



Florida Power & Light Company, 6351 S. Ocean Drive, Jensen Beach, FL 34957

February 14, 2006

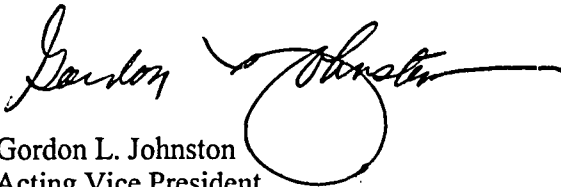
L-2006-052
10 CFR 50.36.b
EPP 3.2.3

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Environmental Protection Plan Report
Renewed Industrial Wastewater Facility Permit

The attached renewed Industrial Wastewater Facility Permit is being submitted pursuant to the requirements of Section 3.2.3 of the St. Lucie Units 1 and 2 Environmental Protection Plans.

Very truly yours,



Gordon L. Johnston
Acting Vice President
St. Lucie Plant

GLJ/KWF

Attachment

IE25

St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Environmental Protection Plan Report
Renewed Industrial Wastewater Facility Permit

L-2006-052
Attachment

St. Lucie Industrial Wastewater Facility Permit
FL0002208

State of Florida DEP transmittal letter (2 pages)
Permit (30 pages)

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 01-18-06 to the listed persons.

[Clerk Stamp]

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Y. Shields 01-18-06
(Clerk) (Date)

Copies furnished to:

Chairman, Board of St. Lucie County Commissioners
Ron Hix, FPL, Juno Beach
Hamilton Oven, P.E., DEP Tallahassee
Tim Powell, P.E. DEP SED West Palm Beach
Betsy Hewitt, DEP Tallahassee

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:

FPL - St. Lucie Power Plant
6501 S. Ocean Drive
Jensen Beach, FL 34957

PERMIT NUMBER:

FL0002208

PA FILE NUMBER:

FL0002208-003-IW1S

ISSUANCE DATE:

January 20, 2006

EXPIRATION DATE:

January 19, 2011

RESPONSIBLE AUTHORITY:

William Jefferson, Jr.
Vice President

FACILITY:

St. Lucie Power Plant
Units 1 and 2
Hutchinson Island
St. Lucie County, Florida

Latitude: See Note Below Longitude: See Note Below

Note: Latitude and longitude are not shown at the Permittee's request, for purposes of Homeland Security pursuant to federal regulations found at 18 CFR 388.113(c)(i) and (ii) and by Presidential Directive dated December 17, 2003.

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.). The above named Permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The facility consists of two nuclear powered steam electric generating units (Unit 1 and Unit 2) each with a nominal rating of 850 MW. The radioactive component of the discharge is regulated by the U.S. Nuclear Regulatory Commission under the Atomic Energy Act, and not by the Department or the U.S. Environmental Protection Agency under the Clean Water Act.

WASTEWATER TREATMENT:

Facility discharge and treatment include the following. Once-through non-contact condenser cooling water (OTCW) and auxiliary equipment cooling water (AECW) are chlorinated. Low volume waste (LVW) (consisting of water treatment system wastewater, steam generator/boiler blowdown, and equipment area floor drainage), non-radioactive wastes/liquid radiation waste, and stormwater associated with industrial activity are treated by chemical/physical processes including neutralization, settling, ion exchange and micro filtration. Non-industrial stormwater and intake screen wash water are discharged without treatment.

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EFFLUENT DISPOSAL:

Surface Water Discharge:

An existing discharge (1,478 MGD permitted maximum daily flow, 1,362 reported annual average daily flow) of OTCW and AECW via outfall D-001 to the onsite discharge canal to the point of discharge (POD) thence to the Atlantic Ocean, a Class III marine water.

Internal Outfalls:

Existing intermittent discharges from internal outfalls I-003 (Liquid Radiation Waste), I-005 (Steam Generator Blowdown), I-007 (Intake Screen Wash Water) and I-008 (Evaporation/Percolation Basin).

Stormwater Discharges:

Existing intermittent stormwater discharges from internal outfalls I-06B (Former Oil Storage Area) and I-06C (Non-Industrial Related Storm water)

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Part I through Part VIII on pages 3 through 18 of this permit.

