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April 2, 2018

**-VIA ELECTRONIC FILING -**

Ms. Carlotta S. Stauffer  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

**Re: Docket No. 20180007-EI**

Dear Ms. Stauffer:

I enclose for electronic filing in the above docket (i) Florida Power & Light Company's ("FPL") Petition for Approval of Environmental Cost Recovery True-Up for the Period Ending December 2017, (ii) the prepared testimony and exhibits of FPL witnesses Renae B. Deaton and Michael W. Sole; and (iii) FPL's Supplemental CAIR/MATS/CAVR Filing, which is identified as Exhibit MWS-1 and will be sponsored by FPL witness Michael W. Sole.

If there are any questions regarding this transmittal, please contact me at (561) 304-5795.

Sincerely,

s/ Maria J. Moncada  
Maria J. Moncada

Enclosures

cc: Counsel for Parties of Record (w/ encl.)

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In Re: Environmental Cost Recovery Clause

Docket No: 20180007-EI

Filed: April 2, 2018

**PETITION FOR APPROVAL OF ENVIRONMENTAL COST  
RECOVERY TRUE-UP FOR THE PERIOD ENDING DECEMBER 2017**

Florida Power & Light Company (“FPL”) hereby petitions this Commission for approval of FPL’s actual End-of-Period Environmental Cost Recovery Clause (“ECRC”) true-up over-recovery amount of \$60,369,973, including interest, for the period January 2017 through December 2017 and an over-recovery of \$31,572,272 as the adjusted net true-up amount for the same period. In support of this petition, FPL incorporates the prepared written testimony and exhibits of FPL witnesses Renae B. Deaton and Michael W. Sole.

1. The calculation and the supporting documentation are contained in the prepared testimony and exhibit of FPL witness Renae B. Deaton, which is being filed together with this Petition and incorporated herein.

2. In Order No. PSC-2018-0014-FOF-EI, dated January 5, 2018, the Commission approved an over-recovery of \$28,797,701, including interest, as the actual/estimated ECRC true-up for the period January 2017 through December 2017.

3. The adjusted net true-up for the period January 2017 through December 2017 is an over-recovery of \$31,572,272.

4. Pursuant to Order No. PSC-2014-0643-FOF-EI, FPL is providing its Supplemental CAIR/MATS/CAVR filing as Exhibit MWS-1, which is being filed together with this Petition and incorporated herein. Exhibit MWS-1 is sponsored by FPL witness Michael W. Sole.

5. Mr. Sole’s testimony also addresses modifications of two existing, approved ECRC projects: the Manatee Temporary Heating System Project and the National Pollutant

Discharge Elimination System Permit Renewal Requirements Project. FPL filed petitions seeking approval of those modifications on February 12, 2018 and March 5, 2018, respectively. Finally, Mr. Sole's testimony addresses the over-recovery variance for the Turkey Point Cooling Canal Monitoring Plan Project.

WHEREFORE, Florida Power & Light Company respectfully requests the Commission to approve an actual End-of-Period Environmental Cost Recovery true-up over-recovery amount of \$60,369,973, including interest and an over-recovery of \$31,572,272 as the adjusted net true-up for the period January 2017 through December 2017.

Respectfully submitted,

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By: s/ Maria Jose Moncada  
Maria Jose Moncada  
Florida Bar No. 0773301

**CERTIFICATE OF SERVICE**  
**Docket No. 20180007-EI**

I **HEREBY CERTIFY** that a true and correct copy of the foregoing has been furnished by electronic service on this 2nd day of April 2018 to the following:

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By: *s/ Maria J. Moncada*  
Maria J. Moncada  
Florida Bar No. 0773301

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **TESTIMONY OF RENAE B. DEATON**

4 **DOCKET NO. 20180007-EI**

5 **APRIL 2, 2018**

6

7 **Q. Please state your name and address.**

8 A. My name is Renae B. Deaton. My business address is Florida Power & Light  
9 Company, 700 Universe Boulevard, Juno Beach, Florida 33408.

10 **Q. By whom are you employed and in what capacity?**

11 A. I am employed by Florida Power & Light Company (“FPL” or the “Company”) as  
12 Director, Cost Recovery Clauses, in the Regulatory & State Governmental Affairs  
13 Department.

14 **Q. Please describe your educational background and professional experience.**

15 A. I hold a Bachelor of Science in Business Administration and a Master of Business  
16 Administration from Charleston Southern University. Since joining FPL in 1998, I  
17 have held various positions in the rates and regulatory areas. Prior to my current  
18 position, I held the positions of Senior Manager of Cost of Service and Load  
19 Research and Senior Manager of Rate Design in the Rates and Tariffs Department. I  
20 am a member of the Edison Electric Institute (“EEI”) Rates and Regulatory Affairs  
21 Committee, and I have completed the EEI Advanced Rate Design Course. I have  
22 been a guest speaker at Public Utility Research Center/World Bank International

1 Training Programs on Utility Regulation and Strategy. In 2016, I assumed my  
2 current position as Director, Cost Recovery Clauses, where I am responsible for  
3 providing direction as to the appropriateness of inclusion of costs through a cost  
4 recovery clause and the overall preparation and filing of all cost recovery clause  
5 documents including testimony and discovery.

6 **Q. What is the purpose of your testimony?**

7 A. The purpose of my testimony is to present for Commission review and approval the  
8 Environmental Cost Recovery Clause (“ECRC”) final true-up amount associated with  
9 FPL’s environmental compliance activities for the period January 2017 through  
10 December 2017.

11 **Q. Have you prepared or caused to be prepared under your direction, supervision  
12 or control an exhibit in this proceeding?**

13 A. Yes, I have. My Exhibit RBD-1 consists of nine forms.

- 14 • Form 42-1A reflects the final true-up for the period January 2017 through  
15 December 2017.
- 16 • Form 42-2A provides the final true-up calculation for the period.
- 17 • Form 42-3A provides the calculation of the interest provision for the period.
- 18 • Form 42-4A provides the calculation of variances between actual and  
19 actual/estimated costs for O&M activities for the period.
- 20 • Form 42-5A provides a summary of actual monthly costs for O&M activities in  
21 the period.
- 22 • Form 42-6A provides the calculation of variances between actual and

1 actual/estimated revenue requirements for capital investment projects for the  
2 period.

3 • Form 42-7A provides a summary of actual monthly revenue requirements for the  
4 period for capital investment projects.

5 • Form 42-8A provides the calculation of depreciation expense and return on  
6 capital investment for each capital investment project. Pages 43 through 45  
7 provide the beginning of period and end of period depreciable base by production  
8 plant name, unit or plant account and applicable depreciation rate or amortization  
9 period for each capital investment project for the period.

10 • Form 42-9A presents the capital structures, components and cost rates relied  
11 upon to calculate the rate of return applied to capital investments and working  
12 capital amounts included for recovery through the ECRC for the period.

13 **Q. What is the source of the data that you present by way of testimony or exhibits**  
14 **in this proceeding?**

15 A. Unless otherwise indicated, the data are taken from the books and records of FPL.  
16 The books and records are kept in the regular course of FPL's business in accordance  
17 with Generally Accepted Accounting Principles and practices, and with the  
18 provisions of the Uniform System of Accounts as prescribed by this Commission.

19 **Q. Please explain the calculation of the net true-up amount.**

20 A. Form 42-1A, entitled "Calculation of the Final True-up Amount" shows the  
21 calculation of the net true-up for the period January 2017 through December 2017, an  
22 over-recovery of \$31,572,272, which FPL is requesting be included in the calculation



1 of the ECRC factors for the January 2019 through December 2019 period.

2

3 The actual end-of-period over-recovery for the period January 2017 through  
4 December 2017 of \$60,369,973 (shown on Form 42-1A, Line 3) minus the  
5 actual/estimated end-of-period over-recovery for the same period of \$28,797,701  
6 (shown on Form 42-1A, Line 6) results in the net true-up over-recovery for the period  
7 January 2017 through December 2017 (shown on Form 42-1A, Line 7) of  
8 \$31,572,272.

9 **Q. Have you provided a schedule showing the calculation of the end-of-period true-**  
10 **up amount?**

11 A. Yes. Form 42-2A, entitled “Calculation of the Final True-up Amount,” shows the  
12 calculation of the end-of-period true-up over-recovery amount of \$60,369,973 for the  
13 period January 2017 through December 2017. The \$59,791,888 shown on line 5 plus  
14 the interest provision of \$578,084 shown on line 6, which is calculated on Form 42-  
15 3A, results in the final over-recovery of \$60,369,973 shown on line 11.

16 **Q. Are all costs listed in Forms 42-4A through 42-8A attributable to environmental**  
17 **compliance projects approved by the Commission?**

18 A. Yes, they are.

19 **Q. How did actual recoverable project O&M and capital revenue requirements for**  
20 **January 2017 through December 2017 compare with FPL’s actual/estimated**  
21 **amounts as presented in previous testimony and exhibits?**

22 A. Form 42-4A shows that total actual project O&M was \$26,969,636 or 43% lower

1 than projected, and Form 42-6A shows that the total actual revenue requirements  
2 (return on capital investments, depreciation and taxes) associated with the project  
3 capital investments were \$866,185 or 0.5% lower than projected. Individual project  
4 variances are provided on Forms 42-4A and 42-6A. Revenue requirements for each  
5 capital project for the period January 2017 through December 2017 are provided on  
6 Form 42-8A, pages 14 through 42.

7 **Q. Please explain the reasons for the significant variances in project O&M and**  
8 **revenue requirements associated with project capital investments.**

9 A. The significant variances in FPL's 2017 recoverable O&M expenses and capital  
10 revenue requirements from actual/estimated amounts are associated with the  
11 following projects:

12  
13 **O&M Variance Explanations**

14  
15 **Project 5a. Maintenance of Stationary Above Ground Fuel Storage Tanks**

16 Project expenditures were \$322,098 or 20% higher than previously projected. The  
17 variance is primarily related to an increase of approximately \$203,000 in Martin  
18 Plant fuel oil tank maintenance for the purchase of paint that was not included in the  
19 original budget. In addition, at Manatee Plant, approximately \$92,000 was  
20 inadvertently charged to this project that should have been charged to base O&M. A  
21 correction was made in March of 2018. Finally, repairs on a tank at the Manatee Fuel  
22 Oil Terminal were required following an inspection, resulting in an additional cost of  
23 approximately \$27,000.

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**Amortization of Gains on Sales of Emissions Allowances**

Gains were \$119,218 or 2,789% greater than previously projected. The variance is primarily the result of the sale of FPL’s excess Cross State Air Pollution Rule (“CSAPR”) Nitrogen Oxides (“NOx”) ozone season allowances that was not planned for 2017. Following the conclusion of the CSAPR ozone season and determination of allowances needed for compliance, FPL identified an opportunity to sell excess allowances to a third party in December 2017.

**Project 19a. Substation Pollutant Discharge Prevention & Removal – Distribution**

Project expenditures were \$687,272 or 25% lower than previously projected. The variance is primarily due to delays in obtaining equipment clearances (i.e., de-energize equipment) required for equipment repair, which resulted in a lower than projected number of transformers being repaired during 2017.

**Project 19b. Substation Pollutant Discharge Prevention & Removal – Transmission**

Project expenditures were \$119,773 or 12% lower than previously projected. The variance is primarily due to delays in obtaining equipment clearances (i.e., de-energize equipment) required for equipment repair, which resulted in a lower than projected number of transformers being repaired during 2017.

1           **Project 21.    St. Lucie Turtle Nets**

2           Project expenditures were \$53,228 or 48% higher than previously projected. The  
3           primary cause of the variance was more algae and jellyfish intrusion than predicted,  
4           requiring additional net cleaning.

5

6           **Project 22.    Pipeline Integrity Management**

7           Project expenditures were \$229,908 or 57% lower than previously projected. The  
8           variance primarily reflects the postponement of a planned in-line inspection due to  
9           reduced residual fuel oil use at Martin Plant. This postponement along with  
10          confirmatory excavations allowed FPL to demonstrate adequate pipeline integrity to  
11          meet rule requirements without performing an in-line inspection in 2017.

12

13          **Project 24.    Manatee Plant Reburn**

14          Project expenditures were \$103,915 or 30% lower than previously projected. The  
15          variance is primarily due to the postponement of the Manatee Unit 1 overhaul.  
16          Inspections and repairs originally planned to occur during the overhaul were deferred  
17          to the next planned outage that is now scheduled to begin November 1, 2018.

18

19          **Project 29.    SCR Consumables**

20          Project expenditures were \$316,702 or 45% lower than previously projected. The  
21          variance is primarily related to reductions in unit operations and chemical costs at the  
22          Martin and Manatee combined cycle facilities.

23

1 Maintenance costs and reagent use for the Selective Catalytic Reduction (“SCR”) at  
2 Martin Unit 8 were approximately \$117,000 lower than projected due to lower than  
3 projected costs for ammonia and outside contractor services as a result of lower than  
4 projected actual unit operations.

5  
6 Costs at Manatee Unit 3 were approximately \$200,000 lower than projected due to  
7 lower than projected costs for ammonia and reagent system maintenance as a result  
8 of reduced unit operations. A required five-year inspection of the tank and piping  
9 associated with the SCR identified that no significant repairs were required and  
10 resulted in approximately \$120,000 reduction from projected maintenance expenses.  
11 In addition, a Unit 3 scheduled outage resulted in reduced operation, which required  
12 less ammonia to be purchased than projected, resulting in an additional \$80,000  
13 savings.

14  
15 **Project 33. MATS Project**

16 Project expenditures were \$215,598 or 11% lower than previously projected. The  
17 variance is primarily due to reduced chemical consumption for mercury control that  
18 resulted from lower than projected actual unit operations at Scherer and St. Johns  
19 River Power Park.

20  
21 **Project 37. DeSoto Next Generation Solar Energy Center**

22 Project expenditures were \$202,229 or 28% lower than previously projected. The  
23 variance is primarily related to reduced payroll and associated employee costs and

1 expenses that occurred from changes that were implemented to FPL's solar staffing  
2 model. The original projections were based on the historical staffing model that  
3 included separate staffing for the ECRC recoverable solar projects. The new staffing  
4 models allow for utilization of employees across several solar sites, such that  
5 employees at DeSoto are now shared with other solar sites and the attendant costs are  
6 allocated accordingly. Additional reductions were achieved through lower than  
7 projected costs for vegetation management contracts at the DeSoto site.

8  
9 **Project 39. Martin Next Generation Solar Energy Center**

10 Project expenditures were \$1,392,830 or 37% higher than previously projected. The  
11 variance is primarily due to higher than projected maintenance costs associated with  
12 solar field array piping and array support structures. As a result of a weld failure that  
13 occurred on the solar array heat collector piping, FPL implemented a full-scale  
14 countermeasure at a cost of approximately \$950,000 for inspections of all welds in  
15 500 acres of the solar field. The remaining \$450,000 of increased cost was due to the  
16 discovery of a piping support pier issue in a section of the mirror framework. A  
17 systematic survey of all 52 miles of piping was completed to determine the extent of  
18 pier work that needed to be addressed. A consultant was subsequently hired and a  
19 countermeasure implemented at more than 13,000 pier locations.

20  
21 **Project 41. Manatee Temporary Heating System**

22 Project expenditures were \$371,365 or 16% lower than previously projected. The  
23 variance was primarily due to the following factors: (1) use of on-site dredge material

1 resulted in a \$150,000 savings over the original plan to haul dredge material from  
2 off-site, (2) costs for project management were shared with two other projects at  
3 Canaveral Clean Energy Center resulting in a total savings of \$88,000,  
4 (3) implementation of improved processes and design changes resulted in a savings  
5 of approximately \$50,000, (4) the elimination of a planned permit that resulted in a  
6 cost saving of approximately \$12,000, and (5) a negotiated contractor settlement  
7 addressing project change orders resulted in a savings of approximately \$52,000.

8  
9 **Project 42. Turkey Point Cooling Canal Monitoring Plan**

10 Project expenditures were \$26,499,882 or 70% lower than previously projected. As  
11 discussed in the testimony of FPL witness Sole, the primary cause of the variance  
12 was the deferral of certain activities to 2018 due to delays in the permitting process.

13  
14 **Project 45. 800 MW Unit ESP**

15 Project expenditures were \$115,626 or 15% lower than previously projected. The  
16 variance is primarily related to lower than expected Electrostatic Precipitators  
17 (“ESP”) maintenance costs due to lower than projected actual plant operations at the  
18 Martin site.

19  
20 **Project 47. NPDES Permit Renewal Requirements**

21 Project expenditures were \$66,892 or 55% higher than previously projected. The  
22 variance was primarily due to an accelerated schedule for the St. Lucie Plant Chlorine  
23 Optimization Study. Approximately \$75,000 associated with Phase 2 of the study

1 originally projected for 2018 was incurred in 2017 due to the early completion of  
2 Phase 1 in 2017.

3  
4 **Project 50. Steam Electric Effluent Guidelines Revised Rules**

5 Project expenditures were \$198,803 or 121% higher than previously projected. The  
6 variance was primarily due to higher than forecasted expenditures associated with  
7 preliminary engineering studies and investigations necessary to evaluate options to  
8 achieve compliance with the current Steam Electric Effluent Guideline limits on  
9 fluidized gas desulfurization (“FGD”) wastewater, which is associated with the Plant  
10 Scherer wet scrubber system. The main focus of these studies was evaluating  
11 potential compliance technologies including physical and chemical treatment  
12 systems, biological treatment and vapor compression evaporation.

13  
14 **Capital Variance Explanations**

15  
16 **Project 42. Turkey Point Cooling Canal Monitoring Plan**

17 Project revenue requirements were \$495,747 or 14% lower than previously projected.

18 As discussed in the testimony of witness Sole, the variance is primarily due to  
19 deferrals in capital spending from 2017 to 2018 for the Recovery Well System and  
20 the Turning Basin and Turtle Point Backfill as a result of delays in the permitting  
21 process.



1           **Project 54. Coal Combustion Residuals**

2           Project revenue requirements were \$242,966 or 26% lower than previously projected.

3           The variance is due to a deferral of expenditures. The deferred activities included:  
4           design, procurement and construction of Scherer Unit 4's dry bottom ash system,  
5           rerouting of the waterway from the ash pond, and treatment and discharge of  
6           wastewater.

7

8                           **Proposed Accounting for Cooling Tower Repacking Activity Costs**

9

10   **Q. FPL filed a petition on March 5, 2018 requesting to modify the NPDES Permit**  
11   **Renewal Requirement Project to include cooling tower repacking and associated**  
12   **monitoring costs at Plant Scherer Unit 4. Please address how FPL proposes to**  
13   **treat the costs for this modification.**

14   A. The NPDES permit renewal process for Plant Scherer is still in an early stage.  
15   Therefore, FPL is not seeking current ECRC recovery of the cooling tower repacking  
16   costs. Rather, FPL requests approval to recover those costs through the ECRC only  
17   after issuance of the renewed NPDES permit with a requirement to address copper  
18   discharges. Prior to that, FPL will exclude the costs incurred for the repacking  
19   activity at Plant Scherer Unit 4 from ECRC recoverable accounts and instead will  
20   record those costs in base capital accounts. Any associated expenses will likewise be  
21   recorded in base expense accounts.

22

23   If, as anticipated, the renewed NPDES permit for Plant Scherer includes a condition

1           that requires a reduction in copper concentration (thus confirming the regulatory  
2           requirements for the repacking activity), FPL will transfer the balance of all  
3           reasonable and prudent costs for the repacking activity from the base capital accounts  
4           to ECRC recoverable accounts and begin the normal process of ECRC recovery for  
5           those and future reasonable and prudent associated capital costs and O&M expenses.

6   **Q.    Does this conclude your testimony?**

7   A.    Yes, it does.

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017

	2017
1. Over/(Under) Recovery for the Current Period (Form 42-2A, Line 5)	\$59,791,888
2. Interest Provision (Form 42-2A, Line 6)	\$578,084
3. Total	<u>\$60,369,973</u>
4. Actual/Estimated Over/(Under) Recovery for the Same Period <sup>(6)</sup>	\$28,365,707
5. Interest Provision	\$431,995
6. Total	<u>\$28,797,701</u>
7. Net True-Up for the period Over/(Under)	<u>\$31,572,272</u>

<sup>(6)</sup> Approved in Order No. PSC-2018-0014-FOF-EI issued on January 5, 2018

Note: Totals may not add due to rounding

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Jan - 2017	Feb - 2017	Mar - 2017	Apr - 2017	May - 2017	Jun - 2017	Jul - 2017	Aug - 2017	Sep - 2017	Oct - 2017	Nov - 2017	Dec - 2017	Total
1. ECRC Revenues (net of Revenue Taxes)	\$1,020,904	\$1,156,964	\$1,092,622	\$1,871,689	\$2,244,550	\$2,622,657	\$2,483,373	\$2,478,611	\$2,378,803	\$2,522,607	\$18,989,331	\$16,243,961	\$249,106,274
2. True-Up Provision	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$949,348	\$11,392,170
3. ECRC Revenues Applicable to Period (Lines 1 + 2)	\$1,970,251	\$2,106,312	\$2,041,970	\$2,821,037	\$3,193,898	\$3,572,005	\$3,432,721	\$3,427,959	\$3,328,151	\$3,471,955	\$19,938,679	\$17,193,309	\$260,498,444
4. Jurisdictional ECRC Costs													
a. O&M Activities (Form 42-5A, Line 9)	\$1,801,543	\$2,530,350	\$2,348,467	\$2,515,814	\$2,669,478	\$3,246,176	\$3,456,368	\$3,283,451	\$2,266,734	\$3,296,207	\$3,212,958	\$3,127,332	\$33,754,880
b. Capital Investment Projects (Form 42-7A, Line 9)	\$14,022,596	\$14,001,320	\$13,976,047	\$13,954,361	\$13,929,761	\$13,906,445	\$13,881,632	\$13,860,207	\$13,844,510	\$13,843,210	\$13,845,796	\$13,883,802	\$166,951,676
c. Total Jurisdictional ECRC Costs	\$15,824,140	\$16,531,670	\$16,324,514	\$16,470,175	\$16,599,239	\$17,152,621	\$17,338,000	\$17,143,658	\$16,111,244	\$17,139,417	\$17,058,743	\$17,011,134	\$200,706,556
5. Over/(Under) Recovery (Line 3 - Line 4c)	\$4,146,112	\$576,642	\$1,716,466	\$3,196,063	\$5,594,658	\$7,419,383	\$8,594,720	\$8,587,301	\$8,566,907	\$6,332,538	\$2,879,935	\$2,182,174	\$59,791,888
6. Interest Provision (Form 42-3A, Line 10)	\$22,425	\$22,021	\$25,366	\$30,036	\$32,824	\$41,543	\$51,529	\$58,049	\$53,396	\$60,889	\$81,523	\$88,493	\$578,084
7. Prior Periods True-Up to be (Collected)/Refunded	\$11,392,170	\$14,611,359	\$14,269,674	\$15,062,139	\$17,326,881	\$22,007,026	\$28,518,604	\$36,215,506	\$43,911,508	\$51,582,464	\$57,026,543	\$59,038,653	\$11,392,170
8. True-Up Collected/(Refunded) (See Line 2)	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381	\$23,872,381
9. End of Period True-Up (Lines 5-6+7+8)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$949,348)	(\$11,392,170)
10. Adjustments to Period Total True-Up including Interest	\$38,483,740	\$38,133,055	\$38,924,520	\$41,201,272	\$45,879,407	\$52,390,985	\$60,087,887	\$67,783,889	\$75,454,844	\$80,898,924	\$82,911,034	\$84,242,353	\$60,369,873
11. End of Period Total Net True-Up (Lines 9+10)	\$38,483,740	\$38,133,055	\$38,924,520	\$41,201,272	\$45,879,407	\$52,390,985	\$60,087,887	\$67,783,889	\$75,454,844	\$80,898,924	\$82,911,034	\$84,242,353	\$60,369,873

<sup>(\*)</sup> From FPL's 2016 Final True-up filed on April 3, 2017.

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Jan - 2017	Feb - 2017	Mar - 2017	Apr - 2017	May - 2017	Jun - 2017	Jul - 2017	Aug - 2017	Sep - 2017	Oct - 2017	Nov - 2017	Dec - 2017	Total
1. Beginning True-Up Amount [Form 42-2A, Lines 7 + 7a + 10]	\$35,264,551	\$38,483,740	\$38,133,055	\$38,924,520	\$41,201,272	\$45,679,407	\$52,390,985	\$60,087,887	\$67,763,899	\$75,454,844	\$80,898,924	\$82,911,034	N/A
2. Ending True-Up Amount before Interest (Line 1 + Form 42-2A, Lines 5 + 8)	\$38,461,315	\$38,111,034	\$38,899,163	\$41,171,236	\$45,848,582	\$52,349,442	\$60,036,357	\$67,725,840	\$75,401,448	\$80,838,034	\$82,823,511	\$84,143,861	N/A
3. Total of Beginning & Ending True-Up (Lines 1 + 2)	\$73,725,866	\$76,594,774	\$77,032,219	\$80,095,756	\$87,047,854	\$98,228,849	\$112,427,342	\$127,813,727	\$143,165,337	\$156,292,879	\$163,726,435	\$167,054,895	N/A
4. Average True-Up Amount (Line 3 x 1/2)	\$36,862,933	\$38,297,387	\$38,516,109	\$40,047,878	\$43,523,927	\$49,114,425	\$56,213,671	\$63,906,863	\$71,582,668	\$78,146,439	\$81,864,217	\$83,527,448	N/A
5. Interest Rate (First Day of Reporting Month)	0.72000%	0.74000%	0.64000%	0.94000%	0.86000%	0.95000%	1.08000%	1.12000%	1.06000%	1.14000%	1.14000%	1.25000%	N/A
6. Interest Rate (First Day of Subsequent Month)	0.74000%	0.64000%	0.94000%	0.86000%	0.95000%	1.08000%	1.12000%	1.06000%	0.73000%	1.14000%	1.25000%	1.58000%	N/A
7. Total of Beginning & Ending Interest Rates (Lines 5 + 6)	1.46000%	1.38000%	1.58000%	1.80000%	1.81000%	2.03000%	2.20000%	2.18000%	1.79000%	1.87000%	2.39000%	2.83000%	N/A
8. Average Interest Rate (Line 7 x 1/2)	0.73000%	0.69000%	0.79000%	0.90000%	0.90500%	1.01500%	1.10000%	1.09000%	0.89500%	0.93500%	1.19500%	1.41500%	N/A
9. Monthly Average Interest Rate (Line 8 x 1/12)	0.06083%	0.05750%	0.06583%	0.07500%	0.07542%	0.08458%	0.09167%	0.09083%	0.07458%	0.07792%	0.09958%	0.11792%	N/A
10. Interest Provision for the Month (Line 4 x Line 9)	\$22,425	\$22,021	\$25,356	\$30,036	\$32,824	\$41,543	\$51,529	\$58,049	\$53,396	\$60,889	\$61,523	\$68,493	\$578,084

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017  
 VARIANCE REPORT OF O&M ACTIVITIES

(1)	(2)	(3)	(4)	(5)
O&M Projects	ECRC - 2017 Final True-Up <sup>(a)</sup>	ECRC - 2017 Actual/Estimated <sup>(b)</sup>	Dif. ECRC - 2017 Actual/Estimated <sup>(c)</sup>	% Dif. ECRC - 2017 Actual/Estimated <sup>(d)</sup>
1 - Air Operating Permit Fees	\$382,458	\$342,223	\$40,235	11.8%
3a - Continuous Emission Monitoring Systems	\$419,613	\$419,642	(\$29)	(0.0%)
5a - Maintenance of Stationary Above Ground Fuel Storage Tanks	\$1,937,349	\$1,615,250	\$322,098	19.9%
8a - Oil Spill Clean-up/Response Equipment	\$262,890	\$249,543	\$13,347	5.3%
NA- Amortization of Gains on Sales of Emissions Allowances	(\$123,492)	(\$4,274)	(\$119,218)	2,789.1%
14 - NPDES Permit Fees	\$69,200	\$74,435	(\$5,235)	(7.0%)
17a - Disposal of Non-Containerized Liquid Waste	(\$13,821)	\$5,000	(\$18,821)	(376.4%)
19a - Substation Pollutant Discharge Prevention & Removal - Distribution	\$2,063,849	\$2,751,121	(\$687,272)	(25.0%)
19b - Substation Pollutant Discharge Prevention & Removal - Transmission	\$901,320	\$1,021,093	(\$119,773)	(11.7%)
21 - St. Lucie Turtle Nets	\$163,228	\$110,000	\$53,228	48.4%
22 - Pipeline Integrity Management	\$171,592	\$401,500	(\$229,908)	(57.3%)
23 - SPCC - Spill Prevention, Control & Countermeasures	\$831,037	\$920,034	(\$88,997)	(9.7%)
24 - Manatee Reburn	\$237,869	\$341,784	(\$103,915)	(30.4%)
27 - Lowest Quality Water Source	\$134,714	\$149,831	(\$15,116)	(10.1%)
28 - CWA 316(b) Phase II Rule	\$1,166,528	\$1,163,160	\$3,367	0.3%
29 - SCR Consumables	\$383,767	\$700,469	(\$316,702)	(45.2%)
31 - Clean Air Interstate Rule (CAIR) Compliance	\$4,220,907	\$4,121,591	\$99,316	2.4%
33 - MATS Project	\$1,835,382	\$2,050,981	(\$215,598)	(10.5%)
35 - Martin Plant Drinking Water System Compliance	\$39,316	\$50,000	(\$10,684)	(21.4%)
37 - DeSoto Next Generation Solar Energy Center	\$520,796	\$723,025	(\$202,229)	(28.0%)
38 - Space Coast Next Generation Solar Energy Center	\$200,413	\$249,245	(\$48,832)	(19.6%)
39 - Martin Next Generation Solar Energy Center	\$5,197,449	\$3,804,619	\$1,392,830	36.6%
41 - Manatee Temporary Heating System	\$2,004,557	\$2,375,922	(\$371,365)	(15.6%)
42 - Turkey Point Cooling Canal Monitoring Plan	\$11,150,044	\$37,649,926	(\$26,499,882)	(70.4%)
45 - 800 MW Unit ESP	\$631,002	\$746,628	(\$115,626)	(15.5%)
47 - NPDES Permit Renewal Requirements	\$189,569	\$122,677	\$66,892	54.5%
48 - Industrial Boiler MACT	\$76,538	\$38,000	\$38,538	101.4%
50 - Steam Electric Effluent Guidelines Revised Rules	\$363,379	\$164,576	\$198,803	120.8%
51 - Gopher Tortoise Relocations	\$19,514	\$39,000	(\$19,486)	(50.0%)
52 - Numeric Nutrient Criteria Water Quality Standards in Florida	\$4,368	\$4,368	\$0	(0.0%)
54 - Coal Combustion Residuals	\$0	\$9,600	(\$9,600)	(100.0%)
<b>Total</b>	<b>\$35,441,333</b>	<b>\$62,410,969</b>	<b>(\$26,969,636)</b>	<b>(43.21%)</b>

