



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

NOTICE OF PERMIT

CERTIFIED MAIL

In the Matter of an
Application for Permit by:

Gulf Power Company
James O. Vick
One Energy Place
Pensacola, FL 32520-1

File Number FL0002267-011-IWIS
Bay County
Gulf Power Company – Lansing Smith Power Plant

Enclosed is Permit Number FL0002267 to operate the Lansing Smith Power Plant, issued under Chapter 403, Florida Statutes.

Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

Any party to this order (permit) has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this document is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Janet G. Llewellyn

Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8336

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52, Florida Statutes, with the designated Deputy Clerk, receipt of which is hereby acknowledged.

J. Shields 12-18-09
[Clerk Date]

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this INTENT TO ISSUE and all copies were mailed before the close of business on 12-18-09 to the listed persons.

J. Shields
Name

12-18-09
Date

Enclosure

Certified copies furnished to:

Chief, NPDES Permitting Section, EPA Region 4, Atlanta, GA
Susan Kennedy, Q.E.P. Gulf Power Company
Mike Markey, Gulf Power Company

Copies furnished by intradepartmental mail to:

Mike Halpin, P.E., DEP Tallahassee
Justin Wolfe, Esq., DEP Tallahassee
Bill Armstrong, P.E., DEP Pensacola

2nd AMENDMENT TO THE FACT SHEET
AT THE TIME OF PROPOSED PERMIT ISSUANCE

DATE: December 1, 2009

PERMIT NUMBER: FL0002267

PERMITTEE: Gulf Power Company (GPC)
Lansing Smith Power Plant

1. Changes to the Draft Permit and Fact Sheet

The following changes include the permittee's requests to revise the Draft Permit. The permittee requested the changes through a letter, dated November 16, 2009.

Permit:

- a. Amendment to Fact Sheet, Section 1.b. The permittee noted that the through-screen velocity listed in the draft permit and amendment to fact sheet was not representative of facility activities. The Department agreed that the listed velocity was more reflective of the bar screen velocity, and not representative of actual through-screen velocity at the intake structure and updated the administrative record to reflect this change.
- b. Page 3, I.A.1. The Department noted a typographical error in the proposed permit. The units for the effluent limitations for "total recoverable lead" and "total recoverable nickel" in 62-302.530, F.A.C. are specified as "ug/L". The permit incorrectly stated "mg/L" for each and was updated to reflect this change.
- c. Page 9, I.B.5. The permittee noted that the incorrect units were included for "Zinc, Total Recoverable" and "126 Priority Pollutants". The Department agreed that according to 40 CFR 423, the units should be "mg/L" and the sampling requirements in the permit were updated to reflect this change.
- d. Page 8, I.B.1. The Department noted a typographical error in the proposed permit. The units for the effluent limitation for "total recoverable copper" in 40 CFR 423.12(b)(5) are specified as "mg/L". The permit incorrectly stated "ug/L" and was updated to reflect this change.
- e. Page 9, I.B.5. The Department noted a typographical error in the proposed permit. 40 CFR 423.11(a) specifies that "residual oxidants" should be monitored instead of "residual chlorine" in instances where intake water contains bromides. Because the intake water for the Unit 3 cooling tower is comprised of the discharge from the once-through cooling water system, which is considered marine waters, free available oxidants is a more appropriate effluent limitation than free available chlorine for Internal Outfall I-017. The permit document was updated to reflect this change.
- f. Page 15, I.C.13. The permittee noted that in the comments on the draft permit that incorrect dates were given to the Department regarding the wet weather detention volume certification for the ash pond. The permittee requested that the dates be updated to allow for more time to complete the survey and submitted the appropriate dates to the Department. The Department agreed upon the dates and the permit was updated to reflect this change.

Fact Sheet:

Changes as described above to the draft permit are hereby noted as corresponding changes to the Fact Sheet where applicable.

2. Comments by USEPA Region IV Requesting Changes to the Draft Permit and Fact Sheet

No comments were received from EPA regarding the draft permit and fact sheet.

3. Other Comments

No comments were received from the public or from other governmental agencies.

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:
Gulf Power Company

RESPONSIBLE OFFICIAL:
James O. Vick
One Energy Place
Pensacola, Florida 32520-1
(850) 444-6429

PERMIT NUMBER: FL0002267-011 (Major)
FILE NUMBER: FL0002267-011-IW1S
ISSUANCE DATE: December 2, 2009
EXPIRATION DATE: December 1, 2014

FACILITY:

Gulf Power Company
Lansing Smith Power Plant
Bay County Road 2300
Southport, FL 32409
Bay County
Latitude: 30°16' 7.38" N Longitude: 85°42' 3.95" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

FACILITY DESCRIPTION:

The facility is an electric generating plant with a total nameplate rating of 924 megawatts (MW). The existing facility consists of two fossil fuel-fired steam generators (Units 1 and 2), two gas-fired combined-cycle combustion turbine electrical generators each with a duct-fired heat recovery steam generator (Unit 3) and two combustion turbines. Unit 3 is regulated under the Florida Electrical Power Plant Siting Act. Units 1 and 2 use pulverized coal as the primary fuel with distillate fuel oil as a "back-up" fuel.

The Unit 3 steam condenser cooling system uses a closed-loop cooling tower to provide cooling water to the steam condenser and cooling system. Cooling tower make-up water is taken from the existing discharge canal used for Units 1 and 2. In the event that both Units 1 and 2 are not operating, the facility may pump up to 7.2 MGD of makeup water to Unit 3 from behind the Unit 1 and 2 intake screens to the Unit 3 make-up water intake located in the discharge canal.

WASTEWATER TREATMENT:

Once-through cooling water (OTCW), cooling tower blowdown, and overflow from the ash pond discharge to the discharge canal. OTCW discharges without treatment. Wastewater streams that are routed to the cooling tower basin and thus discharged via cooling tower blowdown to the discharge canal are (1) evaporative cooler blowdown; and (2) clean drain effluent from the turbine/boiler building. The cooling tower blowdown valve will be closed during chlorination until chlorine residual concentration decreases to an acceptable concentration.

All other wastewaters from the operation of Units 1 and 2 are discharged to the ash pond. Wastewater streams that discharge to the ash pond include boiler blowdown, water treatment filter backwash, air preheater wash, ash and pyrite sluice, coal pile runoff, yard runoff, treated metal cleaning waste, treated demineralizer regeneration waste, treated domestic wastewater, and other minor process and non-process waste streams. Demineralizer regeneration waste is neutralized and allowed to settle in a retention pond prior to discharge to the ash pond. Metal cleaning waste is neutralized in pipe and is chemically precipitated and allowed to settle in a retention pond prior to discharge to the ash pond. Domestic wastewater receives secondary treatment in an extended aeration package treatment plant prior to on-site recycling at the ash pond. Demineralizer waste composed of (1) green sand filter backwash; (2) multimedia filter backwash; and (3) reverse osmosis concentrate will be routed to an existing stormwater sump to be discharged to the existing ash ponds.

Boiler blowdown from the two heat recovery steam generators (HRSGs) is routed to the main yard sump to be discharged to the existing ash ponds. Gas turbine and equipment waste are drained to the oil-water separator, from which wastewater will

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be drained to the site wastewater sump before being pumped to the existing ash ponds. Transformer enclosure drains are used to drain and release collected stormwater to the site run-off water system. Chemical cleaning waste streams are diverted to the existing on-site metals cleaning pond for disposal.

EFFLUENT DISPOSAL:

Surface Water Discharge D-001: An existing 273.6 MGD Daily Maximum Flow permitted discharge to Warren Bayou, Class II Waters (WBID 1061A). The point of discharge is located approximately at latitude 30°16' 24" N, longitude 85°43' 15" W.

Surface Water Discharge D-00D: An existing 0.01 MGD Daily Maximum Flow permitted discharge to Alligator Bayou, Class III Marine Waters (WBID 1026). The point of discharge is located approximately at latitude 30°16' 04" N, longitude 85°42'03" W.

Internal Outfall I-015: An existing permitted discharge to the ash pond.

Internal Outfall I-017: An existing permitted discharge to the discharge canal, thence to Warren Bayou.

Internal Outfall I-01C: An existing permitted discharge to the discharge canal leading to Outfall D-001.

Internal Outfall I-01A: An existing 0.0075 MGD Annual Average Daily Flow permitted discharge to ash pond.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in this Cover Sheet and Part I through Part IX on pages 1 through 32 of this permit.

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Once-Through Non-Contact Cooling Water, Ash Pond Overflow, and Cooling Tower Blowdown** from **Outfall D-001** to Warren Bayou. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Hourly	Pump Logs	INT-2	
Temp. Diff. between Intake and Discharge	Deg F	Max Max	Report Report	Daily Maximum Monthly Average	4/Day	Calculated	OTH-1	April-Sept See I.A.4
		Max Max	Report Report	Daily Maximum Monthly Average				Oct.-March See I.A.4
pH	s.u.	Min Max	6.5 8.5	Daily Minimum Daily Maximum	Weekly	Grab	EFF-2	
Oxidants, Total Residual	mg/L	Max	0.01 0.01	Daily Maximum Monthly Average	Weekly	Grab	EFF-2	See I.A.6
Oil and Grease	mg/L	Max	5.0 5.0	Daily Maximum Monthly Average	Monthly	Grab	EFF-2	
Copper, Total Recoverable	ug/L	Max	3.7 3.7	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Iron, Total Recoverable	mg/L	Max	0.3 0.3	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Lead, Total Recoverable	ug/L	Max	8.5 8.5	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Nickel, Total Recoverable	ug/L	Max	8.3 8.3	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Chronic Whole Effluent Toxicity, 7-Day IC25 (Americamysis bahia)	percent	Min	100	Single Sample	Quarterly	24-hr TPC ¹	EFF-2	See I.A.10
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Quarterly	24-hr TPC ¹	EFF-2	See I.A.10

- Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
INT-2	Once-through cooling water circulator pumps logs.
OTH-1	The difference between the temperature at the Once-through cooling water condenser inlet and Once-through cooling water discharge structure.
EFF-2	Immediately downstream of the center of the second roadway embankment across the discharge canal downstream of the discharge structure.

- The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]

¹ Either 8-hour manual composite composed of 16 aliquots or 24-hour automatic composite.

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4. The cooling water intake and discharge shall be monitored simultaneously four times per day at approximately six hour intervals over a 24-hour time period. The temperature rise shall be calculated for each temperature intake and discharge measurement and the daily temperature rise for any one day shall be the average of all temperature rise values for that day.
5. Continuous chlorination of the cooling water intake is authorized by this permit.
6. Total Residual Oxidant (TRO) means the value obtained using the amperometric titration method for total residual chlorine. Testing for TRO by titration shall be conducted according to the amperometric method, as specified in Section 4500-Cl D, Standard Methods for the Examination of Water and Wastewater, 19th Edition (or most current edition).
7. The actual limit for the total recoverable metals (Copper, Iron, Lead, and Nickel) shall be the water quality standards set forth in Rule 62-302.530, F.A.C. for Class II waters as specified here or the concentration of the intake cooling water, whichever is greater. If the Outfall D-001 composite sample exceeds the intake concentration (and the intake concentration exceeds the water quality standard), the concentration of a minimum of five (5) additional subsamples shall be analyzed from the original intake and outfall composites. The results shall be evaluated using the "student's t-test" comparing discharge concentrations with the intake concentrations. Unless the discharge concentration exceeds the intake concentration at the 95% confidence level, the facility shall be in compliance with the limitation.

The permittee shall conduct monitoring for the total recoverable metals (Copper, Iron, Lead, and Nickel) while chlorination of the intake water is in process.