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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 via Outfall D-001 (OTCW and AECW from Units 1 and 2). Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Instantaneous Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	—	Report	Hourly	Pump logs	FLW-1
Discharge Temperature Water (DEG.F)	—	113 See Cond. I.A.3. and I.A.4.	Hourly	Recorder	EFF-2
Temp. Diff. Between Intake and Discharge (DEG.F)	—	30 See Cond. I.A.3. and I.A.4.	Hourly	Calculated	INT-1, EFF-2
Oxidants, Total Residual (MG/L)	—	0.10 See Cond. I.A.7.	Continuous	Recorder See Cond. I.A.5.	EFF-2
Oxidants, Free Available (MG/L)	0.2 See Cond. I.A.7.	0.5 See Cond. I.A.7.	Every Other Month	Multiple Grabs See Cond. I.A.6.	EFF-1
Chlorination Duration (Minutes)	120, See Cond. I.A.7.		Daily	Logs	EFF-1
Whole Effluent Toxicity (Acute)	See Cond. I.A.8.				EFF-2

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

Sample Point	Description of Monitoring Location
FLW-1	Pump log or recorder
INT-1	At plant intake structure within the intake canal
EFF-1	Outlet corresponding to the individual condenser from Unit 1 or Unit 2
EFF-2	Within the discharge canal upstream of the discharge piping to the Atlantic Ocean

- At the point of discharge, the heated water temperature from the diffusers shall not exceed 113° F or 30° F above ambient at any time except that the maximum discharge temperature shall be limited to 117° F or 32° F above ambient during condenser and/or circulating water pump maintenance, throttling circulating water pumps to

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minimize use of chlorine, and or fouling of circulating water system. This temperature may be measured at a point within the discharge canal. (in determining the temperature differential, the time of travel through the plant may be considered). In the event that discharge temperature exceeds 113° F the Permittee shall notify the Department within 5 days.

4. Discharge from Outfall D-001 shall not cause the ocean surface temperature to exceed 97° F as an instantaneous maximum at any point. Heated water discharged from the multi-port diffuser shall not exceed 17° F above ambient temperature in the receiving body of water outside a thermal mixing zone of 10.7 acre-feet (13,198 cubic meters, 466,092 cubic feet). The mixing zone shall be bounded by an area extending 1,385.5 feet seaward from the most landward discharge port, 21.0 feet to each side of the discharge pipe axis and 8.0 feet in height above the bottom of the discharge. Heated water discharged from the Y-diffuser shall not exceed 17° F above ambient temperature in the receiving body of water outside a thermal mixing zone bounded by a circle with a radius of 115.82 meters, centered on the terminus of the Y-Port diffuser and extending upward from the bottom 8.31 meters, encompassing a mixing zone that shall not exceed 453,613 square feet (42,142 square meters). The total area of the thermal mixing zone for the facility (multi-port and Y-port diffusers) shall not exceed 511,804 square feet (47,548 square meters).
5. If automated TRO monitors are inoperable for more than 7 days, TRO monitoring shall be conducted at least one time per week on not less than three grab samples during daylight hours. Additional grab samples shall be obtained during periods of TRO discharge from condensers.
6. A "multiple grab" sample for FAO from Outfall D-001 for FAO/TRO monitoring shall consist of individual grab samples collected at the approximate beginning of FAO/TRO discharge and once every 15 minutes thereafter until the end of FAO/TRO discharge.
7. Free available oxidants (FAO) shall not exceed an average concentration of 0.2 mg/l and a maximum instantaneous concentration of 0.5 mg/l at the outlet corresponding to an individual condenser during any chlorination period. Additionally, TRO shall not exceed a maximum instantaneous concentration of 0.10 mg/l at any one time as measured at the POD prior to discharge to the Atlantic Ocean. Auxiliary equipment cooling water may receive continuous low-level chlorination. Neither FAO nor total residual oxidants (TRO) may be discharged from either unit condensers for more than two hours in any one day and not more than one unit may discharge FAO or TRO from its condensers at any one time.
8. The Permittee shall conduct the routine tests described below during 1) the first refueling outage after permit issuance and 2) during the first use of ethanolamine in the steam generator while steam generator blowdown is being discharged from Internal Outfall I-005. For both tests effluent from Internal Outfall I-005 will be collected and mixed with effluent from the once through cooling water discharged from either Unit 1 or Unit 2 to mimic the proportion of I-005 effluent in the Outfall D-001 effluent. This effluent mixture shall be termed "final" effluent.
 - a. Whole effluent acute toxicity shall not exceed in any "routine" or in any "additional follow-up" test an LC50 of less than 30% effluent. [Rule 62-302.200(1), Rule 62-302.500(1)(a)4., and Rule 62-4.244(3)(a), F.A.C.
 - b. Monitoring frequency
 - (1) The "routine" tests described in condition I.8.a. shall be conducted once during the term of this permit provided each test meets the acute toxicity requirement in condition I.8.a.
 - c. Test Requirements:

