigable waters through any discernible, confined and/or discrete conveyance from or through any coal, ash or other material storage pile.

NOTE: Limitations and monitoring requirements do not apply if discharge is routed to the ash pond.

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/, 2/.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): point(s) of discharge from treatment system prior to mixing with any other waste stream.

1/ Frequency and sample type to be commensurate with the waste treatment system instituted.

2/ Applicable to any flow up to the flow resulting from a 24-hour rainfall event with a probable recurrence interval of once in ten years. If an impoundment is utilized by permittee, it shall be capable of containing a 10 year 24 hour rainfall event.

*Serial assigned for monitoring purposes.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
INTEROFFICE MEMORANDUM

TO: Robert Dillard
District/Subdistrict Manager

ATTN: Bill Bhullar
NPDES Engineer

FROM: John Jackson JJ

DATE: January 12, 1976

SUBJECT: Power Plant Permits

The attached permits listed below were recently issued by the EPA and received by this office.

In each of the State Certifications we have required that the plant comply with the applicable sections of Chapters 17-3 and 17-4. I believe many of the plants are not presently covered by State permits because they were held up to avoid conflicts with the Federal requirements. Some of them also require biological monitoring per 17-3.05 (3). The owners are required to submit a plan to me and I will coordinate, as required, to get a joint approval worked out between Tallahassee and the District/Subdistrict offices. I have contacted most of the company representatives in an effort to avoid a last minute rush and other problems.

The permits in your area are:

City of Tallahassee
Arvah B. Hopkins Generating Station FL0025518

City of Tallahassee
Sam O. Purdom Generating Station FL0025526

✓ Gulf Power Company
Scholz Steam Plant FL0002283

JJ;ms

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

TO: Bob Dillard

FROM: John Jackson *JJ*

DATE: April 7, 1976

SUBJECT: Gulf Power's Smith and Scholz Waste Treatment Plans

Each of us has recently received copies of proposed chemical waste treatment plans. Do you believe the proposal is adequate to provide satisfactory treatment? I would appreciate having your opinion on this. Thanks in advance.

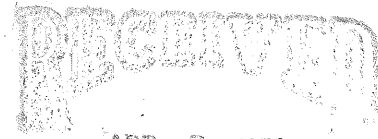
JJ:ms

GULF POWER COMPANY

75 NORTH PACE BOULEVARD
POST OFFICE BOX 1151
PENSACOLA, FLORIDA 32520

April 5, 1976

Mr. Gilbert Wallace
Environmental Protection Agency
Suite 300
1421 Peachtree St.
Atlanta, Ga. 30309



APR 7 1976

Department of Pollution Control
NPDES SECTION

Subject: Scholz Steam Plant NPDES Permit FL0002283:
Chemical Waste Treatment Plan

Dear Mr. Wallace:

Pursuant to the schedule of compliance set out in the above referenced permit, I am herewith enclosing one copy of the "Gulf Power Company Scholz Steam Plant Units 1 and 2 Waste Treatment Plan." This plan represents the "De-tailed Implementation Schedule" requested as the first increment of progress for the chemical waste treatment system.

Should you have any questions concerning the contents of this plan, please do not hesitate to give me a call.

Very truly yours,

Kenneth W. Prest, Jr.

KWPjr:pcf

Attachment

CC: ✓ Fla. Dept. of
Environmental Regulation w/attach.
Robert Dillard w/attach.
G. O. Layman
E. L. Addison

GULF POWER COMPANY
SCHOLZ STEAM PLANT UNITS 1 & 2
WASTE TREATMENT PLAN

March, 1976

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GULF POWER COMPANY

SCHOLZ STEAM PLANT UNITS 1 & 2

WASTE TREATMENT PLAN

March, 1976

1. INTRODUCTION

Gulf Power Company's Scholz Steam Plant is located near Chattahoochee, Florida, on the Apalachicola River approximately three (3) miles below the Jim Woodruff Dam. This plant has two (2) forty (40) megawatt subcritical units. These units are equipped for coal firing only. Fuel oil (No. 2) is maintained on the site for start-up and flame stabilization

Condenser cooling water is withdrawn from the Apalachicola River, passed through the condensers and then returned to the river, via a discharge canal. Water for ash slucing purposes is obtained from the river and returned through the ash pond discharge.