8. The permittee shall maintain the current intake through-screen velocity such that the existing maximum velocity is not exceeded.
9. The permittee shall maintain current traveling screen practices at Units 1 and 2 so as to assure that the screens are cycled twice during each 24 hours of continuous operation unless precluded by repair/maintenance requirements.
10. The permittee shall develop a plan in accordance with the schedule in Condition VII.4 to help return live fish, shellfish, and other aquatic organisms collected or trapped on the intake screens to their natural habitat. Other material shall be removed from the intake screens and disposed of in accordance with all existing Federal, State and/or Local laws and regulations that apply to waste disposal. Such material shall not be returned to the receiving waters.
11. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.
 - a. Effluent Limitation
 - (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. *[62-302.530(61) and (1)(b), F.A.C.]*
 - (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. *[62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]*
 - b. Monitoring Frequency
 - (1) Routine toxicity tests shall be conducted once every three months, the first starting within 60 days of the issuance date of this permit and lasting for the duration of this permit.
 - (2) Upon completion of four consecutive valid routine tests that demonstrate compliance with the effluent limitation in 11.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four

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consecutive valid routine tests that demonstrate compliance with the effluent limitation in 11.a.(1) above.

- (3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-014, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

c. Sampling Requirements

- (1) For each routine test or additional follow-up test conducted, a total of three 24-hour composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.
- (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
- (3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements

- (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%, 50%, 25%, 12.5%, and 6.25%** final effluent.
- (2) The permittee shall conduct 7-day survival and growth chronic toxicity tests with a mysid shrimp, **Americamysis (Mysidopsis) bahia**, Method 1007.0, and an inland silverside, **Menidia beryllina**, Method 1006.0, concurrently.
- (3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, 3rd Edition, EPA-821-R-02-014. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
- (4) The control water and dilution water used shall be artificial sea salts as described in EPA-821-R-02-014, Section 7.2. The test salinity shall be determined as follows:
 - (a) For the **Americamysis bahia** bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt) with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
 - (b) For the **Menidia beryllina** bioassays, if the effluent salinity is less than 5ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
 - (c) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.

e. Quality Assurance Requirements

- (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

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- (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or any test does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (*Americamysis bahia*) and Section 13.12 (*Menidia beryllina*). The repeat test shall begin within 21 days after the last day of the invalid test.
 - (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
 - (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.
- f. Reporting Requirements
- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
 - (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
 - (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
 - (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
 - (5) The same bioassay data shall not be reported as the results of more than one test.
 - (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, Florida 32502-5794
- g. Test Failures
- (1) A test fails when the test results do not meet the limits in 11.a.(1).
 - (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the chronic toxicity limitation in 11.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests according to 11.d. on each species that failed the test on each species that failed the test in accordance with 11.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-014.
 - (3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
 - (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
 - (b) The Department shall review and approve the plan before initiation.
 - (c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
 - (d) Progress reports shall be submitted quarterly to the Department at the address above.

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- (e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 11.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 11.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
- (f) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 11.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of terminating the plan.
- (4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 11.(b)(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.
- (5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

12. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Emergency Overflow Discharge** from **Outfall D-00D** to the intake canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	Report	Daily Maximum	Per discharge	Calculated	EFF-5	
Duration of Discharge	min	Max	Report	Daily Maximum	Per discharge	Estimated	EFF-5	
Oil and Grease	mg/L	Max	5.0 5.0	Monthly Average Daily Maximum	Twice Per discharge	Grab ²	EFF-5	
Solids, Total Suspended	mg/L	Max Max	30 100	Monthly Average Daily Maximum	Twice Per discharge	Grab ²	EFF-5	
pH	s.u.	Min Max	6.5 8.5	Daily Minimum Daily Maximum	Twice Per discharge	Grab ²	EFF-5	

13. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.11. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-5	The main yard sump at the nearest accessible point prior to discharge.

14. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]

² Samples shall be taken at the start and completion of discharge.

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15. The discharge from this outfall is intermittent, therefore, flow measurement or sampling is required only during periods of discharge.
16. All due diligence will be taken to not discharge air pre-heater and precipitator wash wastes during times of discharge from this outfall.

B. Internal Outfalls

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Metal Cleaning Wastewater** from **I-015** to the Ash Pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGAL	Max Max	Report Report	Monthly Average Daily Maximum	Per occurrence	Calculated	EFF-3	See I.B.4
Copper, Total Recoverable	mg/L	Max Max	1.0 1.0	Monthly Average Daily Maximum	Per occurrence	Composite ³	EFF-3	
Iron, Total Recoverable	mg/L	Max Max	1.0 1.0	Monthly Average Daily Maximum	Per occurrence	Composite ³	EFF-3	

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-3	Discharge from metal cleaning waste treatment pond prior to discharge to the ash pond.

3. Metal cleaning wastes shall mean any chemical cleaning compounds, rinse waters, or any other waterborne residues derived from chemical cleaning any metal process equipment including, but not limited to, boiler tube cleaning, boiler fireside cleaning, and air pre-heater cleaning.
4. For one cleaning during a month, the same value for average and daily maximum shall be reported. For two or more cleanings during a month the average batch volume shall be reported as the monthly average and the maximum batch volume shall be reported as the maximum.
5. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Cooling Tower Blowdown** from **I-017** to the Discharge Canal, thence to Warren Bayou. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes

³ The composite shall consist of aliquots collected once per hour throughout the period of the discharge event.

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Hourly	Pump Logs	EFF-7	
Oxidants, Free Available (FAO)	mg/L	Max Max	0.2 0.5	Daily Average Daily Maximum	Per application	Multiple Grab	EFF-7	
Chromium, Total Recoverable	mg/L	Max Max	0.2 0.2	Monthly Average Daily Maximum	Quarterly	Grab	EFF-7	
Zinc, Total Recoverable	mg/L	Max Max	1.0 1.0	Monthly Average Daily Maximum	Quarterly	Grab	EFF-7	
126 priority pollutants	mg/L	Max Max	<MDL <MDL	Monthly Average Daily Maximum	Annually	Grab or Calculation	EFF-7 EFF-7	See I.B.9

6. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.5. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-7	The end of the discharge structure leading from the cooling tower exit and prior to being discharged to the discharge canal.

7. The time of sampling shall be immediately after the opening of the blowdown valve and prior to being discharged into the discharge canal at point EFF-7.
8. Cooling tower blowdown shall be minimized to the degree allowed by best engineering practices.
9. The permittee shall, within 30 days of permit issuance and yearly thereafter, provide certification that the 126 priority pollutants (as listed in 40 CFR Part 423, Appendix A) are below the method detection limits (MDL) for the applicable analytical methods required under permit condition I.C.1 in the cooling tower blowdown as a result of the addition of any maintenance chemicals. Compliance shall be demonstrated by one of the three methods:

Method 1: Sampling at a frequency of not less than once per year for all priority pollutants referenced above with submission of analysis results with each certification.

Method 2: Submission of certification(s) from the manufacturer that each product used contains no priority pollutants. Such submission is required only once for each product used, unless subsequent changes in the product formulation occur or the product is obtained from a different source. Certifications for all products in use shall be maintained on site.

Method 3: Calculations to assure that if priority pollutants are contained in any product(s), no discharge of any individual priority pollutant can occur at concentrations greater than detectable levels using analytical methods in 40 CFR Part 136 due to dilution within the cooling water system.

The certification shall be in the following form: "I certify that no priority pollutants at concentrations greater than detectable levels using analytical methods in 40 CFR Part 136 are being discharged from any maintenance chemicals added to the cooling towers. Compliance is demonstrated by Method ____."

10. Neither free available oxidants (FAO), total residual oxidants (TRO), nor any other Department-approved biocide shall be discharged from any tower for more than two hours in any one day. No more than one tower

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shall discharge FAO, TRO or other biocide at one time. Samples shall be taken when chlorine or Department-approved chlorine-based product is in use. TRO monitoring shall be adequate to document compliance with this requirement. Chlorine shall not be used in conjunction with any other biocide during treatment of any one cooling tower.

11. Multiple grabs for TRO shall be defined as once per five minutes during TRO discharge periods of 30 minutes or less and once per 15 minutes for periods exceeding 30 minutes with no less than four analyses during the period of TRO discharge (sampling shall be continued until the end of the TRO discharge).
12. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Ash Pond Overflow** from **I-01C** to the Discharge Canal leading to Outfall D-001. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Daily	Meter ⁴	EFF-4	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Weekly	Grab	EFF-4	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Weekly	Grab	EFF-4	
Oil and Grease	mg/L	Min Max	15.0 20.0	Monthly Average Daily Maximum	Weekly	Grab	EFF-4	
Arsenic, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Cadmium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Chromium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	See I.B.15
Copper, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Iron, Total Recoverable	mg/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Lead, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Mercury, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Nickel, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Selenium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Zinc, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Radium 226 + Radium 228, Total	pCi/L	Max	Report	Daily Maximum	Semi-Annually ⁵	24-hr TPC	EFF-4	
Nitrite plus Nitrate, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Total	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	

⁴ Flow meters shall be calibrated at least once a year in accordance with the manufacturer recommendations. Calibration records shall be maintained on-site in accordance with Section VI.2 of this permit.

⁵ Samples shall be taken during the first half and second half of the calendar year and shall be taken a minimum of 4 months apart when possible depending on the frequency of the ash pond overflow.

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Nitrogen, Total, Monthly Loading	lbs/month	Max	Report	Monthly Total	Monthly	Calculated	EFF-4	
Nitrogen Total, Annual Loading	lbs/year	Max	Report	12-Month Rolling Total	Monthly	Calculated	EFF-4	

13. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.12. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-4	Ash pond discharge parshall flume.

14. The discharge from this outfall is intermittent; therefore, flow measurement or sampling is required only during periods of discharge.
15. If the total chromium level exceeds 50 µg/L, the permittee shall resample and Chromium VI analysis shall be performed and reported.
16. The permittee shall not discharge wash water from both Unit 1 and Unit 2 air pre-heaters to the ash pond at the same time. There shall be a minimum of 14 days between discharges of wash water from the air pre-heaters to the ash pond.
17. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Domestic Wastewater Treatment Plant Effluent from I-01A** to the Ash Pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	0.0075	Annual Average	5 Days/Week	Meter	FLW-1	See I.B.19
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab	OUI-6	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab	OUI-6	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	OUI-6	
Coliform, Fecal	#/100mL	Max	See I.B.20		Monthly	Grab	OUI-6	See I.B.20
Chlorine, Total Residual	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab	OUI-6	See I.B.21
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Total	Monthly	Calculated	OTH-2	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	Monthly	Grab	INF-1	See I.B.22
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	Monthly	Grab	INF-1	See I.B.22

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18. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.17. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow-meter and totalizer for domestic effluent.
OUI-6	Effluent wet well.
OTH-2	Calculated value.
INF-1	Domestic influent monitoring location.

19. The ultrasonic flow meter shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and 62-601.500(6)].
20. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. *Note:* To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. [62-610.410 and 62-600.440(4)(c)]
21. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-610.410 and 62-600.440(4)(b)]
22. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4)]

C. Other Limitations and Monitoring and Reporting Requirements

1. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

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Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

2. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]
3. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	Due Date
Monthly or Toxicity	first day of month - last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 30	July 28 January 28
Annual	January 1 - December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

[62-620.610(18)]

4. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northwest District Office at the address specified below:

Florida Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, Florida 32502-5794

Phone Number - (850) 595-8300

FAX Number - (850) 595-8417 (All FAX copies shall be followed by original copies.)

[62-620.305]

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5. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]
6. If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. [62-620.320(6)]
7. Any bypass of the treatment facility which is not included in the monitoring specified in sections I.A, I.B, I.C, or I.D, is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR.
8. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. The permittee shall dispose of all known PCB equipment, articles, and wastes in accordance with 40 CFR 761. The permittee shall certify each time that this disposal has been accomplished.
9. Discharge of uncontaminated storm water, intake screen backwash water, turbine oil cooler water, and hydrogen generator cooler water is permitted without limitations or monitoring requirements, except that there shall be no discharge of floating oil.
10. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which ultimately may be released to waters of the State is prohibited unless specifically authorized elsewhere in this permit. This requirement is not applicable to products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit.