<sup>(a)</sup> The 12-Month Totals on Form 42-5A  
<sup>(b)</sup> The approved projected amount in accordance with FPSC Order No. PSC-2018-0014-FOF-EI  
<sup>(c)</sup> Column (2) - Column (3)  
<sup>(d)</sup> Column (4) / Column (3)

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017  
 VARIANCE REPORT OF O&M ACTIVITIES

(1)	(2)	(3)	(4)	(5)
	ECRC - 2017 Final True-Up	ECRC - 2017 Estimated/Actual Filing	Dif. ECRC - 2017 Estimated/Actual Filing	% Dif. ECRC - 2017 Estimated/Actual Filing
2. Total of O&M Activities	\$35,441,333	\$62,410,969	(\$26,969,636)	(43.2%)
3. Recoverable Costs Allocated to Energy	\$21,391,175	\$48,999,435	(\$27,608,260)	(56.3%)
4a. Recoverable Costs Allocated to CP Demand	\$11,986,309	\$10,660,413	\$1,325,896	12.4%
4b. Recoverable Costs Allocated to GCP Demand	\$2,063,849	\$2,751,121	(\$687,272)	(25.0%)
7. Jurisdictional Energy Recoverable Costs	\$20,298,454	\$46,496,407	(\$26,197,953)	(56.3%)
8a. Jurisdictional CP Demand Recoverable Costs	\$11,392,577	\$10,132,358	\$1,260,219	12.4%
8b. Jurisdictional GCP Demand Recoverable Costs	\$2,063,849	\$2,751,121	(\$687,272)	(25.0%)
9. Total Jurisdictional Recoverable Costs for O&M Activities	\$33,754,880	\$59,379,886	(\$25,625,006)	(43.2%)





FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017

(1)	(2)	(3)	(4)	(5)
Method of Classification	Total	Energy	CP Demand	GCP Demand
1 - Air Operating Permit Fees	\$382,458	\$382,458	\$0	\$0
3a - Continuous Emission Monitoring Systems	\$419,613	\$419,613	\$0	\$0
5a - Maintenance of Stationary Above Ground Fuel Storage Tanks	\$1,937,349	\$0	\$1,937,349	\$0
8a - Oil Spill Clean-up/Response Equipment	\$262,890	\$262,890	\$0	\$0
14 - NPDES Permit Fees	\$69,200	\$0	\$69,200	\$0
17a - Disposal of Non-Containerized Liquid Waste	(\$13,821)	(\$13,821)	\$0	\$0
19a - Substation Pollutant Discharge Prevention & Removal - Distribution	\$2,063,849	\$0	\$0	\$2,063,849
19b - Substation Pollutant Discharge Prevention & Removal - Transmission	\$901,320	\$0	\$901,320	\$0
21 - St. Lucie Turtle Nets	\$163,228	\$0	\$163,228	\$0
NA-Amortization of Gains on Sales of Emissions Allowances	(\$123,492)	(\$123,492)	\$0	\$0
22 - Pipeline Integrity Management	\$171,592	\$0	\$171,592	\$0
23 - SPCC - Spill Prevention, Control & Countermeasures	\$831,037	\$0	\$831,037	\$0
24 - Manatee Reburn	\$237,869	\$237,869	\$0	\$0
27 - Lowest Quality Water Source	\$134,714	\$0	\$134,714	\$0
28 - CWA 316(b) Phase II Rule	\$1,166,528	\$0	\$1,166,528	\$0
29 - SCR Consumables	\$383,767	\$383,767	\$0	\$0
31 - Clean Air Interstate Rule (CAIR) Compliance	\$4,220,907	\$4,220,907	\$0	\$0
33 - MATS Project	\$1,835,382	\$1,835,382	\$0	\$0
35 - Martin Plant Drinking Water System Compliance	\$39,316	\$0	\$39,316	\$0
37 - DeSoto Next Generation Solar Energy Center	\$520,796	\$0	\$520,796	\$0
38 - Space Coast Next Generation Solar Energy Center	\$200,413	\$0	\$200,413	\$0
39 - Martin Next Generation Solar Energy Center	\$5,197,449	\$0	\$5,197,449	\$0
41 - Manatee Temporary Heating System	\$2,004,557	\$2,004,557	\$0	\$0
42 - Turkey Point Cooling Canal Monitoring Plan	\$11,150,044	\$11,150,044	\$0	\$0
45 - 800 MW Unit ESP	\$631,002	\$631,002	\$0	\$0
47 - NPDES Permit Renewal Requirements	\$189,569	\$0	\$189,569	\$0
48 - Industrial Boiler MACT	\$76,538	\$0	\$76,538	\$0
50 - Steam Electric Effluent Guidelines Revised Rules	\$363,379	\$0	\$363,379	\$0
51 - Gopher Tortoise Relocations	\$19,514	\$0	\$19,514	\$0
52 - Numeric Nutrient Criteria Water Quality Standards in Florida	\$4,368	\$0	\$4,368	\$0
54 - Coal Combustion Residuals	\$0	\$0	\$0	N/A
Total of O&M Activities	\$35,441,333	\$21,391,175	\$11,986,309	\$2,063,849

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017  
 O&M ACTIVITIES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Jan -2017	Feb -2017	Mar -2017	Apr -2017	May -2017	Jun -2017	Jul -2017	Aug -2017	Sep -2017	Oct -2017	Nov -2017	Dec -2017	2017
2. Total of O&M Activities	\$1,894,445	\$2,661,684	\$2,462,337	\$2,639,706	\$2,795,955	\$3,404,349	\$3,631,607	\$3,451,170	\$2,376,579	\$3,466,681	\$3,374,508	\$3,280,313	\$35,441,333
3. Recoverable Costs Allocated to Energy	\$1,156,471	\$1,641,787	\$1,486,893	\$1,349,080	\$1,492,428	\$1,862,652	\$2,298,914	\$2,381,887	\$1,527,947	\$2,578,821	\$2,034,009	\$1,560,277	\$21,391,175
4a. Recoverable Costs Allocated to CP Demand	\$682,881	\$958,263	\$765,420	\$1,109,871	\$1,014,240	\$1,272,313	\$1,166,945	\$929,564	\$682,227	\$782,091	\$1,163,797	\$1,458,698	\$11,966,309
4b. Recoverable Costs Allocated to GCP Demand	\$55,094	\$61,635	\$210,024	\$180,754	\$289,287	\$269,384	\$165,748	\$136,709	\$168,405	\$105,769	\$176,703	\$241,338	\$2,063,849
5. Retail Energy Jurisdictional Factor	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%
6a. Retail CP Demand Jurisdictional Factor	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%
6b. Retail GCP Demand Jurisdictional	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%	100.00000%
7. Jurisdictional Energy Recoverable Costs <sup>(a)</sup>	\$1,097,395	\$1,557,920	\$1,410,938	\$1,280,165	\$1,416,191	\$1,767,502	\$2,181,479	\$2,261,223	\$1,449,895	\$2,447,087	\$1,930,106	\$1,499,552	\$20,298,454
8a. Jurisdictional CP Demand Recoverable Costs <sup>(b)</sup>	\$649,655	\$910,796	\$727,506	\$1,054,895	\$964,000	\$1,209,290	\$1,109,141	\$883,519	\$648,434	\$743,351	\$1,106,149	\$1,386,443	\$11,392,577
8b. Jurisdictional GCP Demand Recoverable Costs <sup>(c)</sup>	\$55,094	\$61,635	\$210,024	\$180,754	\$289,287	\$269,384	\$165,748	\$136,709	\$168,405	\$105,769	\$176,703	\$241,338	\$2,063,849
9. Total Jurisdictional Recoverable Costs for O&M Activities <sup>(d)</sup>	\$1,801,543	\$2,530,350	\$2,348,467	\$2,515,814	\$2,669,478	\$3,246,176	\$3,456,368	\$3,281,451	\$2,266,734	\$3,296,207	\$3,212,958	\$3,127,332	\$33,754,880

<sup>(a)</sup> Line 3 x 5  
<sup>(b)</sup> Line 4a x Line 6a  
<sup>(c)</sup> Line 4b x Line 6b  
<sup>(d)</sup> Line 7 + Line 8a + 8b

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017  
 VARIANCE REPORT OF CAPITAL INVESTMENT PROJECTS - RECOVERABLE COSTS

(1)	(2)	(3)	(4)	(5)
Capital Projects	ECRC - 2017 Final True-Up (a)	ECRC - 2017 Actual/Estimated Filing (b)	Dif. ECRC - 2017 Actual/Estimated Filing (c)	% Dif. ECRC - 2017 Actual/Estimated Filing (d)
2 - Low NOX Burner Technology	\$70,450	\$70,450	\$0	(0.0%)
3 - Continuous Emission Monitoring Systems	\$590,622	\$601,145	(\$10,524)	(1.8%)
5 - Maintenance of Stationary Above Ground Fuel Storage Tanks	\$1,816,788	\$1,791,982	\$24,806	1.4%
7 - Relocate Turbine Lube Oil Underground Piping to Above Ground	\$1,965	\$1,965	\$0	(0.0%)
8 - Oil Spill Clean-up/Response Equipment	\$183,044	\$176,138	\$6,906	3.9%
10 - Relocate Storm Water Runoff	\$7,496	\$7,496	\$0	(0.0%)
NA-Amortization of Gains on Sales of Emissions Allowances	(\$278)	(\$278)	\$0	(0.0%)
12 - Scherer Discharge Pipeline	\$40,814	\$40,814	\$0	(0.0%)
20 - Wastewater Discharge Elimination & Reuse	\$88,952	\$88,952	\$0	(0.0%)
21 - St. Lucie Turtle Nets	\$866,986	\$866,986	\$0	(0.0%)
22 - Pipeline Integrity Management	\$313,316	\$314,809	(\$1,493)	(0.5%)
23 - SPCC - Spill Prevention, Control & Countermeasures	\$2,216,938	\$2,291,013	(\$74,075)	(3.2%)
24 - Manatee Reburn	\$3,591,326	\$3,591,327	(\$1)	(0.0%)
26 - UST Remove/Replacement	\$7,888	\$7,888	\$0	(0.0%)
28 - CWA 316(b) Phase II Rule	\$49,632	\$72,282	(\$22,650)	(31.3%)
31 - Clean Air Interstate Rule (CAIR) Compliance	\$57,196,003	\$57,230,796	(\$34,793)	(0.1%)
33 - MATS Project	\$11,048,537	\$11,048,537	\$0	0.0%
34 - St Lucie Cooling Water System Inspection & Maintenance	\$410,206	\$408,341	\$1,865	0.5%
35 - Martin Plant Drinking Water System Compliance	\$23,796	\$23,796	\$0	(0.0%)
36 - Low-Level Radioactive Waste Storage	\$1,966,477	\$1,966,477	\$0	(0.0%)
37 - DeSoto Next Generation Solar Energy Center	\$14,988,059	\$14,987,903	\$157	0.0%
38 - Space Coast Next Generation Solar Energy Center	\$6,960,615	\$6,961,171	(\$556)	(0.0%)
39 - Martin Next Generation Solar Energy Center	\$41,764,837	\$41,784,040	(\$19,203)	(0.0%)
41 - Manatee Temporary Heating System	\$38,309	\$36,320	\$1,989	5.5%
42 - Turkey Point Cooling Canal Monitoring Plan	\$3,042,331	\$3,538,078	(\$495,747)	(14.0%)
44 - Martin Plant Barber Swamp Iron Mitigation	\$17,363	\$17,363	\$0	(0.0%)
45 - 800 MW Unit ESP	\$27,680,644	\$27,680,544	\$100	0.0%
54 - Coal Combustion Residuals	\$694,299	\$937,265	(\$242,966)	(25.9%)
Total	\$175,677,417	\$176,543,602	\$866,185	(0.5%)

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

	JANUARY 2017 THROUGH DECEMBER 2017				
	VARIANCE REPORT OF CAPITAL INVESTMENT PROJECTS - RECOVERABLE COSTS				
(1)	(2)	(3)	(4)	(5)	
	ECRC - 2017 Final True-Up	ECRC - 2017 Actual/Estimated Filing	Dif. ECRC - 2017 Actual/Estimated Filing	% Dif. ECRC - 2017 Actual/Estimated Filing	
2. Total Investment Projects - Recoverable Costs	\$175,677,417	\$176,543,602	(\$866,185)	(0.49%)	
3. Recoverable Costs Allocated to Energy	\$15,304,248	\$15,384,417	(\$80,170)	(0.52%)	
4. Recoverable Costs Allocated to Demand	\$160,373,169	\$161,159,185	(\$786,016)	(0.49%)	
7. Jurisdictional Energy Recoverable Costs	\$14,522,464	\$14,598,538	(\$76,074)	(0.52%)	
8. Jurisdictional Demand Recoverable Costs	\$152,429,213	\$153,176,294	(\$747,081)	(0.49%)	
9. Total Jurisdictional Recoverable Costs for Investment Projects	<u>\$166,951,676</u>	<u>\$167,774,832</u>	<u>(\$823,156)</u>	<u>(0.49%)</u>	

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CLAUSE  
CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017  
CAPITAL INVESTMENT PROJECTS-RECOVERABLE COSTS

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Capital Investment Projects	Jan - 2017	Feb - 2017	Mar - 2017	Apr - 2017	May - 2017	Jun - 2017	Jul - 2017	Aug - 2017	Sep - 2017	Oct - 2017	Nov - 2017	Dec - 2017	Twelve Month Amount
2 - Low NOx Burner Technology	\$6,006	\$5,982	\$5,598	\$5,934	\$5,910	\$5,885	\$5,866	\$5,852	\$5,838	\$5,784	\$5,760	\$5,736	\$70,450
3 - Continuous Emission Monitoring Systems	\$46,320	\$47,770	\$47,340	\$47,202	\$47,202	\$47,339	\$48,724	\$48,724	\$52,825	\$52,918	\$51,976	\$51,976	\$509,622
5 - Maintenance of Stationary Above Ground Fuel Storage Tanks	\$151,710	\$151,311	\$150,882	\$150,463	\$150,049	\$149,676	\$149,282	\$148,770	\$151,322	\$153,688	\$154,241	\$154,094	\$1,916,788
7 - Relocate Turbine Lube Oil Underground Piping to Above Ground	\$169	\$168	\$167	\$166	\$165	\$164	\$163	\$162	\$161	\$160	\$159	\$158	\$1,965
8 - Oil Spill Clean-up/Response Equipment	\$15,281	\$15,699	\$15,690	\$15,787	\$15,694	\$15,286	\$15,027	\$15,014	\$14,943	\$14,889	\$14,819	\$15,015	\$183,044
10 - Recycle Storm Water Runoff	\$634	\$633	\$631	\$629	\$628	\$626	\$623	\$622	\$620	\$618	\$617	\$615	\$7,486
10 - Amortization of Gains on Sales of Emissions Allowances													
12 - Sewer Discharge Pipeline	\$3,457	\$3,447	\$3,437	\$3,428	\$3,418	\$3,408	\$3,394	\$3,384	\$3,375	\$3,365	\$3,355	\$3,345	\$40,814
20 - Wastewater Discharge Elimination & Reuse	\$7,441	\$7,519	\$7,698	\$7,474	\$7,451	\$7,428	\$7,397	\$7,374	\$7,352	\$7,329	\$7,307	\$7,284	\$88,952
21 - St. Lucie Turbine Nets	\$72,653	\$72,753	\$72,654	\$72,554	\$72,455	\$72,355	\$72,142	\$72,043	\$71,843	\$71,844	\$71,745	\$71,645	\$866,886
22 - Pipeline Integrity Management	\$26,397	\$26,348	\$26,299	\$26,251	\$26,202	\$26,153	\$26,066	\$26,017	\$25,969	\$25,920	\$25,871	\$25,822	\$313,316
23 - SPOC - Spill Prevention, Control & Countermeasures	\$186,272	\$185,889	\$185,115	\$184,814	\$184,766	\$184,484	\$184,884	\$184,481	\$183,763	\$183,332	\$182,965	\$184,493	\$2,216,938
24 - Manhole Return	\$394,786	\$393,814	\$392,442	\$391,871	\$390,899	\$389,927	\$388,823	\$387,653	\$386,883	\$385,713	\$384,743	\$383,772	\$3,691,326
26 - UST Removal/Replacement	\$664	\$663	\$662	\$661	\$659	\$656	\$656	\$655	\$654	\$653	\$652	\$651	\$7,866
28 - CWA 316(b) Phase II Rule	\$2,680	\$2,743	\$2,772	\$2,807	\$2,802	\$2,816	\$2,837	\$2,878	\$2,934	\$2,984	\$3,029	\$3,074	\$49,632
31 - Clean Air Initiative Rule (CAIR) Compliance	\$4,827,639	\$4,817,689	\$4,807,271	\$4,797,458	\$4,787,294	\$4,777,289	\$4,766,615	\$4,755,471	\$4,743,471	\$4,731,447	\$4,719,393	\$4,707,345	\$57,196,003
33 - MATS Project	\$931,825	\$930,002	\$928,081	\$926,158	\$924,235	\$922,313	\$919,101	\$915,263	\$911,426	\$907,589	\$903,752	\$900,000	\$11,048,537
34 - St. Lucie Cooling Water System Inspection & Maintenance	\$33,939	\$33,969	\$33,988	\$34,046	\$34,089	\$34,140	\$34,192	\$34,242	\$34,330	\$34,400	\$34,439	\$34,461	\$410,206
35 - Martin Plant Drinking Water System Compliance	\$2,005	\$2,001	\$1,998	\$1,994	\$1,990	\$1,986	\$1,980	\$1,976	\$1,972	\$1,968	\$1,964	\$1,961	\$23,796
36 - Low Level Radioactive Waste Storage	\$165,679	\$165,372	\$165,065	\$164,759	\$164,452	\$164,145	\$163,838	\$163,530	\$163,222	\$162,914	\$162,606	\$162,298	\$1,966,477
37 - DeSoto Next Generation Solar Energy Center	\$1,268,856	\$1,264,822	\$1,261,055	\$1,257,118	\$1,253,272	\$1,249,551	\$1,246,072	\$1,242,338	\$1,238,852	\$1,235,101	\$1,231,101	\$1,227,291	\$14,888,059
38 - Space Coast Next Generation Solar Energy Center	\$393,137	\$391,465	\$389,749	\$388,033	\$386,142	\$384,252	\$382,142	\$380,252	\$378,141	\$376,141	\$374,141	\$372,141	\$6,960,615
39 - Martin Next Generation Solar Energy Center	\$3,511,653	\$3,508,697	\$3,504,173	\$3,498,369	\$3,490,284	\$3,481,643	\$3,472,949	\$3,464,457	\$3,456,022	\$3,447,686	\$3,439,466	\$3,431,333	\$41,764,837
41 - Manatee Temporary Heating System	\$2,121	\$2,115	\$2,112	\$2,113	\$2,112	\$2,112	\$2,112	\$2,112	\$2,112	\$2,112	\$2,112	\$2,112	\$38,309
42 - Turkey Point Cooling Canal Monitoring Plan	\$225,721	\$224,186	\$223,047	\$224,984	\$227,754	\$229,298	\$234,184	\$231,870	\$232,188	\$229,766	\$238,754	\$310,579	\$3,042,331
44 - Martin Plant Bally Barber Swamp Iron Mitigation	\$1,463	\$1,460	\$1,457	\$1,455	\$1,452	\$1,449	\$1,445	\$1,442	\$1,439	\$1,437	\$1,434	\$1,431	\$17,363
45 - 800 MW Unit ESP	\$2,342,719	\$2,336,526	\$2,330,211	\$2,324,018	\$2,317,787	\$2,311,375	\$2,302,171	\$2,296,821	\$2,289,471	\$2,283,121	\$2,276,772	\$2,270,653	\$27,680,644
54 - Coal Combustion Residuals	\$38,415	\$38,126	\$37,837	\$37,548	\$37,259	\$36,970	\$36,681	\$36,392	\$36,103	\$35,814	\$35,525	\$35,236	\$430,290
Total	\$14,795,485	\$14,732,097	\$14,709,609	\$14,685,685	\$14,661,798	\$14,638,284	\$14,614,156	\$14,589,614	\$14,564,678	\$14,539,308	\$14,514,040	\$14,488,838	\$175,677,417

Each project's Total Recoverable Costs on Form 42-3A, Line 9.

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017  
 CAPITAL INVESTMENT PROJECTS-RECOVERABLE COSTS

(1)	(2)	(3)	(4)
Method of Classification	Total	CP Demand	Energy
2 - Low NOX Burner Technology	\$70,450	\$0	\$70,450
3 - Continuous Emission Monitoring Systems	\$590,622	\$0	\$590,622
5 - Maintenance of Stationary Above Ground Fuel Storage Tanks	\$1,816,788	\$1,677,035	\$139,753
7 - Relocate Turbine Lube Oil Underground Piping to Above Ground	\$1,965	\$1,814	\$151
8 - Oil Spill Clean-up/Response Equipment	\$183,044	\$168,964	\$14,080
10 - Relocate Storm Water Runoff	\$7,496	\$6,920	\$577
NA-Amortization of Gains on Sales of Emissions Allowances	(\$278)	\$0	(\$278)
12 - Scherer Discharge Pipeline	\$40,814	\$37,675	\$3,140
20 - Wastewater Discharge Elimination & Reuse	\$68,952	\$82,110	\$6,842
21 - St. Lucie Turtle Nets	\$866,986	\$800,295	\$66,691
22 - Pipeline Integrity Management	\$313,316	\$289,215	\$24,101
23 - SPCC - Spill Prevention, Control & Countermeasures	\$2,216,938	\$2,046,404	\$170,534
24 - Manatee Reburn	\$3,591,326	\$0	\$3,591,326
25 - Pt. Everglades ESP Technology	\$0	\$0	\$0
26 - UST Remove/Replacement	\$7,888	\$7,281	\$607
28 - CWA 316(b) Phase II Rule	\$49,632	\$49,632	\$0
31 - Clean Air Interstate Rule (CAIR) Compliance	\$57,196,003	\$52,796,310	\$4,399,693
33 - MATS Project	\$11,048,537	\$10,198,649	\$849,887
34 - St Lucie Cooling Water System Inspection & Maintenance	\$410,206	\$378,652	\$31,554
35 - Martin Plant Drinking Water System Compliance	\$23,796	\$21,965	\$1,830
36 - Low-Level Radioactive Waste Storage	\$1,966,477	\$1,815,209	\$151,267
37 - DeSoto Next Generation Solar Energy Center	\$14,988,059	\$13,835,132	\$1,152,928
38 - Space Coast Next Generation Solar Energy Center	\$6,960,615	\$6,425,183	\$535,432
39 - Martin Next Generation Solar Energy Center	\$41,764,837	\$38,552,157	\$3,212,680
41 - Manatee Temporary Heating System	\$38,309	\$35,362	\$2,947
42 - Turkey Point Cooling Canal Monitoring Plan	\$3,042,331	\$2,808,306	\$234,025
44 - Martin Plant Barber Swamp Iron Mitigation	\$17,363	\$17,363	\$0
45 - 800 MW Unit ESP	\$27,680,644	\$27,680,644	\$0
54 - Coal Combustion Residuals	\$694,299	\$640,891	\$53,408
<b>Total</b>	<b>\$175,677,417</b>	<b>\$160,373,169</b>	<b>\$15,304,248</b>

Each project's Total System Recoverable Costs on Form 42-8A, Line 9.

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 CALCULATION OF THE FINAL TRUE-UP AMOUNT FOR THE PERIOD

JANUARY 2017 THROUGH DECEMBER 2017 CAPITAL INVESTMENT PROJECTS-RECOVERABLE COSTS													
	Jan - 2017	Feb - 2017	Mar - 2017	Apr - 2017	May - 2017	Jun - 2017	Jul - 2017	Aug - 2017	Sep - 2017	Oct - 2017	Nov - 2017	Dec - 2017	Twelve Month Amount
2. Total Investment Projects - Recoverable Costs	14,755,485	14,733,097	14,706,609	14,683,685	14,657,789	14,633,264	14,607,156	14,584,814	14,568,099	14,566,730	14,569,438	14,609,440	175,877,417
3. Recoverable Costs Allocated to Energy	1,283,612	1,281,949	1,280,417	1,278,214	1,275,638	1,273,434	1,272,188	1,272,233	1,272,017	1,271,477	1,270,286	1,272,782	15,304,248
4. Recoverable Costs Allocated to Demand	13,471,873	13,451,148	13,426,191	13,405,471	13,382,161	13,359,830	13,334,968	13,312,381	13,296,082	13,285,254	13,291,152	13,336,658	160,373,169
5. Retail Energy Jurisdictional Factor	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%
6. Retail Demand Jurisdictional Factor	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%
7. Jurisdictional Energy Recoverable Costs <sup>(a)</sup>	1,218,042	1,216,464	1,215,010	1,212,919	1,210,475	1,208,384	1,207,201	1,207,244	1,207,039	1,206,526	1,205,397	1,207,765	14,522,464
8. Jurisdictional Demand Recoverable Costs <sup>(a)</sup>	12,804,555	12,784,856	12,765,037	12,741,441	12,719,286	12,698,062	12,674,431	12,652,963	12,637,471	12,636,684	12,640,389	12,676,037	152,429,213
9. Total Jurisdictional Recoverable Costs for Investment Projects	14,022,596	14,001,320	13,978,047	13,954,361	13,929,761	13,906,445	13,881,632	13,860,207	13,844,510	13,843,210	13,845,766	13,883,802	166,351,676

<sup>(a)</sup> Line 3 x Line 5  
<sup>(b)</sup> Line 4 x Line 6

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>2. Plant-in Service/Depreciation Base<sup>(a)</sup></b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3a. Less: Accumulated Depreciation	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)
3b. Less: Capital Recovery Unamortized Balance	(\$375,828)	(\$372,696)	(\$369,564)	(\$366,432)	(\$363,300)	(\$360,168)	(\$357,036)	(\$353,904)	(\$350,772)	(\$347,640)	(\$344,509)	(\$341,377)	(\$338,245)	
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$375,828	\$372,696	\$369,564	\$366,432	\$363,300	\$360,168	\$357,036	\$353,905	\$350,773	\$347,641	\$344,509	\$341,377	\$338,245	
<b>6. Average Net Investment</b>		\$374,262	\$371,130	\$367,998	\$364,866	\$361,734	\$358,602	\$355,471	\$352,339	\$349,207	\$346,075	\$342,943	\$339,811	
<b>7. Return on Average Net Investment</b>		\$2,438	\$2,417	\$2,397	\$2,376	\$2,356	\$2,336	\$2,327	\$2,306	\$2,286	\$2,265	\$2,245	\$2,224	\$27,974
a. Equity Component grossed up for taxes <sup>(b)(g)</sup>		\$436	\$432	\$429	\$425	\$422	\$418	\$397	\$394	\$390	\$387	\$383	\$380	\$4,694
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(h)(i)</sup>														
<b>8. Investment Expenses</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
a. Depreciation <sup>(c)</sup>		\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$3,132	\$37,683
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(f)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>9. Total System Recoverable Costs (Lines 7 &amp; 8)</b>		\$6,006	\$5,982	\$5,958	\$5,934	\$5,910	\$5,885	\$5,856	\$5,832	\$5,808	\$5,784	\$5,760	\$5,736	\$70,450

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3984% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(f)</sup> Dismantlement only applies to solar projects - DeSoto (37), NASA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment: See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance:  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 6.430% reflects a 10.55% return on equity and the monthly Equity Component: For the Jan. - Jun. 2017 actual period return of 1.786% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.



FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>03 - Continuous Emission Monitoring Systems</b>														
1. Investments														
a. Expenditures/Adds	\$0	\$0	\$187,673	\$79,766	\$13,487	\$947	\$84,080	(\$68,641)	(\$122,280)	\$136,306	(\$16,709)	(\$225,388)	(\$113,075)	(\$43,835)
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255,503	\$329,123	\$1,591	(\$269,211)	(\$350,989)	\$165,992	\$132,009
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$36,022)	(\$5,722)	\$0	(\$362,458)	(\$620,363)	(\$16,367)	(\$1,040,932)
d. Other	\$0	\$0	(\$4,056)	(\$1,720)	(\$290)	(\$21)	(\$1,764)	(\$4,852)	(\$4,759)	(\$2,866)	(\$1,546)	(\$883)	(\$1,542)	(\$24,300)
2. Plant-in Service/Depreciation Base <sup>(a)</sup>	\$5,690,778	\$5,690,778	\$5,690,778	\$5,690,778	\$5,690,778	\$5,690,778	\$5,690,778	\$5,946,280	\$6,275,404	\$6,276,995	\$6,007,784	\$5,656,795	\$5,822,787	
3a. Less: Accumulated Depreciation	\$3,576,307	\$3,597,587	\$3,614,817	\$3,634,380	\$3,655,372	\$3,676,635	\$3,696,154	\$3,689,156	\$3,679,428	\$3,709,428	\$3,688,023	\$2,768,164	\$2,771,277	
3b. Less: Capital Recovery Unamortized Balance	(\$500,741)	(\$496,568)	(\$492,395)	(\$488,222)	(\$484,050)	(\$479,877)	(\$475,704)	(\$471,531)	(\$467,358)	(\$463,185)	(\$459,013)	(\$454,840)	(\$450,667)	
4. CWIP - Non Interest Bearing	\$43,835	\$43,835	\$231,508	\$311,274	\$324,761	\$325,708	\$409,788	\$341,147	\$218,867	\$355,173	\$338,463	\$113,075	\$0	
5. Net Investment (Lines 2 - 3 + 4)	\$2,659,047	\$2,633,594	\$2,799,864	\$2,855,894	\$2,844,215	\$2,819,728	\$2,880,115	\$3,081,962	\$3,272,472	\$3,385,925	\$3,437,237	\$3,456,545	\$3,502,177	
6. Average Net Investment		\$2,646,320	\$2,716,729	\$2,827,879	\$2,850,055	\$2,831,972	\$2,849,921	\$2,981,039	\$3,177,217	\$3,329,199	\$3,411,581	\$3,446,891	\$3,479,361	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(g)</sup>		\$17,236	\$17,695	\$18,419	\$18,563	\$18,446	\$18,562	\$19,514	\$20,798	\$21,793	\$22,332	\$22,563	\$22,776	\$238,698
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(h)(i)</sup>		\$3,084	\$3,166	\$3,295	\$3,321	\$3,300	\$3,321	\$3,332	\$3,551	\$3,721	\$3,813	\$3,853	\$3,889	\$41,648
8. Investment Expenses														
a. Depreciation <sup>(j)</sup>		\$21,280	\$21,286	\$21,283	\$21,283	\$21,283	\$21,283	\$21,715	\$22,641	\$23,137	\$22,600	\$21,387	\$21,022	\$280,201
b. Amortization <sup>(k)</sup>		\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$50,074
c. Dismantlement <sup>(l)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$45,773	\$46,320	\$47,170	\$47,340	\$47,202	\$47,339	\$48,734	\$51,164	\$52,825	\$52,918	\$51,976	\$51,860	\$590,622

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3984% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(f)</sup> Dismantlement only applies to solar projects - DeSoto (37), NASA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 6.430% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 6.557% reflects a 10.55% return on equity.  
 Debt Component: For the Jan. - Jun. 2017 actual period return of 1.786% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$1,103	\$10,844	\$121,616	(\$133,563)	\$477,768	\$249,308	\$4,662	\$64,230	\$795,968
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$133,572	\$0	\$0	\$0	\$0	\$133,572
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$23)	(\$28)	\$0	(\$51)
<b>2. Plant-in Service/Depreciation Base<sup>(a)</sup></b>	\$13,393,764	\$13,393,764	\$13,393,764	\$13,393,764	\$13,393,764	\$13,393,764	\$13,393,764	\$13,393,764	\$13,527,336	\$13,527,336	\$13,527,336	\$13,527,336	\$13,527,336	\$135,273,336
3a. Less: Accumulated Depreciation	\$3,867,188	\$3,885,415	\$3,923,662	\$3,951,900	\$3,980,137	\$4,008,374	\$4,036,612	\$4,064,849	\$4,093,226	\$4,121,744	\$4,150,239	\$4,178,729	\$4,207,256	\$42,072,556
3b. Less: Capital Recovery Unamortized Balance	(\$3,156,456)	(\$3,130,152)	(\$3,103,849)	(\$3,077,545)	(\$3,051,241)	(\$3,024,937)	(\$2,998,633)	(\$2,972,330)	(\$2,946,026)	(\$2,919,722)	(\$2,893,418)	(\$2,867,114)	(\$2,840,811)	(\$28,408,811)
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$1,103	\$11,947	\$133,563	\$0	\$477,768	\$727,076	\$731,738	\$795,968	\$795,968
5. Net Investment (Lines 2 - 3 + 4)	\$12,683,032	\$12,628,501	\$12,573,950	\$12,519,409	\$12,464,868	\$12,411,430	\$12,357,733	\$12,304,038	\$12,250,308	\$12,196,612	\$12,142,917	\$12,089,221	\$12,035,525	\$120,356,858
6. Average Net Investment		\$12,655,766	\$12,601,225	\$12,546,679	\$12,492,138	\$12,438,149	\$12,383,581	\$12,401,270	\$12,407,471	\$12,591,608	\$12,900,336	\$12,972,525	\$12,952,159	
<b>7. Return on Average Net Investment</b>														
a. Equity Component grossed up for taxes <sup>(b)(g)</sup>		\$82,431	\$82,076	\$81,720	\$81,365	\$81,014	\$80,697	\$81,179	\$81,220	\$82,425	\$84,446	\$84,919	\$84,785	\$988,277
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(h)(i)</sup>		\$14,748	\$14,684	\$14,621	\$14,557	\$14,494	\$14,438	\$13,862	\$13,869	\$14,075	\$14,420	\$14,501	\$14,478	\$172,746
<b>8. Investment Expenses</b>														
a. Depreciation <sup>(j)</sup>		\$28,228	\$28,247	\$28,237	\$28,237	\$28,237	\$28,237	\$28,237	\$28,378	\$28,518	\$28,518	\$28,518	\$28,527	\$340,120
b. Amortization <sup>(k)</sup>		\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$26,304	\$315,646
c. Dismantlement <sup>(l)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>9. Total System Recoverable Costs (Lines 7 &amp; 8)</b>		\$151,710	\$151,311	\$150,882	\$150,463	\$150,049	\$149,676	\$149,582	\$149,770	\$151,322	\$153,688	\$154,241	\$154,094	\$1,816,788

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3984% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(f)</sup> Dismantlement only applies to Solar projects - DeSoto (37), NASA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 6.430% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 6.557% reflects a 10.55% return on equity.  
 Debt Component: For the Jan. - Jun. 2017 actual period return of 1.786% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>07 - Relocate Turbine Lube Oil Underground Piping to Above Ground</b>														
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>2. Plant-in-Service/Depreciation Base<sup>(1)</sup></b>	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030	\$31,030
3a. Less: Accumulated Depreciation	\$26,112	\$26,244	\$26,376	\$26,508	\$26,640	\$26,772	\$26,905	\$27,037	\$27,169	\$27,301	\$27,433	\$27,565	\$27,697	\$27,829
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$4,918	\$4,786	\$4,654	\$4,522	\$4,390	\$4,258	\$4,125	\$3,993	\$3,861	\$3,729	\$3,597	\$3,465	\$3,333	\$3,201
6. Average Net Investment	\$4,852	\$4,720	\$4,588	\$4,456	\$4,324	\$4,191	\$4,059	\$3,927	\$3,795	\$3,663	\$3,531	\$3,399	\$3,267	\$3,135
<b>7. Return on Average Net Investment</b>														
a. Equity Component grossed up for taxes <sup>(1)(a)</sup>	\$32	\$31	\$30	\$29	\$28	\$27	\$27	\$27	\$26	\$25	\$24	\$23	\$22	\$23
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(1)(a)</sup>	\$6	\$6	\$5	\$5	\$5	\$5	\$5	\$5	\$4	\$4	\$4	\$4	\$4	\$7
<b>8. Investment Expenses</b>														
a. Depreciation <sup>(2)</sup>	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$132	\$1,586
b. Amortization <sup>(3)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(4)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$168	\$168	\$167	\$166	\$165	\$164	\$163	\$162	\$161	\$160	\$159	\$158	\$158	\$1,965

<sup>(1)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(2)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(3)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(4)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(5)</sup> Dismantlement only applies to Solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(6)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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08 - Oil Spill Clean-up/Response Equipment	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$1,051	\$16,400	\$20,858	\$11,485	\$2,831	(\$13,432)	\$0	\$0	\$0	\$181	\$0	(\$1)	\$39,382
b. Clearings to Plant	\$0	\$2,154	\$0	\$2,638	\$2,518	\$0	(\$36,031)	\$5,984	(\$1,254)	\$0	\$0	(\$2,743)	\$14,850	(\$11,883)
c. Retirements	\$0	\$2,154	\$0	(\$5,007)	\$0	\$0	(\$40,930)	\$0	(\$1,254)	\$0	\$0	(\$2,743)	(\$31,522)	(\$79,302)
d. Other	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$948,127	\$951,281	\$851,281	\$953,919	\$856,438	\$956,438	\$820,407	\$926,391	\$925,137	\$925,137	\$925,137	\$922,395	\$897,244	
3a. Less: Accumulated Depreciation	\$26,051	\$37,376	\$44,864	\$47,300	\$54,745	\$62,205	\$68,520	\$65,586	\$71,417	\$76,484	\$85,551	\$88,859	\$85,459	
3b. Less: Capital Recovery Unamortized Balance	\$220	\$218	\$216	\$214	\$212	\$211	\$209	\$207	\$205	\$203	\$201	\$200	\$198	
4. CWIP - Non Interest Bearing	\$138,662	\$138,713	\$158,113	\$176,971	\$188,485	\$191,296	\$177,864	\$177,864	\$177,864	\$178,045	\$178,045	\$178,045	\$178,044	
5. Net Investment (Lines 2 - 3 + 4)	\$1,059,518	\$1,055,401	\$1,062,325	\$1,083,375	\$1,089,946	\$1,095,318	\$1,039,542	\$1,038,462	\$1,031,379	\$1,024,314	\$1,017,430	\$1,010,381	\$1,048,631	
6. Average Net Investment		\$1,056,459	\$1,057,863	\$1,072,850	\$1,086,661	\$1,072,632	\$1,047,430	\$1,039,002	\$1,034,921	\$1,027,847	\$1,020,872	\$1,013,905	\$1,030,006	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(1)</sup>		\$6,881	\$6,890	\$6,988	\$7,078	\$6,986	\$6,922	\$6,801	\$6,775	\$6,728	\$6,683	\$6,637	\$6,742	\$82,012
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(2)</sup>		\$1,231	\$1,233	\$1,250	\$1,266	\$1,250	\$1,221	\$1,161	\$1,157	\$1,149	\$1,141	\$1,133	\$1,151	\$14,344
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$7,170	\$7,478	\$7,454	\$7,445	\$7,460	\$7,245	\$7,066	\$7,085	\$7,067	\$7,067	\$7,051	\$7,123	\$86,710
b. Amortization <sup>(d)</sup>		(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$22)
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$15,281	\$15,599	\$15,690	\$15,787	\$15,694	\$15,286	\$15,027	\$15,014	\$14,943	\$14,889	\$14,819	\$15,015	\$183,044

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0590-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0590-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0590-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to Solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC. Balance.

Equity Component. Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

Debt Component. For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0590-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-In-Service/Depreciation Base <sup>(a)</sup>	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794	\$117,794
3a. Less: Accumulated Depreciation	\$63,827	\$64,048	\$64,269	\$64,490	\$64,711	\$64,932	\$65,152	\$65,373	\$65,594	\$65,815	\$66,036	\$66,257	\$66,478	\$66,478
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$53,967	\$53,746	\$53,525	\$53,304	\$53,083	\$52,862	\$52,641	\$52,421	\$52,200	\$51,979	\$51,758	\$51,537	\$51,316	\$51,316
5. Net Investment (Lines 2 - 3 + 4)	\$53,856	\$53,635	\$53,414	\$53,194	\$52,973	\$52,752	\$52,531	\$52,310	\$52,089	\$51,868	\$51,648	\$51,427	\$51,206	\$51,206
6. Average Net Investment														
7. Return on Average Net Investment														
a. Equity Component grossed-up for taxes <sup>(b)(1)</sup>	\$551	\$349	\$348	\$346	\$345	\$344	\$344	\$344	\$342	\$341	\$340	\$338	\$337	\$4,125
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(2)</sup>	\$63	\$63	\$62	\$62	\$62	\$61	\$59	\$59	\$58	\$58	\$58	\$58	\$57	\$721
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$221	\$2,650
b. Amortization <sup>(d)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$634	\$633	\$631	\$629	\$628	\$626	\$623	\$622	\$620	\$618	\$617	\$615	\$615	\$7,496

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324	\$854,324
3a. Less: Accumulated Depreciation	\$569,216	\$570,488	\$571,761	\$573,033	\$574,306	\$575,579	\$576,851	\$578,124	\$579,396	\$580,669	\$581,942	\$583,214	\$584,487	\$584,487
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$285,108	\$285,835	\$282,563	\$281,290	\$280,018	\$278,745	\$277,472	\$276,200	\$274,927	\$273,655	\$272,382	\$271,109	\$269,837	\$269,837
5. Net Investment (Lines 2 - 3 + 4)	\$285,108	\$284,472	\$283,199	\$281,927	\$280,654	\$279,381	\$278,109	\$276,836	\$275,564	\$274,291	\$273,018	\$271,746	\$270,473	\$270,473
6. Average Net Investment														
a. Return on Average Net Investment		\$1,853	\$1,846	\$1,836	\$1,826	\$1,820	\$1,811	\$1,812	\$1,804	\$1,796	\$1,787	\$1,779	\$1,771	\$21,741
b. Equity Component grossed up for taxes <sup>(b)(1)</sup>		\$531	\$330	\$329	\$327	\$326	\$324	\$309	\$308	\$307	\$305	\$304	\$302	\$3,802
c. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(2)</sup>														
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$15,271
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$5,457	\$5,447	\$5,437	\$5,428	\$5,418	\$5,408	\$5,394	\$5,384	\$5,375	\$5,365	\$5,355	\$5,345	\$40,814

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to Solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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20 - Wastewater Discharge Elimination & Reuse	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577	\$771,577
3a. Less: Accumulated Depreciation	\$172,106	\$175,056	\$178,005	\$180,955	\$183,905	\$186,855	\$189,804	\$192,754	\$195,704	\$198,653	\$201,603	\$204,553	\$207,503	\$207,503
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$599,471	\$596,521	\$593,571	\$590,622	\$587,672	\$584,722	\$581,772	\$578,823	\$575,873	\$572,923	\$569,974	\$567,024	\$564,074	\$564,074
6. Average Net Investment	\$597,996	\$595,046	\$592,096	\$589,147	\$586,197	\$583,247	\$580,298	\$577,348	\$574,398	\$571,448	\$568,499	\$565,549	\$562,599	\$562,599
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(a)</sup>	\$3,895	\$3,876	\$3,857	\$3,837	\$3,818	\$3,799	\$3,779	\$3,760	\$3,741	\$3,721	\$3,702	\$3,683	\$3,664	\$3,664
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(c)(a)</sup>	\$697	\$693	\$690	\$687	\$683	\$680	\$676	\$672	\$669	\$665	\$662	\$659	\$656	\$656
8. Investment Expenses														
a. Depreciation <sup>(d)</sup>	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$2,950	\$35,397
b. Amortization <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Disarmament <sup>(f)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$7,541	\$7,519	\$7,496	\$7,474	\$7,451	\$7,428	\$7,405	\$7,382	\$7,359	\$7,336	\$7,313	\$7,290	\$7,267	\$7,267

<sup>(a)</sup> Applicable beginning of period or end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.  
<sup>(b)</sup> The gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3984% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(f)</sup> Disarmament only applies to solar projects - Dabco (37), NUSA (38) & Mirim (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component L: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.  
 □ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.798% and for the Jul. - Dec. 2017 actual period return of 1.719% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559	\$6,909,559
3a. Less: Accumulated Depreciation	(\$897,472)	(\$864,516)	(\$871,561)	(\$858,605)	(\$845,650)	(\$832,695)	(\$819,739)	(\$806,784)	(\$793,828)	(\$780,873)	(\$767,917)	(\$754,962)	(\$742,007)	
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$7,807,030	\$7,794,075	\$7,781,119	\$7,768,164	\$7,755,209	\$7,742,253	\$7,729,298	\$7,716,342	\$7,703,387	\$7,690,431	\$7,677,476	\$7,664,521	\$7,651,565	
5. Net Investment (Lines 2 - 3 + 4)	\$7,909,587	\$7,929,564	\$7,949,541	\$7,969,518	\$7,989,495	\$7,999,472	\$8,009,449	\$8,019,426	\$8,029,403	\$8,039,380	\$8,049,357	\$8,059,334	\$8,069,311	
6. Average Net Investment	\$7,909,587	\$7,929,564	\$7,949,541	\$7,969,518	\$7,989,495	\$7,999,472	\$8,009,449	\$8,019,426	\$8,029,403	\$8,039,380	\$8,049,357	\$8,059,334	\$8,069,311	
<b>7. Return on Average Net Investment</b>														
a. Equity Component grossed up for taxes <sup>(b)(10)</sup>	\$50,807	\$50,723	\$50,639	\$50,554	\$50,470	\$50,385	\$50,300	\$50,215	\$50,130	\$50,046	\$49,961	\$49,877	\$49,792	\$605,630
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(c)(10)</sup>	\$9,090	\$9,075	\$9,060	\$9,045	\$9,030	\$9,014	\$8,999	\$8,984	\$8,969	\$8,954	\$8,939	\$8,924	\$8,909	\$105,892
<b>8. Investment Expenses</b>														
a. Depreciation <sup>(d)</sup>	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$12,955	\$155,465
b. Amortization <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(f)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$72,902	\$72,753	\$72,654	\$72,554	\$72,455	\$72,355	\$72,255	\$72,155	\$72,055	\$71,955	\$71,855	\$71,755	\$71,655	\$866,986

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 42-45.

<sup>(b)</sup> The gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0590-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0590-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on the May 2017 ROR Surveillance Report and reflects a 1.3413% return on equity, per FPSC Order No. PSC-2016-0590-AS-EI.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3413% based on FPSC Order No. PSC-2016-0590-AS-EI.



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22 - Pipeline Integrity Management	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791	\$2,872,791
3a. Less: Accumulated Depreciation	\$259,949	\$266,307	\$272,666	\$279,024	\$285,383	\$291,741	\$298,100	\$304,458	\$310,817	\$317,175	\$323,534	\$329,892	\$336,251	\$336,251
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$2,612,843	\$2,606,484	\$2,600,126	\$2,593,767	\$2,587,409	\$2,581,050	\$2,574,692	\$2,568,333	\$2,561,975	\$2,555,616	\$2,549,258	\$2,542,899	\$2,536,541	\$2,536,541
6. Average Net Investment	\$2,609,663	\$2,603,305	\$2,596,946	\$2,590,588	\$2,584,229	\$2,577,871	\$2,571,512	\$2,565,154	\$2,558,795	\$2,552,437	\$2,546,078	\$2,539,720	\$2,533,361	\$2,533,361
7. Return on Average Net Investment														
a. Equity Component grossed-up for taxes <sup>(b)(3)</sup>	\$16,998	\$16,998	\$16,956	\$16,915	\$16,873	\$16,832	\$16,790	\$16,833	\$16,792	\$16,750	\$16,708	\$16,667	\$16,625	\$201,739
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(3)</sup>	\$3,041	\$3,041	\$3,034	\$3,026	\$3,019	\$3,011	\$3,004	\$2,874	\$2,867	\$2,860	\$2,853	\$2,846	\$2,839	\$35,275
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$6,359	\$76,302
b. Amortization <sup>(d)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC-Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$26,337	\$26,348	\$26,299	\$26,251	\$26,202	\$26,153	\$26,066	\$26,017	\$25,969	\$25,920	\$25,871	\$25,822	\$25,773	\$313,316

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to Solar projects - DISCO (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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23 - SPCC - Spill Prevention, Control & Countermeasures	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	(\$10,937)	(\$283)	\$24,217	\$21,865	\$3,863	\$8,284	\$56,394	\$12,423	\$7,464	(\$9,112)	(\$90,467)	\$495,253	\$518,963
b. Clearings to Plant	\$0	\$31,839	(\$1,695)	(\$140,969)	(\$137,186)	(\$5,129)	\$37,285	\$64,938	(\$60,871)	\$0	\$8,744	\$96,265	\$6,323	\$201,482
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$6,126)	\$0	\$0	\$0
d. Other	\$0	(\$418)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$418)
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$16,329,130	\$16,361,032	\$16,359,337	\$16,500,306	\$16,363,119	\$16,357,991	\$16,395,276	\$16,480,214	\$16,419,343	\$16,419,343	\$16,423,087	\$16,524,352	\$16,530,675	
3a. Less: Accumulated Depreciation	\$3,325,715	\$3,386,273	\$3,407,289	\$3,448,401	\$3,469,516	\$3,530,531	\$3,571,589	\$3,612,758	\$3,653,944	\$3,695,086	\$3,728,110	\$3,769,338	\$3,810,646	
3b. Less: Capital Recovered Unamortized Balance	(\$2,837,506)	(\$2,813,860)	(\$2,790,214)	(\$2,766,568)	(\$2,742,922)	(\$2,719,276)	(\$2,695,630)	(\$2,671,984)	(\$2,648,339)	(\$2,624,693)	(\$2,601,047)	(\$2,577,401)	(\$2,553,755)	
4. CWIP - Non Interest Bearing	\$29,310	\$12,373	\$12,090	\$36,307	\$58,172	\$62,035	\$70,319	\$126,713	\$199,136	\$146,600	\$137,488	\$47,020	\$542,273	
5. Net Investment (Lines 2 - 3 + 4)	\$15,864,294	\$15,820,992	\$15,754,352	\$15,854,780	\$15,674,695	\$15,638,771	\$15,599,636	\$15,666,153	\$15,552,873	\$15,495,550	\$15,438,511	\$15,379,436	\$15,816,057	
6. Average Net Investment		\$15,842,643	\$15,787,672	\$15,804,566	\$15,641,733	\$15,647,733	\$15,599,203	\$15,627,894	\$15,609,513	\$15,524,211	\$15,467,030	\$15,408,973	\$15,597,746	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(1)</sup>		\$103,188	\$102,830	\$102,940	\$102,681	\$101,879	\$101,602	\$102,301	\$102,180	\$101,622	\$101,248	\$100,868	\$102,103	\$1,225,442
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(2)</sup>		\$16,461	\$16,397	\$16,417	\$16,371	\$16,227	\$16,176	\$17,469	\$17,448	\$17,353	\$17,289	\$17,224	\$17,435	\$214,270
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$40,976	\$41,016	\$41,112	\$41,117	\$41,013	\$41,058	\$41,169	\$41,186	\$41,142	\$41,150	\$41,228	\$41,308	\$493,475
b. Amortization <sup>(d)</sup>		\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$23,646	\$283,751
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$186,272	\$185,869	\$188,115	\$185,814	\$184,766	\$184,484	\$184,594	\$184,461	\$183,763	\$183,332	\$182,965	\$184,493	\$2,216,938

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 42-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Applicable amortization periods. See Form 42-8A, pages 43-45.

<sup>(f)</sup> Dismantlement only applies to Solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component

□ Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CLAUSE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$122)	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17	\$17
2. Plant-in-Service/Depreciation Base <sup>(1)</sup>	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,656	\$31,561,736
3a. Less: Accumulated Depreciation	\$8,384,671	\$8,511,243	\$8,637,815	\$8,764,388	\$8,890,960	\$9,017,532	\$9,144,104	\$9,270,677	\$9,397,249	\$9,523,821	\$9,650,394	\$9,776,966	\$9,903,538	\$9,903,538
3b. Less: Capital Recovery Unamortized Balance	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239	\$75,239
4. CWIP - Non Interest Bearing	\$23,272,426	\$23,146,854	\$23,019,282	\$22,892,709	\$22,766,137	\$22,639,565	\$22,512,992	\$22,386,420	\$22,259,848	\$22,133,275	\$22,006,703	\$21,880,131	\$21,753,420	\$21,753,420
5. Net Investment (Lines 2 - 3 + 4)	\$23,209,140	\$23,062,568	\$22,935,995	\$22,809,423	\$22,702,851	\$22,576,279	\$22,449,706	\$22,323,134	\$22,196,562	\$22,069,989	\$21,943,417	\$21,816,775	\$21,690,103	\$21,690,103
6. Average Net Investment														
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(1)(b)</sup>	\$151,168	\$160,344	\$149,519	\$148,695	\$147,871	\$147,046	\$146,221	\$145,396	\$144,571	\$143,746	\$142,921	\$142,096	\$141,271	\$140,446
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(1)(c)</sup>	\$27,046	\$26,898	\$26,751	\$26,603	\$26,456	\$26,308	\$26,160	\$26,012	\$25,864	\$25,716	\$25,568	\$25,420	\$25,272	\$25,124
8. Investment Expenses														
a. Depreciation <sup>(1)</sup>	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722	\$1,265,722
b. Amortization <sup>(1)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(1)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$304,786	\$303,814	\$302,842	\$301,871	\$300,899	\$299,927	\$298,955	\$297,983	\$297,011	\$296,039	\$295,067	\$294,095	\$293,123	\$292,151

<sup>(1)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 42-45.

<sup>(b)</sup> The gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on the May 2017 ROR Surveillance Report and reflects a 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(1)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(1)</sup> Applicable amortization periods. See Form 42-8A, pages 43-45.

<sup>(1)</sup> Dismantlement only applies to Solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(1)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

□ Equity Component. Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component. For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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25 - Ft. Everglades ESP Technology	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3a. Less: Accumulated Depreciation	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)	(\$2)
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2, -3 + 4)	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2
6. Average Net Investment	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2
<b>7. Return on Average Net Investment</b>														
a. Equity Component grossed-up for taxes <sup>(b)(10)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(11)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>8. Investment Expenses</b>														
a. Depreciation <sup>(c)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Amortization <sup>(d)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to S-Jar projects - D&Sco (377), NASA (39) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CLAUSE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447	\$115,447
3a. Less: Accumulated Depreciation	\$47,708	\$47,852	\$47,996	\$48,141	\$48,285	\$48,429	\$48,574	\$48,718	\$48,862	\$49,007	\$49,151	\$49,295	\$49,440	\$49,440
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$67,739	\$67,595	\$67,450	\$67,306	\$67,162	\$67,017	\$66,873	\$66,729	\$66,584	\$66,440	\$66,296	\$66,151	\$66,007	\$66,007
6. Average Net Investment	\$67,667	\$67,522	\$67,378	\$67,234	\$67,089	\$66,945	\$66,801	\$66,657	\$66,512	\$66,368	\$66,224	\$66,079	\$66,079	\$66,079
7. Return on Average Net Investment														
a. Equity Component grossed-up for taxes <sup>(b)(3)</sup>	\$441	\$440	\$439	\$438	\$437	\$436	\$437	\$436	\$435	\$434	\$434	\$434	\$433	\$5,240
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(3)</sup>	\$79	\$79	\$79	\$78	\$78	\$78	\$78	\$75	\$75	\$74	\$74	\$74	\$74	\$916
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$144	\$1,732
b. Amortization <sup>(d)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$644	\$663	\$662	\$661	\$659	\$658	\$656	\$655	\$654	\$653	\$652	\$651	\$651	\$7,888

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to solar projects - D&S (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

□ Average Net Investment. See footnote (b) and (c).

□ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CASE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

28 - CWA 316(b) Phase II Rule	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$10,876	\$5,482	\$2,172	\$6,895	\$56,979	\$11,817	\$10,833	\$114,891	\$61,674	(\$624,986)	\$0	\$0	(\$343,587)
b. Changes to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$67,029	\$66,242	\$12,574	\$766,645
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>2. Plant-in-Service/Depreciation Base<sup>(a)</sup></b>														
3a. Less: Accumulated Depreciation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWP - Non Interest Bearing	\$343,587	\$354,443	\$359,925	\$362,897	\$368,992	\$425,371	\$437,738	\$448,621	\$553,312	\$624,986	\$687,038	\$754,071	\$823,887	\$4,092
5. Net Investment (Lines 2 - 3 + 4)	\$343,587	\$354,443	\$359,925	\$362,897	\$368,992	\$425,371	\$437,738	\$448,621	\$553,312	\$624,986	\$687,038	\$754,071	\$823,887	\$4,092
6. Average Net Investment		\$349,005	\$357,184	\$361,011	\$365,544	\$397,481	\$431,880	\$443,205	\$505,967	\$594,149	\$656,022	\$719,371	\$757,118	\$49,632
<b>7. Return on Average Net Investment</b>														
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$2,273	\$2,326	\$2,351	\$2,381	\$2,589	\$2,813	\$2,901	\$3,312	\$3,889	\$4,294	\$4,709	\$4,956	\$38,796
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$407	\$416	\$421	\$426	\$463	\$503	\$495	\$566	\$664	\$733	\$804	\$846	\$6,745
<b>8. Investment Expenses</b>														
a. Depreciation <sup>(c)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$771	\$1,616	\$1,704	\$4,092
b. Amortization <sup>(d)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>9. Total System Recoverable Costs (Lines 7 &amp; 8)</b>		\$2,680	\$2,743	\$2,772	\$2,807	\$3,052	\$3,316	\$3,397	\$3,878	\$4,553	\$5,799	\$7,129	\$7,507	\$49,632

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.825% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-46.

<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.

<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne, (27), NASSA (38) & Martin (39).

<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts.

<sup>(h)</sup> Average Net Investment. See footnotes (b) and (c).

<sup>(i)</sup> Average Unamortized TTC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.825% reflects a 10.55% return on equity.

Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CLAUSE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

31 - Clean Air Interstate Rule (CAIR) Compliance	Beginning of Period Amount	JANUARY 2017 THROUGH DECEMBER 2017												Total			
		January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual				
1. Investments																	
a. Expenditures/Additions	\$0	\$992	(\$41,537)	\$2,110	\$737	\$43,258	\$171	\$7,653	\$9,026	\$3,645	\$1,202	(\$68,703)	(\$430)				
b. Clearings to Plant	\$0	\$0	\$1,756	(\$24,030)	\$0	\$0	\$0	\$2,494,657	\$0	\$0	\$0	\$79,730	(\$2,433,357)				
c. Retirements	\$0	\$0	(\$41,546)	\$0	(\$24,395)	\$0	\$0	(\$2,084,194)	\$0	\$0	\$0	\$0	(\$2,150,135)				
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$107,815)	\$0	\$0	\$0	\$0	(\$107,815)				
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$527,147,489	\$527,151,322	\$527,153,078	\$527,120,059	\$527,120,059	\$527,120,059	\$527,120,059	\$524,634,402	\$524,634,402	\$524,634,402	\$524,634,402	\$524,714,132					
3a. Less: Accumulated Depreciation	\$65,676,106	\$70,394,656	\$72,313,209	\$74,908,775	\$76,202,889	\$77,521,352	\$78,839,815	\$77,963,421	\$79,277,069	\$80,590,716	\$81,904,364	\$83,218,068					
3b. Less: Capital Recovery Unamortized Balance	(\$77,096)	(\$76,454)	(\$75,811)	(\$74,526)	(\$73,894)	(\$73,241)	(\$72,599)	(\$71,956)	(\$71,314)	(\$70,671)	(\$70,029)	(\$69,386)					
4. CWIP - Non Interest Bearing	\$430	\$41,446	\$42,438	\$3,011	\$3,748	\$47,007	\$47,177	\$54,830	\$63,857	\$67,502	\$68,703	\$0					
5. Net Investment (Lines 2 - 3 + 4)	\$457,548,909	\$456,274,566	\$454,965,362	\$452,321,851	\$451,003,802	\$449,727,954	\$448,409,020	\$446,797,767	\$445,492,504	\$444,181,859	\$442,898,770	\$441,565,430					
6. Average Net Investment		\$456,911,738	\$455,615,464	\$454,297,646	\$452,980,390	\$451,662,826	\$450,345,878	\$449,028,487	\$447,711,136	\$446,393,739	\$445,076,341	\$443,758,940					
7. Return on Average Net Investment		\$2,976,007	\$2,967,564	\$2,959,401	\$2,951,820	\$2,944,820	\$2,937,372	\$2,930,617	\$2,923,480	\$2,916,918	\$2,910,331	\$2,894,767					
a. Equity Component grossed up for taxes <sup>(b)(3)</sup>		\$532,459	\$530,929	\$529,393	\$527,858	\$526,323	\$524,787	\$523,251	\$521,715	\$520,179	\$518,643	\$517,107					
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(3)</sup>		\$2,443,548	\$2,436,635	\$2,429,728	\$2,422,821	\$2,415,914	\$2,409,007	\$2,402,100	\$2,395,193	\$2,388,286	\$2,381,379	\$2,374,472					
8. Investment Expenses		\$1,318,550	\$1,318,553	\$1,318,555	\$1,318,557	\$1,318,510	\$1,318,463	\$1,318,463	\$1,318,648	\$1,318,648	\$1,318,648	\$1,313,725					
a. Depreciation <sup>(c)</sup>		\$642	\$642	\$642	\$642	\$642	\$642	\$642	\$642	\$642	\$642	\$642					
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
9. Total System Recoverable Costs (Lines 7 & 8)		\$4,827,639	\$4,817,689	\$4,807,571	\$4,797,459	\$4,787,294	\$4,777,269	\$4,767,691	\$4,758,113	\$4,748,535	\$4,738,957	\$4,729,379					

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 42-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual periods is 4.8009% based on FPSC Order No. PSC-2016-0590-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual periods is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0590-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0590-AS-EI.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Dismantlement only applies to Solar projects - D6500 (37), NASA (38) & Martin (39).

<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:

    □ Average Net Investment. See footnote (b) and (c).

    □ Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%, the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3884% based on the May 2017 ROR Surveillance Report.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CLAUSE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

33 - MATS Project	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$0	\$250	(\$245)	\$0	\$0	(\$4)	\$21	\$0	\$0	(\$27)	\$0	\$6	\$0
b. Clearings to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$6)	(\$6)
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plan-in Service/Depreciation Base <sup>(a)</sup>	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938	\$107,495,938
3a. Less: Accumulated Depreciation	\$18,609,993	\$18,609,993	\$19,110,724	\$19,611,455	\$19,611,455	\$19,861,821	\$20,112,186	\$20,362,552	\$20,612,918	\$20,863,283	\$21,113,649	\$21,364,014	\$21,614,380	\$21,614,380
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CHIP - Non Interest Bearing	\$0	\$0	\$250	\$4	\$4	\$4	\$4	\$21	\$21	\$21	(\$6)	(\$6)	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$88,885,946	\$88,885,946	\$88,385,214	\$87,884,487	\$87,383,752	\$86,883,017	\$86,382,283	\$85,881,548	\$85,380,813	\$84,880,078	\$84,379,343	\$83,878,608	\$83,377,873	\$83,377,873
6. Average Net Investment		\$88,760,763	\$88,510,397	\$88,260,157	\$88,009,793	\$87,759,305	\$87,508,937	\$87,258,580	\$87,008,224	\$86,757,859	\$86,507,490	\$86,257,101	\$86,006,735	\$86,006,735
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(9)</sup>		\$578,126	\$576,496	\$574,866	\$573,235	\$571,603	\$569,973	\$571,197	\$569,559	\$567,920	\$566,281	\$564,642	\$563,003	\$6,846,900
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(9)</sup>		\$103,433	\$103,141	\$102,850	\$102,558	\$102,266	\$101,974	\$97,538	\$97,258	\$96,978	\$96,698	\$96,418	\$96,138	\$1,197,249
8. Investment Expenses														
a. Depreciation <sup>(d)</sup>		\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$250,366	\$3,004,388
b. Amortization <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(f)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$681,925	\$680,002	\$678,081	\$676,158	\$674,235	\$672,313	\$670,391	\$668,468	\$666,545	\$664,623	\$662,701	\$660,778	\$11,046,537

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-45.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FISC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FISC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3864% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.

<sup>(e)</sup> Applicable amortization periods. See Form 42-8A, pages 43-45.

<sup>(f)</sup> Dismantlement only applies to Solar projects - DeSoto (37), NASA (38) & Martin (38).

<sup>(g)</sup> For solar projects the return on investment calculation is composed of two parts:

□ Average Net Investment: See footnotes (b) and (c).

□ Average Unamortized ITC Balance

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FISC Order No. PSC-2016-0560-AS-EI.



FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CASE  
RETURN ON CAPITAL INVESTMENTS: DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

34 - St. Lucie Cooling Water System Inspection & Maintenance	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$4,343	\$3,690	\$4,035	\$6,404	\$2,695	\$10,562	\$10,139	\$12,877	\$10,210	\$8,119	\$1,942	\$3,650	\$607,766
b. Changes to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>														
3a. Less: Accumulated Depreciation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3b. Less: Capital Recovery Unamortized Balance	\$4,417,723	\$4,422,066	\$4,425,656	\$4,429,691	\$4,433,095	\$4,440,790	\$4,451,372	\$4,461,511	\$4,471,388	\$4,484,998	\$4,492,717	\$4,494,639	\$4,498,509	\$4,498,509
4. CWIP - Non Interest Bearing	\$4,417,723	\$4,422,066	\$4,425,656	\$4,429,691	\$4,433,095	\$4,440,790	\$4,451,372	\$4,461,511	\$4,471,388	\$4,484,998	\$4,492,717	\$4,494,639	\$4,498,509	\$4,498,509
5. Net Investment (Lines 2 - 3 + 4)														
6. Average Net Investment		\$4,419,894	\$4,423,861	\$4,427,674	\$4,433,893	\$4,439,443	\$4,446,081	\$4,456,442	\$4,467,950	\$4,479,493	\$4,488,698	\$4,493,688	\$4,496,584	\$4,496,584
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$28,788	\$28,814	\$28,839	\$28,879	\$28,915	\$29,959	\$29,172	\$29,247	\$29,323	\$29,383	\$29,416	\$29,435	\$349,170
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$5,151	\$5,155	\$5,160	\$5,167	\$5,173	\$5,181	\$4,981	\$4,984	\$5,007	\$5,017	\$5,023	\$5,026	\$61,036
8. Investment Expenses														
a. Depreciation <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Amortization <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$33,939	\$33,969	\$33,998	\$34,046	\$34,089	\$34,140	\$34,153	\$34,242	\$34,330	\$34,400	\$34,439	\$34,461	\$410,206

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.825% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.

<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.

<sup>(f)</sup> Dismantlement only applies to Solar projects - DeSoto (07), NASA (38) & Martin (39).

<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts.

<sup>(h)</sup> Average Net Investment. See footnotes (b) and (c).

<sup>(i)</sup> Average Unamortized TTC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.825% reflects a 10.55% return on equity.

Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844%, and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CASE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

35 - Martin Plant Drinking Water System Compliance	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Chargebacks to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391	\$235,391
3a. Less: Accumulated Depreciation	\$38,070	\$38,064	\$39,359	\$39,363	\$40,347	\$40,942	\$41,336	\$41,630	\$42,325	\$42,819	\$43,313	\$43,808	\$44,302	\$44,302
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	<u>\$197,021</u>	<u>\$196,527</u>	<u>\$195,538</u>	<u>\$195,538</u>	<u>\$195,044</u>	<u>\$194,550</u>	<u>\$194,055</u>	<u>\$193,561</u>	<u>\$193,067</u>	<u>\$192,572</u>	<u>\$192,078</u>	<u>\$191,584</u>	<u>\$191,090</u>	
6. Average Net Investment		\$196,774	\$196,280	\$195,786	\$195,291	\$194,797	\$194,303	\$193,808	\$193,314	\$192,820	\$192,325	\$191,831	\$191,337	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$1,282	\$1,278	\$1,275	\$1,272	\$1,269	\$1,266	\$1,263	\$1,260	\$1,256	\$1,252	\$1,250	\$1,252	\$15,205
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$229	\$229	\$228	\$228	\$227	\$227	\$226	\$226	\$226	\$225	\$224	\$214	\$2,659
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$494	\$494	\$494	\$494	\$494	\$494	\$494	\$494	\$494	\$494	\$494	\$494	\$5,932
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		<u>\$2,005</u>	<u>\$2,001</u>	<u>\$1,998</u>	<u>\$1,994</u>	<u>\$1,990</u>	<u>\$1,986</u>	<u>\$1,980</u>	<u>\$1,976</u>	<u>\$1,972</u>	<u>\$1,968</u>	<u>\$1,964</u>	<u>\$1,961</u>	<u>\$23,796</u>

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.825% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.  
<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne (07), MASA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.825% reflects a 10.55% return on equity.  
 □ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>36 - Low-Level Radioactive Waste Storage</b>														
1. Investments														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Chargebacks to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804	\$17,456,804
3a. Less: Accumulated Depreciation	\$1,064,031	\$1,103,990	\$1,143,948	\$1,183,907	\$1,223,866	\$1,263,825	\$1,303,784	\$1,343,742	\$1,383,701	\$1,423,660	\$1,463,619	\$1,503,578	\$1,543,536	\$1,583,495
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	<u>\$16,392,773</u>	<u>\$16,352,814</u>	<u>\$16,312,855</u>	<u>\$16,272,896</u>	<u>\$16,232,938</u>	<u>\$16,192,979</u>	<u>\$16,153,020</u>	<u>\$16,113,061</u>	<u>\$16,073,102</u>	<u>\$16,033,144</u>	<u>\$15,993,185</u>	<u>\$15,953,226</u>	<u>\$15,913,267</u>	<u>\$15,873,308</u>
6. Average Net Investment		\$16,372,793	\$16,332,835	\$16,292,876	\$16,252,917	\$16,212,958	\$16,172,999	\$16,133,041	\$16,093,082	\$16,053,123	\$16,013,164	\$15,973,205	\$15,933,247	\$15,893,288
7. Return on Average Net Investment		\$106,641	\$106,381	\$106,121	\$105,860	\$105,600	\$105,340	\$105,079	\$104,819	\$104,559	\$104,299	\$104,039	\$103,779	\$103,519
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$106,641	\$106,381	\$106,121	\$105,860	\$105,600	\$105,340	\$105,079	\$104,819	\$104,559	\$104,299	\$104,039	\$103,779	\$103,519
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$19,079	\$19,033	\$18,986	\$18,940	\$18,893	\$18,846	\$18,799	\$18,752	\$18,705	\$18,658	\$18,611	\$18,564	\$18,517
8. Investment Expenses		\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959	\$39,959
a. Depreciation <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Amortization <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		<u>\$165,679</u>	<u>\$165,372</u>	<u>\$165,065</u>	<u>\$164,759</u>	<u>\$164,452</u>	<u>\$164,145</u>	<u>\$163,838</u>	<u>\$163,531</u>	<u>\$163,224</u>	<u>\$162,917</u>	<u>\$162,610</u>	<u>\$162,303</u>	<u>\$161,996</u>

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8235% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.

<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.

<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne (07), NASSA (38) & Martin (39).

<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts.

□ Average Net Investment. See footnotes (b) and (c).

□ Average Unamortized TTC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8235% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
37 - DuSoto Next Generation Solar Energy Center														
a. Expenditures/Additions	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
b. Clearings to Plant	\$0	(\$47,662)	\$0	(\$46,992)	(\$21,121)	\$0	\$0	\$0	(\$1,052)	\$0	(\$4,296)	\$0	\$86,055	(\$35,027)
c. Retirements	\$0	(\$49,116)	\$0	(\$21,238)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$9,201)	(\$79,555)
d. Other	\$0	(\$0)	(\$1,677)	(\$5,600)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$813)	(\$8,081)
2. Plan-In Service/Depreciation Base <sup>(6)</sup>	\$153,566,725	\$153,519,064	\$153,519,064	\$153,472,071	\$153,450,951	\$153,450,951	\$153,450,951	\$153,450,951	\$153,449,899	\$153,445,642	\$153,445,642	\$153,445,642	\$153,445,642	\$153,531,688
3a. Less: Accumulated Depreciation	\$36,158,682	\$36,554,171	\$36,996,847	\$37,435,608	\$37,868,675	\$38,302,854	\$38,747,034	\$39,191,214	\$39,635,392	\$40,079,569	\$40,523,740	\$40,967,905	\$41,402,609	\$41,847,491
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)
5. Net Investment (Lines 2 - 3 + 4)	\$117,408,043	\$116,964,892	\$116,522,217	\$116,038,464	\$115,562,277	\$115,089,097	\$114,615,817	\$114,143,737	\$113,672,507	\$113,201,330	\$112,730,153	\$112,259,076	\$111,787,901	\$111,317,409
6. Average Net Investment		\$117,186,468	\$116,749,555	\$116,279,340	\$115,814,370	\$115,370,187	\$114,926,007	\$114,481,827	\$114,037,122	\$113,592,419	\$113,146,117	\$112,699,821	\$112,253,414	\$111,807,000
a. Average ITC Balance		\$33,385,161	\$33,263,095	\$33,141,029	\$33,018,963	\$32,896,897	\$32,774,831	\$32,652,765	\$32,530,699	\$32,408,633	\$32,286,567	\$32,164,501	\$32,042,435	\$31,920,369
7. Return on Average Net Investment		\$837,053	\$833,899	\$830,605	\$827,307	\$824,144	\$820,981	\$817,817	\$814,654	\$811,491	\$808,327	\$805,164	\$802,001	\$798,838
a. Equity Component grossed up for taxes <sup>(9)(10)</sup>		\$147,621	\$147,065	\$146,483	\$145,901	\$145,343	\$144,785	\$144,227	\$143,669	\$143,111	\$142,553	\$141,995	\$141,437	\$140,879
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(9)(11)</sup>		\$689,432	\$686,834	\$684,124	\$681,406	\$678,801	\$676,196	\$673,591	\$670,986	\$668,381	\$665,776	\$663,171	\$660,566	\$657,961
8. Investment Expenses		\$432,418	\$432,167	\$432,174	\$432,118	\$432,118	\$432,118	\$432,118	\$432,118	\$432,118	\$432,118	\$432,118	\$432,118	\$432,118
a. Depreciation <sup>(8)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Amortization <sup>(8)</sup>		\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187	\$12,187
c. Displacement <sup>(8)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar		(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)	(\$160,395)
9. Total System Recoverable Costs (Lines 7 & 8)		\$1,268,885	\$1,264,922	\$1,261,055	\$1,257,118	\$1,253,272	\$1,249,451	\$1,245,630	\$1,241,809	\$1,237,988	\$1,234,167	\$1,230,346	\$1,226,525	\$1,222,704

<sup>(6)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, page 43-45.  
<sup>(7)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The Monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(8)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3984% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(9)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.  
<sup>(10)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(11)</sup> Displacement only applies to Solar projects - DuSoto (37), NASA (38) & Martin (39).  
<sup>(12)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (6) and (7).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.  
 Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3984% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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36. Space Coast Next Generation Solar Energy Center	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
a. Expenditures/Additions	\$0	(\$307)	\$0	(\$10,800)	\$0	(\$37,455)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$46,556)
b. Changes to Plant	\$0	\$0	\$0	(\$5,741)	\$0	(\$37,455)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$44,196)
c. Retirements	\$0	\$0	\$0	(\$4,059)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$4,059)
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$70,650,306	\$70,650,005	\$70,639,205	\$70,639,205	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750	\$70,601,750
3a. Less: Accumulated Depreciation	\$15,914,281	\$16,114,861	\$16,315,439	\$16,505,172	\$16,705,658	\$16,888,487	\$17,065,508	\$17,228,549	\$17,463,590	\$17,688,631	\$17,868,672	\$18,068,713	\$18,288,753	\$18,288,753
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$54,736,024	\$54,535,144	\$54,324,666	\$54,134,033	\$53,933,546	\$53,733,262	\$53,532,978	\$53,333,201	\$53,133,160	\$52,933,119	\$52,733,078	\$52,533,037	\$52,332,997	\$52,332,997
6. Average Net Investment	\$54,635,585	\$54,434,855	\$54,234,300	\$54,033,790	\$53,833,415	\$53,633,262	\$53,433,221	\$53,233,180	\$53,033,140	\$52,833,099	\$52,633,058	\$52,433,017	\$52,232,976	\$52,232,976
a. Average ITC Balance	\$14,281,599	\$14,220,410	\$14,179,221	\$14,128,032	\$14,076,843	\$14,025,654	\$13,974,465	\$13,923,276	\$13,872,087	\$13,820,898	\$13,769,709	\$13,718,520	\$13,667,331	\$13,667,331
7. Return on Average Net Investment	\$387,421	\$386,000	\$384,581	\$383,162	\$381,744	\$380,327	\$378,911	\$377,494	\$376,077	\$374,660	\$373,243	\$371,826	\$370,409	\$370,409
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>	\$68,400	\$68,149	\$67,898	\$67,648	\$67,397	\$67,147	\$66,896	\$66,645	\$66,394	\$66,143	\$65,892	\$65,641	\$65,390	\$65,390
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>	\$319,021	\$317,851	\$316,683	\$315,514	\$314,346	\$313,178	\$312,010	\$310,842	\$309,674	\$308,506	\$307,338	\$306,170	\$305,002	\$305,002
8. Investment Expenses	\$196,187	\$196,187	\$196,141	\$196,095	\$196,049	\$196,003	\$195,957	\$195,911	\$195,865	\$195,819	\$195,773	\$195,727	\$195,681	\$195,681
a. Depreciation <sup>(c)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Amortization <sup>(c)</sup>	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392	\$4,392
c. Disamortement <sup>(d)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)	(\$67,263)
9. Total System Recoverable Costs (Lines 7 & 8)	\$589,137	\$587,465	\$585,749	\$584,033	\$582,317	\$580,601	\$578,885	\$577,169	\$575,453	\$573,737	\$572,021	\$570,305	\$568,589	\$568,589

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-BA, page 43-46.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8235% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-BA, pages 43-46.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-BA, pages 43-46.  
<sup>(f)</sup> Disamortement only applies to Solar projects - DSOne (07), NESA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8235% reflects a 10.55% return on equity.  
 Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$285,626	\$709,327	\$9,378	\$173,606	(\$300,037)	(\$1,052,026)	(\$205,953)	\$144,922	\$53,006	\$118,162	\$438,170	\$208,937	\$533,149
b. Clearings to Plant	\$0	\$288,639	(\$34,426)	\$52,033	(\$52,373)	\$694,336	\$614,510	\$20,367	(\$30,148)	\$46	\$2,623	(\$464)	\$15,749	\$1,540,894
c. Retirements	\$0	(\$361,777)	(\$0)	(\$106,929)	(\$4,794)	(\$0)	(\$598,251)	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,097,837)
d. Other	\$0	(\$66,874)	(\$93,382)	\$27,469	(\$2,473)	(\$25,941)	(\$2,117)	\$33,037	(\$5,823)	\$0	(\$6,731)	(\$30,692)	(\$8,409)	(\$199,937)
2. Plan/In Service/Depreciation Base <sup>(a)</sup>	\$422,853,922	\$423,112,561	\$423,078,135	\$423,130,169	\$423,077,796	\$423,772,131	\$424,396,641	\$424,407,008	\$424,376,860	\$424,376,907	\$424,379,530	\$424,379,066	\$424,394,815	
3a. Less: Accumulated Depreciation	\$79,701,478	\$80,341,013	\$81,131,630	\$82,303,635	\$83,304,133	\$84,349,730	\$85,482,473	\$85,997,384	\$87,053,430	\$88,125,271	\$89,190,383	\$90,231,546	\$91,249,931	
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
4. CWIP - Non Interest Bearing	\$1,321,775	\$2,296,728	\$2,305,106	\$2,479,742	\$2,448,705	\$1,097,679	\$991,726	\$1,038,648	\$1,207,816	\$1,089,655	\$1,207,816	\$1,164,986	\$1,189,924	
5. Net Investment (Lines 2 - 3 + 4)	\$344,474,219	\$344,356,949	\$344,056,533	\$343,130,640	\$342,253,406	\$341,572,107	\$340,601,847	\$339,311,350	\$338,360,079	\$337,341,281	\$336,396,983	\$335,739,507	\$334,698,808	
6. Average Net Investment		\$344,416,584	\$344,208,741	\$343,594,586	\$342,692,023	\$341,912,756	\$341,086,977	\$339,956,599	\$338,835,715	\$337,850,685	\$336,869,127	\$336,095,235	\$335,396,658	
a. Average ITC Balance		\$98,597,929	\$98,254,131	\$97,910,333	\$97,566,535	\$97,222,737	\$96,878,939	\$96,535,141	\$96,191,343	\$95,847,545	\$95,503,747	\$95,159,949	\$94,816,151	
7. Return on Average Net Investment		\$2,461,184	\$2,458,081	\$2,454,321	\$2,447,692	\$2,441,847	\$2,435,708	\$2,429,574	\$2,424,050	\$2,418,794	\$2,429,561	\$2,423,687	\$2,418,306	\$29,304,425
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$434,024	\$433,688	\$432,838	\$431,673	\$430,651	\$429,574	\$428,574	\$427,481	\$426,369	\$425,281	\$424,194	\$423,107	\$4,405,396
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$1,018,631	\$1,019,145	\$1,019,210	\$1,019,210	\$1,019,983	\$1,021,556	\$1,022,318	\$1,022,314	\$1,022,286	\$1,022,289	\$1,022,325	\$1,022,567	
8. Investment Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
a. Depreciation <sup>(c)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
b. Amortization <sup>(d)</sup>		\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$49,555	\$594,660
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
e. Amortization ITC Solar		(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$451,751)	(\$5,421,012)
9. Total System Recoverable Costs (Lines 7 & 8)		\$3,511,653	\$3,509,697	\$3,504,173	\$3,496,369	\$3,480,284	\$3,464,643	\$3,449,459	\$3,434,282	\$3,419,022	\$3,403,761	\$3,388,499	\$3,373,237	\$41,764,837

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, page 43-46.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The Monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3845% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.  
<sup>(e)</sup> Dismantlement only applies to Solar projects - DSolar (37), NASSA (38) & Martin (38).  
<sup>(f)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.  
 □ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796% and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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41 - Manatee Temporary Heating System	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Adjustments	\$0	\$0	\$0	\$0	\$0	\$0	\$18,514	\$36,127	\$0	\$0	\$461,790	\$46,451	\$597,609	\$1,160,691
b. Changes to Plant	\$0	\$0	(\$52,273)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,119)	\$0	(\$16,244)	(\$69,637)
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,119)	\$0	(\$16,244)	(\$17,364)
d. Other	\$0	\$0	(\$52,273)	\$0	\$0	\$20,138	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$32,138)
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$5,805,515	\$5,753,241	\$5,753,241	\$5,753,241	\$5,753,241	\$5,753,241	\$5,753,241	\$5,753,241	\$5,753,241	\$5,753,241	\$5,752,122	\$5,752,122	\$5,735,878	
3a. Less: Accumulated Depreciation	\$5,594,368	\$5,154,562	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	\$5,032,691	
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
5. Net Investment (Lines 2 - 3 + 4)	\$251,146	\$250,953	\$250,952	\$250,953	\$250,953	\$250,953	\$250,953	\$250,953	\$250,953	\$250,953	\$250,953	\$250,953	\$250,953	
6. Average Net Investment		\$251,050	\$250,652	\$250,253	\$250,060	\$249,867	\$239,604	\$238,599	\$285,726	\$283,597	\$514,298	\$766,225	\$1,090,210	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$1,635	\$1,633	\$1,630	\$1,629	\$1,627	\$1,561	\$1,562	\$1,739	\$1,856	\$3,367	\$6,029	\$7,137	\$30,404
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$293	\$292	\$292	\$291	\$279	\$267	\$267	\$287	\$317	\$575	\$659	\$1,219	\$5,271
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$193	\$603	\$193	\$193	\$193	\$193	\$193	\$193	\$193	\$193	\$193	\$97	\$2,633
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$2,121	\$2,527	\$2,115	\$2,113	\$2,112	\$2,033	\$2,022	\$2,230	\$2,367	\$4,135	\$6,081	\$8,452	\$38,309

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.825% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.  
<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne (07), NESA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment. See footnotes (b) and (c).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.825% reflects a 10.55% return on equity.  
 □ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

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42 - Turkey Point Cooling Canal Monitoring Plan	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$198,623	\$186,761	\$942,232	\$463,409	\$276,597	\$403,217	\$793,223	\$1,301,797	\$1,479,660	\$3,196,744	\$1,647,488	\$1,327,435	\$12,422,206
b. Changes to Plant	\$0	(\$130,651)	\$0	(\$25,996)	\$2,749	\$49,710	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$103,988)
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$1,717,089	\$17,039,438	\$17,039,438	\$17,013,641	\$17,016,390	\$17,066,101	\$17,066,101	\$17,066,101	\$17,066,101	\$17,066,101	\$17,066,101	\$17,066,101	\$17,066,101	\$17,066,101
3a. Less: Accumulated Depreciation	\$549,921	\$594,536	\$638,990	\$683,381	\$727,772	\$772,221	\$816,735	\$861,249	\$905,763	\$950,278	\$994,792	\$1,039,306	\$1,083,620	\$10,393,660
3b. Less: Capital Recovery Unamortized Balance	\$6,953,906	\$7,152,528	\$7,339,310	\$8,281,542	\$9,144,951	\$9,021,548	\$9,429,765	\$10,222,985	\$11,054,785	\$13,004,445	\$16,201,198	\$18,046,676	\$19,376,111	\$159,376,111
4. CWIP - Non Interest Bearing	\$23,574,074	\$23,597,431	\$23,739,767	\$24,611,792	\$25,033,570	\$25,315,527	\$25,679,130	\$26,027,839	\$27,085,122	\$28,120,288	\$29,272,897	\$30,407,671	\$31,588,892	\$283,888,892
5. Net Investment (Lines 2 - 3 + 4)	\$23,597,431	\$23,698,599	\$23,698,599	\$24,175,780	\$24,632,691	\$25,174,498	\$25,497,279	\$26,063,485	\$27,056,481	\$28,402,695	\$30,696,382	\$33,173,984	\$34,716,931	\$310,579
6. Average Net Investment		\$153,621	\$154,161	\$157,464	\$161,678	\$163,969	\$166,072	\$170,547	\$177,113	\$185,925	\$200,939	\$217,158	\$227,258	\$2,135,905
7. Return on Average Net Investment		\$27,484	\$27,681	\$28,172	\$28,926	\$29,336	\$29,712	\$29,123	\$30,244	\$31,749	\$34,312	\$37,082	\$38,807	\$372,527
8. Investment Expenses		\$44,615	\$44,445	\$44,411	\$44,381	\$44,449	\$44,514	\$44,514	\$44,514	\$44,514	\$44,514	\$44,514	\$44,514	\$533,899
a. Depreciation <sup>(a)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Amortization <sup>(b)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(c)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$226,721	\$226,186	\$230,047	\$234,984	\$237,754	\$240,288	\$244,184	\$251,870	\$262,188	\$279,766	\$298,754	\$310,579	\$310,579	\$3,042,331

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.  
<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.825% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.384% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.341% based on the May 2017 ROR Surveillance Report.  
<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.  
<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne (07), NESA (38) & Martin (39).  
<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts.  
<sup>(h)</sup> Average Net Investment. See footnotes (b) and (c).  
<sup>(i)</sup> Average Unamortized TTC Balance.  
<sup>(j)</sup> Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 0.6-0.30% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 0.6-0.30% reflects a 10.55% return on equity.  
<sup>(k)</sup> Debt Component: For the Jan. - Jun. 2017 actual period return of 1.796%, and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.



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44 - Martin Plant Barley Barber Swamp Icon Mitigation	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Changes to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-In-Service/Depreciation Base <sup>(a)</sup>	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719	\$164,719
3a. Less: Accumulated Depreciation	\$19,114	\$19,460	\$19,806	\$20,152	\$20,498	\$20,844	\$21,190	\$21,536	\$21,882	\$22,228	\$22,574	\$22,919	\$23,265	\$23,611
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$145,605	\$145,258	\$144,912	\$144,566	\$144,220	\$143,875	\$143,529	\$143,183	\$142,837	\$142,491	\$142,145	\$141,799	\$141,453	\$141,107
6. Average Net Investment		\$145,431	\$145,085	\$144,739	\$144,393	\$144,048	\$143,702	\$143,356	\$143,010	\$142,664	\$142,318	\$141,972	\$141,626	\$141,280
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$947	\$945	\$943	\$940	\$938	\$936	\$938	\$936	\$934	\$932	\$929	\$927	\$11,246
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$169	\$169	\$169	\$168	\$168	\$167	\$167	\$166	\$166	\$165	\$165	\$158	\$1,966
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$346	\$346	\$346	\$346	\$346	\$346	\$346	\$346	\$346	\$346	\$346	\$346	\$4,151
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$1,463	\$1,460	\$1,457	\$1,455	\$1,452	\$1,449	\$1,445	\$1,442	\$1,439	\$1,437	\$1,434	\$1,431	\$17,363

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8235% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.

<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.

<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne, (07), MASA, (38) & Martin (39).

<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts.

<sup>(h)</sup> Average Net Investment. See footnotes (b) and (c).

<sup>(i)</sup> Average Unamortized ITC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8235% reflects a 10.55% return on equity.

Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3844% and for the Jul. - Dec. 2017 actual period return of 1.3413% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CLAUSE  
RETURN ON CAPITAL INVESTMENTS: DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
<b>1. Investments</b>														
a. Expenditures/Additions	\$0	\$16,877	\$9,625	(\$2,838)	\$0	(\$23,664)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Clearings to Plant	\$0	\$7,781	\$3,385	\$76	\$31,649	(\$44,692)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,801)
c. Retirements	\$0	\$0	\$0	\$218	(\$766)	(\$77,442)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$77,442)
d. Other	\$0	(\$824)	(\$745)	\$0	\$0	(\$211)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,228)
2. Plant in Service/Depreciation Base <sup>(6)</sup>	\$214,906,214	\$214,913,995	\$214,917,380	\$214,917,457	\$214,949,105	\$214,904,413	\$214,904,413	\$214,904,413	\$214,904,413	\$214,904,413	\$214,904,413	\$214,904,413	\$214,904,413	\$214,904,413
3a. Less: Accumulated Depreciation	\$17,315,970	\$18,143,730	\$18,971,588	\$19,800,416	\$20,628,315	\$21,379,259	\$22,207,851	\$23,036,403	\$23,864,955	\$24,693,507	\$25,522,059	\$26,350,611	\$27,179,385	\$27,179,385
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$0	\$16,877	\$9,625	\$23,664	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$197,590,244	\$196,767,143	\$195,972,294	\$195,140,705	\$194,344,455	\$193,525,114	\$192,696,562	\$191,868,010	\$191,039,458	\$190,210,906	\$189,382,354	\$188,553,802	\$187,725,018	\$187,725,018
6. Average Net Investment	\$197,188,683	\$196,378,718	\$195,556,500	\$194,742,590	\$193,934,784	\$193,110,838	\$192,282,286	\$191,453,734	\$190,625,182	\$189,796,630	\$188,968,078	\$188,139,410	\$187,310,742	\$187,310,742
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(9)(10)</sup>	\$1,284,351	\$1,279,082	\$1,273,720	\$1,268,419	\$1,263,157	\$1,257,791	\$1,252,425	\$1,247,059	\$1,241,693	\$1,236,327	\$1,230,961	\$1,225,595	\$1,220,229	\$1,214,863
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(9)(11)</sup>	\$228,784	\$228,841	\$228,897	\$228,954	\$229,011	\$229,068	\$229,125	\$229,182	\$229,239	\$229,296	\$229,353	\$229,410	\$229,467	\$229,524
8. Investment Expenses														
a. Depreciation <sup>(8)</sup>	\$928,584	\$928,603	\$928,622	\$928,641	\$928,660	\$928,679	\$928,698	\$928,717	\$928,736	\$928,755	\$928,774	\$928,793	\$928,812	\$928,831
b. Amortization <sup>(8)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(8)</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization ITC Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135	\$2,284,135

<sup>(6)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, page 43-45.  
<sup>(7)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(8)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3411% based on the May 2017 ROR Surveillance Report.  
<sup>(9)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 43-45.  
<sup>(10)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-45.  
<sup>(11)</sup> Dismantlement only applies to Solar projects - DSolar (37), NUSA (38) & Martin (39).  
<sup>(12)</sup> For solar projects the return on investment calculation is comprised of two parts:  
 □ Average Net Investment See footnotes (6) and (7).  
 □ Average Unamortized ITC Balance.  
 Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 4.8009% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 4.8251% reflects a 10.55% return on equity.  
 Debt Component: For the Jan. - Jun. 2017 actual period return of 1.3884% and for the Jul. - Dec. 2017 actual period return of 1.3411% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
ENVIRONMENTAL COST RECOVERY CASE  
RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

54 - Coal Combustion Residuals	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total
1. Investments														
a. Expenditures/Additions	\$0	\$763,706	\$204,630	\$370,530	\$566,516	\$554,383	\$667,989	\$521,536	\$851,471	\$876,983	\$1,636,520	\$1,634,341	\$12,289,551	\$21,161,136
b. Changes to Plant	\$0	(\$1,216)	\$166	(\$166)	\$1,114	\$345	\$334	\$0	\$0	\$0	\$0	\$0	\$5,391	\$5,968
c. Retirements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Plant-in-Service/Depreciation Base <sup>(a)</sup>	\$254,560	\$253,373	\$253,539	\$253,373	\$254,488	\$254,632	\$255,167	\$255,167	\$255,167	\$255,167	\$255,167	\$255,167	\$260,558	\$4,101
3a. Less: Accumulated Depreciation	\$486	\$787	\$1,096	\$1,386	\$1,687	\$1,986	\$2,289	\$2,590	\$2,892	\$3,193	\$3,495	\$3,796	\$4,101	\$0
3b. Less: Capital Recovery Unamortized Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. CWIP - Non Interest Bearing	\$3,026,212	\$3,769,917	\$3,994,546	\$4,363,078	\$4,754,935	\$5,198,377	\$5,715,946	\$6,288,462	\$7,049,933	\$8,126,936	\$10,063,456	\$11,897,737	\$24,187,349	\$0
5. Net Investment (Lines 2 - 3 + 4)	\$3,280,915	\$4,042,504	\$4,247,001	\$4,620,065	\$5,010,786	\$5,761,922	\$6,428,824	\$7,051,058	\$7,802,228	\$8,678,909	\$10,315,128	\$12,148,188	\$24,443,805	\$0
6. Average Net Investment		\$3,661,410	\$4,144,753	\$4,433,533	\$4,913,730	\$5,484,609	\$6,095,823	\$6,690,441	\$7,376,643	\$8,240,568	\$9,497,018	\$11,232,148	\$16,296,487	\$0
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes <sup>(b)(6)</sup>		\$23,848	\$26,996	\$28,877	\$32,005	\$35,723	\$39,704	\$43,796	\$48,288	\$53,943	\$62,168	\$73,526	\$119,769	\$688,642
b. Debt Component (Line 6 x debt rate x 1/12) <sup>(b)(6)</sup>		\$4,267	\$4,830	\$5,166	\$5,726	\$6,391	\$7,103	\$7,479	\$8,246	\$9,211	\$10,616	\$12,555	\$20,452	\$102,042
8. Investment Expenses														
a. Depreciation <sup>(c)</sup>		\$301	\$300	\$300	\$300	\$301	\$301	\$301	\$301	\$301	\$301	\$301	\$305	\$3,615
b. Amortization <sup>(d)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Dismantlement <sup>(e)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Property Expenses		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Amortization TTC Solar		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Total System Recoverable Costs (Lines 7 & 8)		\$28,415	\$32,126	\$34,343	\$38,031	\$42,415	\$47,109	\$51,576	\$56,835	\$63,456	\$73,085	\$86,383	\$140,526	\$684,299

<sup>(a)</sup> Applicable beginning of period and end of period depreciable base by production plant name(s), unit(s), or plant account(s). See Form 42-8A, pages 43-46.

<sup>(b)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.8009% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8235% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity per FPSC Order No. PSC-2016-0560-AS-EI.

<sup>(c)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3844% based on rate case Order No. PSC-2016-0560-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.

<sup>(d)</sup> Applicable depreciation rate or rates. See Form 42-8A, pages 42-46.

<sup>(e)</sup> Applicable amortization period(s). See Form 42-8A, pages 43-46.

<sup>(f)</sup> Dismantlement only applies to Solar projects - DSOne, (07), NASSA (38) & Martin (39).

<sup>(g)</sup> For solar projects the return on investment calculation is comprised of two parts.

□ Average Net Investment. See footnotes (b) and (c).

□ Average Unamortized TTC Balance.

Equity Component: Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%; the monthly Equity Component for the Jan. - Jun. 2017 actual period of 6.430% reflects a 10.55% return on equity and the monthly Equity Component for the Jul. - Dec. 2017 actual period of 6.557% reflects a 10.55% return on equity.

□ Debt Component: For the Jan. - Jun. 2017 actual period return of 1.786%, and for the Jul. - Dec. 2017 actual period return of 1.716% is based on FPSC Order No. PSC-2016-0560-AS-EI.

FLORIDA POWER & LIGHT COMPANY  
 ENVIRONMENTAL COST RECOVERY CLAUSE  
 RETURN ON CAPITAL INVESTMENTS, DEPRECIATION AND TAXES

JANUARY 2017 THROUGH DECEMBER 2017

	Beginning of Period Amount	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Actual	October Actual	November Actual	December Actual	Total Month Amount
1. Working Capital Dr (Cr)														
a. 158,100 Allowance Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. 158,200 Allowances Withheld	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. 182,300 Other Regulatory Assets-Losses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. 254,900 Other Regulatory Liabilities-Gains	(\$5,046)	(\$4,689)	(\$4,353)	(\$4,006)	(\$3,792)	(\$3,432)	(\$3,071)	(\$2,728)	(\$2,354)	(\$1,986)	(\$1,619)	(\$1,252)	(\$885)	(\$34,177)
2. Total Working Capital	(\$5,046)	(\$4,689)	(\$4,353)	(\$4,006)	(\$3,792)	(\$3,432)	(\$3,071)	(\$2,728)	(\$2,354)	(\$1,986)	(\$1,619)	(\$1,252)	(\$885)	(\$34,177)
3. Average Net Working Capital Balance		(\$4,873)	(\$4,526)	(\$4,179)	(\$3,899)	(\$3,612)	(\$3,251)	(\$2,899)	(\$2,541)	(\$2,170)	(\$1,803)	(\$1,436)	(\$1,069)	(\$36,258)
4. Return on Average Net Working Capital Balance														
a. Equity Component grossed up for taxes <sup>(a)</sup>		(\$32)	(\$29)	(\$27)	(\$25)	(\$24)	(\$21)	(\$19)	(\$17)	(\$14)	(\$12)	(\$9)	(\$7)	(\$237)
b. Debt Component <sup>(b)</sup>		(\$66)	(\$5)	(\$5)	(\$5)	(\$4)	(\$4)	(\$3)	(\$3)	(\$2)	(\$2)	(\$2)	(\$1)	(\$42)
5. Total Return Component <sup>(a)</sup>		(\$37)	(\$35)	(\$32)	(\$30)	(\$28)	(\$25)	(\$22)	(\$19)	(\$17)	(\$14)	(\$11)	(\$8)	(\$278)
6. Expense Dr (Cr)														
a. 411,900 Gains from Dispositions of Allowances		(\$347)	(\$347)	(\$347)	(\$347)	(\$347)	(\$361)	(\$361)	(\$374)	(\$367)	(\$367)	(\$367)	(\$19,547)	(\$123,492)
b. 411,900 Losses from Dispositions of Allowances		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. 509,000 Allowance Expense		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7. Net Expense (Lines 6a+6b+6c) <sup>(a)</sup>		(\$347)	(\$347)	(\$347)	(\$347)	(\$361)	(\$361)	(\$361)	(\$374)	(\$367)	(\$367)	(\$367)	(\$19,547)	(\$123,492)
8. Total System Recoverable Expenses (Lines 5+7)		(\$384)	(\$381)	(\$379)	(\$377)	(\$389)	(\$386)	(\$383)	(\$394)	(\$384)	(\$381)	(\$378)	(\$19,555)	(\$123,771)
a. Recoverable Costs Allocated to Energy		(\$384)	(\$381)	(\$379)	(\$377)	(\$389)	(\$386)	(\$383)	(\$394)	(\$384)	(\$381)	(\$378)	(\$19,555)	(\$123,771)
b. Recoverable Costs Allocated to Demand		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9. Energy Jurisdictional Factor		94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%	94.89172%
10. Demand Jurisdictional Factor		95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%	95.04658%
11. Retail Energy-Related Recoverable Costs <sup>(a)</sup>		(\$365)	(\$362)	(\$359)	(\$357)	(\$369)	(\$366)	(\$364)	(\$374)	(\$364)	(\$361)	(\$359)	(\$13,448)	\$0
12. Retail Demand-Related Recoverable Costs <sup>(a)</sup>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13. Total Jurisdictional Recoverable Costs (Lines 11+12)		(\$365)	(\$362)	(\$359)	(\$357)	(\$369)	(\$366)	(\$364)	(\$374)	(\$364)	(\$361)	(\$359)	(\$13,448)	(\$17,448)

<sup>(a)</sup> The Gross-up factor for taxes uses 0.61425, which reflects the Federal Income Tax Rate of 35%. The monthly Equity Component for the Jan. - Jun. 2017 actual period is 4.6508% based on FPSC Order No. PSC-2016-0560-AS-EI and reflects a 10.55% return on equity, and the monthly Equity Component for the Jul. - Dec. 2017 actual period is 4.8251% based on the May 2017 ROR Surveillance Report and reflects a 10.55% return on equity, per FPSC Order No. PSC-2016-0560-AS-EI.  
<sup>(b)</sup> The Debt Component for the Jan. - Jun. 2017 actual period is 1.3884% based on rate case Order No. PSC-2016-0460-AS-EI and the Debt Component for the Jul. - Dec. 2017 actual period is 1.3413% based on the May 2017 ROR Surveillance Report.  
<sup>(c)</sup> Line 8a Times Line 9  
<sup>(d)</sup> Line 8b Times Line 10  
<sup>(e)</sup> Line 6 is Reported on Capital Schedule  
<sup>(f)</sup> Line 7 is Reported on O&M Schedule

**Florida Power & Light Company**  
**Environmental Cost Recovery Clause**  
**2017 Annual Capital Depreciation Schedule**

Project	Function	Unit	Utility	Depreciation Rate / Amortization Period	Plant Balance December 2016	Plant Balance December 2017
002-LOW NOX BURNER TECHNOLOGY	02 - Steam Generation Plant	Turkey Pt U1	31200	0.00%	-	-
<b>002-LOW NOX BURNER TECHNOLOGY Total</b>						
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Manatee Comm	31200	7.62%	65,605	65,605
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Manatee U1	31100	1.74%	56,430	56,430
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Manatee U1	31200	4.64%	558,926	424,505
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Manatee U2	31100	1.83%	56,333	56,333
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Manatee U2	31200	4.99%	599,476	468,728
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin Comm	31200	4.45%	31,632	31,632
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin Comm	31650	5-Year	58,207	58,207
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin Comm	31670	7-Year	66,897	66,897
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin U1	31100	2.68%	36,811	36,811
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin U1	31200	4.53%	533,645	338,939
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin U2	31100	2.39%	36,845	36,845
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Martin U2	31200	4.64%	529,520	335,746
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Scherer U4	31200	2.79%	515,653	515,653
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	SJRPP - Comm	31100	1.09%	43,193	43,193
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	SJRPP U1	31200	2.12%	780	780
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	SJRPP U2	31200	2.35%	780	780
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Turkey Pt Comm	31100	0.00%	-	-
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Turkey Pt Comm	31200	0.00%	-	-
003-CONTINUOUS EMISSION MONITORING	02 - Steam Generation Plant	Turkey Pt U1	31200	0.00%	-	-
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FtLauderdale Comm	34100	2.20%	58,860	58,860
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FtLauderdale Comm	34500	1.60%	34,502	34,502
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FtLauderdale GTs	34300	8.25%	10,225	10,225
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FtLauderdale U4	34300	4.11%	487,395	441,310
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FtLauderdale U5	34300	5.00%	498,340	556,314
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FitMyers U2	34300	3.46%	165,032	368,561
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	FitMyers U3 SC Peaker	34300	4.54%	2,283	141,021
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	Manatee U3	34300	3.35%	87,691	87,691
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	Martin U3	34300	4.49%	421,385	499,129
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	Martin U4	34300	3.92%	413,986	491,342
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	Martin U8	34300	3.37%	13,693	13,693
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	Sanford U4	34300	4.00%	171,843	310,021
003-CONTINUOUS EMISSION MONITORING	05 - Other Generation Plant	Sanford U5	34300	4.12%	134,809	273,035
<b>003-CONTINUOUS EMISSION MONITORING Total</b>					<b>5,690,778</b>	<b>5,822,787</b>
004-CLEAN CLOSURE EQUIVALENCY DEMONSTRATION	02 - Steam Generation Plant	Turkey Pt Comm	31100	0.00%	-	-
<b>004-CLEAN CLOSURE EQUIVALENCY DEMONSTRATION Total</b>						
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Manatee Comm	31100	3.17%	3,111,263	3,111,263
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Manatee Comm	31200	7.62%	174,543	174,543
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Manatee U1	31200	4.64%	104,845	104,845
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Manatee U2	31200	4.99%	127,429	127,429
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Martin Comm	31100	2.52%	1,462,198	1,595,770
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Martin Comm	31200	4.45%	94,329	94,329
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Martin U1	31100	2.68%	261,417	261,417
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Martin U2	31100	2.39%	85,078	85,078
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	SJRPP - Comm	31100	1.09%	42,091	42,091
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	SJRPP - Comm	31200	1.44%	2,292	2,292
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	02 - Steam Generation Plant	Turkey Pt Comm	31100	0.00%	-	-
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	05 - Other Generation Plant	FtLauderdale Comm	34200	3.09%	898,111	898,111
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	05 - Other Generation Plant	FtLauderdale GTs	34200	4.73%	584,290	584,290
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	05 - Other Generation Plant	FitMyers GTs	34200	7.84%	133,479	133,479
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	05 - Other Generation Plant	FitMyers U3 SC Peaker	34200	3.58%	18,616	18,616
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	05 - Other Generation Plant	Martin Comm	34200	2.42%	455,941	455,941
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	05 - Other Generation Plant	PEverglades GTs	34200	0.00%	-	-
005-MAINTENANCE OF ABOVE GROUND FUEL TANKS	08 - General Plant	General Plant	39000	1.50%	5,837,840	5,837,840
<b>005-MAINTENANCE OF ABOVE GROUND FUEL TANKS Total</b>					<b>13,393,764</b>	<b>13,527,336</b>
007-RELOCATE TURBINE LUBE OIL PIPING	03 - Nuclear Generation Plant	StLucie U1	32300	5.11%	31,030	31,030
<b>007-RELOCATE TURBINE LUBE OIL PIPING Total</b>					<b>31,030</b>	<b>31,030</b>
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Manatee Comm	31100	3.17%	46,882	46,882
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Manatee Comm	31670	7-Year	54,241	21,347
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Martin Comm	31600	3.79%	23,107	23,107
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Martin Comm	31650	5-Year	-	116,547
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Martin Comm	31670	7-Year	431,173	339,743
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Turkey Pt Comm	31100	0.00%	-	-
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	02 - Steam Generation Plant	Turkey Pt Comm	31670	7-Year	-	-
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	05 - Other Generation Plant	FtLauderdale Comm	34100	2.20%	363,996	363,996
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	05 - Other Generation Plant	FitMyers Comm	34650	5-Year	-	-
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	05 - Other Generation Plant	Sanford Comm	34100	2.40%	15,922	15,922
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	07 - Distribution Plant - Electric	Mass Distribution Plant	36670	2.00%	2,995	2,995
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	08 - General Plant	General Plant	39000	1.50%	4,413	4,413
008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT	08 - General Plant	General Plant	39190	3-Year	6,398	2,291
<b>008-OIL SPILL CLEANUP/RESPONSE EQUIPMENT Total</b>					<b>949,127</b>	<b>937,244</b>
010-REROUTE STORMWATER RUNOFF	03 - Nuclear Generation Plant	StLucie Comm	32100	2.25%	117,794	117,794
<b>010-REROUTE STORMWATER RUNOFF Total</b>					<b>117,794</b>	<b>117,794</b>
012-SCHERER DISCHARGE PIPELINE	02 - Steam Generation Plant	Scherer Comm	31100	1.51%	524,873	524,873
012-SCHERER DISCHARGE PIPELINE	02 - Steam Generation Plant	Scherer Comm	31200	2.23%	328,762	328,762
012-SCHERER DISCHARGE PIPELINE	02 - Steam Generation Plant	Scherer Comm	31400	2.08%	689	689
<b>012-SCHERER DISCHARGE PIPELINE Total</b>					<b>854,324</b>	<b>854,324</b>
020-WASTEWATER/STORMWATER DISCH ELIMINATION	02 - Steam Generation Plant	Martin U1	31200	4.53%	367,906	367,906
020-WASTEWATER/STORMWATER DISCH ELIMINATION	02 - Steam Generation Plant	Martin U2	31200	4.64%	403,671	403,671
<b>020-WASTEWATER/STORMWATER DISCH ELIMINATION Total</b>					<b>771,577</b>	<b>771,577</b>
021-ST.LUCIE TURTLE NETS	03 - Nuclear Generation Plant	StLucie Comm	32100	2.25%	6,909,559	6,909,559

<b>021-ST.LUCIE TURTLE NETS Total</b>						<b>6,909,559</b>	<b>6,909,559</b>
022-PIPELINE INTEGRITY MANAGEMENT	02 - Steam Generation Plant	Manatee Comm	31100	3.17%		601,217	601,217
022-PIPELINE INTEGRITY MANAGEMENT	02 - Steam Generation Plant	Martin Comm	31100	2.52%		2,271,574	2,271,574
<b>022-PIPELINE INTEGRITY MANAGEMENT Total</b>						<b>2,872,791</b>	<b>2,872,791</b>
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Manatee Comm	31100	3.17%		1,240,613	1,243,306
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Manatee Comm	31200	7.62%		33,272	33,272
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Manatee Comm	31500	2.34%		26,325	26,325
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Manatee U1	31200	4.64%		45,750	45,750
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Manatee U2	31200	4.99%		37,431	37,431
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Martin Comm	31100	2.52%		568,374	574,162
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Martin Comm	31500	3.57%		34,755	34,755
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	02 - Steam Generation Plant	Turkey Pt Comm	31100	0.00%		-	-
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	03 - Nuclear Generation Plant	StLucie U1	32300	5.11%		712,225	712,225
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	03 - Nuclear Generation Plant	StLucie U1	32400	3.20%		745,335	745,335
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	03 - Nuclear Generation Plant	StLucie U2	32300	3.86%		552,390	552,390
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	03 - Nuclear Generation Plant	Turkey Pt Comm	32100	3.13%		931,430	977,935
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtLauderdale Comm	34100	2.20%		189,219	189,219
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtLauderdale Comm	34200	3.09%		1,480,169	1,480,169
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtLauderdale Comm	34300	5.20%		28,250	28,250
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtLauderdale GTs	34100	4.18%		-	-
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtLauderdale GTs	34200	4.73%		513,250	513,250
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtMyers GTs	34100	7.40%		98,715	98,715
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtMyers GTs	34200	7.84%		629,983	629,983
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtMyers GTs	34500	7.77%		12,430	12,430
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtMyers U2	34300	3.46%		49,727	49,727
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	FtMyers U3 SC Peaker	34500	3.40%		12,430	12,430
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	Martin Comm	34100	2.24%		523,498	523,498
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	Martin U8	34200	2.70%		84,868	84,868
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	PtEverglades Comm	34200	2.90%		2,728,283	2,728,283
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	PtEverglades GTs	34100	0.00%		-	-
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	PtEverglades GTs	34200	0.00%		-	-
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	PtEverglades GTs	34500	0.00%		-	-
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	05 - Other Generation Plant	Sanford Comm	34100	2.40%		288,383	288,383
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	06 - Transmission Plant - Electric	Radial	35200	1.70%		6,946	6,946
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	06 - Transmission Plant - Electric	Transmission Plant - Electric	35200	1.70%		1,124,628	1,142,640
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	06 - Transmission Plant - Electric	Transmission Plant - Electric	35300	2.04%		177,982	177,982
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	06 - Transmission Plant - Electric	Transmission Plant - Electric	35800	1.87%		65,655	65,655
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	07 - Distribution Plant - Electric	Mass Distribution Plant	36100	1.75%		3,169,685	3,298,168
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	07 - Distribution Plant - Electric	Mass Distribution Plant	36670	2.00%		70,499	70,499
023-SPILL PREVENTION CLEAN-UP & COUNTERMEASURES	08 - General Plant	General Plant	39000	1.50%		146,691	146,691
<b>023-SPILL PREVENTION CLEAN-UP &amp; COUNTERMEASURES Total</b>						<b>16,329,193</b>	<b>16,530,675</b>
024-GAS REBURN	02 - Steam Generation Plant	Manatee U1	31200	4.64%		16,304,833	16,304,710
024-GAS REBURN	02 - Steam Generation Plant	Manatee U2	31200	4.99%		15,277,025	15,277,025
<b>024-GAS REBURN Total</b>						<b>31,581,858</b>	<b>31,581,736</b>
026-UST REPLACEMENT/REMOVAL	08 - General Plant	General Plant	39000	1.50%		115,447	115,447
<b>026-UST REPLACEMENT/REMOVAL Total</b>						<b>115,447</b>	<b>115,447</b>
028-CWA 316B PHASE II RULE	05 - Other Generation Plant	CapeCana Comm CC	34100	2.69%		766,645	766,645
<b>028-CWA 316B PHASE II RULE Total</b>						<b>766,645</b>	<b>766,645</b>
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Manatee Comm	31100	3.17%		102,052	102,052
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Manatee U1	31200	4.64%		20,059,060	20,059,060
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Manatee U1	31400	4.03%		7,240,124	7,240,124
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Manatee U2	31200	4.99%		20,461,529	20,461,529
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Manatee U2	31400	3.72%		7,905,907	7,905,907
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Martin Comm	31200	4.45%		518,275	518,275
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Martin Comm	31400	3.48%		287,258	287,258
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Martin U1	31200	4.53%		19,504,077	19,504,077
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Martin U1	31400	3.35%		7,499,710	7,499,710
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Martin U2	31200	4.64%		20,248,975	20,224,580
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Martin U2	31400	4.79%		7,477,120	7,477,120
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer Comm U3&4	31200	2.32%		2,243,194	79,730
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer U4	31100	2.30%		82,366,984	82,366,984
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer U4	31200	2.79%		254,248,896	254,475,936
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer U4	31400	1.89%		(94,224)	(94,224)
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer U4	31500	2.49%		19,615,426	19,615,426
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer U4	31600	1.88%		399,586	399,586
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	Scherer U4	31670	7-Year		12,775	12,775
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	SJRPP U1	31200	2.12%		27,744,107	27,746,239
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	SJRPP U1	31500	1.46%		446,692	446,692
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	SJRPP U1	31600	1.14%		9,138	9,138
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	SJRPP U2	31200	2.35%		26,534,954	26,534,954
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	SJRPP U2	31500	1.84%		426,220	426,220
031-CLEAN AIR INTERSTATE RULE-CAIR	02 - Steam Generation Plant	SJRPP U2	31600	1.58%		9,591	9,591
031-CLEAN AIR INTERSTATE RULE-CAIR	05 - Other Generation Plant	FtLauderdale GTs	34300	8.25%		110,242	110,242
031-CLEAN AIR INTERSTATE RULE-CAIR	05 - Other Generation Plant	FtMyers GTs	34300	8.22%		57,855	57,855
031-CLEAN AIR INTERSTATE RULE-CAIR	05 - Other Generation Plant	Martin Comm	34100	2.24%		763,350	699,143
031-CLEAN AIR INTERSTATE RULE-CAIR	05 - Other Generation Plant	Martin Comm	34300	2.56%		244,343	244,343
031-CLEAN AIR INTERSTATE RULE-CAIR	05 - Other Generation Plant	Martin Comm	34500	2.04%		292,499	292,499
031-CLEAN AIR INTERSTATE RULE-CAIR	05 - Other Generation Plant	PtEverglades GTs	34300	0.00%		-	-
031-CLEAN AIR INTERSTATE RULE-CAIR	07 - Distribution Plant - Electric	Mass Distribution Plant	36500	2.57%		411,775	1,313
<b>031-CLEAN AIR INTERSTATE RULE-CAIR Total</b>						<b>527,147,489</b>	<b>524,714,132</b>
033-CLEAN AIR MERCURY RULE-CAMR	02 - Steam Generation Plant	Scherer Comm U3&4	31200	2.32%		(1,234,033)	(1,234,039)
033-CLEAN AIR MERCURY RULE-CAMR	02 - Steam Generation Plant	Scherer U4	31200	2.79%		108,641,809	108,641,809
033-CLEAN AIR MERCURY RULE-CAMR	02 - Steam Generation Plant	SJRPP U1	31200	2.12%		70,087	70,087
033-CLEAN AIR MERCURY RULE-CAMR	02 - Steam Generation Plant	SJRPP U2	31200	2.35%		18,075	18,075
<b>033-CLEAN AIR MERCURY RULE-CAMR Total</b>						<b>107,495,938</b>	<b>107,495,932</b>
035-MARTIN PLANT DRINKING WATER COMP	02 - Steam Generation Plant	Martin Comm	31100	2.52%		235,391	235,391
<b>035-MARTIN PLANT DRINKING WATER COMP Total</b>						<b>235,391</b>	<b>235,391</b>
036-LOW LEV RADI WSTE-LLW	03 - Nuclear Generation Plant	StLucie Comm	32100	2.25%		7,601,405	7,601,405
036-LOW LEV RADI WSTE-LLW	03 - Nuclear Generation Plant	Turkey Pt Comm	32100	3.13%		9,855,399	9,855,399
<b>036-LOW LEV RADI WSTE-LLW Total</b>						<b>17,456,804</b>	<b>17,456,804</b>