Potable water is supplied from two (2) deep wells located on the plant property. Miscellaneous cooling water, sanitary water, and fire protection and boiler make-up water are obtained from these wells.

Attached Drawing E-PS-4038-15-A depicts the plant layout and is useful in identifying the areas and parameters addressed in this report.

Attached Gulf Power Company Drawings A-3832 and A-3833 are marked to show the waste stream discharges.

Scholz Steam Plant is permitted to operate under N.P.D.E.S. Permit No. FL-0002283 until February 16, 1981.

2. EXISTING WASTE STREAMS

2.1 Sewerage Waste

2.1.1 Potable water is piped to the plant drinking fountains, showers, lavatories, and commodes. Drinking fountain drains, shower drains, and commode drains are routed to an aerobic digestion plant.

2.2 Ash Sluice Water

2.2.1 The ash sluice water for the plant is withdrawn from the common intake tunnels.

2.3 Auxiliary Cooling Water

2.3.1 Cooling water for the air compressor cooler, oil coolers, fan bearings, turbine oil coolers, generator hydrogen coolers, other auxiliaries, and boiler seal water is taken from the river.

2.4 Wash Water (Air Preheater and Precipitator)

2.4.1 Air preheater and precipitator wash water is obtained from the common intake water system directly from the river. This water is only used during a unit outage to remove ash collected on the baskets and plates.

2.5 Floor Drains

2.5.1 Floor drains, boiler blowdown, air preheater wash water, brine regenerant waste, evaporator blowdown and the auxiliary water described below are collected in the building sump.

2.6 Laboratory Drains

2.6.1 All drains from laboratory sinks are piped directly to the building sump.

2.7 Boiler Blowdown

2.7.1 Boiler blowdown is piped directly to the building sump from both Units 1 and 2.

2.8 Site Run-off

2.8.1 All rainfall from the site is concentrated through a standard system of underground sewers.

2.9 Rail Car Unloader Water

2.9.1 The hopper bottom rail cars are self draining, therefore there is not a concentration of water at the unloader.

2.10 Makeup Demineralizer Regenerant Waste

2.10.1 The plant does not have a "conventional" makeup demineralizer. it has a sodium chloride brine regenerated cation resin softener followed by an evaporator. Brine regenerant waste is routed to the building sump via floor drains. Water treatment evaporator blowdown flows directly to the building sump.

2.11 Boiler Chemical Cleaning Wastes

2.11.1 Since both units are small subcritical boilers, boiler cleanings are very infrequent. When cleaning does occur, the wastes will be collected and neutralized in a rubber lined basin.

2.12 Cooling Tower Water Treatment

2.12.1 The plant operates as a once-through unit and does not have cooling towers installed.

2.13 Cooling Tower Blowdown

2.13.1 This plant operates as a once-through unit and does not have cooling towers installed.

2.14 Oily Wastes

2.14.1 Oil storage tanks are surrounded by retaining walls to provide for containment of oil spills.

2.15 Coal Pile Run-off

2.15.1 Water run-off and drainage are collected in the underground yard system.

2.16 Summary

2.16.1 Table I summarizes the existing water and waste management conditions.

3. PRESENT TREATMENT OF WASTE STREAMS

3.1 Sewerage Waste

3.1.1 The plant sewage is treated in a standard package unit that meets all standards of the Department of Health & Rehabilitative Services, Division of Health. The 2,000 gallon per day aerobic digestion plant discharges its effluent through a storm drainage ditch to the discharge canal.