A permit revision from the Department shall be required prior to the use of any biocide or chemical additive used in the cooling system (except chlorine as authorized elsewhere in this permit) or any other portion of the treatment system which may be toxic to aquatic life. The permit revision request shall include:

- a. Name and general composition of biocide or chemical
- b. Frequencies of use
- c. Quantities to be used
- d. Proposed effluent concentrations
- e. Acute and/or chronic toxicity data (laboratory reports shall be prepared according to Section 12 of EPA document no. EPA-821-R-02-012 EP entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, or most current addition.)
- f. Product data sheet
- g. Product label

The Department shall review the above information to determine if a major or minor permit revision is necessary. Discharge associated with the use of such biocide or chemical is not authorized without a permit revision by the Department. Permit revisions shall be processed in accordance with the requirements of Chapter 62-620, F.A.C.

11. Discharge of any waste resulting from the combustion of toxic, hazardous, or metal cleaning wastes to any waste stream which ultimately discharges to waters of the State is prohibited, unless specifically authorized elsewhere in this permit. The discharge of plant ash transport water, resulting from the combustion of on-specification used oil as authorized under the Resource Conservation and Recovery Act and 40 CFR Part 266, via the ash pond shall be an authorized discharge of this permit.
12. The permittee shall periodically survey all ash pond dikes and toe areas for structural integrity. No later than January 31, 2010, and annually thereafter, the permittee shall certify that no breaches or structural defects resulting in the discharges to surface waters of the State were observed during the previous calendar year. In the event that such defect(s) exists and results in potential discharge to surface waters of the State, the

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permittee shall notify the Department within fifteen (15) days of becoming aware of the situation and provide a proposed course of corrective action and implementation schedule.

13. The permittee shall not store coal, soil, or other similar erodable materials in a manner in which runoff is uncontrolled, or conduct construction activities in a manner which produces uncontrolled runoff. No later than January 31, 2011, the permittee shall certify that the ash pond provides the necessary minimum wet weather detention volume to contain the combined volume for all direct rainfall and all rainfall runoff to the pond resulting from the 10-year, 24-hour rainfall event and maximum dry weather plant waste flows which could occur during a 24-hour period. This volume shall be calculated between the top of the sediment level and the minimum overflow discharge elevation (stop logs, weirs, etc.) on the ash pond effluent structure to the return channel. [Note: A valve discharge pipe below the elevation of the top-most stop log may be provided to allow the minimum necessary flow of ash sluice recycle to the return channel during periods of the low ash pond water level.] If the permittee can demonstrate that the recycle canal provides acceptable treatment volume, this additional detention volume can be included. All data necessary to support this certification shall be submitted with the certification to the Department.

No later than December 31, 2012, the permittee shall again certify that the ash pond provides the minimum wet weather volume as specified above based on a physical survey of the pond and shall provide a summary of the calculations to support the certification.

14. The Permittee shall notify the Department in writing at least 14 days before transferring make up water to Unit 3 from the Units 1 and 2 intakes, if practical.
15. The permittee is authorized to use the anti-scalant maintenance chemical Belclene 200 (Belclene) in the Unit 3 cooling tower subject to the following conditions:
- a. Belclene shall not be used simultaneously with other biocides approved for use;
 - b. Belclene shall be applied to treat the Unit 3 cooling tower via continuous feed at a feed concentration not to exceed 10 ppm;
 - c. Belclene shall not be used unless both Units 1 and 2 are circulating water through their once-through cooling water systems to the discharge canal; and
 - d. The facility shall maintain a record of Belclene 200 usage including start and end dates, daily feed concentration, discharge canal flow rate, and Unit 3 cooling tower blowdown flow rate.
16. The permittee is authorized to use the following other chemicals and biocides in the service water systems and other plant water systems:

Chemical Name	System Used
Ammonia	Boiler water system
Chlorine Gas	Units 1 and 2 once-through cooling water system
Ferrous Sulfate	Units 1 and 2 once-through cooling water system
Foamtrol 1440	Unit 3 cooling tower
Glutaraldehyde 25% and 50%	Units 1, 2, and 3 service water systems
Hydrazine	Boiler water system
SC-2000	Units 1, 2, and 3 service water systems
Sodium Hypochlorite 12.5%	Unit 3 cooling tower
Sulfuric Acid	Ash pond - in area of ash sluice discharge pipe

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17. The permittee shall re-submit a plan of study titled "Proposed Monitoring Study at Smith Electric Generating Plant" and shall submit the results of the study in accordance with the schedule in Section VII.

II. DOMESTIC RESIDUALS REQUIREMENTS

1. The method of residuals use or disposal by this facility is transport to any DEP permitted residuals management facility (RMF) or disposal in a Class I or II solid waste landfill.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. [62-640.300(5)]
3. The permittee shall not be held responsible for treatment, management, use, or land application violations that occur after its residuals have been accepted by a permitted residuals management facility with which the source facility has an agreement in accordance with Rule 62-640.880(1)(c), F.A.C., for further treatment, management, use or land application. [62-640.300(5)]
4. Disposal of residuals, septage, and other solids in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(k)3 & 4]
5. The permittee shall keep hauling records to track the transport of residuals to a residuals management facility. The hauling records shall contain the following information:

<u>Source Facility</u>	<u>Residuals Management Facility or Treatment Facility</u>
1. Date and Time Shipped	1. Date and Time Received
2. Amount of Residuals Shipped	2. Amount of Residuals Received
3. Degree of Treatment (if applicable)	3. Name and ID Number of Source Facility
4. Name and ID Number of Residuals Management Facility or Treatment Facility	4. Signature of Hauler
5. Signature of Responsible Party at Source Facility	5. Signature of Responsible Party at Residuals Management Facility or Treatment Facility
6. Signature of Hauler and Name of Hauling Firm	

These records shall be kept for five years and shall be made available for inspection upon request by the Department. A copy of the hauling records information maintained by the source facility shall be provided upon delivery of the residuals to the residuals management facility or treatment facility. The permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of residuals leaving the source facility and arriving at the residuals management facility or treatment facility. [62-640.880(4)]

6. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. [62-640.300(4)]

III. COMBUSTION BY-PRODUCTS MANAGEMENT REQUIREMENTS

1. Combustion by-products produced by the operation of the Lansing Smith Power Plant: ash, non-hazardous metal cleaning wastewater sludge, and other solid waste approved by the Department shall be disposed of in the on-site 72 acre solid waste management facility permitted through this permit or to another appropriate solid waste management facility permitted by the Department.
2. The disposal of combustion by-products in the on-site solid waste management facility permitted by this permit shall be in accordance with the construction application, submitted September 19, 1985, Drawing D-31114 revised September 17, 1985, FDEP letter June 19, 1996 and the requirements of Chapter 62-701, F.A.C., except as modified by Evaluation of Solid Waste Management Practices and Requirements for the Florida Electric Utility Industry.

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3. A copy of the engineering drawings, plans, reports, construction permit, and supporting information shall be kept at this landfill at all times for reference and inspections.
4. Small amounts of accumulated debris that has been removed from the plant's cooling water intake screens, consisting mainly of vegetation, may be placed in a central location near the ash landfill.
5. In no event shall any solid waste other than combustion by-products or other materials approved by the Department be disposed of on the plant site other than in areas specifically designated in the application.
6. The solid waste management facility was constructed in phases. The liner beneath the ground level cells consists of either of the following two construction materials:
 - a. Minimum 1 foot clay liner with maximum permeability of 1×10^{-7} cm/sec compacted to 90% of Proctor, or
 - b. 60 mil HPDE liner and geosynthetic clay liner
7. The final cover system, including the drainage soil, top soil and seeding, shall be completed within 180 days after the final waste deposit date.
8. Final closure of the facility shall comply with the provisions of Rules 62-701.600 through 62-701.620, FAC, except as modified by Evaluation of Solid Waste Management Practices and Requirements for the Florida Electric Utility Industry and any additional requirements in effect at the time wastes cease to be accepted by the facility.
9. Surface water runoff shall be controlled during operation under this permit and shall comply with FAC Chapter 62-302 at the site boundary.

IV. GROUND WATER REQUIREMENTS

1. Compliance with water quality standards of Rule 62-520.420, F.A.C. and as contained in Rules 62-550.310 and 62-550.320, F.A.C., shall be met. Beyond the southern edge of the zone of discharge, applicable surface water criteria in accordance with 62-302, F.A.C., shall also be met.

The zone of discharge for this project shall extend horizontally to the former property line and along the discharge canal right of way or mean high water line as depicted on the attached map and vertically from the land surface to the top of the Intracoastal Formation at approximately -20 ft mean sea level.
[62-520.200(26)] [62-520.465]

2. Monitoring wells are exempt from compliance with secondary drinking water standards unless the Department determines that compliance with one or more secondary standards is necessary to protect groundwater used or reasonably like to be used as a potable water source. [62-520.520(1)]
3. Any new or replacement wells shall be of an appropriate diameter so as to provide reliable and representative water quality results. They shall have appropriate screen length and shall be constructed in accordance with the guidelines provided on Attachment 2. Sieve analyses shall be submitted and shall be used for proper well design. Required well construction permits shall be obtained from the Northwest Florida Water Management District. Upon installation and after settling, new wells shall be properly developed. Upon completion of construction of new wells, lithologic logs, "as installed" diagrams and descriptions of well development shall be submitted to the Department.

A registered Florida land surveyor shall locate all wells and the coordinates shall be reported in accordance with Rule 62-701.510(3), F.A.C. Existing wells not used in the approved monitoring network for collection of samples or water elevation data shall be properly maintained or shall be properly abandoned in accordance with Rule 62-532.500(4), F.A.C. Appropriate well abandonment permits shall be obtained from the Northwest Florida Water Management District. [62-710.510(3)(d)1 and 62-632.500(4)]

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4. The water quality network shall consist of the monitoring wells designated below (one background, four compliance, and four detection). The groundwater monitoring network is graphically represented on Attachment 1. The following designations shall be used for groundwater monitoring identification purposes in all future analysis reports:

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude			Longitude			Depth (Feet)	Aquifer Monitored	New or Existing
		°	'	"	°	'	"			
MWB-1	Formerly known as LB-1, WAFR Site Number 29224, Location northwest of landfill	30	16	17	85	41	7	14	Surficial	Existing
MWC-1	Formerly known as LC-1, WAFR Site Number 29233 Location Southeast of Ash Landfill	30	15	57	85	40	57	15	Surficial	Existing
MWC-5	Formerly known as M-5, WAFR Site Number 138 Location 900 ft S of NE property corner	30	16	8	85	40	56	20	Surficial	Existing
MWI-10	New well located approximately 1800 ft. west of southeastern corner of ash landfill.								Surficial	New
MWI-12A	Formerly known as 9-12A, WAFR Site Number 134 Location 500 ft S of SW corner of Ash Landfill	30	15	51	85	41	16	15	Surficial	Existing
MWI-3A	Formerly known as 9-3A, WAFR Site Number 137 Location 500 ft S of SW corner of Ash Pond	30	15	36	85	41	50	15	Surficial	Existing
MWI-7	Formerly known as 9-7, WAFR Site Number 135 Location 200 ft S of Ash Pond	30	15	43	85	41	38	27	Surficial	Existing
MWI-9	Formerly known as 9-9, WAFR Site Number 136 Location 400 ft S of SE corner of Ash Pond	30	15	48	85	41	27	18	Surficial	Existing

MWC = Compliance; MWB = Background; MWI = Intermediate; MWP = Piezometer

[62-520.600]

5. All groundwater monitoring wells identified in Permit Condition III.4 shall be sampled annually for parameters listed below, except for that MWC-5 shall remain in the monitoring network for water level elevation measurements only:

Field Parameters	Laboratory Parameters
Static water level in wells before purging	Aluminum, Total Recoverable (001104)
Specific conductivity	Arsenic, Total Recoverable (050094)
pH	Cadmium, Total Recoverable (050099)
Dissolved oxygen	Chloride
Turbidity	Chromium, Total Recoverable (050101)
Temperature	Copper, Total Recoverable (050102)
Oxidation-Reduction Potential (046480)	Iron, Total Recoverable (050103)
Colors and sheens (by observation)	Lead, Total Recoverable (050110)
	Manganese, Total Recoverable (050106)
	Mercury, Total Recoverable (071901)
	Nickel, Total Recoverable (050109)
	Selenium, Total Recoverable (050112)
	Sodium, Total Recoverable (050108)