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(1) Routine Test: All "routine" tests shall be conducted using a control (0% effluent) and a minimum of five test concentrations: 100%, 50%, 30%, 12.5%, and 6.25% "final" effluent.

(2) Additional, Follow-up Testing Requirements, if required:

(a) If a routine test does not meet the acute toxicity limitation in 8.a above, the permittee shall conduct two additional follow-up tests on each species that failed the test.

(b) The first additional follow-up test shall be conducted using a control (0% "final" effluent) and a minimum of five dilutions: 100%, 50%, 30%, 12.5%, and 6.25% "final" effluent. The dilution series may be modified in the second test to more accurately identify the toxicity, such that at least two dilutions above (not to exceed 100% "final" effluent) and two dilutions below the target toxicity and a control (0% "final" effluent) are run.

(c) The first test shall begin within two weeks of the end of the failed routine test. The remaining additional follow-up test shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(3) The Permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the mysid shrimp, Americamysis (Mysidopsis) bahia, and the inland silverside, Menidia beryllina, concurrently.

(4) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th ed., EPA-821-R-02-012. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.

(5) The control water and the effluent used will be adjusted to the test salinity using artificial sea salts as described in EPA-821-R-02-012, Section 7.2.4. The test salinity shall be the salinity resulting from the mixture of 30% effluent concentration and the artificial seawater adjusted to the salinity of the receiving water at the time of sampling.

d. Sampling Requirements

(1) Routine tests shall be conducted on four separate grab samples collected at evenly spaced (6-hr) intervals over a 24-hour period and used in four separate tests in order to catch any peaks of toxicity and to account for daily variations in effluent quality. If the duration of the discharge is less than 24-hours, the duration of the discharge shall be documented on the chain of custody. Samples from Internal Outfall I-005 shall be collected at Sampling Location OUI-2. Samples representing Outfall D-001 shall be collected from the discharge canal upstream of OUI-2, at a location that (to the extent practicable) captures the condenser cooling water stream and discharge from I-003, but not discharge from I-005. The two samples shall be blended as described in condition I.A.8., above.

(2) For additional follow-up tests, the first test shall be conducted on four separate grab samples collected at evenly-spaced (6 hr) intervals over a 24-hour period. Each sample shall be run as a separate test. The second additional follow-up test shall be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the first additional follow-up test. Results for each additional test shall include the determination of LC50 values with 95% confidence limits.

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e. Quality Assurance Requirements

- (1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or started no more than 30 days before the date of the "routine" test, or follow-up test conducted. The SRT-QA data shall be included in the reports for each companion "routine" or additional test required.
- (2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated.
- (3) If, during any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.
- (4) Additional, follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2. and included with the submitted bioassay reports.

f. Reporting Requirements

- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine Test Results: The lowest calculated LC50 effluent concentration for the four separate tests shall be entered on the DMR for that test species.
 - (b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value should be entered on the DMR for that test species and the 95% confidence limits.
- (2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review and mailed to the Department at the address below within 30 days of the completion of the test.
- (3) For additional, follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation, and mailed within 45 days of completion of the second additional, valid test. If any additional test fails to meet the effluent limitation in 8.a. above, the permittee shall contact the Department within 30 days of the bioassay report submittal to discuss the corrective actions necessary to remedy the observed acute toxicity.
- (4) All bioassay reports shall be sent to

Florida Department of Environmental Protection
Southeast District Office
Industrial Wastewater Section
1801 SE Hillmoor Drive, Suite C-204
Port St. Lucie, Florida 34952
(772) 871-7662

9. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge process wastewater from Internal Outfall I-003 to the onsite discharge canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	1/Batch	Calculated	OUI-1

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Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Oil and Grease (MG/L)	15.0	20.0	Annually	Grab	OUI-1
Solids, Total Suspended (MG/L)	30.0	100.0	1/Batch	Grab	OUI-1

10. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.9. and as described below:

Sample Point	Description of Monitoring Location
OUI-1	Discharge from the radiation waste system prior to mixing with any other waste stream.

11. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge process wastewater from Internal Outfall I-005 Steam Generator Blowdown (i.e. boiler blowdown) to the onsite discharge canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	See Cond. I.A.13.	Calculated	OUI-2
Oil and Grease (MG/L)	15.0	20.0	See Cond. I.A.13.	Grab	OUI-2
Solids, Total Suspended (MG/L)	30.0	100.0	See Cond. I.A.13.	Grab	OUI-2
Hydrazine, mg/l	--	0.30	See Cond. I.A.14.	See Cond. I.A.15.	EFF-2
Carbohydrazide, mg/l	--	Report	See Cond. I.A.14.	See Cond. I.A.15.	EFF-2

12. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.11. and as described below:

Sample Point	Description of Monitoring Location
OUI-2	Discharge from I-005 prior to entering the discharge canal
EFF-2	Within the discharge canal upstream of the discharge piping to the Atlantic Ocean

13. Internal Outfall I-005 shall be monitored once per discharge event or once per week when discharging, which ever is more frequent, unless there is no discharge for that week. Total volume of batch and period of discharge shall be reported.
14. Hydrazine and Carbohydrazide shall be monitored once per batch by a grab sample during wet lay-up discharges that result from the start-up of a unit following a refueling outage.

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15. A grab sample shall be taken at the discharge of the steam generator to the discharge canal and the following calculations shall be used to determine the concentration from the discharge canal to the Atlantic Ocean [point of discharge (POD)].

Steam Generator Blowdown Flow x Blowdown Hydrazine Concentration = Hydrazine at the POD
Once Through Cooling Water Flow

Steam Generator Blowdown Flow x Blowdown Carbohydrazide Concentration = Carbohydrazide at the POD
Once Through Cooling Water Flow

16. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge stormwater associated with industrial activity from Internal Outfall I-06B Former Oil Storage Area to the onsite intake canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	Annually	Estimated	OUI-3
Solids, Total Suspended (MG/L)	--	Report	Annually	Grab	OUI-3
Oil and Grease (MG/L)	--	Report	Annually	Grab	OUI-3

17. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.16. and as described below:

Sample Point	Description of Monitoring Location
OUI-3	Discharge from the Former Oil Storage Area prior to entering the intake canal

18. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge stormwater from Internal Outfall I-06C to the Mangrove Impoundment. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	Annually	Estimated	OUI-4
Oil and Grease (MG/L)	--	Report	Annually	Grab	OUI-4

19. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.18. and as described below:

Sample Point	Description of Monitoring Location
OUI-4	Stormwater discharge prior to entering the mangrove impoundment area

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20. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge stormwater from Internal Outfall I-008 to intake canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	Weekly when discharging	Calculated	OUI-5
Solids, Total Suspended (MG/L)	30.0	100.0	Weekly, when discharging	Grab	OUI-5
Oil and Grease (MG/L)	15.0	20.0	Weekly, when discharging	Grab	OUI-5

21. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.20. and as described below:

Sample Point	Description of Monitoring Location
OUI-5	Stormwater discharge prior to entering the intake canal

22. Discharge of intake screen wash water from Internal Outfall I-007 is permitted without limitation or monitoring requirements.
23. There shall be no discharge of floating solids or visible foam in other than trace amounts.
24. The discharge shall not cause a visible sheen on the receiving water.

B. Underground Injection Control Systems

This section is not applicable to this facility.

C. Land Application Systems

This section is not applicable to this facility.

D. Other Methods of Disposal or Recycling

1. There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by this permit.

E. 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 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 quantification limits), which is titled "Florida Department of Environmental Protection Table as Required By Rule 62-4.246(4) Testing Methods for Discharges to Surface Water" dated June 21, 1996, is available from the Department on request. 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

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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:

- a. 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;
- b. The laboratory reported PQL 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 a PQL, which is equal to or less than the applicable water quality criteria stated in 62-302 FAC; and
- c. If the PQLs 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 PQL shall be used.