3.2 Ash Sluice Water

3.2.1 All ash sluice water systems are discharged to the ash pond where the ash settles out of the water. The water then flows into the river via standpipe skimmers.

3.3 Auxiliary Cooling Water

3.3.1 Auxiliary cooling water needed for hydrogen coolers, oil coolers, pump bearings, etc., is discharged into the floor drain system and the building sump and then into the discharge canal.

3.4 Wash Water (Air Preheater & Precipitator)

3.4.1 All air preheater wash water used during an outage is discharged to the building sump and then to the discharge canal.

3.4.2 All precipitator wash water used during an outage is discharged to the yard drainage system and then to the discharge canal.

3.5 Floor Drains

3.5.1 All floor drains from the building sump are piped directly to the discharge canal.

3.6 Laboratory Drains

3.6.1 All laboratory drains from the building sump are piped directly to the discharge canal.

3.7 Boiler Blowdown

3.7.1 The drains from the atmospheric flash tank are piped directly to the building sump and then discharged to the discharge canal.

3.8 Site Runoff

3.8.1 No retention or treatment is given normal rainfall runoff through the yard drainage system.

3.9 Rail Car Water

3.9.1 Any water collected in the rail cars drains directly to the sump, is then discharged to the yard drain system, and then to the discharge canal.

3.10 Demineralizer Regenerant Waste

3.10.1 The backwash from the Ion exchanger is piped directly to the building sump and then to the discharge canal.

3.11 Boiler Chemical Cleaning Waste

3.11.1 When a boiler is acid cleaned all waste is collected in the building sump, neutralized, and then discharged to the discharge canal.

3.12 Cooling Tower Water Treatment

3.12.1 This plant does not have cooling towers.

3.13 Cooling Tower Blowdown

3.13.1 This plant does not have cooling towers.

3.14 Oily Wastes

The fill positions on all storage tanks are protected with catch basins that retain any spillage when the tanker hoses are disconnected. The spillage is consolidated with other catchings, and disposed of in the boiler. All oil removed from coal handling tractors is dumped and disposed of in the boilers.

3.15 Coal Pile Drainage

3.15.1 The coal pile drains away from the plant and any drainage is routed to the yard drains.

3.16 Summary

3.16.1 Table I summarized the existing water treatment conditions.

4.0 PROPOSED TREATMENT OF WASTE STREAMS

4.1 Sewerage Waste

None

4.2 Ash Sluice Water

None

4.3 Auxiliary Cooling Water

4.3.1 Replacement pumping equipment will be acquired and all discharges from the building sump will be routed to the ash pond.

4.4 Wash Water

4.4.1 Replacement pumping equipment will be acquired and all discharges from the building sump will be routed to the ash pond.

4.4.2 A new sump will be constructed to collect the wash water and discharge it to the ash pond.

4.5 Floor Drains

4.5.1 Replacement pumping equipment will be acquired and all discharges from the building sump will be routed to the ash pond.

4.6 Laboratory Drains

4.6.1 Replacement pumping equipment will be acquired and all discharges from the building sump will be routed to the ash pond.

4.7 Boiler Blowdown

4.7.1 Replacement pumping equipment will be acquired and all discharges from the building sump will be routed to the ash pond.

4.8 Site Run-off

None

4.9 Rail Car Water

None

4.10 Demineralizer Regenerant Water

4.10.1 Replacement pumping equipment will be acquired and all discharges from the building sump will be routed to the ash pond.

4.11 Boiler Chemical Cleaning Waste

4.11.1 A lined retention pond will be constructed to accumulate the wash water for treatment by a portable chemical cleaning facility prior to discharge into the ash pond.