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Field Parameters	Laboratory Parameters
	Sulfates
	Zinc, Total Recoverable (050117)
	Total Dissolved Solids (TDS)
	Total Suspended Solids (TSS)

6. The limit for Total Recoverable Sodium at monitoring well MWC-1 shall be "Report".
7. Water levels in each monitoring well shall be measured in a single day. During well sampling, water levels shall be measured on the sample day and recorded prior to evacuating the wells or collecting samples. Water level, top of well casing and land surface elevations at each well site, at a precision of plus or minus 0.01 feet NGVD, shall be reported on each analysis report. Prior to sampling, the field parameters of Rule 62-701.730(4)(b), F.A.C., shall be stabilized from each well. Sampling and purging methods in the SOPs, as allowed in Chapter 62-160, F.A.C. must be used.
8. All analyses of samples shall be conducted using approved State and federal analytical methods with detection limits at or below the maximum allowable concentrations for all parameters, whenever possible.
9. Background water quality shall be sampled and analyzed in accordance with the provisions of Rule 62-701.510(6)(b), F.A.C. All background and detection wells shall be sampled and analyzed at least once prior to permit renewal for those parameters listed in Condition III.5 above.
10. A permit modification request to delete specific laboratory or field parameters must contain a demonstration that these parameters are not reasonable expected to be in or derived from the waste which was received or disposed of at the facility.
11. Rainfall at the site shall be measured on a daily basis and the results submitted with the semi-annual reports.
12. The results of each set of annual groundwater analyses shall be submitted separate cover, no later than February 15 and August 15 each year, commencing with the February 15, 2010 report. *[62-701.730(4)(b), 62-701.510(6) & (8), permit application received December 23, 2008 and subsequent incompleteness information]*
13. The results of each set of annual groundwater analyses may be submitted electronically on diskettes or compact disc media readable by a Microsoft Windows computer. The Department may use electronic tools (e.g. Validator) to conduct data quality review and compliance checking. Electronic laboratory data must be submitted in a specific format called a tab-delimited text file with the first line of the file being the data field names. (Note: Microsoft Excel produces this file format when the "Save As" and "Text (Tab Delimited)" options are selected.)

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The following data fields must be present in the data:	
Analytical Method	Analytical Result
Analytical Result Units	Appropriate Data Qualifiers (as listed in Chapter 62-160, F.A.C.)
Date of Analysis	Date of Preparation (if applicable)
Date of Sampling	Detection Limit of the Analysis
DOH Certification Number of the Laboratory	Facility Identification Number
Matrix (Aqueous, Drinking Water, Saline/Estuarine, or Solids)	Parameter Name (Name of the Compound Analyzed for/Test Performed)
STORET Parameter Code (as provided by the Department's Bureau of Solid and Hazardous Waste; must be six digits: e.g. 039430 for Isodrin)	Test site ID

Future Changes to data filed requirements by the Department do not require a permit modification. All dates are to be submitted in MM/DD/YYYY HH:MM:SS format (e.g. 05/04/1955 17:18:00 for May 4, 1955 5:18:00 p.m.) A sample of an acceptable data format will be posted to the Bureau of Laboratories web site, <http://www.floridadep.org/labs/software>.

The submittal shall also include laboratory reports, Chain of Custody sheets, field data sheets, Water Sampling Logs (attached), groundwater contour maps, a summary of any water quality standards or minimum criteria that are exceeded and any other required documents. These reports may be submitted electronically in portable document format (PDF) in lieu of a paper copy. If a specific document has a requirement to be signed and sealed, an original signed and sealed paper copy must also be submitted unless it is specifically permitted by law or rule to be signed electronically. [62-701.510(6) and (8)(a), (b) & (d)]

14. If at any time it is determined that any well in the routine monitoring system is not functioning properly and is not providing representative water quality samples, the permittee shall have the wells evaluated, redeveloped, or replaced such that representative samples will be obtained during the next required routine sampling event.

Any well which must be redeveloped should be surged with formation water or a surge block only. Wells which still produce sediment and high turbidity should be considered for replacement. Wells with high turbidity should be evaluated using the procedures called for in Rule 62-520.300(9), F.A.C.

Any well requiring replacement shall be designed and completed by methods in Sections 5 and 6 of the Handbook of Suggested Practices for the Design and Installation of Groundwater Monitoring Wells, EPA/600/4-89/034, March 1991. [62-701.510 and 62-522]

15. Attachment 3, DEP Form 62-522.900(2), shall be reproduced by the permittee and shall be used for water quality data submittals. All water quality monitoring reports required by this permit shall be submitted to:

Department of Environmental Protection
Northwest District Office
Solid Waste Section
160 Governmental Center, Suite 308
Pensacola, Florida 32502

The Department FDEP Permit Number FL0002267 and the Department PA File Number FL0002267-006-1WIS for this facility shall be recorded on each report. The Test Site Number and Well Name shall be used on each report to identify the sampling point. A master list of analyses parameter STORET codes is provided by **Attachment 4**. STORET codes not provided in Attachment 4 are provided next to the listed laboratory

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parameters. The appropriate STORET code shall be listed in the extreme left column of the forms for each parameter. [62-701.510 and 62-522]

16. A complete sampling record shall be provided for each sampling point. This record shall include:

- a. Water level;
- b. Total depth of the well;
- c. Volume of water in the well;
- d. Volume of water removed;
- e. Stabilization documentation including:
 - (1) pH
 - (2) Conductivity
 - (3) Temperature
 - (4) Turbidity
 - (5) Dissolved oxygen
- f. Time interval of purging;
- g. Time sample is taken; and
- h. Device(s) used for purging (including discharge rate) and sampling.

The permittee may wish to reproduce and use Attachment 5 (DEP-SOP-001/01 Form FD 9000-24) for reporting this information. Sampling methodologies must be capable of measuring concentrations of constituents at or below the maximum concentrations allowed, whenever possible. [62-701.510 and 62-522]

17. In the event that water quality monitoring shows a violation of the applicable water quality standards, the permittee shall arrange for a confirmation resampling within 30 days after the permittee's receipt of laboratory results. In the event that the permittee chooses not to conduct the reconfirmation sampling, the Department shall consider the initial analysis to be representative of the current water quality conditions at this facility. If the initial results demonstrate or the resampling confirms the groundwater contamination, the permittee shall notify the Department in writing within 14 days of this finding.

Upon notification by the Department, the permittee shall initiate evaluation monitoring in accordance with Rule 62-701.510(7), F.A.C.

18. All water quality monitoring required by this permit shall be in accordance with Rule 62-520.300, F.A.C. and Rule 62-4.256, F.A.C., and shall be carried out under the requirements of DEP-SOP-001/01 (February 1, 2004) FS 2000 or applicable Standard Operating Procedures (SOPs) in accordance with Chapter 62-160, F.A.C. (effective April 9, 2002). Requirements for these plans may be obtained from the Department's Environmental Assessment Section at (850) 488-2796.

19. A written technical report ("Two-Year Technical Report") shall be prepared and submitted to the Department every two years and updated at the time of permit renewal. The report shall be prepared by a qualified professional and shall contain but not be limited to the following items:

- a. Tables and graphs of water quality data, hydrographic data for all monitoring wells and rainfall data.
- b. A comparison of water quality results between the background well and downgradient sampling points. Note linear or other trends where quality is being improved or degraded.
- c. A summary of all violations of applicable water standards.
- d. Groundwater potentiometric maps for each sampling event.
- e. An evaluative discussion of any data that is thought to be inconsistent or suspect and corrective measures taken or planned.
- f. A summary of the physical condition of the monitoring system. This should be based on visual observation, sampling records, and water quality data.
- g. A survey map of all monitoring wells and piezometers.

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The technical report shall be submitted under separate cover, no later than January 28th, commencing with the 2011 report. [62-701.510(9)(b)]

20. If water quality monitoring demonstrates contaminants are detected and confirmed in compliance wells in concentrations which exceed both background levels and Department water quality standards or criteria, the permittee shall notify the Department within 14 days of this finding and shall initiate corrective actions. Evaluation monitoring shall continue according to the requirements of Rule 62-701.510(7)(a), F.A.C.

The permittee shall initiate and complete corrective actions in accordance with Chapter 62-780, F.A.C., within the manner and timeframes specified therein and provide a site assessment report in accordance with Rule 62-780.600, F.A.C., that meet the objectives of said Rule within the manner and timeframes specified therein. [62-701.510(7)(b)2]

V. ADDITIONAL LAND APPLICATION REQUIREMENTS

1. Advisory signs shall be posted around the portion of the industrial site in which reclaimed water is used and at the main entrances to the industrial site to notify employees at the industrial site and the public of the nature of the reclaimed water use. [62-610.658(1)]
2. There shall be readily identifiable "non-potable" or "do not drink" notices, marking, or coding on application/distribution facilities and appurtenances. [62-610.660(2)]
3. When the three-month average daily flow for the most recent three consecutive months exceeds 50 percent of the permitted capacity of the treatment plant or reuse and disposal systems, the permittee shall submit to the Department a capacity analysis report. This initial capacity analysis report shall be submitted within 180 days after the last day of the last month of the three-month period referenced above. The capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(4)]
4. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

VI. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. [62-620.320(6)]
2. The on-site domestic facility shall have a Class C or higher operator 1 hour/day for 5 days/week and one visit each weekend. The lead/chief operator for the domestic facility must be a Class C operator, or higher.
3. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;

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- d. A copy of the current permit;
- e. A copy of any required record drawings; and
- f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

VII. SCHEDULES

1. The following improvement actions shall be completed according to the following schedule. The Best Management Practices/Pollution Prevention (BMP3) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
1. Continue implementing the existing BMP3 Plan	Issuance date of permit

[62-620.320(6)]

2. The permittee shall submit an amended plan of study titled "Proposed Monitoring Study at Smith Electric Generating Plant" within 30 days of permit issuance. The permittee shall submit the amended plan to the Department at the following address:

Florida Department of Environmental Protection
Industrial Wastewater Section, Mail Station 3545
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
3. The permittee shall continue implementing the amended plan of study titled "Proposed Monitoring Study at Smith Electric Generating Plant", dated April 14, 2009 for at least one year after the issuance date of the permit. Until the amended plan of study is approved by the Department, the permittee shall sample bi-weekly and per a Department-approved parameter and location list. The permittee shall submit the summarized results within 45 days of completion of the plan of study or no later than 180 days before the expiration date of the permit, whichever is first, to the Department at the address in Condition VII.2.
4. Within six months of the effective date of this permit, the permittee shall schedule a meeting with the Department to discuss the contents of the aquatic organism return plan in accordance with Condition I.A.10 and shall submit the plan to the Department within 12 months of the effective date of this permit. The plan shall be implemented within 24 months subsequent to approval by the Department.

VIII. BEST MANAGEMENT PRACTICES/STORMWATER POLLUTION PREVENTION PLANS

1. General Conditions

In accordance with Section 304(e) and 402(a)(2) of the Clean Water Act (CWA) as amended, 33 U.S.C. §§ 1251 et seq., and the Pollution Prevention Act of 1990, 42 U.S.C. §§ 13101-13109, the permittee must develop and implement a plan for utilizing practices incorporating pollution prevention measures. References to be considered in developing the plan are "Criteria and Standards for Best Management Practices Authorized Under Section 304(e) of the Act," found at 40 CFR 122.44 Subpart K and the Storm Water Management Industrial Activities Guidance Manual, EPA/833-R92-002 and other EPA documents relating to Best Management Practice guidance.

- a. Definitions

- (1) The term "pollutants" refers to conventional, non-conventional and toxic pollutants.
- (2) Conventional pollutants are: biochemical oxygen demand (BOD), suspended solids, pH, fecal coliform bacteria and oil & grease.