Where the analytical results are below method detection or practical quantification 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. 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. However, where necessary, the Permittee may request approval for alternative methods or for alternative MDLs and PQLs for any approved analytical method, in accordance with the criteria of Rules 62-160.520 and 62-160.530, F.A.C.

2. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136.
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 Southeast District Office 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	DMR 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 31	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.

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The Permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department at the address specified below:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

4. Unless specified otherwise in this permit, all reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to the Southeast District Office at the address specified below:

Florida Department of Environmental Protection
Southeast District Office
Industrial Wastewater Section
1801 SE Hill moor Drive, Suite C-204
Port St. Lucie, Florida 34952
(772) 871-7662

5. All reports and other information shall be signed in accordance with requirements of Rule 62-620.305, F.A.C.
6. The Permittee shall provide safe access points for obtaining representative samples which are required by this permit.
7. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
8. Bypasses subject to General Conditions VIII.20 and VIII.22 shall be monitored or estimated daily, or as approved by the Department for flow and other parameters required for the specific outfall that is bypassed. Monitoring results shall be reported to the Department.
9. 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. The Permittee shall notify the Department in writing no later than six (6) months prior to instituting use of any biocide or chemical used in the cooling systems or any other portion of the treatment system which may be toxic to aquatic life. Such notification 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/600/4-90/027 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.

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Issuance date: January 20, 2006
Expiration date: January 19, 2011

10. There shall be no discharge of polychlorinated biphenyl compounds.
11. The Permittee is authorized to utilize Ammonium Hydroxide, Carbohydrazide, Boric Acid, Dimethylamine, Hydrazine, Sodium Molybdate, Sodium Nitrite, Tolytriazole, Glutaraldehyde, Isothiazolin, Polyglycol, Sodium Hypochlorite, Boron, Lithium Hydroxide, as previously approved.

II. Industrial Sludge Management Requirements

This section not applicable to this facility.

III. Ground Water Monitoring Requirements

This section is not applicable to this facility.

IV. Other Land Application Requirements

This section is not applicable to this facility.

V. Operation and Maintenance Requirements

A. Operation of Treatment and Disposal Facilities

1. The Permittee shall ensure that the operation of this facility is as described in the application and supporting documents.
2. The operation of the pollution control facilities described in this permit shall be under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.

B. Record keeping Requirements:

1. The Permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:
 - 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, other than those required in items a. and f. of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
 - 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, unless otherwise specified by Department rule;
 - d. A copy of the current permit;
 - e. A copy of any required record drawings;
 - f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

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VI. Schedules

1. A Best Management Practices Pollution Prevention (BMP3) Plan shall be prepared and implemented in accordance with Part VII of this permit and the following schedule:

Action Item		Scheduled Completion Date
1	Continue Implementing Existing BMP3 Plan	Issuance Date of Permit

2. The Permittee shall achieve compliance with the other conditions of this permit as follows:
Operational level attained Issuance Date of permit
3. The Permittee shall comply with the requirements of 40 CFR Part 125.95(a)(1) and (2) no later January 7, 2008.
4. The Permittee shall conduct an evaluation to verify the need to continue the thermal mixing zone for Outfall D-001 and the appropriateness of the mixing zone dimensions with the timely submittal of a permit renewal application.

VII. Other Specific Conditions

A. Specific Conditions Applicable to All Permits

1. Drawings, plans, documents or specifications submitted by the Permittee, not attached hereto, but retained on file at the Southeast District Office, are made a part hereof.
2. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
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.

B. Specific Conditions Related to Construction

This section is not applicable to this facility.

C. Duty to Reapply

1. The Permittee shall submit an application to renew this permit at least 180 days before the expiration date of this permit.
2. The Permittee shall apply for renewal of this permit on the appropriate form listed in Rule 62-620.910, F.A.C., and in the manner established in Chapter 62-620, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.
3. An application filed in accordance with subsections 1. and 2. of this part shall be considered timely and sufficient. When an application for renewal of a permit is timely and sufficient, the existing permit shall not expire until the Department has taken final action on the application for renewal or until the last day for seeking judicial review of the agency order or a later date fixed by order of the reviewing court.

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4. The late submittal of a renewal application shall be considered timely and sufficient for the purpose of extending the effectiveness of the expiring permit only if it is submitted and made complete before the expiration date.

D. 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.
 - 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.

E. Reopener Clause

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, or other information show a need for a different limitation or monitoring requirement.
3. The Department may develop a Total Maximum Daily Load (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.