4.12 Cooling Tower Water Treatment

None

4.13 Cooling Tower Blowdown

None

4.14 Oily Wastes

None

4.15 Coal Pile Drainage

4.15.1 A collection ditch will be constructed around the coal storage area and any runoff pumped into the ash pond.

4.16 Summary

4.16.1 Table II summarizes the proposed waste treatment conditions.

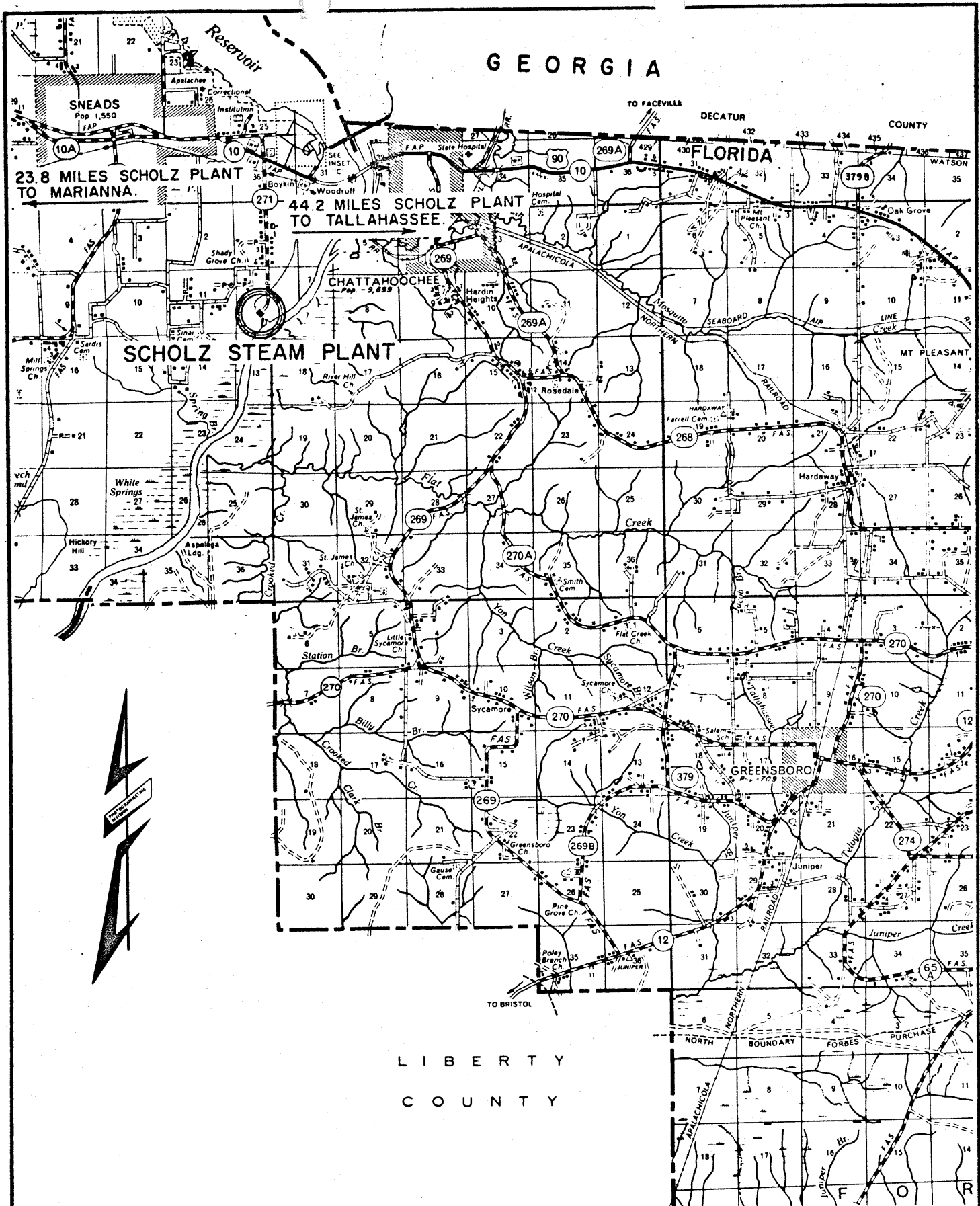
TABLE I
EXISTING WATER AND WASTE MANAGEMENT CONDITIONS

ITEM	WATER SOURCE				DISCHARGE POINT					
	Rain-fall	River Intake Canal	River Dis-charge Canal	Wells	River Dis-charge Canal	Aerobic Diges-tion Plant	Ash Pond	Build-ing Sump	Yard Drains	Contain-ment Pond
Condenser Cooling Water		x			x					
Fire Protection Water				x					x	
Potable Water				x		x				
Aerobic Digestion Plant				x	x					
Makeup Demineralizer Wastes				x				x		
Building Sump		x		x	x					
Auxiliary Water		x			x			x		
Ash Sluice Water			x				x			
Precipitator Wash Water		x							x	
Coal Pile Runoff	x				x				x	