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- (3) Non-conventional pollutants are those which are not defined as conventional or toxic.
- (4) Toxic pollutants include, but are not limited to: (a) any toxic substance listed in Section 307(a)(1) of the CWA, any hazardous substance listed in Section 311 of the CWA, or chemical listed in Section 313(c) of the Superfund Amendments and Reauthorization Act of 1986; and (b) any substance (that is not also a conventional or non-conventional pollutant except ammonia) for which EPA has published an acute or chronic toxicity criterion.
- (5) "Significant Materials" is defined as raw materials; fuels; materials such as solvents and detergents; hazardous substances designated under Section 101(14) of CERCLA; and any chemical the facility is required to report pursuant to EPCRA, Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge.
- (6) "Pollution prevention" and "waste minimization" refer to the first two categories of EPA's preferred hazardous waste management strategy: first, source reduction and then, recycling.
- (7) "Recycle/Reuse" is defined as the minimization of waste generation by recovering and reprocessing usable products that might otherwise become waste; or the reuse or reprocessing of usable waste products in place of the original stock, or for other purposes such as material recovery, material regeneration or energy production.
- (8) "Source reduction" means any practice which: (a) reduces the amount of any pollutant entering a waste stream or otherwise released into the environment (including fugitive emissions) prior to recycling, treatment or disposal; and (b) reduces the hazards to public health and the environment associated with the release of such pollutant. The term includes equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. It does not include any practice which alters the physical, chemical, or biological characteristics or the volume of a pollutant through a process or activity which itself is not integral to, or previously considered necessary for, the production of a product or the providing of a service.
- (9) "BMP3" means a Best Management Practices Pollution Prevention Plan incorporating the requirements of 40 CFR § 125, Subpart K, plus pollution prevention techniques, except where other existing programs are deemed equivalent by the permittee. The permittee shall certify the equivalency of the other referenced programs.
- (10) The term "material" refers to chemicals or chemical products used in any plant operation (i.e., caustic soda, hydrazine, degreasing agents, paint solvents, etc.). It does not include lumber, boxes, packing materials, etc.

2. Best Management Practices/Pollution Prevention Plan

The permittee shall develop and implement a BMP3 plan for the facility, which is the source of wastewater and storm water discharges, covered by this permit. The plan shall be directed toward reducing those pollutants of concern which discharge to surface waters and shall be prepared in accordance with good engineering and good housekeeping practices. For the purposes of this permit, pollutants of concern shall be limited to toxic pollutants, as defined above, known to the discharger. The plan shall address all activities which could or do contribute these pollutants to the surface water discharge, including process, treatment, and ancillary activities.

a. Signatory Authority & Management Responsibilities

The BMP3 plan shall be signed by permittee or their duly authorized representative in accordance with rule 62-620.305(2)(a) and (b). The BMP3 plan shall be reviewed by plant environmental/engineering staff and plant manager. Where required by Chapter 471-(P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of the BMP3 plan shall be signed and sealed by the professional(s) who prepared them.

A copy of the plan shall be retained at the facility and shall be made available to the permit issuing authority upon request.

The BMP3 plan shall contain a written statement from corporate or plant management indicating management's commitment to the goals of the BMP3 program. Such statements shall be publicized or made known to all facility employees. Management shall also provide training for the individuals responsible for implementing the BMP3 plan.

b. BMP3 Plan Requirements

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- (1) Name & description of facility, a map illustrating the location of the facility & adjacent receiving waters, and other maps, plot plans or drawings, as necessary;
- (2) Overall objectives (both short-term and long-term) and scope of the plan, specific reduction goals for pollutants, anticipated dates of achievement of reduction, and a description of means for achieving each reduction goal;
- (3) A description of procedures relative to spill prevention, control & countermeasures and a description of measures employed to prevent storm water contamination;
- (4) A description of practices involving preventive maintenance, housekeeping, recordkeeping, inspections, and plant security; and
- (5) The description of a waste minimization assessment performed in accordance with the conditions outlined in condition c below, results of the assessment, and a schedule for implementation of specific waste reduction practices.

c. Waste Minimization Assessment

The permittee is encouraged but not required to conduct A waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loading and chemical losses to all wastewater and/or storm water streams as described in this permit.

If the permittee elects to develop and implement a WMA, information on plan components can be obtained from the Department's Industrial Wastewater website, or from:

Florida Department of Environmental Protection
Industrial Wastewater Section, Mail Station 3545
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8589
(850) 245-8669 – Fax

d. Best Management Practices & Pollution Prevention Committee Recommended:

A Best Management Practices Committee (Committee) should be established to direct or assist in the implementation of the BMP3 plan. The Committee should be comprised of individuals within the plant organization who are responsible for developing the BMP3 plan and assisting the plant manager in its implementation, monitoring of success, and revision. The activities and responsibilities of the Committee should address all aspects of the facility's BMP3 plan. The scope of responsibilities of the Committee should be described in the plan.

e. Employee Training

Employee training programs shall inform personnel at all levels of responsibility of the components & goals of the BMP3 plan and shall describe employee responsibilities for implementing the plan. Training shall address topics such as good housekeeping, materials management, record keeping & reporting, spill prevention & response, as well as specific waste reduction practices to be employed. Training should also disclose how individual employees may contribute suggestions concerning the BMP3 plan or suggestions regarding Pollution Prevention. The plan shall identify periodic dates for such training.

f. Plan Development & Implementation

The BMP3 plan shall be developed and implemented 6 months after the effective date of this permit, unless any later dates are specified in this permit. Any portion of the WMA which is ongoing at the time of development or implementation shall be described in the plan. Any waste reduction practice which is recommended for implementation over a period of time shall be identified in the plan, including a schedule for its implementation.

g. Submission of Plan Summary & Progress/Update Reports

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- (1) Plan Summary: Not later than 2 years after the effective date of the permit, a summary of the BMP3 plan shall be developed and maintained at the facility and made available to the permit issuing authority upon request. The summary should include the following: a brief description of the plan, its implementation process, schedules for implementing identified waste reduction practices, and a list of all waste reduction practices being employed at the facility. The results of waste minimization assessment studies already completed as well as any scheduled or ongoing WMA studies shall be discussed.
- (2) Progress/Update Reports: Annually thereafter for the duration of the permit progress/update reports documenting implementation of the plan shall be maintained at the facility and made available to the permit issuing authority upon request. The reports shall discuss whether or not implementation schedules were met and revise any schedules, as necessary. The plan shall also be updated as necessary and the attainment or progress made toward specific pollutant reduction targets documented. Results of any ongoing WMA studies as well as any additional schedules for implementation of waste reduction practices shall be included.
- (3) A timetable for the various plan requirements follows:

Timetable for BMP3 Plan Requirements:

<u>REQUIREMENT</u>	<u>TIME FROM EFFECTIVE DATE OF THIS PERMIT</u>
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Progress/Update Reports	3 years, and then annually thereafter
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The permittee shall maintain the plan and subsequent reports at the facility and shall make the plan available to the Department upon request.

h. Plan Review & Modification

If following review by the Department, the BMP3 plan is determined insufficient, the permittee will be notified that the BMP3 plan does not meet one or more of the minimum requirements of this Part. Upon such notification from the Department, the permittee shall amend the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 30 days after such notification to make the changes necessary.

The permittee shall modify the BMP3 plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to waters of the State or if the plan proves to be ineffective in achieving the general objectives of reducing pollutants in wastewater or storm water discharges. Modifications to the plan may be reviewed by the Department in the same manner as described above.

IX. OTHER SPECIFIC CONDITIONS

A. Specific Conditions Applicable to All Permits

1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. [62-620.310(4)]
2. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Department's Northwest District Office, are made a part hereof.
3. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.
4. The permittee shall provide verbal notice to the Department's Northwest District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, or wastewater sludges. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Northwest District Office in a written report within 7 days of the sinkhole discovery. [62-620.320(6)]

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B. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
 - (1) One hundred micrograms per liter,
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2, 4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony, or
 - (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
 - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
 - (1) Five hundred micrograms per liter,
 - (2) One milligram per liter for antimony, or
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

[62-620.625(1)]

C. Specific Conditions Related to Domestic Wastewater Facilities

1. Screenings and grit removed from the domestic wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. [62-701.300(1)(a)]

D. Duty to Reapply

1. The permittee shall apply for renewal of this permit such that the Department receives the application at least 180 days before the expiration date of the permit using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. The existing permit shall not expire until the Department has taken final action on the application renewal in accordance with the provisions of 62-620.335(3) and (4), F.A.C.

180 days prior to expiration date: Month, Day, Year

E. Reopener Clauses

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, EPA established Total Maximum Daily Loads (TMDLs), or other information show a need for a different limitation or monitoring requirement.

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3. The Department or EPA may develop a TMDL during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.
4. The permit shall be reopened for revision as appropriate to address new information that was not available at the time of this permit issuance or to comply with requirements of new regulations, standards, or judicial decisions relating to CWA 316(b).

X. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1)]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]
3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:

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- a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
- b. Have access to and copy any records that shall be kept under the conditions of this permit;
- c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
- d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620.610(9)]

10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10)]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11)]
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12)]
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13)]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14)]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15)]
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16)]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;

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- b. The period of the anticipated noncompliance, including dates and times; and
- c. Steps being taken to prevent future occurrence of the noncompliance.

[62-620.610(17)]

18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-601, and 62-610, F.A.C., and 40 CFR 136, as appropriate.

- a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
- b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
- d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

[62-620.610(18)]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]

20. The permittee shall report to the Department's Northwest District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
- b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24

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hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:

- (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Northwest District Office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Northwest District shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 17, 18 or 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20 of this permit. [62-620.610(21)]

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1 through 3 of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit.

[62-620.610(22)]

23. Upset Provisions.

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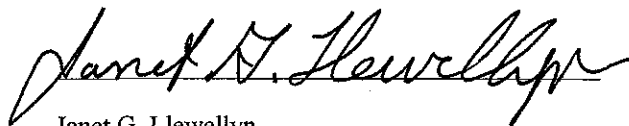
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- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.5. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]

Executed in Tallahassee, Florida.

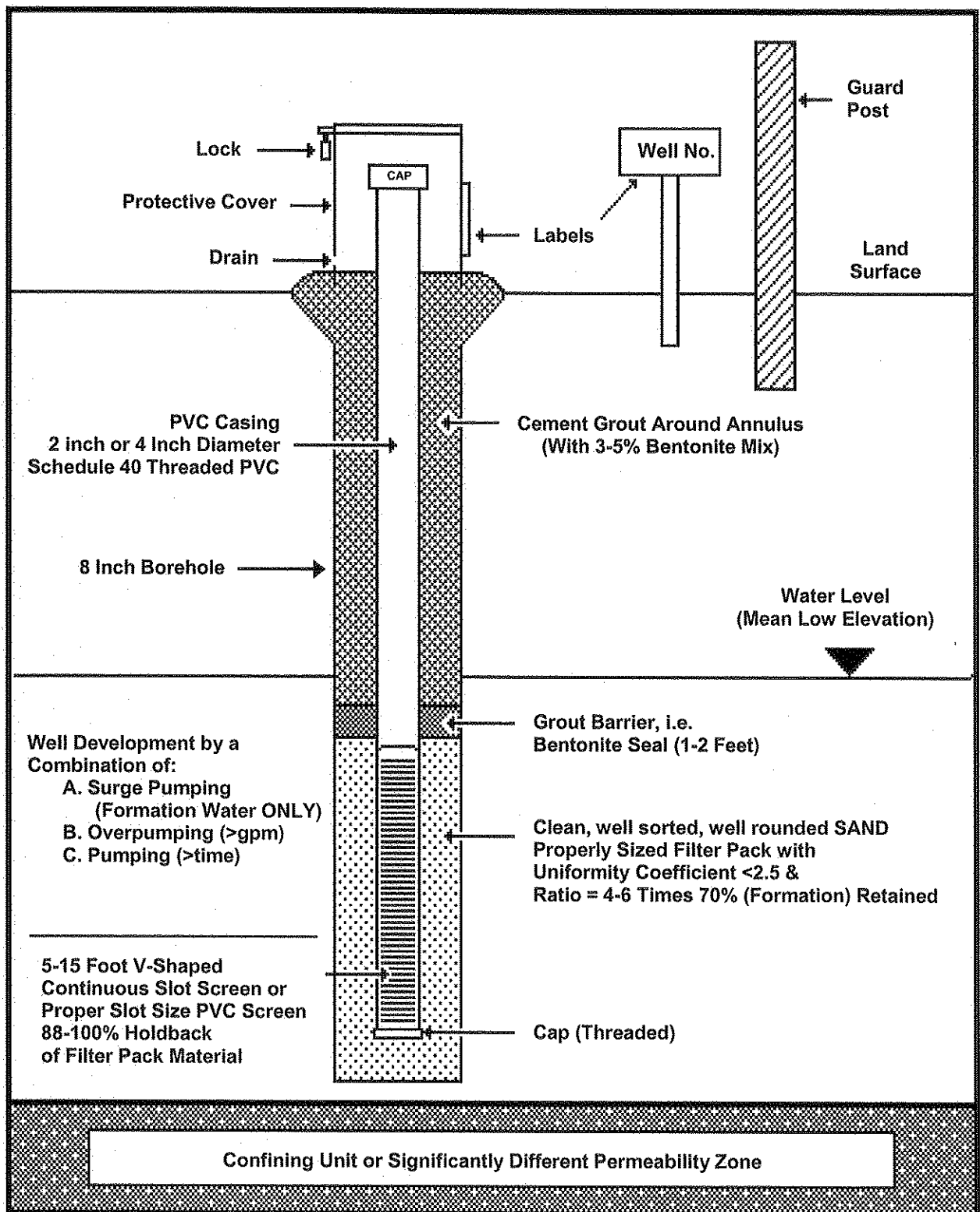
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Janet G. Llewellyn
Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8336