037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34000	0.00%	255,507	255,507
037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34100	3.49%	5,265,937	5,264,052
037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34300	3.36%	115,297,818	115,292,510
037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34500	3.65%	26,746,246	26,746,246
037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34630	3-Year	1,886	8,469
037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34650	5-Year	36,693	50,315
037-DE SOTO SOLAR PROJECT	05 - Other Generation Plant	Desoto Solar	34670	7-Year	126,709	161,143
037-DE SOTO SOLAR PROJECT	06 - Transmission Plant - Electric	TransGeneratorLead	35300	2.04%	308,244	308,244
037-DE SOTO SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35200	1.70%	7,427	7,427
037-DE SOTO SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35300	2.04%	695,782	695,782
037-DE SOTO SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35310	2.64%	1,728,419	1,695,869
037-DE SOTO SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35500	2.32%	394,418	394,418
037-DE SOTO SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35600	2.38%	191,358	191,358
037-DE SOTO SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36100	1.75%	540,994	540,994
037-DE SOTO SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36200	1.90%	1,919,623	1,890,938
037-DE SOTO SOLAR PROJECT	08 - General Plant	General Plant	39220	10.00%	28,426	28,426
037-DE SOTO SOLAR PROJECT	08 - General Plant	General Plant	39720	7-Year	21,238	-
<b>037-DE SOTO SOLAR PROJECT Total</b>					<b>153,566,725</b>	<b>153,531,698</b>
038-SPACE COAST SOLAR PROJECT	01 - Intangible Plant	Intangible Plant	30300	various	6,359,027	6,359,027
038-SPACE COAST SOLAR PROJECT	05 - Other Generation Plant	Space Coast Solar	34100	3.45%	3,893,856	3,889,496
038-SPACE COAST SOLAR PROJECT	05 - Other Generation Plant	Space Coast Solar	34300	3.30%	51,550,587	51,550,587
038-SPACE COAST SOLAR PROJECT	05 - Other Generation Plant	Space Coast Solar	34500	3.51%	6,126,699	6,126,699
038-SPACE COAST SOLAR PROJECT	05 - Other Generation Plant	Space Coast Solar	34630	3-Year	-	-
038-SPACE COAST SOLAR PROJECT	05 - Other Generation Plant	Space Coast Solar	34650	5-Year	35,202	35,202
038-SPACE COAST SOLAR PROJECT	05 - Other Generation Plant	Space Coast Solar	34670	7-Year	51,560	14,106
038-SPACE COAST SOLAR PROJECT	06 - Transmission Plant - Electric	TransGeneratorLead	35300	2.04%	789,138	789,138
038-SPACE COAST SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35300	2.04%	139,391	139,391
038-SPACE COAST SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35310	2.64%	1,328,699	1,328,699
038-SPACE COAST SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36100	1.75%	274,858	274,858
038-SPACE COAST SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36200	1.90%	62,689	62,689
038-SPACE COAST SOLAR PROJECT	08 - General Plant	General Plant	39220	10.00%	31,858	31,858
038-SPACE COAST SOLAR PROJECT	08 - General Plant	General Plant	39720	7-Year	6,741	-
<b>038-SPACE COAST SOLAR PROJECT Total</b>					<b>70,650,306</b>	<b>70,601,750</b>
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34000	0.00%	216,844	216,844
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34100	2.99%	20,746,646	20,745,276
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34300	2.88%	395,612,998	397,113,924
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34500	2.99%	4,125,204	4,122,852
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34600	2.85%	1,299	1,299
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34650	5-Year	11,178	11,178
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin Solar	34670	7-Year	81,460	134,433
039-MARTIN SOLAR PROJECT	05 - Other Generation Plant	Martin U8	34300	3.37%	423,126	423,126
039-MARTIN SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35500	2.32%	603,692	603,692
039-MARTIN SOLAR PROJECT	06 - Transmission Plant - Electric	Transmission Plant - Electric	35600	2.38%	364,159	364,159
039-MARTIN SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36400	0.00%	9,282	-
039-MARTIN SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36660	1.42%	94,476	94,476
039-MARTIN SOLAR PROJECT	07 - Distribution Plant - Electric	Mass Distribution Plant	36760	1.96%	2,728	2,728
039-MARTIN SOLAR PROJECT	08 - General Plant	General Plant	39220	10.00%	121,101	121,101
039-MARTIN SOLAR PROJECT	08 - General Plant	General Plant	39240	2.63%	332,682	332,682
039-MARTIN SOLAR PROJECT	08 - General Plant	General Plant	39290	4.99%	88,938	88,938
039-MARTIN SOLAR PROJECT	08 - General Plant	General Plant	39420	7-Year	13,666	13,666
039-MARTIN SOLAR PROJECT	08 - General Plant	General Plant	39720	7-Year	4,442	4,442
<b>039-MARTIN SOLAR PROJECT Total</b>					<b>422,853,922</b>	<b>424,394,815</b>
041-PRV MANATEE HEATING SYSTEM	02 - Steam Generation Plant	PEEverglades Comm	31400	42 mos.	-	-
041-PRV MANATEE HEATING SYSTEM	05 - Other Generation Plant	CapeCanaveral Comm	34300	0.00%	4,042,459	4,042,459
041-PRV MANATEE HEATING SYSTEM	06 - Transmission Plant - Electric	Transmission Plant - Electric	35300	various	276,404	276,404
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36100	various	73,267	73,267
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36200	various	472,661	471,542
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36400	0.00%	225,952	-
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36410	various	137,247	137,247
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36420	various	36,431	36,431
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36500	various	307,599	307,599
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36660	various	221,326	221,326
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36760	various	168,995	168,995
041-PRV MANATEE HEATING SYSTEM	07 - Distribution Plant - Electric	Mass Distribution Plant	36910	various	607	607
041-PRV MANATEE HEATING SYSTEM	08 - General Plant	General Plant	39720	7-Year	16,244	-
<b>041-PRV MANATEE HEATING SYSTEM Total</b>					<b>5,805,515</b>	<b>5,735,878</b>
042-PTN COOLING CANAL MONITORING SYS	03 - Nuclear Generation Plant	Turkey Pt Comm	32100	3.13%	17,170,089	17,066,101
<b>042-PTN COOLING CANAL MONITORING SYS Total</b>					<b>17,170,089</b>	<b>17,066,101</b>
044-Barley Barber Swamp Iron Mitiga	02 - Steam Generation Plant	Martin Comm	31100	2.52%	164,719	164,719
<b>044-Barley Barber Swamp Iron Mitiga Total</b>					<b>164,719</b>	<b>164,719</b>
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee Comm	31200	7.62%	155,747	155,747
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee U1	31200	4.64%	44,989,219	44,989,219
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee U1	31500	4.11%	4,524,074	4,524,074
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee U1	31600	3.91%	1,021,918	1,021,918
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee U2	31200	4.99%	51,910,750	51,910,750
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee U2	31500	4.48%	4,793,798	4,793,798
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Manatee U2	31600	4.79%	1,071,311	1,071,311
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Martin U1	31200	4.53%	47,161,912	47,137,592
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Martin U1	31500	3.12%	4,322,420	4,322,420
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Martin U1	31600	3.81%	1,006,508	1,012,007
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Martin U2	31200	4.64%	48,464,683	48,445,547
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Martin U2	31500	3.56%	4,449,156	4,449,270
045-800 MW UNIT ESP PROJECT	02 - Steam Generation Plant	Martin U2	31600	4.31%	1,034,718	1,070,760
<b>045-800 MW UNIT ESP PROJECT Total</b>					<b>214,906,214</b>	<b>214,904,413</b>
054-Coal Combustion Residuals	02 - Steam Generation Plant	Scherer Comm	31100	1.51%	200,216	204,391
054-Coal Combustion Residuals	02 - Steam Generation Plant	SJRPP - Comm	31100	1.09%	54,373	56,167
<b>054-Coal Combustion Residuals Total</b>					<b>254,590</b>	<b>260,558</b>

**FLORIDA POWER & LIGHT COMPANY  
 COST RECOVERY CLAUSES**

Equity @ 10.55%	CAPITAL STRUCTURE AND COST RATES PER 2017 TEST YEAR RATE CASE KO-20 EXHIBIT @ 10.55% ROE				
	ADJUSTED RETAIL	RATIO	MIDPOINT COST RATES	WEIGHTED COST	PRE-TAX WEIGHTED COST
LONG_TERM_DEBT	9,420,954,129	29.025%	4.60%	1.33%	1.33%
SHORT_TERM_DEBT	512,545,348	1.579%	1.99%	0.03%	0.03%
PREFERRED_STOCK	0	0.000%	0.00%	0.00%	0.00%
CUSTOMER_DEPOSITS	414,102,244	1.276%	2.04%	0.03%	0.03%
COMMON_EQUITY	14,704,264,823	45.303%	10.55%	4.78%	7.78%
DEFERRED_INCOME_TAX	7,297,546,484	22.483%	0.00%	0.00%	0.00%
INVESTMENT_TAX_CREDITS ZERO COST	0	0.000%	0.00%	0.00%	0.00%
WEIGHTED COST	108,530,479	0.334%	8.23%	0.03%	0.04%
<b>TOTAL</b>	<b>\$32,457,943,507</b>	<b>100.00%</b>		<b>6.1993%</b>	<b>9.21%</b>

	CALCULATION OF THE WEIGHTED COST FOR CONVERTIBLE INVESTMENT TAX CREDITS (C-ITC) (a)				
	ADJUSTED RETAIL	RATIO	COST RATE	WEIGHTED COST	PRE TAX COST
LONG TERM DEBT	\$9,420,954,129	39.05%	4.599%	1.796%	1.796%
PREFERRED STOCK	0	0.00%	0.000%	0.000%	0.000%
COMMON EQUITY	14,704,264,823	60.95%	10.550%	6.430%	10.468%
<b>TOTAL</b>	<b>\$24,125,218,952</b>	<b>100.00%</b>		<b>8.226%</b>	<b>12.264%</b>
<b>RATIO</b>					

DEBT COMPONENTS:	
LONG TERM DEBT	1.3349%
SHORT TERM DEBT	0.0314%
CUSTOMER DEPOSITS	0.0261%
TAX CREDITS -WEIGHTED	0.0060%
<b>TOTAL DEBT</b>	<b>1.3984%</b>

EQUITY COMPONENTS:	
PREFERRED STOCK	0.0000%
COMMON EQUITY	4.7794%
TAX CREDITS -WEIGHTED	0.0215%
<b>TOTAL EQUITY</b>	<b>4.8009%</b>
<b>TOTAL</b>	<b>6.1993%</b>
PRE-TAX EQUITY	7.8159%
PRE-TAX TOTAL	9.2143%

**Note:**  
 (a) This capital structure applies only to  
 Convertible Investment Tax Credit (C-ITC)



FLORIDA POWER & LIGHT COMPANY  
 COST RECOVERY CLAUSES

Equity @ 10.55%

CAPITAL STRUCTURE AND COST RATES PER MAY 2017 EARNINGS SURVEILLANCE REPORT						
	ADJUSTED RETAIL	RATIO	MIDPOINT COST RATES	WEIGHTED COST	PRE-TAX WEIGHTED COST	
LONG_TERM_DEBT	8,578,170,782	27.773%	4.53%	1.26%	1.26%	
SHORT_TERM_DEBT	876,957,343	2.839%	1.76%	0.05%	0.05%	
PREFERRED_STOCK	0	0.000%	0.00%	0.00%	0.00%	
CUSTOMER_DEPOSITS	421,323,778	1.364%	2.09%	0.03%	0.03%	
COMMON_EQUITY	14,087,418,183	45.610%	10.55%	4.81%	7.83%	
DEFERRED_INCOME_TAX	6,860,621,618	22.212%	0.00%	0.00%	0.00%	
INVESTMENT_TAX_CREDITS ZERO COST	0	0.000%	0.00%	0.00%	0.00%	
WEIGHTED COST	62,115,684	0.201%	8.27%	0.02%	0.02%	
<b>TOTAL</b>	<b>\$30,886,607,389</b>	<b>100.00%</b>		<b>6.17%</b>	<b>9.20%</b>	

CALCULATION OF THE WEIGHTED COST FOR CONVERTIBLE INVESTMENT TAX CREDITS (C-ITC) (a)						
	ADJUSTED RETAIL	RATIO	COST RATE	WEIGHTED COST	PRE TAX COST	
LONG TERM DEBT	\$8,578,170,782	37.85%	4.534%	1.716%	1.716%	
PREFERRED STOCK	0	0.00%	0.000%	0.000%	0.000%	
COMMON EQUITY	14,087,418,183	62.15%	10.550%	6.557%	10.675%	
<b>TOTAL</b>	<b>\$22,665,588,966</b>	<b>100.00%</b>		<b>8.273%</b>	<b>12.391%</b>	
<b>RATIO</b>						

DEBT COMPONENTS:

LONG TERM DEBT	1.2592%
SHORT TERM DEBT	0.0501%
CUSTOMER DEPOSITS	0.0285%
TAX CREDITS -WEIGHTED	0.0035%
<b>TOTAL DEBT</b>	<b>1.3413%</b>

EQUITY COMPONENTS:

PREFERRED STOCK	0.0000%
COMMON EQUITY	4.8119%
TAX CREDITS -WEIGHTED	0.0132%
<b>TOTAL EQUITY</b>	<b>4.8251%</b>
<b>TOTAL</b>	<b>6.1663%</b>
PRE-TAX EQUITY	7.8552%
PRE-TAX TOTAL	9.1965%

Note:

(a) This capital structure applies only to Convertible Investment Tax Credit (C-ITC)

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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**FLORIDA POWER & LIGHT COMPANY**

**TESTIMONY OF MICHAEL W. SOLE**

**DOCKET NO. 20180007-EI**

**APRIL 2, 2018**

**Q. Please state your name and address.**

A. My name is Michael W. Sole and my business address is 700 Universe Boulevard, Juno Beach, Florida 33408.

**Q. By whom are you employed and in what capacity?**

A. I am employed by NextEra Energy, Inc. (“NEE”) as Vice President of Environmental Services.

**Q. Please describe your educational background and professional experience.**

A. I received a Bachelor’s of Science degree in Marine Biology from the Florida Institute of Technology in 1986. I served as an Officer in the United States Marine Corps from 1985 through 1990 attaining the rank of Captain. I was employed by the Florida Department of Environmental Protection (“FDEP”) in multiple roles from 1990 to 2010 and served as the Secretary of the FDEP from 2007-2010. I have been employed by Florida Power & Light Company (“FPL” or the “Company”), or its affiliate NextEra Energy Resources, in multiple roles since 2010. Since November 2016, I have held the position of

1 Vice President of Environmental Services. In that role, I have overall  
2 responsibility for environmental, licensing, and compliance efforts for the  
3 Company. In May 2017, I was appointed by Governor Scott to the Florida  
4 Fish and Wildlife Conservation Commission (“FWC”).

5 **Q. What is the purpose of your testimony in this proceeding?**

6 A. The purpose of my testimony is to present for Commission review and  
7 approval modification of two existing, approved projects: the Manatee  
8 Temporary Heating System (“MTHS”) and the National Pollutant Discharge  
9 Elimination System (“NPDES”) Permit Renewal Requirements. Additionally,  
10 I will provide an update on the Turkey Point Cooling Canal Monitoring Plan  
11 (“TPCCMP”) Project.

12 **Q. Have you prepared, or caused to be prepared under your direction,  
13 supervision, or control, any exhibits in this proceeding?**

14 A. Yes, I am sponsoring the following exhibits:

- 15 • Exhibit MWS-1 - Supplemental CAIR/CAMR/CAVR Filing
- 16 • Exhibit MWS-2 - Conceptual Location of Fort Myers Plant Manatee  
17 Heating System
- 18 • Exhibit MWS-3 - FDEP NPDES Permit for PFM
- 19 • Exhibit MWS-4 - PFM Manatee Protection Plan
- 20 • Exhibit MWS-5 - Environmental Protection Division of the Georgia  
21 Department of Natural Resources Permit NPDES Permit Number  
22 GA00035564 for Plant Scherer

- 1 • Exhibit MWS-6 - Application for EPD NPDES Permit GA00035564
- 2 Renewal for Plant Scherer
- 3 • Exhibit MWS-7 - Letter from Georgia Power to Plant Scherer Co-Owners
- 4

5 **Manatee Temporary Heating System Project**

6

7 **Q. Please describe FPL’s currently approved MTHS Project.**

8 A. On April 13, 2009, FPL petitioned the Commission for approval of the

9 MTHS Project, which involved the installation of an electric heating system

10 at its Riviera Plant, in order to provide a manatee refuge by discharging warm

11 water when necessary into the manatee embayment area during the plant’s

12 conversion to the Riviera Beach Next Generation Clean Energy Center

13 (“RBEC”). On August 28, 2009, FPL petitioned the Commission to expand

14 the proposed MTHS Project to include FPL’s Cape Canaveral Plant during its

15 conversion to the Cape Canaveral Next Generation Clean Energy Center

16 (“CCEC”). The MTHS Project at Riviera and Cape Canaveral was approved

17 by Order No. PSC-2009-0759-FOF-EI.

18

19 On January 13, 2012, FPL petitioned the Commission to expand the MTHS

20 Project to include a MTHS at its Port Everglades Plant during its conversion

21 to the Port Everglades Next Generation Clean Energy Center (“PEEC”). This

1 expansion of the existing MTHS Project was approved by Order No. PSC-  
2 2012-0613-FOF-EI.

3  
4 On July 19, 2017, FPL petitioned the Commission to expand the MTHS  
5 Project to include a MTHS at its Ft. Lauderdale Plant during its conversion to  
6 the Dania Beach Clean Energy Center (“DBEC”). This expansion was  
7 approved by Order No. PSC-2018-0014-FOF-EI.

8  
9 On February 12, 2018, FPL petitioned the Commission for approval to  
10 modify the MTHS Project to include the installation of an MTHS at Fort  
11 Myers Plant (“PFM”) in 2018. As explained further in this testimony, the  
12 MTHS will ensure compliance with the Manatee Protection Plan (“MPP”) by  
13 providing a manatee refuge when necessary by discharging warm water into  
14 the discharge canal at PFM.

15 **Q. Please briefly describe FPL’s proposed expansion of the MTHS Project**  
16 **at PFM.**

17 A. A MTHS much like the system currently in place at CCEC will be installed at  
18 PFM. A conceptual location of the MTHS at PFM is included as Exhibit  
19 MWS-2. The MTHS would be used during manatee season, which spans  
20 from November 15 to March 31, whenever the water temperature in the PFM  
21 intake canal drops below 61°F and PFM is either shut down for outages or is  
22 not being economically dispatched. At these times, the PFM MTHS will help

- 1 ensure that the manatee refuge is maintained.
- 2 **Q. Please describe the environmental laws or regulations requiring FPL’s**  
3 **proposed activities at PFM.**
- 4 A. FPL is proposing to expand the MTHS Project to include PFM in order to  
5 comply with PFM’s MPP, which is Specific Condition I.D.10 to the NPDES  
6 Permit Number FL0001490, issued by the FDEP for PFM on January 20,  
7 2016. Specific Condition I.D.10 to the NPDES Permit states that “the  
8 permittee shall continue compliance with the facility’s Manatee Protection  
9 Plan approved by the Department on August 18, 1999.” The NPDES Permit  
10 containing Specific Condition I.D.10 is attached as Exhibit MWS-3. FPL’s  
11 PFM MPP is attached as Exhibit MWS-4. Please note that the MPP refers to  
12 “Specific Condition 14” which has been renumbered as Specific Condition  
13 I.D.10 in the current NPDES Permit.
- 14 **Q. Typically, how many manatees can be found in the discharge canal and**  
15 **Orange River in the vicinity of PFM and the PFM warm water refuge?**
- 16 A. Aerial surveys for manatees have been conducted by Mote Marine Laboratory  
17 on behalf of FPL for decades. Over the past five years, the number of  
18 manatees that have been observed at various times in the vicinity of the PFM  
19 discharge canal has ranged from 77 to 434.
- 20 **Q. How did FPL comply with the MPP in the past?**
- 21 A. Historically, FPL provided warm water in support of the MPP by releasing  
22 once-through cooling water from the existing oil and gas-fired steam units at

1 PFM into the discharge canal.

2 **Q. Why does FPL now need an additional heating source for PFM?**

3 A. PFM was repowered in 2003 with what was highly efficient combined cycle  
4 technology for the time. As part of the MPP that was approved on August 18,  
5 1999, and is implemented via PFM's NPDES permit, FPL is obligated to  
6 maintain a warm water manatee refuge if the water temperature at the PFM's  
7 cooling water discharge falls below 61°F.

8  
9 Until recently, FPL has not needed to have a MTHS at PFM because the plant  
10 routinely operated during the manatee season and thus the plant's regular  
11 cooling water discharges provided a sufficient and consistent supply of warm  
12 water. For the reasons described below, however, FPL cannot continue to  
13 rely solely on the plant's regular cooling water discharges to meet the permit  
14 requirement for a warm water manatee refuge.

15  
16 Over the past two decades, FPL has embarked on a concerted program of  
17 upgrading its fossil power plant fleet, constructing state-of-the-art combined  
18 cycle units at its Turkey Point, Martin, Manatee, West County, Cape  
19 Canaveral, Riviera and Port Everglades plant sites. Similar units are planned  
20 to go into service in 2019 and 2022 at Okeechobee and Ft. Lauderdale plant  
21 sites, respectively. With each successive generation of combined cycle  
22 technology, the efficiency has continued to improve, resulting in \$9.3 billion

1 in fuel savings for customers and over 120 million tons of carbon dioxide  
2 emissions avoided. The addition of these highly efficient combined cycle  
3 units has had two consequences for PFM that are now requiring the addition  
4 of an MTHS at the site.

5  
6 First, combined cycle units need significant routine maintenance. Until now,  
7 FPL has been able to schedule the maintenance for PFM outside of the  
8 manatee season so that it would be able to rely on the plant's normal cooling  
9 water discharge to provide a warm water manatee refuge without the need for  
10 an MTHS. The upgrades at other plant sites discussed above have resulted in  
11 both a significant increase in the number of combined cycle units requiring  
12 routine maintenance and a significant decrease in the number of smaller units  
13 with individual steam turbines that can remain in operation to provide warm  
14 water for manatees. For example, prior to 2013, the predecessor plant to the  
15 CCEC facility consisted of two individual steam units which allowed one  
16 steam unit to be idled for maintenance activities while allowing the other to  
17 continue operating and thus providing warm water discharges. After 2013,  
18 the new plant consists of three combustion turbines with heat recovery steam  
19 generators that provide steam to a single steam turbine. When the CCEC  
20 plant is taken out of service today, the single steam turbine is idled and thus  
21 no cooling water discharge is available to provide warm water for manatees.

22



1 The same situation is true for RBEC and PEEC. The size of FPL's combined  
2 cycle fleet and the reduction in the number of small, single units that can be  
3 taken out of service separately for maintenance outages has now reached the  
4 point that FPL can no longer ensure that the PFM outages are sequenced  
5 outside of manatee season.

6  
7 Second, improvements in the efficiency of FPL's fossil fuel fleet since the  
8 time that PFM was repowered have pushed PFM down the dispatch stack to  
9 the point that FPL can no longer be confident that it will be dispatched  
10 regularly and for sustained periods during winter months. When PFM was  
11 first repowered, it was one of the most efficient and economical units in  
12 FPL's fleet, and as such, it would be dispatched routinely even during periods  
13 of relatively low winter-time load. Now, the more recent combined cycle  
14 units are more efficient and are dispatched before PFM, with the result that  
15 there may be extended periods during manatee season when PFM would not  
16 be dispatched to meet load and thus would not be producing a cooling water  
17 discharge that could maintain the necessary warm water manatee refuge.

18 **Q. Could FPL run PFM out of dispatch in order to provide a warm water**  
19 **refuge when needed?**

20 A. That could be done if the plant were not in an outage, but of course it would  
21 not eliminate the need for an MTHS during planned and unplanned outages.  
22 Furthermore, running the plant out of dispatch could be very costly. While

1 FPL's use of the MTHS at PFM will be seasonal or sporadic, the need for that  
2 MTHS will continue indefinitely. Based on the frequency of events for the  
3 past ten years where water temperature was below 62°F during manatee  
4 season (i.e., the temperature at which FPL would have to start PFM in order  
5 to provide a timely warm water manatee refuge), the annual fuel and other  
6 operating and maintenance expenses of running PFM out of dispatch are  
7 estimated to range from \$350,000 in an average year to more than \$1 million  
8 in a worst case year.

9 **Q. Did FPL anticipate that it would need an MTHS for PFM at the time**  
10 **that it prepared the Minimum Filing Requirements for its 2016 rate**  
11 **case?**

12 A. No. Those MFRs were prepared in late 2015 and early 2016. The  
13 cumulative impact of the factors discussed above on FPL's ability to rely on  
14 operating PFM to provide a warm water refuge has become apparent only in  
15 the last year or so.

16 **Q. Please describe the MTHS that is proposed for PFM.**

17 A. The installation of the MTHS at PFM is a two-stage process. During the  
18 2017-2018 manatee seasons and during construction of the fixed electric  
19 heating system that will be used in the future, FPL leased mobile, diesel-  
20 burning boilers capable of providing 17 MMBtu/hr of thermal energy that  
21 will provide warm water during scheduled or unscheduled plant outages.

22

1           The mobile diesel-fueled system will allow FPL to meet the permit  
2 requirements in the short term, but such systems are difficult to operate  
3 reliably over longer periods. Therefore, for the second stage FPL will install  
4 a fixed electric MTHS that will be used in future years. The fixed electric  
5 MTHS will consist of three heaters in parallel. Under normal circumstances  
6 two of these permanent heaters will be operated when required, and will  
7 produce 17-20 MMBtu/hr thermal energy to heat the water in manatee refuge  
8 area. Under extremely cold conditions, the third heater can be operated to  
9 supply a maximum of 30 MMBtu/hr of thermal energy. In addition to the  
10 heaters, the MTHS will include an associated pumping system, piping, and  
11 electrical equipment. The intake piping and pump systems will be installed  
12 in the discharge canal near the northern end of helper cooling towers (see  
13 Exhibit MWS-2). Water from the discharge canal will be pumped through  
14 the fixed electric heater and discharged into the northern portion of the  
15 discharge canal when the ambient water temperature falls below a specified  
16 trigger temperature. The water depth in this area is approximately 10 feet.  
17 The proposed MTHS has been modeled to provide approximately 0.7 acres of  
18 water at or above 68°F during the conditions under which the MPP requires  
19 that FPL endeavor to provide heated water for manatee protection.

20 **Q.   How did FPL determine the size of the required MTHS?**

21 A.   To determine the size of the heater required to comply with the MPP  
22 requirement, FPL retained an environmental services firm to perform

1 computer modeling of the minimum thermal output needed to generate and  
2 maintain a warm water refuge consistent with the U.S. Fish & Wildlife  
3 Service and FWC size guidance. FPL utilized its experience with the MTHS  
4 at CCEC, RBEC and PEEC to refine the preliminary design basis for the  
5 MTHS at PFM.

6 **Q. Why does the PFM MTHS need to be installed in 2018?**

7 A. FPL commenced a maintenance outage at PFM on March 5, 2018, which is  
8 within the manatee season. FPL needed to be prepared for the possibility of  
9 cold weather during the outage that would require an MTHS to meet the  
10 permit requirement for a warm water manatee refuge. In order for FPL to  
11 provide warm water during the March 2018 outage, the mobile diesel-burning  
12 heaters were rented and temporarily installed at the site. To provide warm  
13 water during outages occurring in future manatee seasons, FPL is purchasing  
14 and installing the proposed fixed electric MTHS at the site.

15 **Q. Has FPL estimated the capital cost of the proposed PFM MTHS?**

16 A. Yes. The total estimated capital cost for the PFM MTHS is \$5 million. This  
17 estimate includes expenditures for the equipment, design and engineering of  
18 the system, labor for installation, and interconnection to the FPL power  
19 system and is expected to be spent in 2018 and 2019.

20 **Q. What O&M costs will be associated with the proposed PFM MTHS?**

21 A. FPL estimates that it has incurred \$250,000 of O&M expenses associated  
22 with the cost of the temporary mobile diesel-burning heater, from the

1 February 12, 2018 date that the petition to amend the MTHS Project was filed  
2 through March 31, the end of the 2017-2018 manatee season.

3  
4 FPL estimates O&M costs of \$30,000 per year through the life of the  
5 proposed fixed electric MTHS. These projected O&M costs do not include  
6 the electrical costs to operate the MTHS. FPL cannot predict how often the  
7 system will operate but does not expect the electrical costs to be significant.  
8 Therefore, FPL is not seeking recovery through the ECRC process for the  
9 electrical costs.

10 **Q. Please describe the measures FPL is taking to ensure that costs of the**  
11 **MTHS Project at PFM are reasonable and prudently incurred.**

12 A. FPL's Power Generation Division ("PGD") projects team designed the  
13 MTHS from experience and lessons learned during installations of similar  
14 systems at PEEC, RBEC, DBEC and CCEC. This will ensure a cost-  
15 effective design and equipment selection process. A few examples of lessons  
16 learned include 1) critical review of the warm water refuge thermal loss  
17 mechanisms, including use of a thermal model that divides the refuge into at  
18 least six cells and accounts for tidal exchange, advection and convective  
19 flows between cells and at the refuge entrance, 2) optimization of the  
20 temporary refuge design such as locating the heated water discharge at a  
21 depth which promotes uniform distribution of warm water and the  
22 withdrawal at the opposite end of the refuge enhances mixing, 3)

1 optimization of the warm water refuge size to provide only the necessary area  
2 of heated water for the expected number of manatees at PFM, and  
3 4) coordination of electrical service for the PFM MTHS with the plant  
4 upgrade construction plans and schedule, in order to maximize use of existing  
5 transformers and electrical feeds.

6  
7 Using a performance specification for the PFM MTHS equipment that meets  
8 all of FPL's requirements, FPL's Integrated Supply Chain ("ISC") group will  
9 solicit bids from multiple suppliers to determine the source providing the  
10 overall best value. The ISC group provides enterprise-wide leadership,  
11 direction, and operation of a fully integrated supply chain supporting the  
12 procurement, materials management, and logistic needs of FPL and the  
13 MTHS Project at PFM. ISC's objective is to drive down costs to FPL and  
14 ensure the delivery of the highest quality goods and services. Well-  
15 established corporate policies and procedures dictate that for the MTHS  
16 Project at PFM, the materials supply contract and the construction contract  
17 will be competitively sourced.

18  
19 FPL's PGD projects team has established a scope, budget, and schedule to  
20 meet the needs of the PFM MTHS. Project Controls is also responsible for  
21 tracking all MTHS Project costs through various approval processes,  
22 procedures, and databases.

1 **Q. Is FPL recovering through any other mechanism the costs for the MTHS**  
2 **Project at PFM for which it is petitioning for ECRC recovery?**

3 A. No.

4

5 **Modification to National Pollutant Discharge Elimination System**

6 **(“NPDES”) Permit Renewal Requirements Project**

7

8 **Q. Please describe FPL’s approved NPDES Permit Renewal Requirements**  
9 **Project.**

10 A. The Federal Clean Water Act requires all point source discharges to  
11 navigable waters from industrial facilities to obtain permits under the NPDES  
12 program. Affected facilities are required to apply for renewal of the five-year  
13 duration NPDES permits prior to their expiration.