Floor Drains		x		x				x		
Laboratory Drains				x				x		
Boiler Blowdown				x				x		
Site Runoff	x				x					
Rail Car Unloader	x				x					

TABLE II
PROPOSED WATER AND WASTE MANAGEMENT PLAN

ITEM	WATER SOURCE				DISCHARGE POINT					
	Rain-fall	River Intake Canal	River Dis-charge Canal	Wells	River Dis-charge Canal	Aerobic Diges-tion Plant	Ash Pond	Build-ing Sump	Yard Drains	Contain-ment Pond
Condenser Cooling Water		x			x					
Fire Protection Water				x					x	
Potable Water				x		x				
Aerobic Digestion Plant				x	x					
Makeup Demineralizer Wastes				x			0 ←	- x		
Building Sump		x		x	x - - - - -	→ 0				
Auxiliary Water		x			x - - - - -	→ 0				
Ash Sluice Water			x				x			
Precipitator Wash Water				x			0 ←	- - - - -	- x	
Coal Pile Runoff	x						0 ←	- - - - -	- x	
Floor Drains		x		x				x		
Laboratory Drains				x				x		
Boiler Blowdown				x				x		
Site Runoff	x				x					
Rail Car Unloader	x				x					

GULF POWER COMPANY



DR.

TR.