Attached:

- Attachment 1 – Plant Smith Potentiometric Map
- Attachment 2 – Basic Monitor Well Design in a Water Table Aquifer
- Attachment 3 – Groundwater Monitoring Report
- Attachment 4 – Rule 62-701.510(8)(a) Groundwater Monitoring Parameters
- Attachment 5 – Form FD 9000-24: Groundwater Sampling Log
- Attachment 6 – Final DMRs



Basic Monitor Well Design
in a Water Table Aquifer

Florida Department of
Environmental Protection
Northwest District Office

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date _____

DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (2) The GMS Identification Number _____
- (3) DEP Permit Number _____
- (4) Authorized Representative Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (5) Type of Discharge _____
- (6) Method of Discharge _____

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, 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.

Date: _____

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

Analytical Lab Comp QAP # /HRS Certification # _____

 *Comp QAP # /HRS Certification # _____

Lab Name _____

Address _____

Phone Number () _____

Rule 62-701.510(8)(a) Ground Water Monitoring Parameters

Parameter	Storet Code	CAS NO.
Water Elevation NGVD	082545	N/A
Specific Conductivity umh/cm	000094	N/A
pH Standard units	000406	N/A
Dissolved oxygen mg/L	000299	7782-44-7
Turbidity NTU	082078	N/A
Temperature, Water °C	000010	16
Colors and Sheens (by observation)	000081	17
Total ammonia-N mg/L	000610	17778-88-0
Chlorides mg/L	000940	16887-00-9
Iron mg/L	001045	7439-89-6
Mercury mg/L	071900	7439-97-6
Nitrate Nitrogen, Total as N mg/L	000620	17778-88-0
Sodium, Total as Na mg/L	000929	7440-23-5
Total dissolved solids (TDS)	070300	N/A

Rule 62-701.510(8)(b) Surface Water Monitoring Parameters

Parameter	Storet Code	CAS NO.
Specific Conductivity umh/cm	000094	N/A
pH Standard units	004000	N/A
Dissolved oxygen mg/L	000300	7782-44-7
Turbidity NTU	082078	N/A
Temperature, Water °C	000010	16
Colors and Sheens (by observation)	000081	17
Unionized ammonia mg/L	000612	7664-41-7
Total Hardness as CaCo3 mg/L	000900	471-34-1
Biochemical oxygen demand (BOD ₅) mg/L	000310	N/A
Copper (Cu) ug/L	001042	7440-50-8
Iron ug/L	001045	7439-89-6
Mercury ug/L	007900	7439-97-6
Nitrate Nitrogen, Total as N mg/L	000620	17778-88-0
Zinc (Zn) ug/L	001092	7440-66-6
Total dissolved solids (TDS)	070304	N/A
Total organic carbon (TOC) as C mg/L	000680	7440-44-0
Fecal Coliform #/100	031616	N/A
Total Phosphates as P mg/L	000665	7723-14-0
Chlorophyll A mg/L	032230	479-61-8
Total Nitrogen as N mg/L	000600	17778-88-0
Chemical oxygen demand (COD) lbs/Day	081017	N/A
Total suspended solids (TSS) mg/L	900201	N/A

**Rule 62-701.510(8)(a) and (b) 40 CFR Part 258 Appendix 1 Ground and Surface Water
Monitoring Parameters**

Parameter	Storet Code	CAS NO.
Antimony (Sb) Total ug/L	001097	7440-36-0
Arsenic (As) Total mg/L	900208	7440-38-2
Barium (Ba) Total mg/L	900209	7440-39-3
Beryllium (Be) Total ug/L	001012	7440-41-7
Cadmium (Cd) Total mg/L	900210	7440-43-9
Chromium (Cr) Total mg/L	900211	7440-47-3
Cobalt (Co) Total ug/L	001037	7440-48-4
Copper (Cu) Total mg/l	900218	7440-50-8
Lead (Pb) Total mg/L	900212	7439-92-1
Nickel (Ni) Total ug/L	001067	7440-00-2
Selenium (Se) Total mg/L	900214	7782-49-2
Silver (Ag) Total mg/L	900215	7440-22-4
Thallium (Tl) Total ug/L	001059	7440-28-0
Vanadium (V) Total ug/l	001087	7440-62-2
Zinc (Total) ug/L	001092	7440-66-6
Acetone	81552	67-64-1
Acrylonitrile	034215	107-13-1
Benzene	034030	71-43-2
Bromochloromethane	077297	74-97-5
Bromodichloromethane	032101	75-27-4
Bromoform, Tribromomethane	032104	75-25-2
Carbon disulfide	077041	75-15-0
Carbon tetrachloride	032102	56-23-5
Chlorobenzene	034301	108-90-7
Chloroethane; Ethyl chloride	034311	75-00-3
Chloroform; Trichloromethane	032106	67-66-3
Dibromochloromethane	032105	124-48-1
1,2-Dibromo-3-chloropropane; DBCP	038437	96-12-8
1,2-Dibromoethane; EDB	077651	106-93-4
1,2-Dichlorobenzene	034531	95-50-1
1,4- Dichlorobenzene	034571	106-46-7
trans-1,4-Dichloro-2-butene	073547	110-57-6
1,1-Dichloroethane	034496	75-34-3
1,2-Dichloroethane	034531	107-06-2
1,1-Dichloroethylene; 1,1-Dichloroethene	034501	75-35-4
cis-1,2-Dichloroethene	081574	156-59-2
trans-1,2-Dichloroethene	034546	156-60-5
1,2-Dichloropropane	034541	78-87-5

**Rule 62-701.510(8)(a) and (b) 40 CFR Part 258 Appendix 1 Ground and Surface Water
Monitoring Parameters**

Parameter	Storet Code	CAS NO.
cis-1,3-Dichloropropene	034704	10061-01-5
trans-1,3-Dichloropropene	034699	10061-02-6
Ethylbenzene	034371	100-41-4
2-Hexanone; Methyl butyl ketone	077103	591-78-6
Methyl bromide; Bromomethane	034413	74-83-9
Methyl chloride; Chloromethane	034418	74-87-3
Methylene bromide; Dibromomethane	077596	74-95-3
Methylene chloride; Dichloromethane	034423	75-09-2
Methyl ethyl ketone; MEK; 2-Butanone	081595	78-93-3
Methyl iodide; Iodomethane	077424	74-88-4
4-Methyl-2-pentanone; Methyl isobutyl ketone	081596	108-10-1
Styrne	077128	100-42-5
1,1,1,2-Tetrachloroethane	077562	630-20-6
1,1,2,2-Tetrachloroethane	034516	79-34-5
Tetrachloroethylene; Tetrachloroethene	034475	127-18-4
Toluene	034010	108-88-3
1,1,1-Trichloroethane; Methylchloroform	034506	71-55-6
1,1,2-Trichloroethane	034511	79-00-5
Trichloroethylene; Trichloroethene	039180	79-01-6
Trichlorofluoromethane; CFC-11	034488	75-69-4
1,2,3-Trichloropropane	077443	96-18-4
Vinyl acetate	077057	108-05-4
Vinyl chloride	039175	75-01-4
Xylene	081551	1330-20-7

Rule 62-701.510(8)(c) Leachate Monitoring Parameters

Parameter	Storet Code	CAS NO.
Specific Conductivity umh/cm	000094	N/A
pH Standard units	004000	N/A
Dissolved oxygen mg/L	000300	7782-44-7
Colors and sheens (by observation)	000081	N/A
Total ammonia-N	000610	17778-88-0
Bicarbonate Ion as HCO ₃ mg/L	000440	17-52-3
Chlorides mg/L	000940	1688-00-9
Iron ug/L	001045	7439-89-6
Mercury ug/L	007900	7439-97-6
Nitrate Nitrogen, Total as N mg/L	000620	17778-88-0
Sodium (Na) Total mg/L	000929	7440-23-5
Total dissolved solids (TDS)	070304	N/A

Rule 62-701.510(8)(d) 40 CFR Part 258 Appendix II

Parameter	Storet Code	CAS NO.
Acenaphthene	034205	83-32-9
Acenaphthylene	034200	208-96-8
Acetone	081552	67-64-1
Acetonitrile; Methyl cyanide	076997	75-05-8
Acetophenone	081553	98-86-2
2-Acetylaminofluorene; 2-AAF	073501	75-05-8
Acrolein	034210	98-86-2
Acrylonitrile	034215	107-13-1
Aldrin	039330	309-00-2
Allyl chloride	078109	107-05-1
4-Aminobiphenyl	077581	92-67-1
Anthracene	034220	120-12-7
Antimony (Total) ug/L	001097	7440-36-0
Arsenic (Total) ug/L	001002	7440-38-2
Barium (Total) ug/L	900209	7440-39-3
Benzene	034030	71-43-2
Benzo(a)anthracene	034526	56-55-3
Benzo(b)fluoranthene	034230	205-59-2
Benzo(k)Fluoranthene	034242	207-08-9
Benzo(ghi)perylene	034521	191-24-2
Benzo(a)pyrene	034247	50-32-8
Benzyl alcohol	077147	100-51-6
Beryllium (Total) ug/L	001012	7440-41-7
alpha-BHC	039336	319-84-6
beta-BHC	039338	319-85-7
delta-BHC	034259	319-86-8
gamma-BHC; Lindane	039340	58-89-9
Bis(2-chloroethoxy)methane	034278	111-91-1
Bis(2-chloroethyl) ether	034273	111-44-4
Bis(2-chloro-1-methylethyl) ether	073522	108-60-1
Bis(2-ethylhexyl)phthalate	039100	117-81-7
Bromochloromethane	077297	74-97-5
Bromodichloromethane	032101	75-27-4
Bromoform	032104	75-25-2
4-Bromophenyl phenyl ether	034636	101-55-3
Butyl benzyl phthalate	034292	85-68-7
Cadmium (Total) ug/L	001027	7440-43-9
Carbon disulfide	077041	75-15-0