VIII. General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, F.S. Any permit noncompliance constitutes a violation of Chapter 403,

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F.S., and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1), F.A.C.]*

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation 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), F.A.C.]*
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 infringements 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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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
 - 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), F.A.C.]

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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, Florida Statutes, 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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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 Department approves the transfer. *[62-620.610(14), F.A.C.]*
15. The Permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), F.A.C.]*
16. The Permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting 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), F.A.C.]*
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;
 - 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), F.A.C.]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, 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).

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- b. If the Permittee monitors any contaminate 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. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300(4), F.A.C. The laboratory must be certified for any specific method and analyte combination that is used to comply with this permit. For domestic wastewater facilities, the on-site test procedures specified in Rule 62-160.300(4), F.A.C., shall be performed by a laboratory certified test for those parameters or under the direction of an operator certified under Chapter 62-602, F.A.C.
 - e. Fields activities including on-site tests and sample collection, whether performed by a laboratory or a certified operator, must follow the applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used where they have been approved according to the requirements of Rules 62-160.220, 62-160.330, and 62-160.600, F.A.C. [62-620.610(18), F.A.C.]
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), F.A.C.]
20. The Permittee shall report to the Department's Southeast 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 untreated or treated 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 Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 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.

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- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b(1) above, shall be provided to Department's Southeast 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 Southeast District Office shall waive the written report. *[62-620.610(20), F.A.C.]*
21. The Permittee shall report all instances of noncompliance not reported under Conditions VIII. 18 and 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VIII. 20. of this permit. *[62-620.610(21), F.A.C.]*
22. Bypass Provisions.
- a. 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 preventative maintenance; and
 - (3) The Permittee submitted notices as required under Condition VIII.22.b. of this permit.
- b. 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 Condition VIII.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.
- c. 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 Condition VIII.22 a. (1) through (3) of this permit.
- d. 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 provision of Condition VIII.22.a. through c. of this permit. *[62-620.610(22), F.A.C.]*

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23. Upset Provisions

- a. 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 Condition VIII.20. of this permit; and
 - (4) The Permittee complied with any remedial measures required under Condition VIII.5. of this permit.
- b. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. 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), F.A.C.]

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Mimi Drew
Director
Division of Water Resource Management

2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 245-8336

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St.Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER

FL0002208-003-IW1S

LIMIT:
CLASS SIZE:

Final

REPORT:
GROUP:

Monthly
Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESC: Condenser once through cooling water

COUNTY: St.Lucie

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 1 Mon. Site No. FLW-1	Permit Requirement		Report (Inst.Max.)	MGD						Hourly	Pump logs
Chlorination Duration (Unit 1)	Sample Measurement										
PARM Code 78739 1 Mon. Site No. EFF-1	Permit Requirement					120 (Day.Max.)	MIN-UTES			Daily	logs
Chlorination Duration (Unit 2)	Sample Measurement										
PARM Code 50068 S Mon. Site No. EFF-1	Permit Requirement					120 (Day.Max.)	MIN-UTES			Daily	logs
Oxidants, Free Available (Unit 1)	Sample Measurement										
PARM Code 34045 1 Mon. Site No. EFF-1	Permit Requirement				0.2 (Day.Avg)	0.5 (Inst.Maximum)	MG/L			1/2Months	Multiple Grabs
Oxidants, Free Available (Unit 2)	Sample Measurement										
PARM Code 34045 S Mon. Site No. EFF-1	Permit Requirement				0.2 (Day.Avg)	0.5 (Inst.Maximum)	MG/L			1/2Months	Multiple Grabs
Discharge Temperature (F), (Normal Operations)	Sample Measurement										
PARM Code 00011 1 Mon. Site No. EFF-2	Permit Requirement				113 (Inst.Max.) See Permit		DEG.F			Hourly	Recorder
Discharge Temperature (F), (Maintenance Operations)	Sample Measurement										
PARM Code 00011 Q Mon. Site No. EFF-2	Permit Requirement				117 (Inst.Max.) See Permit		DEG.F			Hourly	Recorder
Temp. Diff. between Intake and Discharge (Normal operations)	Sample Measurement										
PARM Code 61576 1 Mon. Site No. EFF-2	Permit Requirement				30 (Inst.Max.) See Permit		DEG.F			Hourly	Calculated
Temp. Diff. between Intake and	Sample Measurement										