DATE 12-13-72

SUBJECT

SCHOLZ STEAM PLANT

DETAIL

SITE LOCATION

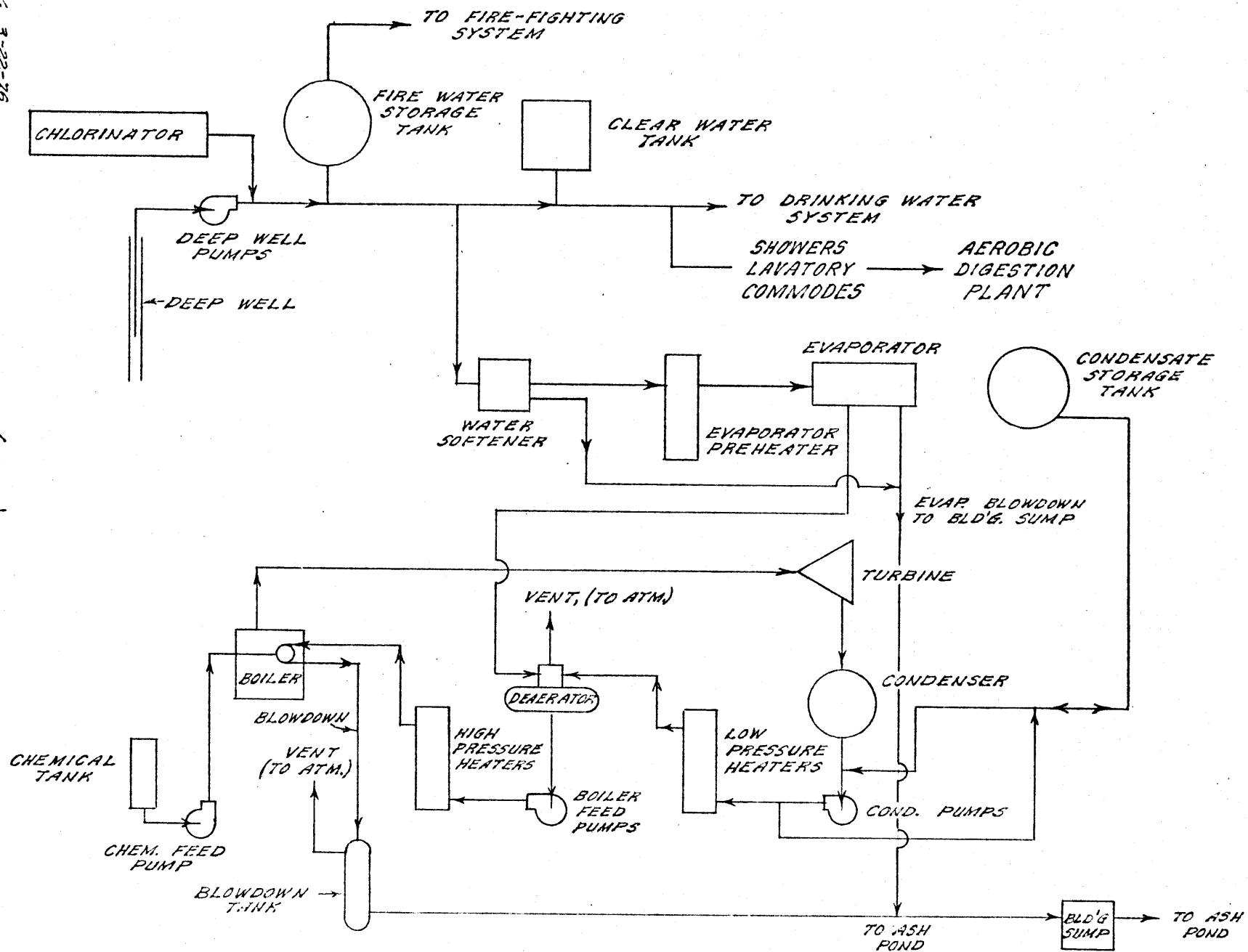
SCALE 1/2" = 1 MILE

SH

OF

SHEETS

A-3662


 REV. 3-22-76
 REV. 2-17-75

(5.3)

 DR. _____
 TR. A.E.T.
 DATE 8-7-74

 SUBJECT **SCHOLZ STEAM PLANT**
 DETAIL **CLEAR WATER, STEAM & FEEDWATER CIRCULATION**
 SCALE **NONE** SH 1 OF 1 SHEETS
 A-3832