Rule 62-701.510(8)(d) 40 CFR Part 258 Appendix II

Parameter	Storet Code	CAS NO.
Carbon tetrachloride	032102	56-23-5
Chlordane	039350	57-74-9
p-Chloroaniline	077954	106-47-8
Chorobenzene	034301	108-90-7
Chlorobenzilate	039460	510-15-6
p-Chloro-m-cersol	034452	59-50-7
Chlorethane; Ethyl chloride	034311	75-00-3
Chloroform: Trichloromethane	032106	67-66-3
2-Chloronaphthalene	034581	91-58-7
2-Chlorophenol	034586	95-57-8
4-Chlorophenyl Phenyl ether	034641	7005-72-3
Chloroprene	081520	126-99-8
Chromium (Total) ug/L	001034	7440-47-3
Chrysene	034320	218-01-9
Cobolt (Total) ug/L	001037	7440-48-4
Copper (Total) ug/L	001042	7440-50-8
m-Cresol; 3-methylphenol	077151	108-39-4
o-Cresol; 2-methylphenol	077152	95-48-7
p-Cresol; 4-methylphenol	077146	106-44-5
Cyanide mg/L	000720	57-12-5
2,4-D; '2,4-Dichlorophenoxyacetic acid	039730	94-75-7
4,4-DDT	039379	50-29-3
4,4-DDD	039360	72-54-8
4,4-DDE	039365	72-55-9
Diallate	073540	2303-16-4
Dibenz(a,h)anthracene	034556	53-70-3
Dibenzofuran	081302	132-64-9
Dibromochloromethane	081521	124-48-1
1,2-Dibromo-3-chlorpropene	038437	96-12-8
1,2-Dibromoethane; EDB	081522	106-93-4
Di-n-butyl phthalate	039110	84-74-2
1,2-Dichlorobenzene	034536	95-50-1
1,3-Dichlorobenzene	034566	541-73-1
1,4-Dichlorobenzene	034571	106-46-7
3,3-Dichlorobenzidine	034631	91-94-1
trans-1,4-Dichloro-2-butene	073547	110-57-6
Dichlorodifluoromethane	034668	75-71-8
1,1-Dichloroethane	034496	75-71-8

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Parameter	Storet Code	CAS NO.
1,2-Dichloroethane	034531	107-06-2
1,1-Dichloroethylene	034501	75-35-4
cis-1,2-Dichloroethylene	077093	156-59-2
trans-1,2-Dichloroethylene	034546	156-60-5
2,4-Dichlorophenol	034601	120-83-2
2,6-Dichlorophenol	077541	87-65-0
1,2-Dichloropropane	034541	78-87-5
1,3-Dichloropropane	034561	542-75-6
2,2-Dichloropropane; Isopropylidene	077170	594-20-7
1,1-Dichloropropene	077168	563-58-6
cis-1,3-Dichloropropene	034704	10061-01-5
trans-1,3-Dichloropropene	034699	10061-02-6
Dieldrin	039380	60-57-1
Diethyl phthalate	034336	84-66-2
0,0-Diethyl 0-2-pyrazinyl phosphorothioate	073553	297-97-2
Dimethoate	046314	60-51-5
p-(Dimethylamino)azobenzene	073558	60-11-7
7,12-Dimethylbenz(a)anthracene	073559	57-97-6
3,3-Dimethylbenzidine	073560	119-93-7
2,4-Dimethylphenol; m-Xylenol	034606	105-67-9
Dimethyl phthalate	034341	131-11-3
m-Dinitrobenzene	045622	99-55-0
4,6-Dinitro-o-cresol 4,6-Dinitro-2-methylphenol	034657	543-52-1
2,4-Dinitrophenol	034616	51-28-5
2,4-Dinitrotoluene	034611	121-14-2
2,6-Dinitrotoluene	034626	606-20-2
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	081287	88-85-7
Di-n-octyl phthalate	034596	117-84-0
Diphenylamine	077579	122-39-4
Disulfoton	081888	298-04-4
Endosulfan I	034361	959-98-8
Endosulfan II	034356	33213-65-9
Endosulfan sulfate	034351	1031-07-8
Endrin	039390	72-20-8
Endrin aldehyde	034366	7421-93-4
Ethylbenzene	034371	100-41-4
Ethyl methacrylate	073570	97-63-2
Ethyl methanesulfonate	073571	62-50-0

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Parameter	Storet Code	CAS NO.
Famphur	038462	52-85-7
Fluoranthene	034376	206-44-0
Fluorene	034381	86-73-7
Heptachlor	046326	76-44-8
Heptachlor epoxide	039420	102-57-3
Hexachlorobenzene	039700	118-74-1
Hexachlorobutadiene	034391	87-68-3
Hexachlorocyclopentadiene	034386	77-47-4
Hexachloroethane	034396	67-72-1
Hexchloropropene	073576	1888-71-7
2-hexanone; Methyl butyl ketone	077103	591-78-6
Indeno(1,2,3-cd)pyrene	034403	193-39-5
Isobutyl alcohol	077033	78-83-1
Isodrin	039430	465-73-6
Isophrone	034408	78-59-1
Isosafrola	073582	120-58-1
Kepone	081281	143-50-0
Lead (Total) ug/L	001051	7439-92-1
Mercury (Total) ug/L	071900	7439-97-6
Methacylonitrile	081593	126-98-7
Methapyrilene	073589	91-80-5
Methoxychlor	039480	72-43-5
Methyl bromide; Bromomethane	034413	74-83-9
Methyl chloride; Chloromethane	034418	74-87-3
3-Methylcholanthrene	073591	56-49-5
Methyl ethyl ketone; MEK; 2-Butanone	081595	78-93-3
Methyl iodide; Iodomethane	077424	74-88-4
Metyl methacrylate	081597	80-62-6
Methyl methanesulfonate	073595	66-27-3
2-Methylnaphthalene	077416	91-57-6
Methyl parathion; Parathion methyl	039600	298-00-0
4-Methyl-2-pentanone; Methyl isobutyl ketone	081596	108-10-1
Methylene bromide; Dibromomethane	077596	74-95-3
Methylene chloride; Dichloromethane	034423	75-09-2
Naphthalene	034696	91-20-3
1,4-Napthoquinone	073599	130-15-4
1-Naphthylamine	073600	134-32-7
2-Naphthylamine	073601	91-59-8

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Parameter	Storet Code	CAS NO.
Nickel (Total) ug/L	001067	7440-02-0
o-Nitroaniline; 2-Nitroaniline	078142	88-74-4
m-Nitroaniline; 3-Nitroaniline	078300	99-09-2
p-Nitroaniline; 4-Nitroaniline	073605	100-01-6
Nitrobenzene	034447	98-95-3
o-Nitrophenol; 2-Nitrophenol	034591	88-75-5
p-Nitrophenol; 4-Nitrophenol	034646	100-02-7
N-Nitrosodi-n-butylamine	078207	924-16-3
N-Nitrosodiethylamine	078200	55-18-5
N-Nitrosodimethylamine	034438	62-75-9
N-Nitrosodiphenylamine	034433	86-30-6
N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine	034428	621-64-7
N-Nitrosomethylethylamine	073613	10595-95-6
N-Nitrosopiperidine	073619	100-75-4
N-Nitrosopyrrolidine	073620	930-55-2
5-Nitro-o-toluidine	073622	99-55-8
Parathion	046315	56-38-2
Pentachlorobenzene	077793	608-93-5
Pentachloronitrobenzene	081316	82-68-8
Pentachlorophenol	039032	87-86-5
Phenacetin	073626	62-44-2
Phenanthrene	034461	85-01-8
Phenol	034466	108-95-2
p-Phenylenediamine	073628	106-50-3
Phorate	046313	298-02-2
Polychlorinated biphenyls; PCB; Arcolors Listed Below		
PCB 1016	034671	12674-11-2
PCB 1221	039488	11104-28-2
PCB 1232	039492	11141-16-5
PCB 1242	039496	53469-21-9
PCB 1248	069500	12672-29-6
PCB 1254	039500	11097-69-1
PCB 1260	039508	11096-82-5
Pronamide	039057	23950-58-5
Proplonitrile; Ethyl cyanide	039080	107-12-8
Pyrene	034469	129-00-8
Safrole	077545	94-59-7
Selenium (Total) ug/l	001147	7782-49-2

Rule 62-701.510(8)(d) 40 CFR Part 258 Appendix II

Parameter	Storet Code	CAS NO.
Silver (Total) ug/L	001077	7440-22-4
Silvex; 2,4,5-TP	039760	93-72-1
Styrene	077128	100-42-5
Sulfide as S mg/L	000745	18496-25-8
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	039740	93-76-5
1,2,4,5-Tetrachlorobenzene	077734	95-94-3
1,1,1,2-Tetrachloroethane	077562	630-20-6
1,1,2,2-Tetrachloroethane	034516	79-34-5
Tetrachloroethylene; Perchloroethylene	034475	127-18-4
2,3,4,6-Tetrachlorophenol	077770	58-90-2
Thallium (Total) ug/L	001059	7440-28-0
Tin (Total) ug/l	001102	744031-5
Toluene	034010	108-88-3
o-Toluidine	077142	95-53-4
Toxaphene	039400	8001-35-2
1,2,4-Trichlorobenzene	034551	120-82-1
1,1,1-Trichloroethane; Methylchloroform	034506	71-55-6
1,1,2-Trichloroethane	034511	79-00-5
Trichloroethylene; Trichloroethene	039180	79-01-6
Trichlorofluoromethane	034488	75-69-4
2,4,5-Trichlorophenol	077687	95-95-4
2,4,6-Trichlorophenol	034621	88-06-2
1,2,3-Trichloropropane	077443	96-18-4
0,0,0-Triethyl phosphorothioate	073652	1026-68-1
sym-Trinitrobenzene	073653	99-35-4
Vanadium (Total) ug/L	001087	744062-2
Vinyl acetate	077057	108-05-4
Vinyl chloride; Chloroethene	039175	75-01-4
Xylene (Total)	081551	1330-20-7
Zinc (Total) ug/L	001092	7440-66-6

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:	
WELL NO:	SAMPLE ID:		DATE:

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

NOTES:1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+ 0.2$ mg/L or $+ 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
MAILING ADDRESS: 1 Energy Pl
Pensacola, Florida 32520-1

PERMIT NUMBER: FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
LOCATION: Bay County Road 2300
Southport, FL

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Main Plant Discharge Canal

REPORT: Monthly
PROGRAM: Industrial

COUNTY: Bay
OFFICE: Northwest District Branch (Panama City)

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 7 Mon. Site No. INT-2	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Hourly	Pump Logs
Temp. Diff. between Intake and Discharge (APR - SEP)	Sample Measurement										
PARM Code 61576 P Mon. Site No. OTH-1	Permit Requirement				18 (Mo.Avg.)	Report (Day.Max.)		Deg F		4/Day	Calculated
Temp. Diff. between Intake and Discharge (OCT - MAR)	Sample Measurement										
PARM Code 61576 Q Mon. Site No. OTH-1	Permit Requirement				20 (Mo.Avg.)	Report (Day.Max.)		Deg F		4/Day	Calculated
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-2	Permit Requirement				6.5 (Day.Min.)	8.5 (Day.Max.)		s.u.		Weekly	Grab
Oxidants, Total Residual	Sample Measurement										
PARM Code 34044 1 Mon. Site No. EFF-2	Permit Requirement				0.01 (Mo.Avg.)	0.01 (Day.Max.)		mg/L		Weekly	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-2	Permit Requirement				5.0 (Mo.Avg.)	5.0 (Day.Max.)		mg/L		Monthly	Grab

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
MAILING ADDRESS: 1 Energy Pl
Pensacola, Florida 32520-1

PERMIT NUMBER:

FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
LOCATION: Bay County Road 2300

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

Final
MA
D-001
Main Plant Discharge Canal

REPORT: Toxicity
PROGRAM: Industrial

COUNTY: Bay

OFFICE: Northwest District Branch (Panama City)

To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Mysidopsis bahia(Routine)	Sample Measurement							
PARM Code TRP3E P Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	percent		Quarterly	24-hr TPC
7-DAY CHRONIC STATRE Mysidopsis bahia(Additional)	Sample Measurement							
PARM Code TRP3E Q Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Mysidopsis bahia(Additional)	Sample Measurement							
PARM Code TRP3E R Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Menidia beryllina(Routine)	Sample Measurement							
PARM Code TRP6B P Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	percent		Quarterly	24-hr TPC
7-DAY CHRONIC STATRE Menidia beryllina(Additional)	Sample Measurement							
PARM Code TRP6B Q Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Menidia beryllina(Additional)	Sample Measurement							
PARM Code TRP6B R Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit

*IF A THIRD ADDITIONAL TEST IS REQUIRED, ENTER THE RESULT ON A SEPARATE TOXICITY DMR, AND CHANGE THE PARM CODE FROM "Q" TO "S"

**ENTER NODI=C IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.

ENTER NODI=9 IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
MAILING ADDRESS: 1 Energy Pl
Pensacola, Florida 32520-1

PERMIT NUMBER: FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
LOCATION: Bay County Road 2300
Southport, FL

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Main Plant Discharge Canal
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT: Annually
PROGRAM: Industrial

COUNTY: Bay
OFFICE: Northwest District Branch (Panama City)

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable	Sample Measurement									
PARM Code 01119 1 Mon. Site No. EFF-2	Permit Requirement				3.7 (Mo.Avg.)	3.7 (Day.Max.)	ug/L		Annually	8-hr TPC
Iron, Total Recoverable	Sample Measurement									
PARM Code 00980 1 Mon. Site No. EFF-2	Permit Requirement				0.3 (Mo.Avg.)	0.3 (Day.Max.)	mg/L		Annually	8-hr TPC
Lead, Total Recoverable	Sample Measurement									
PARM Code 01114 1 Mon. Site No. EFF-2	Permit Requirement				8.5 (Mo.Avg.)	8.5 (Day.Max.)	ug/L		Annually	8-hr TPC
Nickel, Total Recoverable	Sample Measurement									
PARM Code 01074 1 Mon. Site No. EFF-2	Permit Requirement				8.3 (Mo.Avg.)	8.3 (Day.Max.)	ug/L		Annually	8-hr TPC

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
MAILING ADDRESS: 1 Energy Pl
Pensacola, Florida 32520-1

PERMIT NUMBER: FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
LOCATION: Bay County Road 2300
Southport, FL

LIMIT:
CLASS SIZE: Final
MONITORING GROUP NUMBER: MA
MONITORING GROUP DESCRIPTION: D-00D
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
PROGRAM: Industrial

COUNTY: Bay
OFFICE: Northwest District Branch (Panama City)

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
PARM Code 50050 1 Mon. Site No. EFF-5	Permit Requirement	Report (Day.Max.)	MGD				Per discharge	Calculated
Duration of Discharge	Sample Measurement							
PARM Code 81381 1 Mon. Site No. EFF-5	Permit Requirement	Report (Day.Max.)	min				Per discharge	Estimated
Oil and Grease	Sample Measurement							
PARM Code 00556 1 Mon. Site No. EFF-5	Permit Requirement			5.0 (Mo.Avg.)	5.0 (Day.Max.)	mg/L	Twice Per discharge	Grab
Solids, Total Suspended	Sample Measurement							
PARM Code 00530 1 Mon. Site No. EFF-5	Permit Requirement			30 (Mo.Avg.)	100 (Day.Max.)	mg/L	Twice Per discharge	Grab
pH	Sample Measurement							
PARM Code 00400 1 Mon. Site No. EFF-5	Permit Requirement			6.5 (Day.Min.)	8.5 (Day.Max.)	s.u.	Twice Per discharge	Grab

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
 MAILING ADDRESS: 1 Energy Pl
 Pensacola, Florida 32520-1

PERMIT NUMBER: FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
 LOCATION: Bay County Road 2300
 Southport, FL

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-015
 MONITORING GROUP DESCRIPTION: Metal Cleaning Wastewater Discharge to Ash Pond

REPORT: Monthly
 PROGRAM: Industrial

COUNTY: Bay
 OFFICE: Northwest District Branch (Panama City)

RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Total Volume) ¹	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-3	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGAL						Per occurrence	Calculated
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-3	Permit Requirement				1.0 (Mo.Avg.)	1.0 (Day.Max.)		mg/L		Per occurrence	Composite ²
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-3	Permit Requirement				1.0 (Mo.Avg.)	1.0 (Day.Max.)		mg/L		Per occurrence	Composite ²

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹ For one cleaning during a month, the same value for average and daily maximum shall be reported. For two or more cleanings during a month the average batch volume shall be reported as the monthly average and the maximum batch volume shall be reported as the maximum.

² The composite shall consist of aliquots collected once per hour throughout the period of the discharge event.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	Gulf Power Company	PERMIT NUMBER:	FL0002267-011-IW1S		
MAILING ADDRESS:	1 Energy Pl Pensacola, Florida 32520-1	LIMIT:	Final	REPORT:	Monthly
		CLASS SIZE:	MA	PROGRAM:	Industrial
FACILITY:	Gulf Power Company - Lansing Smith Power Plant	MONITORING GROUP NUMBER:	I-017		
LOCATION:	Bay County Road 2300	MONITORING GROUP DESCRIPTION:	Cooling tower blowdown during periods of normal plant operation to the discharge canal to Warren Bayou		
	Southport, FL	RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Bay	MONITORING PERIOD	From:		To:
OFFICE:	Northwest District Branch (Panama City)				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-7	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Hourly	Pump Logs
Oxidants, Free Available	Sample Measurement										
PARM Code 34045 1 Mon. Site No. EFF-7	Permit Requirement				0.2 (Day.Avg.)	0.5 (Day.Max.)		mg/L		Per application	Multiple Grab

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	Gulf Power Company	PERMIT NUMBER:	FL0002267-011-IW1S		
MAILING ADDRESS:	1 Energy Pl Pensacola, Florida 32520-1	LIMIT:	Final	REPORT:	Quarterly
		CLASS SIZE:	MA	PROGRAM:	Industrial
FACILITY:	Gulf Power Company - Lansing Smith Power Plant	MONITORING GROUP NUMBER:	I-017		
LOCATION:	Bay County Road 2300	MONITORING GROUP DESCRIPTION:	Cooling tower blowdown during periods of normal plant operation to the discharge canal to Warren Bayou		
	Southport, FL	RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Bay	MONITORING PERIOD	From:		To:
OFFICE:	Northwest District Branch (Panama City)				

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Chromium, Total Recoverable	Sample Measurement								
PARM Code 01118 1 Mon. Site No. EFF-7	Permit Requirement			0.2 (Mo.Avg.)	0.2 (Day.Max.)	mg/L		Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement								
PARM Code 01094 1 Mon. Site No. EFF-7	Permit Requirement			1.0 (Mo.Avg.)	1.0 (Day.Max.)	mg/L		Quarterly	Grab

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
MAILING ADDRESS: I Energy Pl
Pensacola, Florida 32520-1

PERMIT NUMBER: FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
LOCATION: Bay County Road 2300
Southport, FL

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-01A
MONITORING GROUP DESCRIPTION: Domestic Sewage Plant Discharge to Ash pond
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
PROGRAM: Industrial

COUNTY: Bay
OFFICE: Northwest District Branch (Panama City)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement		0.0075 (An.Avg.)	MGD						5 Days/Week	Meter
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. OUI-6	Permit Requirement					20.0 (An.Avg.)		mg/L		Monthly	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 P Mon. Site No. OUI-6	Permit Requirement				30.0 (Mo.Avg.)	45.0 (Wk.Avg.)	60.0 (Max.)	mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. OUI-6	Permit Requirement					20.0 (An.Avg.)		mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-6	Permit Requirement				30.0 (Mo.Avg.)	45.0 (Wk.Avg.)	60.0 (Max.)	mg/L		Monthly	Grab
pH	Sample Measurement										
PARM Code 00400 P Mon. Site No. OUI-6	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		5 Days/Week	Grab

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Gulf Power Company - Lansing Smith Power Plant

MONITORING GROUP I-01A

PERMIT NUMBER: FL0002267-011-IW1S

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon. Site No. OUI-6	Permit Requirement				200 (An. Avg.)			#/100mL		Monthly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 P Mon. Site No. OUI-6	Permit Requirement				200 (Mo. Geo. Mn.)	800 (Max.)		#/100mL		Monthly	Grab
Chlorine, Total Residual	Sample Measurement										
PARM Code 50060 P Mon. Site No. OUI-6	Permit Requirement				0.5 (Min.)			mg/L		5 Days/Week	Grab
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 P Mon. Site No. OTH-2	Permit Requirement				Report (Mo. Total)			percent		Monthly	Calculated
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement				Report (Mo. Avg.)			mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement				Report (Mo. Avg.)			mg/L		Monthly	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Gulf Power Company
MAILING ADDRESS: 1 Energy Pl
Pensacola, Florida 32520-1

PERMIT NUMBER: FL0002267-011-IW1S

FACILITY: Gulf Power Company - Lansing Smith Power Plant
LOCATION: Bay County Road 2300
Southport, FL

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-01C
MONITORING GROUP DESCRIPTION: Ash Recycle System Discharge
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
PROGRAM: Industrial

COUNTY: Bay
OFFICE: Northwest District Branch (Panama City)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-4	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Daily: 24 hours	Meter
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-4	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)		s.u.		Weekly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-4	Permit Requirement					30.0 (Mo.Avg.) 100.0 (Day.Max.)		mg/L		Weekly	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-4	Permit Requirement					15.0 (Mo.Avg.) 20.0 (Day.Max.)		mg/L		Weekly	Grab
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 1 Mon. Site No. EFF-4	Permit Requirement					Report (Mo.Avg.)		mg/L		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-4	Permit Requirement					Report (Mo.Avg.)		mg/L		Monthly	Grab

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Gulf Power Company - Lansing Smith Power Plant

MONITORING GROUP I-01C

PERMIT NUMBER: FL0002267-011-IW1S

NUMBER:

MONITORING PERIOD

From: _____ To: _____

[illegible]

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	Gulf Power Company	PERMIT NUMBER:	FL0002267-011-IW1S		
MAILING ADDRESS:	1 Energy Pl Pensacola, Florida 32520-1	LIMIT:	Final	REPORT:	Semi-annually
		CLASS SIZE:	MA	PROGRAM:	Industrial
FACILITY:	Gulf Power Company - Lansing Smith Power Plant	MONITORING GROUP NUMBER:	I-01C		
LOCATION:	Bay County Road 2300 Southport, FL	MONITORING GROUP DESCRIPTION:	Ash Recycle System Discharge		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Bay	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Northwest District Branch (Panama City)				

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Arsenic, Total Recoverable	Sample Measurement							
PARM Code 00978 1 Mon. Site No. EFF-4	Permit Requirement			Report (Day Max.)	ug/L		Semi-Annually; twice per year	24-hr TPC
Cadmium, Total Recoverable	Sample Measurement							
PARM Code 01113 1 Mon. Site No. EFF-4	Permit Requirement			Report (Day Max.)	ug/L		Semi-Annually; twice per year	24-hr TPC
Chromium, Total Recoverable	Sample Measurement							
PARM Code 01118 1 Mon. Site No. EFF-4	Permit Requirement			Report (Day Max.)	ug/L		Semi-Annually; twice per year	24-hr TPC
Copper, Total Recoverable	Sample Measurement							
PARM Code 01119 1 Mon. Site No. EFF-4	Permit Requirement			Report (Day Max.)	ug/L		Semi-Annually; twice per year	24-hr TPC
Iron, Total Recoverable	Sample Measurement							
PARM Code 00980 1 Mon. Site No. EFF-4	Permit Requirement			Report (Day Max.)	mg/L		Semi-Annually; twice per year	24-hr TPC
Lead, Total Recoverable	Sample Measurement							
PARM Code 01114 1 Mon. Site No. EFF-4	Permit Requirement			Report (Day Max.)	ug/L		Semi-Annually; twice per year	24-hr TPC

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Gulf Power Company - Lansing Smith Power Plant

MONITORING GROUP I-01C
NUMBER:
MONITORING PERIOD From: _____

PERMIT NUMBER: FL0002267-011-IW1S

[illegible]

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g. < 0.001 . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.