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Discharge(maintenance operations)											
PARM Code 61576 Q Mon. Site No. INT-2	Permit Requirement					32 (Inst.Max.) See Permit		DEG.F		Hourly	Calculated
Oxidants, Total Residual	Sample Measurement										
PARM Code 34044 1 Mon. Site No. EFF-2	Permit Requirement					0.10 (Inst.Max.)		MG/L		Continuous	Recorder

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 DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St.Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT:
CLASS SIZE:

Final

REPORT:
GROUP:

Toxicity
Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESC: Condenser once through cooling water

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE Menidia beryllina(Routine)	Sample Measurement							
PARM Code TAN6B P Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		Once during the Permit	4 grabs/ 24 hour
LC50 STATRE 96HOUR ACUTE Menidia beryllina(Additional)	Sample Measurement							
PARM Code TAN6B Q Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Mysidopsis bahia(Routine)	Sample Measurement							
PARM Code TAN3E P Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		Once during the Permit	4 grabs/ 24 hour
LC50 STATRE 96HOUR ACUTE Mysidopsis bahia(Additional)	Sample Measurement							
PARM Code TAN3E Q Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		As needed	As required by the permit
	Sample Measurement							
	Permit Requirement							
	Sample Measurement							
	Permit Requirement							

*IF A SECOND DEFINITIVE TEST IS REQUIRED, ENTER THE RESULT IN AN EMPTY ROW.

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

ENTER NODI=9 IN THE RESULTS COLUMN IF NO DEFINITIVE TESTS ARE 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 DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER: FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-003
MONITORING GROUP DESC: Liquid radiation waste discharge

COUNTY: St. Lucie

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 P Mon. Site No. OUI-1	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						1 / Per Batch of Process	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-1	Permit Requirement				30.0 (Day.Avg.)		100.0 (Day.Max.)	MG/L		1 / Per Batch of Process	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-1	Permit Requirement				15.0 (Day. Avg.)		20.0 (Day. Max)	MG/L		Annually	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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)
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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-005
MONITORING GROUP DESC: Steam generator blowdown to the discharge canal

COUNTY: St. Lucie

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 P Mon. Site No. OUI-2	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						See Permit	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-2	Permit Requirement				15.0 (Day.Avg.)	20.0 (Day.Max.)	MG/L			See Permit	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-2	Permit Requirement				30.0 (Day.Avg.)	100.0 (Day.Max.)	MG/L			See Permit	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St.Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-005
MONITORING GROUP DESC: Steam generator blowdown to the discharge canal

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Hydrazine, Chemical Additive	Sample Measurement										
PARM Code 81313 1 Mon. Site No. EFF-2	Permit Requirement					0.30 Maximum	mg/l			See Permit	Calculation
Carbohydrazide, Chemical Additive	Sample Measurement										
PARM Code 61916 1 Mon. Site No. EFF-2	Permit Requirement					Report Maximum	mg/l			See Permit	Calculation
	Sample Measurement										
	Permit Requirement										

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PERMITTEE NAME: FPL- St.Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Annual
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-06B
MONITORING GROUP DESC: Former oil storage area s storm water

COUNTY: St. Lucie

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 P Mon. Site No. OUI-3	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						Annually	Estimated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-3	Permit Requirement						Report (Day.Max.)	MG/L		Annually	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-3	Permit Requirement						Report (Day.Max.)	MG/L		Annually	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St.Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Annual
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-06C
MONITORING GROUP DESC: Non-industrial storm water to mangrove impoundment

COUNTY: St. Lucie

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 P Mon. Site No. OUI-4	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						Annually	Estimated
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-4	Permit Requirement					Report (Day.Max.)	MG/L			Annually	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
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MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FT0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-008

MONITORING GROUP DESC: Evaporation and percolation basin

COUNTY: St. Lucie

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 P Mon. Site No. OUI-5	Permit Requirement	Report (Day.Avg.)	Report (Day.Max)	MGD						Weekly when discharging	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-5	Permit Requirement				30.0 (Day. Avg.)	100.0 (Day.Max.)		MG/L		Weekly when Discharging	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-5	Permit Requirement				15.0 (Day. Avg.)	20.0 (Day.Max.)		MG/L		Weekly when Discharging	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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

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.