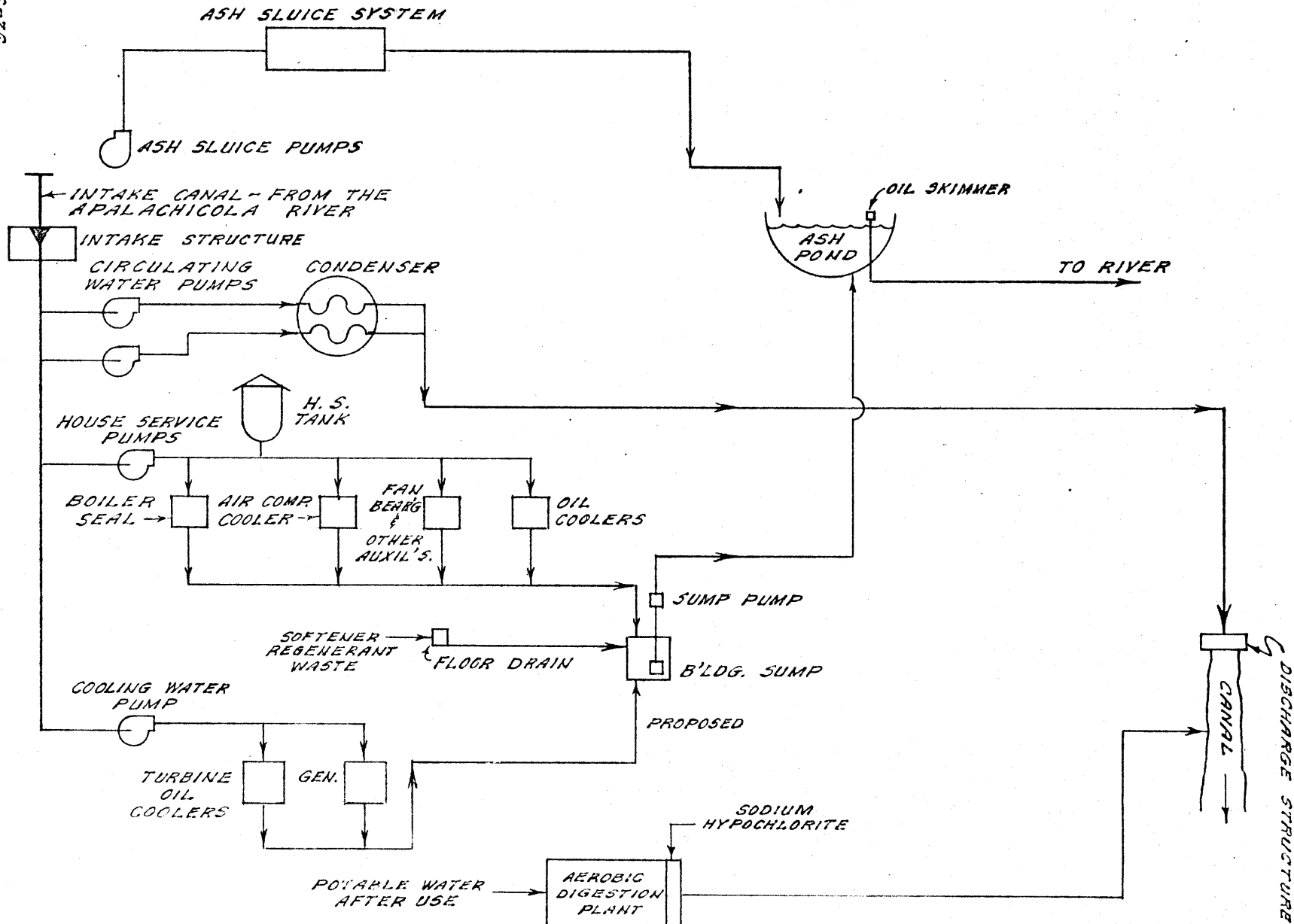
GULF POWER COMPANY

REV. 3-26-76
REV. 3-22-76
REV. 8-30-74

DR. _____
TR. H.E.N.
DATE 8-7-74

SUBJECT: SCHOLZ STEAM PLANT
DETAIL: PROPOSED RIVER WATER CYCLE - UNITS 1 & 2.
SCALE: WONE SH 1 OF 1 SHEETS
A-3833

(5.4)



Construction Schedule

BUILDING SUMP

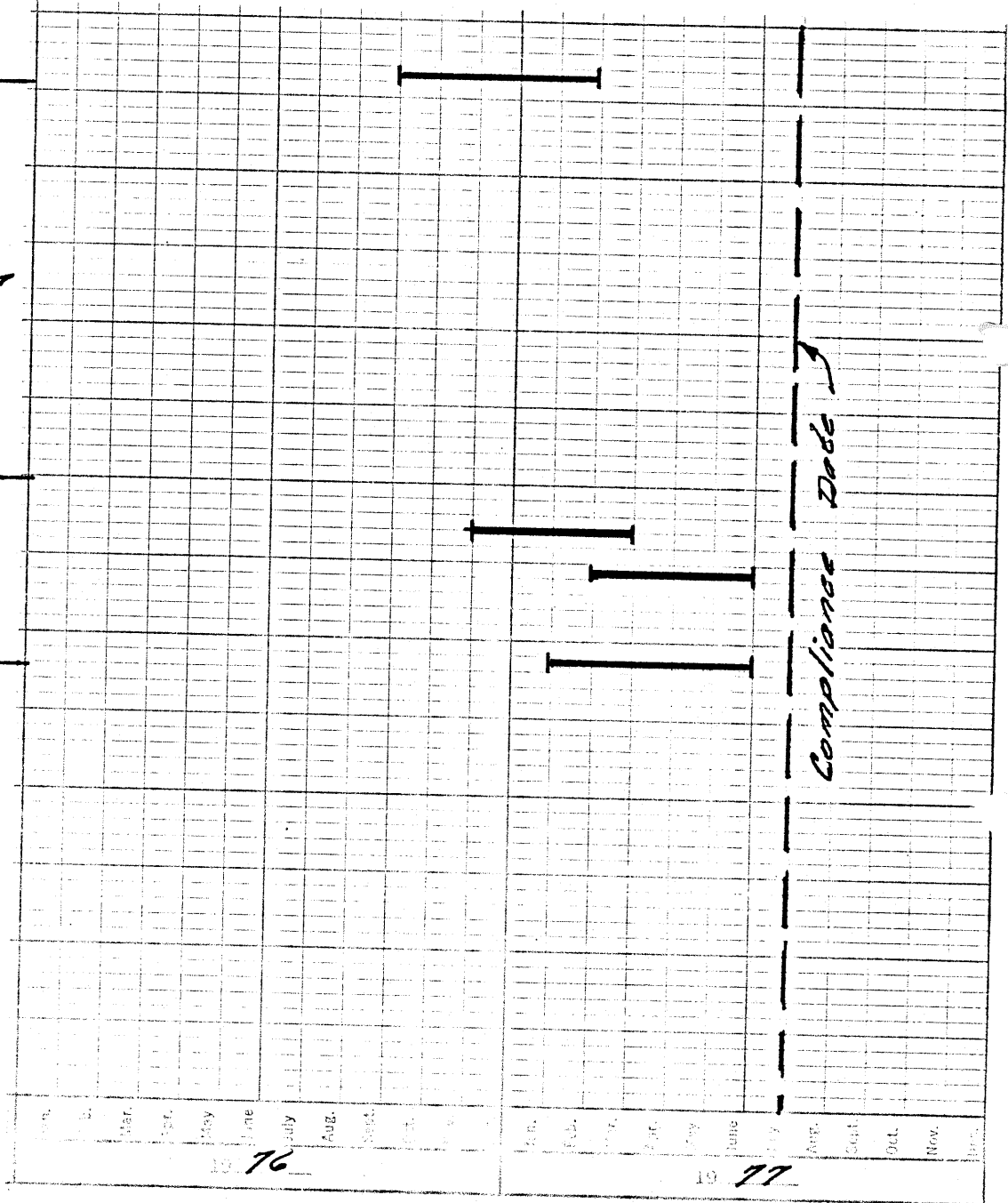
- 4.3.1 Auxiliary Cooling Water
- 4.4.1 Wash Water
- 4.5.1 Floor Drains
- 4.6.1 Laboratory
- 4.7.1 Boiler Blowdown
- 4.10.1 Regenerative Waste

BOILER CHEMICAL CLEANING

- 4.11.1 Pond Float

COAL PILE DRAINAGE

Compliance Date



GULF POWER COMPANY

SUBJECT SCHOLZ PLANT

DETAIL W.R.D.S. FL-0003353

DR. 504

TR. 105

CK. 176

APP. 176

DATE 3/76

SUPERSEDES

SCALE

SH

OF

SHEETS

A-