14

15 By Order No. PSC-2011-0553-FOF-EI issued in Docket No. 20110007-EI on  
16 December 7, 2011, the Commission approved FPL’s NPDES Permit Renewal  
17 Requirements Project to recover costs associated with new requirements for  
18 whole effluent toxicity monitoring and reporting, as well as for preparing  
19 Storm Water Pollution Prevention Plans that were contained in the then-latest  
20 renewals for FPL’s NPDES permits.

21

1 With one exception, all of FPL's power plants are located in Florida and  
2 therefore already are part of the NPDES Permit Renewal Requirements  
3 Project. The one exception is FPL's ownership interest in Plant Scherer Unit  
4 4.

5 **Q. Please briefly describe FPL's proposed expansion of the NPDES Permit**  
6 **Renewal Requirements Project at Plant Scherer.**

7 A. Due to circumstances described below, Plant Scherer will be replacing the  
8 packing material inside the Unit 4 cooling tower in order for the Plant to  
9 ensure compliance with anticipated NPDES permit conditions.

10 **Q. Please describe the law or regulation requiring the NPDES Permit**  
11 **Renewal Requirements Project.**

12 A. All of FPL's power plants that discharge to navigable waters are subject to  
13 the Federal Clean Water Act's NPDES program. Pursuant to the EPA's  
14 approval, the Georgia Environmental Protection Division ("EPD")  
15 implements the NPDES permitting program in Georgia.

16 **Q. What regulatory compliance action does FPL anticipate will be required**  
17 **at Plant Scherer as a result of the NPDES permit renewal?**

18 A. Under the NPDES program, wastewater discharges from Plant Scherer  
19 cannot cause a water body to exceed Georgia's Water Quality Standards  
20 ("WQS"). Georgia's WQS for copper in the Ocmulgee River, which is found  
21 in Rule 391-3-6.03 (5)(e)(ii)5, is 5 parts per billion ("ppb"). As established  
22 in Rule 391-3-6.06 (4)(d)5(ii) of the Georgia Rules and Regulations, if a



1 chemical constituent listed in the WQS is present in an effluent stream, an  
2 effluent limit may be required. Copper is one of those constituents. The limit  
3 for copper in the Plant Scherer effluent is based on the following equation:

4 
$$\text{Effluent limit} = \text{criteria concentration} \times \text{dilution factor.}$$

5 The dilution factor is calculated by determining the ratio of the effluent  
6 volume to the receiving stream (Ocmulgee River) flow.

7  
8 In the case of Plant Scherer, the calculated limit is approximately 60 ppb at  
9 the point of discharge from the collection basin for the Plant Scherer cooling  
10 towers. On January 30, 2018, Plant Scherer submitted an updated NPDES  
11 permit renewal application (see Exhibit MWS-6). Recent testing and  
12 monitoring of the effluent from Plant Scherer's cooling tower basin (referred  
13 to as the "NPDES Collection Basin") revealed that Plant Scherer's copper  
14 discharge levels have the potential to result in an exceedance of the Georgia  
15 WQS. Based on the EPD's permitting procedures, and consultation with  
16 EPD, FPL and Georgia Power Corporation ("Georgia Power") anticipate that  
17 the EPD will include in the facility's renewed NPDES permit a new condition  
18 addressing the Plant's obligations to ensure that it does not exceed the  
19 Georgia WQS copper discharge limit. FPL and Georgia Power also  
20 anticipate that the EPD will require monitoring of copper concentrations.  
21 Depending on the results of the EPD's final analysis of the renewal

1 application, the EPD may also require additional compliance measures  
2 beyond the cooling tower repacking projects.

3 **Q. What is cooling tower packing?**

4 A. Packing is a medium used in cooling towers to increase the surface area over  
5 which cooling water is exposed to air in the towers. Increased surface area  
6 allows for maximum contact between the air and the water, which allows for  
7 greater evaporation rates and lower temperature cooling water being returned  
8 to the condenser.

9 **Q. Do Georgia Power and FPL expect that Plant Scherer Unit 4 cooling  
10 tower packing needs to be replaced in order to achieve the anticipated  
11 copper concentration limit?**

12 A. Yes. Georgia Power analyzed the source of copper in Plant Scherer's  
13 discharge stream and evaluated options for reducing the concentration of  
14 copper in the discharge. It determined that that the elevated copper levels in  
15 the effluent were attributable to two sources: (1) degradation of the Plant's  
16 copper condenser tubes, and (2) concentration of copper in the cooling tower  
17 packing, where copper from the condenser tubes became entrained over years  
18 of operation. Between 2009 and 2013, various cleaning and treatment  
19 techniques were employed in an attempt to reduce the rate of copper  
20 corrosion and erosion from the condenser tubes and to remove copper that  
21 was entrained in the cooling tower packing. Unfortunately, these efforts on  
22 their own resulted in only limited reductions in the copper discharge level.

1 **Q. Has Georgia Power subsequently evaluated the cost and effectiveness of**  
2 **available options that could adequately reduce the copper discharge**  
3 **level?**

4 A. Yes. Georgia Power identified three options that could potentially resolve the  
5 issue of copper concentrations in the cooling water wastewater. They were:  
6 (1) coating of condenser tubes, (2) installation of a treatment system to  
7 remove copper from the cooling tower discharges, or (3) replacement of  
8 condenser tubes and cooling tower packing.

9  
10 A thorough analysis of the options concluded that, due to the age of the  
11 condenser tubes (i.e., they have been in service since the 1980s with a life  
12 expectancy of 30 years) and contamination of the packing, replacement of the  
13 condenser tubes and packing is the most cost-effective, long-term solution,  
14 which entails replacing the copper condenser tubes with titanium tubes and  
15 replacing the copper-contaminated packing in the cooling towers with new  
16 packing material (Exhibit MWS-7).

17 **Q. Is FPL seeking to include the Unit 4 condenser tube replacement as part**  
18 **of the NPDES Permit Renewal Requirements Project?**

19 A. No. Georgia Power already has completed the replacement of the copper  
20 condenser tubes in both Units 3 and 4 as part of a normal replacement  
21 schedule based on the anticipated life and condition of the tubes. Therefore,

1 FPL has not included the costs incurred for the tube replacement as part of  
2 this request.

3 **Q. Is the cooling tower packing material also being replaced as a part of**  
4 **normal Unit 4 maintenance?**

5 A. No. The packing material in Unit 4 has not reached the end of its useful life  
6 and was not previously expected to be replaced for many more years.  
7 However, due to its contribution to the elevated copper concentration in the  
8 cooling tower effluent, it needs to be replaced before the end of its useful life  
9 in order to ensure that the copper concentration in the cooling tower basin can  
10 remain consistently in compliance with applicable WQS.

11 **Q. When has Georgia Power scheduled the Unit 4 repacking?**

12 A. To maximize efficiency, Georgia Power plans to complete the remaining tube  
13 replacements and the repacking for all four Plant Scherer units during the  
14 next planned outage for each unit. For Unit 4, that planned outage began on  
15 March 8, 2018. Furthermore, satisfaction of the WQS is an issue of great  
16 importance to the EPD. It is therefore reasonable to move forward with these  
17 steps now, to provide the EPD assurance that Plant Scherer will be able to  
18 meet the WQS for copper under its renewed NPDES permit.

19 **Q. Did FPL anticipate that it would need to repack the Unit 4 cooling**  
20 **towers at the time that it prepared the MFRs for its 2016 rate case?**

21 A. No. As I noted earlier, those MFRs were prepared in late 2015 and early  
22 2016. At that time, Georgia Power had not completed its evaluation of the

1 copper concentration in the Plant Scherer effluent, much less determined the  
2 appropriate way to address that need.

3 **Q. Has FPL estimated the cost of the repacking activities at Plant Scherer?**

4 A. Yes. The total estimated cost for FPL's share of the repacking activity at  
5 Plant Scherer Unit 4 is \$9 million, all of which will be recorded as a capital  
6 investment. FPL anticipates that there will be minimal O&M costs associated  
7 with this project. Because the NPDES permit renewal process is still in an  
8 early stage, FPL is seeking to defer ECRC recovery of the Unit 4 cooling  
9 tower repacking costs in the manner discussed in the testimony of FPL  
10 witness Renae Deaton.

11 **Q. How will FPL ensure that the costs incurred for this project are prudent  
12 and reasonable?**

13 A. Georgia Power, as FPL's agent for the operation and maintenance of Scherer  
14 Unit 4, uses competitive bidding for equipment and services as part of their  
15 standard practices. Under the contract agreement between FPL and Georgia  
16 Power, FPL has oversight and audit rights for costs that are incurred on  
17 behalf of our ownership of Unit 4 and have on-site staff at the facility to  
18 ensure expenditures are reasonable and prudent.

19 **Q. Is FPL recovering the cost of the repacking through any other  
20 mechanism?**

21 A. No.

22

1 **Turkey Point Cooling Canal Monitoring Plan Project (“TPCCMP”) Update**

2

3 **Q. In FPL witness Deaton’s final true-up testimony, she states that the 2017**  
4 **O&M expenditures for the TPCCMP project were \$26.5 million lower**  
5 **than projected and that the 2017 capital revenue requirements were**  
6 **\$495,747 lower than projected. Why were project expenditures in 2017**  
7 **for the TPCCMP lower than projected?**

8 A. These reductions were due to delays in the permitting process, which affected  
9 the timely implementation of the Recovery Well System (“RWS”), Turning  
10 Basin and Turtle Point Backfill projects. FPL submitted the RWS designs  
11 and modeling to the agencies for review and approval on May 16, 2016, with  
12 the expectation that the approvals and permitting for this agreed upon  
13 restoration project would be completed in nine months. Due to the scale of  
14 the remediation and complexity of the model, however, the regulatory  
15 agencies did not approve the designs for the RWS until May 15, 2017. On  
16 June 27, 2017 the RWS wells, pumps and electrical construction began and is  
17 scheduled to be completed in May 2018. Permit approval from Miami-Dade  
18 County and the U.S. Army Corps of Engineers for the Turning Basin and  
19 Turtle Point Backfill projects is still pending and anticipated to be issued by  
20 the end of April 2018. Additionally, costs associated with sediment removal  
21 have been deferred in order for FPL to evaluate the appropriate level of  
22 sediment removal needed to address system thermal performance.

1 Q. Does this conclude your testimony?

2 A. Yes.

**FLORIDA POWER & LIGHT COMPANY  
DOCKET NO. 20180007-EI  
ENVIRONMENTAL COST RECOVERY CLAUSE  
FPL SUPPLEMENTAL CAIR/MATS/CAVR FILING  
APRIL 2, 2018**

**The discussion below provides FPL’s current estimates of project activities and associated costs related to its Clean Air Interstate Rule (“CAIR”) now the Cross State Air Pollution Rule (“CSAPR”), Mercury and Air Toxics Standards (“MATS”), which was formerly the Clean Air Mercury Rule (“CAMR”) and Clean Air Visibility Rule (“CAVR”)/ Best Available Retrofit Technology (“BART”) projects.**

**CAIR Compliance Project Update:**

**Status of CAIR (now CSAPR) Rule Revision** On November 16, 2015 the EPA proposed the CSAPR Update rule to address interstate transport of air pollution under the 2008 Ozone National Ambient Air Quality Standards (“NAAQS”). The proposed rule significantly reduces ozone season NOx budgets for many states using revised air quality data and updates to unit emission rates following installation of controls. In its final CSAPR (“Update Rule”) the EPA removed Florida from the cap-and-trade program as emissions from utility units are now below the significance threshold in downwind ozone nonattainment areas. Several states have challenged the EPA rule and litigation is ongoing in the D.C. Circuit on the Update Rule. FPL will continue working with the EPA to ensure that Florida and FPL are treated fairly in any proposed changes to CSAPR. Operation of controls installed under the CSAPR project that are required for compliance with other federal and state rules are ongoing as needed. Costs for operations and maintenance of equipment associated with CSAPR are still required for installed equipment. The associated projects are described below.

**St. Johns River Power Park (“SJRPP”) Selective Catalytic Reduction Systems (“SCR”) and Ammonia Injection Systems**

The construction and installation of SCR and Ammonia Injection Systems at SJRPP were accomplished in 2009 with the controls on units 1 & 2 being placed into service in 2010.



FPL's ownership share of the total CSAPR capital cost for installation of the SCR and Ammonia Injection System through 2017 was \$55.02 million and \$1.57 for O&M. Projected capital cost and operating expenses associated with the SCR/Ammonia Injection System at SJRPP for 2018 are \$0. In January 2018 both SJRPP units were retired from service.

### **Scherer SCR and Wet Flue Gas Desulfurization ("FGD")**

The total capital cost for FPL's share of the construction and installation of the FGD (scrubber) and SCR with Ammonia Injection System on Scherer Unit 4 through 2017 is \$362.14 million. FPL estimates its share of the Scherer Unit 4 CSAPR capital costs for projects planned in 2018 to be \$2.15 million for replacement of the FGD booster fan hub.

For 2018, FPL has estimated its share of O&M expenses for operation of the SCR, FGD, and common plant facilities supporting the controls at \$4.33 million to comply with CSAPR. O&M activities for the SCR include incremental operating staff, ammonia consumption, maintenance of the SCR ammonia injection skid and SCR auxiliary equipment. O&M activities for the FGD include limestone consumption, limestone and by-product (gypsum) handling operation, FGD operations, FGD tower and auxiliary equipment maintenance. FPL's ownership share of total capital cost for installation of the SCR and FGD at Scherer through 2017 was \$23.08 million.

### **800 MW Unit Cycling Project**

FPL completed construction work associated with this project in 2011 to comply with CSAPR. Total capital costs for the 800 MW unit cycling project at Martin and Manatee plants through 2017 are \$94.72 million with total O&M expenses at \$7.81 million. Projected 2018 O&M expenses are \$0.53 million for treatment of condenser tube fouling and maintenance of associated equipment at the Martin and Manatee 800 MW units.

### **Continuous Emissions Monitoring System (“CEMS”) Plan for Gas Turbines (“GT”)**

In December 2016, FPL completed the construction of peaking combustion turbines at the Lauderdale and Fort Myers plants, which replaced the generating capacity of the gas turbine peaking units at those plants. The 12 peaking gas turbines at Port Everglades have been decommissioned along with 22 gas turbines at Lauderdale and 10 gas turbines at Fort Myers plants. The remaining units are neither subject to Acid Rain monitoring requirements nor CSAPR monitoring requirements, so CEMS use has been discontinued. O&M expenses for the CEMS at the GTs were \$0.46 million through 2017. There are no future projected capital or operating costs for the GT CEMS associated with this project.

### **Purchases of Allowances**

To comply with the CSAPR program requirements, FPL must evaluate whether it holds sufficient allowances for compliance or needs to purchase allowances. In late 2017 EPA evaluated banked CSAPR allowances and was provided notice that banked pre-2017 vintage allowances could be used in 2017 and later years at a discount ratio established by EPA. Similar to 2016, FPL evaluated that the remaining banked 2015 and 2016 CSAPR allowances would not be required for compliance and pursued their market sale to a third party. These allowances were sold to outside parties in fourth quarter of 2017, resulting in a credit of \$119,218 to ECRC project “Amortization of Gains on Sales of Emissions Allowances.” Allowance sales in 2016 and 2017 resulted in \$769,180 of credits that have helped offset FPL’s ECRC expenses.

Actual CAIR/CSAPR capital costs through 2017 were \$511.89 million.

<b>CAIR/CSAPR CAPITAL COSTS (\$Millions)</b>		
Project	Total Project	2018 Projections
SJRPP-SCR/Ammonia Injection System	\$55.02	\$0.00
Scherer-SCR/FGD	\$362.14	\$2.15
800 MW Unit Cycling – Martin	\$58.56	\$0.00
800 MW Unit Cycling – Manatee	\$36.16	\$0.00

Actual CAIR/CSAPR O&M expenses through 2017 are \$32.91 million.

<b>CAIR/CSAPR O&amp;M EXPENSE (\$Millions)</b>		
Project	Total Project	2018 Projections
SJRPP-SCR/Ammonia Injection System	\$1.57	\$0.00
Scherer-SCR/FGD	\$23.08	\$4.33
800 MW Unit Cycling – Martin	\$4.25	\$0.40
800 MW Unit Cycling – Manatee	\$3.56	\$0.13
CEMS at GTs	\$0.46	\$0.00

**Mercury Air Toxics Standards (“MATS”) Compliance Project Update (formerly CAMR):**

FPL is complying with the Mercury (Hg) reduction requirements of the Georgia Multipollutant Rule and the EPA’s MATS rule by using the following projects identified previously under the CAMR:

1. Installation of Fabric Filter Baghouse and Mercury Sorbent Injection System on Scherer Unit 4 (completed 2010).
2. Installation of HgCEMS on Scherer Unit 4 (completed 2009).
3. Installation of HgCEMS on SJRPP Units 1 and 2 (completed in 2008 prior to the vacatur of CAMR).

FPL’s share of capital costs associated with the Mercury Sorbent Injection System, baghouse and Mercury CEMS on Scherer Unit 4 through 2017 is \$114.16 million. For 2018, FPL’s share of capital costs for the projects at Scherer Unit 4 is estimated to be \$0 as capital replacement of components is not anticipated for 2018. For FPL’s co-owned units at SJRPP, the retirement of Units 1 and 2 removes all MATS emission, reporting requirements beginning January 2018 and projected costs are \$0. For 2018, projected MATS O&M expenses for Plant Scherer are \$2.40 million, primarily for purchase and disposal of sorbents and replacement of bags as well as operation and maintenance of the Hg monitors.

In EPA’s December 21, 2011 final MATS rule, oil-fired electric steam generating units were required to meet specific emission standards during oil combustion and demonstrate compliance through quarterly testing or continuous particulate emission monitoring systems. The rule’s emission limits for oil operation had the effect of requiring electrostatic precipitators (“ESP’s”) for FPL’s 800 MW oil-fired units. Construction of the ESPs was completed in 2014 with total capital costs for construction of the ESPs through 2017 at \$209.82 million. Total O&M costs through 2017 are \$3.14 million. For 2018, FPL is projecting \$0.20 million in capital costs for replacement of ESP components and \$0.83 million of O&M expenses for maintenance and operation of the 800 MW ESP project.

Actual MATS capital costs through 2017 are \$323.98 million.

<b>MATS CAPITAL COSTS (\$Millions)</b>		
<b>Project</b>	<b>Total Project</b>	<b>2018 Projections</b>
Scherer-Sorbent Injection/Baghouse/HgCEMS	\$114.16	\$0.00
800 MW ESP PMR/PMT	\$209.82	\$0.20

*\*FPL's share of the project costs*

Actual MATS O&M expenses through 2017 are \$19.80 million.

<b>MATS O&amp;M EXPENSE (\$Millions)</b>		
<b>Project</b>	<b>Total Project</b>	<b>2018 Projections</b>
SJRPP-Mercury CEMS	\$0.46	\$0.00
Scherer-Sorbent Injection/Baghouse/HgCEMS	\$16.21	\$2.40
800 MW ESP PMR/PMT	\$3.14	\$0.83

**CAVR / BART Project Update:**

EPA's promulgation of the Clean Air Visibility Rule (CAVR) to address regional haze required affected sources to reduce visibility impacts to many of the U.S. National Parks and Monuments. FPL's retirement of Turkey Point Units 1 and 2, retirement of both combined cycle units at the Putnam plant and installation of ESPs on the 800 MW units resulted in

agreement with the Florida DEP that FPL had complied with the requirements of EPA's Regional Haze requirements. Actual CAVR capital costs through 2017 are \$0. Actual CAVR O&M expenses through 2017 are \$0.06 million. FPL is projecting \$0 of CAVR compliance costs for 2018 and does not anticipate any future compliance costs.

<b>CAVR/BART O&amp;M EXPENSE (\$Millions)</b>		
<b>Project</b>	<b>Total Project</b>	<b>2018 Projections</b>
Reasonable Progress Control Technology Determination	\$0.06	\$0.00



Notes:

**Worst expected conditions:**

Wind Speed: max 20MPH from north

Min water temperature: 50F

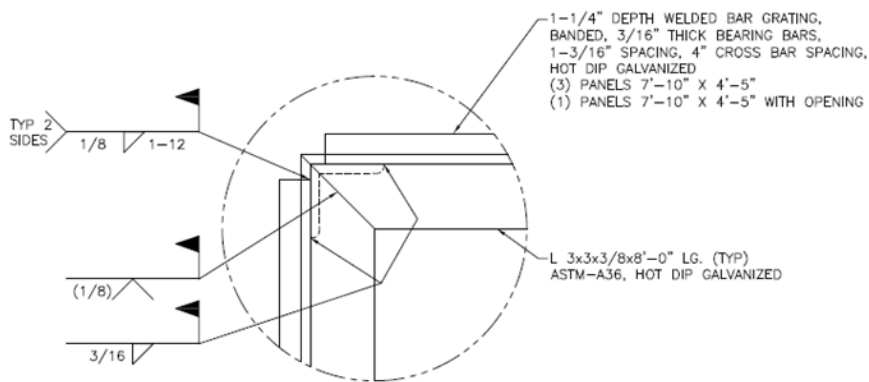
Min Amb air Temperature: 40F

**Performance criteria:**

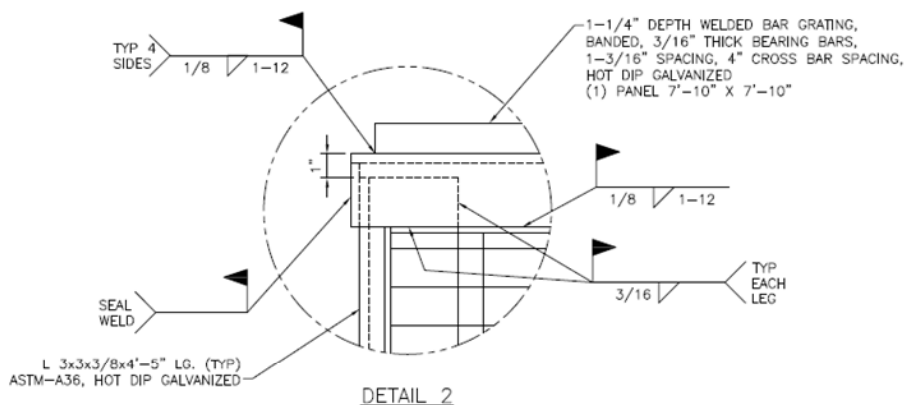
Required Area: 100x300 feet

Lowest heated water temp: 68F

Discharge Canal Plan General Arrangement			
Fort Myers Power Plant Canal Heating Concept Drawing			
SIZE	FSCM NO	DWG NO	REV
11x17		FT Myers CH 0001	A
SCALE	NTS	SHEET	1 OF 3



DETAIL 1  
 (TOP GRATING NOT SHOWN)



DETAIL 2

Edge of Canal Bank

Edge of Intake Cage

~34'-0"

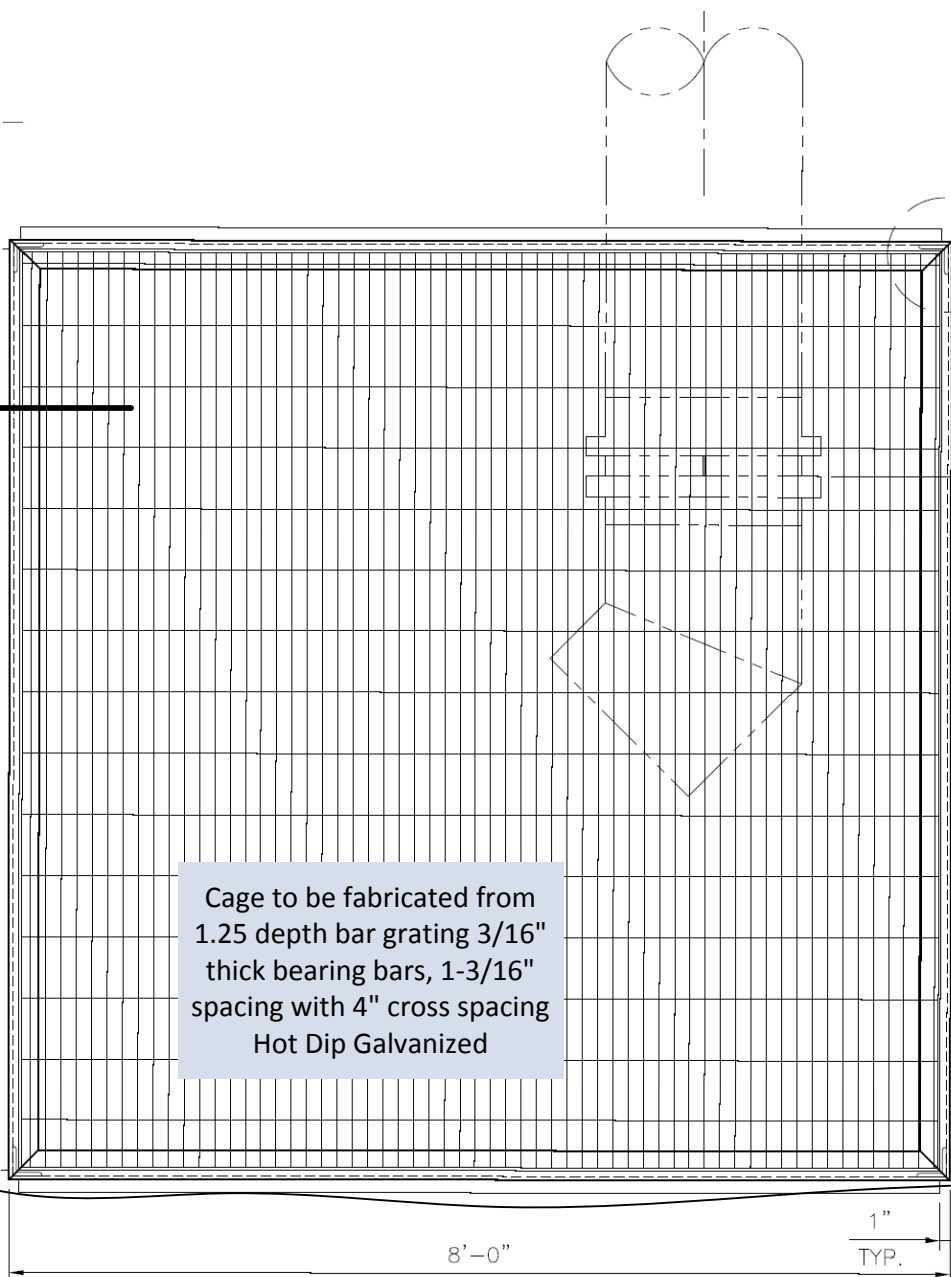
Top of Canal Bank Elevation 10'0"

12 inch DR 32.5 HDPE Pipe to enter the Top of the Cage rotate toward center of canal

MHWL +1.1'  
<https://tidesandcurrents.noaa.gov/waterlevels.html?id=8725520>

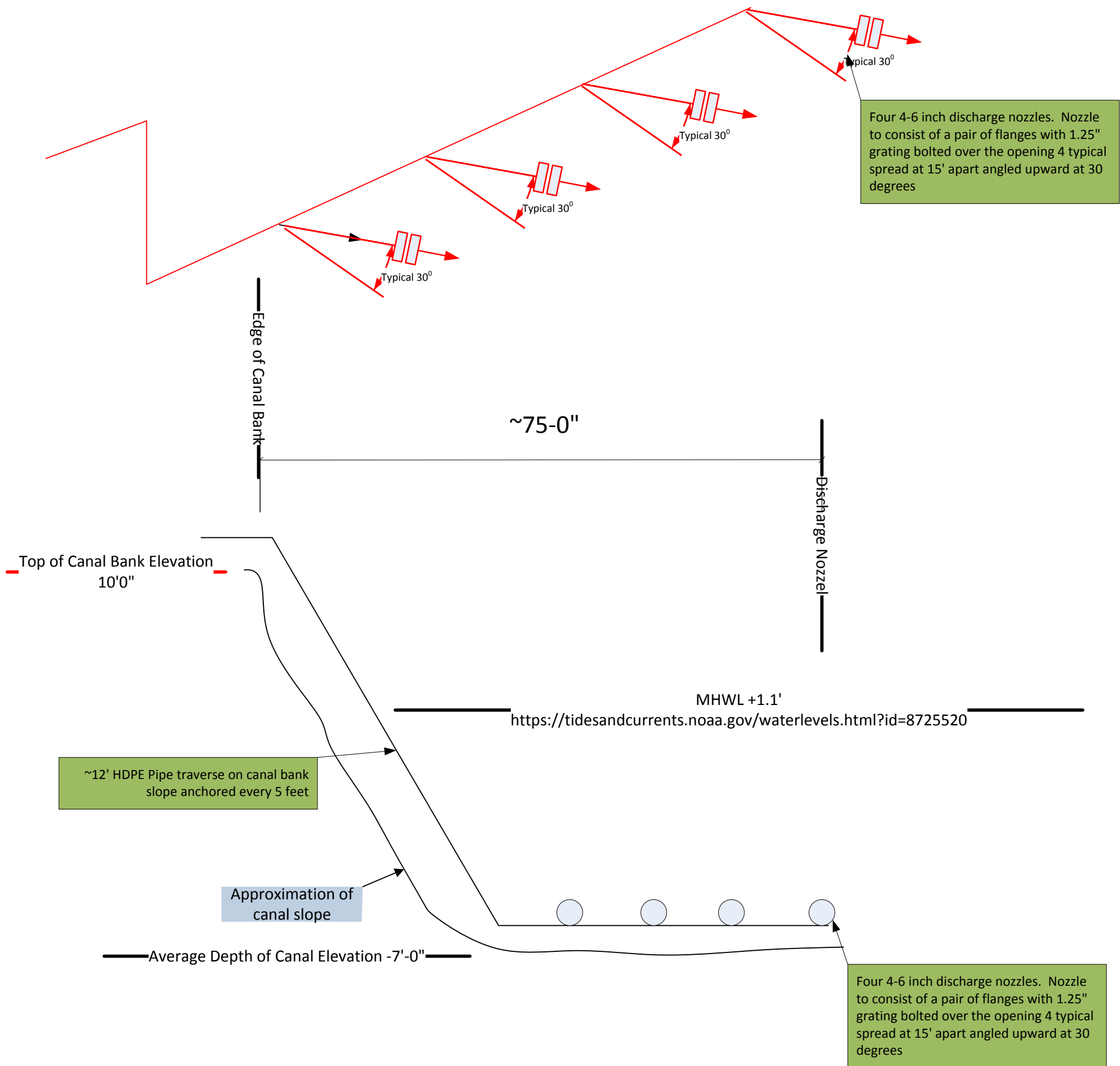
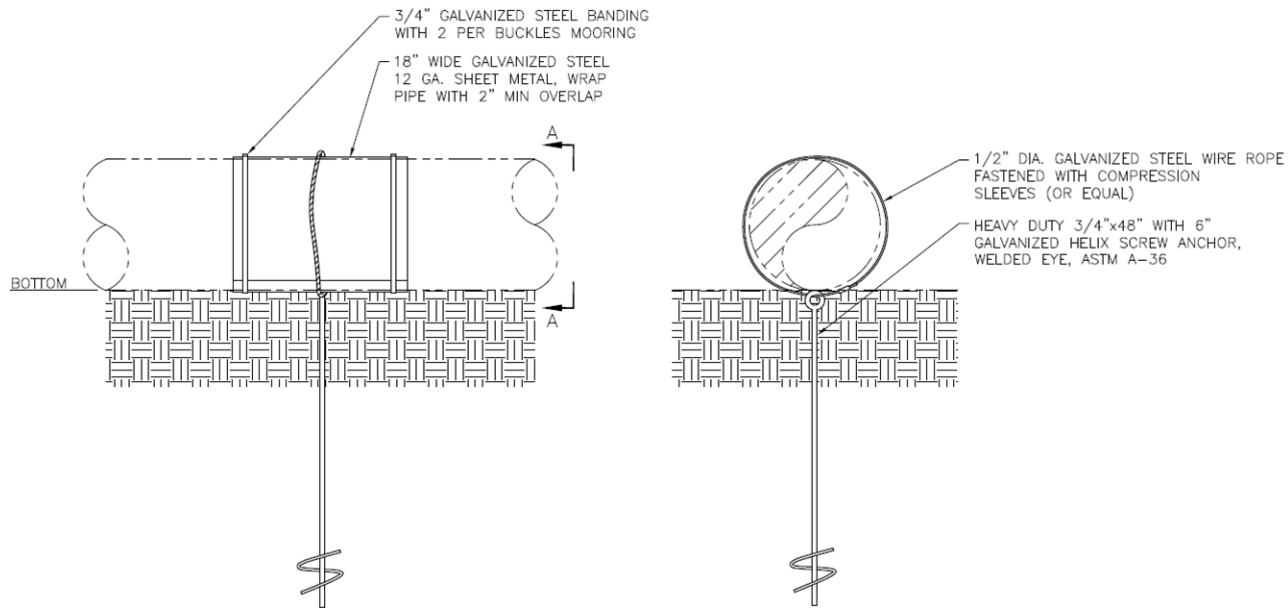
Approximation of canal slope

Average Depth of Canal Elevation -7'-0"



Intake Structure and Pipe section			
Fort Myers Power Plant Canal Heating Concept Details Drawing			
SIZE	FSCM NO	DWG NO	REV
		Ft Myers CH Details 0002	A
SCALE	NTS	SHEET	2 OF 3





Discharge pipe and nozzle section				
Fort Myers Power Plant Canal Heating Concept Details Drawing				
SIZE	FSCM NO	DWG NO	REV	
		Ft Myers CH Details 0003	A	
SCALE	NTS	SHEET	3 OF 3	



**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

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Sent by E-mail to:  
([Timothy.Panoff@fpl.com](mailto:Timothy.Panoff@fpl.com))

In the Matter of an  
Application for Permit by:

Florida Power & Light Company (FPL)  
Mr. Timothy Panoff  
Plant General Manager  
10650 State Road 80  
Fort Myers, FL 33902

Lee County  
Fort Myers Plant  
NPDES Permit No. FL0001490  
File Number FL0001490-008-IW1S

NOTICE OF PERMIT

Enclosed is Permit Number FL0001490 to operate the Fort Myers Plant, issued under Chapter 403, Florida Statutes.

Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. 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

A handwritten signature in black ink, appearing to read "Elsa A. Potts".

Elsa A. Potts, P.E.  
Program Administrator  
Industrial Wastewater Program  
Division of Water Resource Management



**STATE OF FLORIDA  
INDUSTRIAL WASTEWATER FACILITY PERMIT**

**PERMITTEE:**  
Florida Power & Light Company

**PERMIT NUMBER:** FL0001490 (Major)  
**FILE NUMBER:** FL0001490-008-IWIS  
**ISSUANCE DATE:** January 20, 2016  
**EFFECTIVE DATE:** January 20, 2016  
**EXPIRATION DATE:** January 19, 2021

**RESPONSIBLE OFFICIAL:**  
Timothy Panoff, Plant Manager  
10650 State Road 80  
Post Office Box 430  
Fort Myers, FL 33902  
(293)693-4252

**FACILITY:**

Ft. Myers Power Plant  
10650 State Road 80  
Post Office Box 430  
Fort Myers, FL 33902  
Lee County

Latitude: 26°41' 50" N Longitude: 81°46' 56" 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 plant consists of six natural gas combined cycle combustion turbines with associated Heat Recovery Steam Generators (HRSGs) and steam turbines with a total generating capacity of 1550 megawatts. There are also twelve gas turbine peaking units that have a combined capacity of 600 megawatts and use No. 2 fuel oil. There are also two peaking combustion turbines that have a combined capacity of 326 megawatts.

The plant has a once-through condenser cooling water system that uses water from the Caloosahatchee River as intake water. The cooling water is routed through the plant condensers and then discharged to the Orange River via the on-site discharge canal. A once-through helper cooling tower is located adjacent to the discharge canal to seasonally reduce the discharge temperature. Boiler blowdown is captured and reused. Reverse osmosis reject is discharged indirectly to the discharge canal via an internal discharge to the cooling tower basin. Metal cleaning wastewater will be disposed of offsite.

**WASTEWATER TREATMENT:**

Once-through cooling water may be chlorinated to reduce biological fouling in the condensers and intake structures. Dechlorination may be conducted prior to discharge if required. Equipment area storm water and washdown that have the potential to contain oil and grease are routed through an oil/water separator prior to discharge to the storm water basin. The contents of the storm water basin is pumped to the evaporation/percolation basin. In addition, fuel oil storage runoff is routed to an oil/water separator prior to discharge to the evaporation/percolation basin.

**REUSE OR DISPOSAL:**

**Surface Water Discharge D-010:** An existing permitted combined discharge to the Orange River (WBID 3240K). The Orange River is a tidally influenced Class III fresh water system at the point of discharge. This combined plant discharge at the end of the 2,500 foot discharge canal is located at approximately at latitude 26° 41' 31" N, longitude 81° 46' 41" W.

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**Land Application G-001:** An existing land application system (G-001) consisting of an evaporation/percolation pond. The evaporation/percolation pond is located at approximately latitude 26° 41' 38" N, longitude 81° 47' 12" W.

**Evaporation/Percolation Emergency Overflow D-020:** An existing emergency overflow discharge from the evaporation/percolation pond to the Caloosahatchee River. The discharge is located at approximately latitude 26° 41' 46.7" N, longitude 81° 47' 21.3" W.

**Internal Outfalls:**

**Internal Outfall I-111:** An existing internal discharge of once-through cooling water from Unit 1 to the discharge canal.

**Internal Outfall I-112:** An existing internal discharge of once-through cooling water from Unit 2 to the discharge canal.

**Internal Outfall I-113:** A new internal discharge of manatee heating water to the discharge canal.

**Internal Outfall I-130:** An existing internal discharge of reverse osmosis reject water to the cooling tower basin.

**Internal Outfall I-170:** An existing internal discharge of cooling tower discharge to the discharge canal.

**Internal Outfall I-180:** An existing internal discharge of auxiliary equipment cooling water to the discharge canal.

**Internal Outfall I-190:** An existing internal discharge of intake screen wash water to the discharge canal.

**Internal Outfall I-1D0:** An existing internal discharge of fire pump discharge water to the discharge canal.

**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 27 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 **once-through non-contact cooling water, auxiliary equipment cooling water, intake screen wash water, and reverse osmosis reject water** from **Outfall D-010** to the Orange River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Temperature, Water	Deg F	Max	Report	Monthly Average	6/Day	Recorder	INT-1	
Temperature Rise ( $\Delta T$ ), Water, MODE I	Deg F	Max	Report	Monthly Average	6/Day	Recorder	EFF-1	See I.A.3
Temperature Rise ( $\Delta T$ ), Water, MODE II	Deg F	Max	13.0	Monthly Average	6/Day	Recorder	EFF-1	See I.A.4
Chlorides	mg/L	Max	Report	Daily Maximum	Monthly	Grab	INT-1	
Oxidants, Total Residual	mg/L	Max	0.01	Daily Maximum	Weekly	Grab	EFF-1	See I.A.10
Oxidants, Total Residual	mg/L	Max	0.01	Daily Maximum	Monthly	Grab	EFF-1	See I.A.11
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Weekly	Meter	EFF-1	See I.A.12
Temperature, Water	Deg C	Max	Report	Single Sample	Quarterly	Grab	EFF-1, INT-1	See I.A.12
Nitrogen, Total	mg/L	Max	Report	Single Sample	Quarterly	Grab	EFF-1, INT-1	
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Quarterly	Grab	EFF-1, INT-1	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Americamysis bahia)	percent	Min	100	Single Sample	Semi-annually	24-hr Composite	EFF-1	See I.A.14
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Semi-annually	24-hr Composite	EFF-1	See I.A.14

- 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-1	OTCW plant intake.
INT-2	Plant intake screens.
EFF-1	At the end of the discharge canal prior to discharge to the Orange River. Temperature measurements shall be taken at the surface, midpoint, and bottom at the midsection of the canal and averaged.

- Mode I is applicable each year beginning on January 1 and lasting until the daily average intake temperature first equals or exceeds 74.0°F in the spring. Additionally, Mode I is applicable beginning the day after the daily average intake temperature falls below 74.0°F in the fall and lasting through December 31.
- Mode II is applicable each year beginning the day after the daily average intake temperature first equals or exceeds 74.0°F and lasting through the day on which the daily average intake temperature first falls below 74.0°F.

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5. For partial months in which Mode I ends and Mode II begins (or Mode II ends and Mode I begins) during the middle of the month, the monthly average for each respectively mode shall be calculated based on the number of days the plant was operating in that mode.
6. During the summer months (June, July, and August) and when the steam units are in operation, the permittee shall operate all cells of the cooling tower at all times, regardless of whether the temperature rise is significantly less than the permit limit of 13.0°F. The only exceptions to this requirement are as follows:
  - a. In the event of an unavoidable mechanical or electrical failure of a cooling tower component; or
  - b. In the event of an unavoidable need to undertake required maintenance of a cooling tower component.
7. The permittee shall maintain current intake traveling screen practices so as to assure that the screens are cycled at least twice during each 24 hours of continuous operation unless precluded by repair or maintenance requirements.
8. The intake through-screen velocity shall be maintained at current levels such that existing maximum velocity is not exceeded.
9. Nothing in this permit authorizes take for the purposes of a Facility's compliance with the federal Endangered Species Act. *[40 CFR 125.98(b)(1)]*
10. Total Residual Oxidants (TRO) means the value obtained using the amperometric titration method for total residual chlorine or the Hach model 19300 or equivalent). Testing for TRO by titration shall be conducted according to either the low-level amperometric method, or the DPD calorimetric method as specified in section 4500-CI E. or 4500 CI G., respectively, Standard Methods for the examination of Water and Waste water, 18th Edition (or most current edition).

Monitoring requirements for TRO are not applicable if an oxidant has not been added to the non-contact cooling water systems of any electric generating unit during the previous 7 days.

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).

11. When only chlorinating Auxiliary Equipment Cooling Water (AECW) sampling for TRO shall be monthly and consists of a single grab sample taken during the middle of the chlorination period. Alternatively, up to three grab samples of AECW, equally spaced within the 2-hour chlorination permit, can be averaged to report on the DMR.
12. Samples for pH and temperature (grab) shall be taken simultaneously with each total ammonia grab sample. Un-ionized ammonia shall be calculated in accordance with the procedure provided by the Department (refer to the website [www.dep.state.fl.us/labs/library/index.htm](http://www.dep.state.fl.us/labs/library/index.htm)).

The facility shall submit annual summaries of the quarterly monitoring results sampled at Outfall D-010 as an attachment to EzDMR for the following parameters: Phosphate, Ortho (as PO<sub>4</sub>); Nitrogen, Ammonia (as N); Ammonia, Total Unionized (as N); Nitrate plus Nitrite, Total (as N); Nitrogen, Kjeldahl, Total (as N); Temperature, Degree C, and pH.

13. 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)]*
14. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-010.
  - a. Effluent Limitation

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- (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. [Rules 62-302.530(61) and 62-4.241(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. [Rules 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 six months, consistent with the existing established schedule and lasting for the duration of this permit.
- 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-02-014, 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-02-014, 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-02-014, 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  
South District  
2295 Victoria Ave  
Suite 364  
Ft. Myers, Florida 33901-3875

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 14.a.(1).
- (2) Additional Follow-up Tests:
  - (a) If a routine test does not meet the chronic toxicity limitation in 14.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 on each species that failed the test in accordance with 14.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 14.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 14.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-014, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
- (f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 14.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 quarterly 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 quarterly valid routine 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 14.(a)(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)]

15. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Evaporation/Percolation Pond Emergency Overflow** from **Outfall D-020** to the Caloosahatchee River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

Parameter	Units	Max/Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	Report	Daily Maximum	Weekly Upon Discharge	Estimated	EFF-2	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Weekly Upon Discharge	Grab	EFF-2	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Weekly Upon Discharge	Grab	EFF-2	

16. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.15. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-2	At the end of the evaporation/percolation pond overflow pipe.

**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 **once-through non-contact cooling water** from **Outfall I-111** to the discharge canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

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Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily	Recording Flow Meter with Totalizer	FLW-1	

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
FLW-1	OTCW intake for Unit 1.

3. 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** from **Outfall I-112** to the discharge canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily	Recording Flow Meter with Totalizer	FLW-2	

4. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.3. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-2	OTCW intake for Unit 2.

5. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **reverse osmosis reject water<sup>1</sup>** from **Outfall I-130** to the cooling tower basin. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

Parameter	Units	Max/Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	Report	Daily Maximum	Semi-Annually	Calculated	FLW-3	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Semi-Annually	Grab	OUI-1	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Semi-Annually	Grab	OUI-1	

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

<sup>1</sup> When using the Suwannee Aquifer well as source water, discharge of reverse osmosis reject water shall only occur when there is a minimum flow in the discharge canal of 149 MGD.

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Monitoring Site Number	Description of Monitoring Site
FLW-3	The point of discharge to the cooling tower basin (flow measurement).
OUI-1	The point of discharge to the cooling tower basin.

7. 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 **cooling tower discharge** from **Outfall I-170** to the discharge canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily	Recorder	FLW-4	
Time of Chlorine Addition	min/day	Max	120	Daily Maximum	Daily	Calculated	OTH-1	
Oxidants, Total Residual	mg/L	Max	0.20	Daily Maximum	Weekly	Grab	OUI-2	See I.B.9

8. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.7. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-4	The cooling tower discharge flume (flow measurement).
OTH-1	The point of chlorine addition to the cooling tower flow.
OUI-2	The cooling tower discharge flume.

9. Total Residual Oxidants (TRO) means the value obtained using the amperometric titration method for total residual chlorine or the Hach model 19300 or equivalent). Testing for TRO by titration shall be conducted according to either the low-level amperometric method, or the DPD calorimetric method as specified in section 4500-CI E. or 4500 CI G., respectively, Standard Methods for the examination of Water and Waste water, 18th Edition (or most current edition).

Monitoring requirements for TRO are not applicable if an oxidant has not been added to the non-contact cooling water systems of any electric generating unit during the previous 7 days.

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).

10. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Auxiliary Equipment Cooling Water (AECW)** from **Outfall I-180** to the discharge canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	Report	Daily Maximum	Weekly	Calculated	FLW-5	
Time of Chlorine Addition	min/day	Max	120	Daily Maximum	Daily	Calculated	OTH-2	

11. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.10 and as described below:

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Monitoring Site Number	Description of Monitoring Site
FLW-5	AECW intake for Units 1 and 2 (flow measurement).
OTH-2	The point of chlorine addition to AECW.

12. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **manatee heated water** from **Outfall I-113** to the discharge canal via internal outfall I-180. Discharge of the manatee heating water is permitted without limitation or monitoring requirements.
13. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **intake screen wash water** from **Outfall I-190** to the discharge canal. Discharge of intake screen wash water is permitted without limitation or monitoring requirements.
14. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **fire pump discharge water** from **Outfall I-1D0** to the discharge canal. Discharge of fire pump discharge water is permitted without limitation or monitoring requirements.

**C. Land Application Systems**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **equipment area stormwater and washdown as well as fuel oil storage runoff** to the **Land Application System G-001**, an evaporation/percolation pond. Occasionally, the runoff may mix with de minimis quantities of process water from minor leaks or spills from the steam generating facilities associated with these units.

In addition, the permittee is authorized to discharge non-industrial stormwater from Sub-basins 7B and 7C to the evaporation/percolation pond. Discharge to the evaporation/percolation pond is permitted without limitation or monitoring requirements.

**D. 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:
  - 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 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
  - c. 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, 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	first day of month - last day of month	28 <sup>th</sup> day of following month
Quarterly	January 1 - March 31	April 28
	April 1 - June 30	July 28
	July 1 - September 30	October 28
	October 1 - December 31	January 28
Semiannual	January 1 - June 30	July 28
	July 1 - December 30	January 28
Annual	January 1 - December 31	January 28

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms 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  
 Water Compliance Assurance Program, Mail Station 3550  
 Bob Martinez Center  
 2600 Blair Stone Road  
 Tallahassee, Florida 32399-2400

If submitting electronic DMR forms, the permittee shall use the electronic DMR system (EzDMR) and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. [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 South District Office at the address specified below:

Florida Department of Environmental Protection  
 South District  
 2295 Victoria Ave  
 Suite 364  
 Ft. Myers, Florida 33901-3875

Phone Number - (239)344-5600  
 FAX Number - (850)412-0590  
 (All FAX copies and e-mails shall be followed by original copies.)

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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. The permittee is authorized to use only those water treatment chemicals at the frequency and dosage rates described in the permit application and associated documents submitted to the Department for renewal of the current permit. Only one antiscalant chemical shall be used at any given time. Permit revisions are not necessary for use of chemicals equivalent to those being used if the alternative chemicals consist of the same constituents, at the same concentrations and are used at the current rate. The use of other chemicals that are not chemical equivalents or current chemicals at higher dosage rates or frequencies is not authorized and will require a permit revision. The permittee is responsible for maintaining documentation on-site which demonstrates equivalency of any new water treatment products from another vendor or manufacturer with a different product name from those described in the permit application.

The permittee may elect to use products or cleaners other than those listed above, provided the generated wastewater is collected and taken offsite to an approved wastewater treatment facility.

8. A revision to this permit is not necessary for the following activities:
  - a. Structural changes that do not change the quality, nature, or quantity of the discharge of wastes or that do not cause water pollution; and
  - b. Construction, replacement or repair of components at the facility which does not change the permitted treatment works or the terms and conditions of this permit.

Records of these activities shall be kept by the permittee (activity description, start date and length of activity). The documentation shall be kept on-site in accordance with Permit Condition V.A.2, and made available to Department staff upon request. [62-620.200(26)(a) & (b)]

9. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream that ultimately may be released to waters of the State is prohibited unless specifically authorized elsewhere in a permit; except 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 consult with the Florida Fish and Wildlife Commission, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service if threatened or endangered species may be exposed to the product.

In the event the permittee proposes to use biocides, corrosion inhibitors, or additives not authorized in this permit, or not previously reported to the Department, that ultimately may be released to waters of the State, the permittee shall notify the Department in writing a minimum of thirty (30) days prior to instituting the use of such product. The product shall not be used prior to a determination by the Department that a permit revision is not required or prior to Department approval. Such notification shall include:

- a. Name and general composition of product;
- 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, depending on the test type, according to Section 12 of EPA document no. EPA-821-R-02-012 entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, Section 10 of EPA document no. EPA-821-R-02-013 entitled, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms or Section 10 of EPA document no. EPA-821-R-02-014 entitled, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, or most current addition);
- f. Product data sheet;

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- g. EPA registration number, if applicable.
- 10. The permittee shall continue compliance with the facility's Manatee Protection Plan approved by the Department on August 18, 1999.
- 11. The permittee shall complete all studies and gather all information required under 40 CFR 122.21(r)(2-13) necessary to establish impingement mortality and entrainment BTA requirements in accordance with the schedule in Permit Condition VI.4.
- 12. There shall be no discharge of polychlorinated biphenyl (PCB) compounds such as those commonly used for transformer fluid. The permittee shall dispose of all known PCB equipment, articles, and wastes either in accordance with:
  - a. Department-issued permits governing soil thermal treatment (Chapter 62-713, F.A.C.) or Department-approved landfills provided the PCB concentrations meet the Florida landfill's permitted limit when concentrations are less than 50 ppm; or
  - b. 40 CFR 761 when concentrations are greater than or equal to 50 ppm.

*[40 CFR Part 423.12(b)(2)]*

## II. SLUDGE MANAGEMENT REQUIREMENTS

1. The permittee shall be responsible for proper treatment, management, use, and disposal of its sludges. *[62-620.320(6)]*
2. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. *[62-730]*
3. Vegetation and materials removed from intake screens and vegetation, sediments and sludge excavated from the settling basins and percolation basins must be properly stored onsite until they are disposed in accordance with requirements in Chapter 62-701, F.A.C., and other applicable State and Federal requirements.

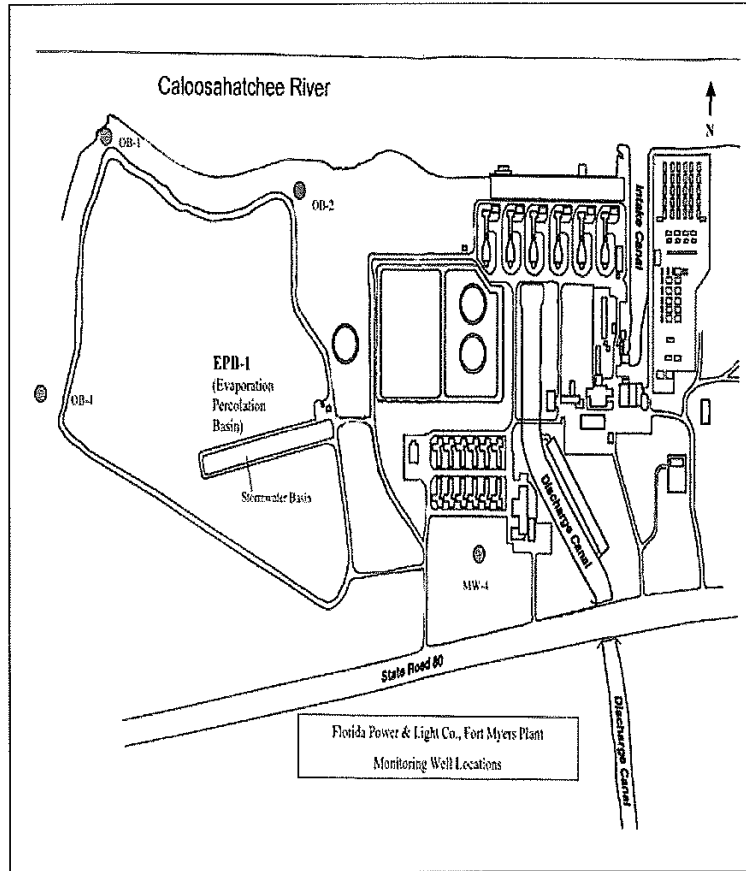


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**III. GROUND WATER REQUIREMENTS**

1. The ground water monitoring well locations for this facility are depicted on the site map below as “MW” and “OB”:



2. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared under Rule 62-522.600, F.A.C.
3. The following monitoring wells shall be sampled for the Fort Myers FP&L Power Plant evaporation/percolation pond, Land Application System G-001.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Depth (Feet)	Aquifer Monitored	New or Existing
MW-4 21556	Background Well. Replaces background well MW-3, which was destroyed. Monitor well located along S.R. 80.	20.0	Surficial	Existing
OB-1 21555	Compliance Well. Northwest corner of percolation pond (G-001), between the percolation pond and the Caloosahatchee River.	30.0	Surficial	Existing
OB-2 21554	Intermediate Well. Northeast corner of percolation pond (G-001), between the percolation pond and Caloosahatchee River.	30.0	Surficial	Existing
OB-4 21553	Compliance Well. West of the perc pond (G-001), deep compliance well.	100.0	Surficial	Existing

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

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4. The monitor wells specified in Condition III.B.2 shall be sampled for the parameters listed below:

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Specific Conductance	60000.0	umho/cm	Grab	Quarterly
PH	Report	s.u.	Grab	Quarterly
Chloride (as Cl)	Report	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	Report	MG/L	Grab	Quarterly
Water Level Relative to NGVD	Report	FEET	Measured	Quarterly
Sulfate, Total	Report	mg/L	Grab	Quarterly
Nitrogen, Nitrate, Total (as N)	10.0	mg/L	Grab	Quarterly
Carbon, Total Organic (TOC)	Report	mg/L	Grab	Annually
Petroleum Hydrocarbons, Total Recoverable (TRPH)	Report	mg/L	Grab	Annually

5. A zone of discharge is established for G-001, more specifically described as follows:

The zone of discharge shall not extend further than the limits of the property boundaries as described in the legal description of the property limits for the Fort Myers Florida Power and Light Power Plant, as submitted to the Department on August 28, 1990. The vertical zone of discharge shall not extend below the semi-confining zone at the base of the water table aquifer and is designed to protect the Sandstone Aquifer in that area.

6. The permittee's discharge to ground water shall not cause a violation of water quality standards for ground waters at the boundary of the zone of discharge in accordance with Rules 62-520.400 and 62-520.420, F.A.C.
7. The permittee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in Rule 62-520.400, F.A.C., within the zone of discharge.
8. If the concentration for any constituent listed in Permit Condition III.B.4 in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard.
9. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)].
10. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210].
11. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's South District Office as being more representative of ground water conditions. [62-520.310(5)]
12. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department immediately and a detailed written report shall follow within seven days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation. [62-520.600][62-620.320(6)].
13. All piezometers and monitoring wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless future use is intended. [62-532.500(4)].
14. The permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

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15. Ground water monitoring test results shall be submitted on Part D of DEP Form 62-620.910(10) (attached) and shall be submitted to the address specified in I.E.3. Results shall be submitted with the DMR for each month listed in the following schedule.

SAMPLE PERIOD	REPORT DUE DATE
January - March	April 28
April - June	July 28
July - September	October 28
October - December	January 28

**IV. ADDITIONAL LAND APPLICATION REQUIREMENTS**

Section IV is not applicable to this facility.

**V. OPERATION AND MAINTENANCE REQUIREMENTS**

**A. General 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 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;
  - d. Records of all disposal of vegetation and materials removed from intake screens and vegetation, sediments and sludge removed from wastewater and stormwater basins
  - e. A copy of the current permit;
  - f. A copy of any required record drawings; and
  - g. 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]*
3. During the period of operation authorized by this permit, the wastewater facility shall, as part of the regular maintenance schedule, review the structural integrity of all outfalls, including all outfalls that have been taken out of service.

**B. Storm Water Requirements**

1. The permittee shall amend the SWPPP whenever there is a change at the facility or change in the operation of the facility that materially increases the potential for the ancillary activities to result in a discharge of additional, significant amounts of pollutants. The permittee shall have 30 days after facility or operational changes to update the SWPPP as necessary.

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**C. Impoundment Design, Construction, Operation, and Maintenance**

1. All impoundments used to hold or treat wastewater and other associated wastes shall be operated and maintained to prevent the discharge of pollutants to waters of the State, except as authorized under this permit.
2. Construction, operation, and maintenance of any impoundment shall be in accordance with all relevant Local, Regional, State and Federal regulations and shall be certified by a qualified, Florida registered professional engineer and permitted and inspected by the appropriate agency prior to use.

**VI. SCHEDULES**

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

Improvement Action	Completion Date
1. Develop SWPP Plan	Effective date of permit plus 6 months
2. Implement SWPP Plan	Effective date of permit plus 18 months

2. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal no later than one-hundred and eighty days (180) prior to the expiration date of this permit. Application shall be made 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. [62-620.335(1) and (2)]
3. The permittee shall submit a copy of the Manatee Protection Plan, including any amendments, with the permit renewal application to each of the following agencies no later than one-hundred and eighty days (180) prior to the expiration date of this permit:

Florida Department of Environmental Protection  
 Industrial Wastewater Section, Mail Station 3545  
 Bob Martinez Center  
 2600 Blair Stone Road  
 Tallahassee, Florida 32399-2400

Florida Fish and Wildlife Conservation Commission  
 Bureau of Protected Species Management  
 620 South Meridian Street  
 OES-BPS  
 Tallahassee, Florida 32399-1600

And

US Fish and Wildlife Service  
 Jacksonville Field Office  
 7915 Baymeadows Way, Suite 200  
 Jacksonville, Florida 32256-7517

4. The permittee shall submit the information required by the applicable provisions of 40 CFR 122.21(r) in accordance with the following:
  - a. Within six months of the effective date of this permit, the permittee shall submit to the Department a Plan of Study (POS) to address the timely implementation of the 316(b) cooling water intake regulations. The POS shall include a schedule for the submittal of all applicable §122.21(r) forms, any associated reports, and peer review documentation. All applicable forms, reports, and associated material shall be submitted as soon as practicable but no later than 180 days prior to the expiration date of the permit (also the due date for submission of the permit renewal application)

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## VII. BEST MANAGEMENT PRACTICES/STORMWATER POLLUTION PREVENTION PLANS

1. 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 Stormwater Pollution Prevention Plan (SWPPP) for the facility covered by this permit. The SWPPP shall be prepared in accordance with good engineering practices and in accordance with the factors outlined in 40 CFR §125.3(d)(2) or (3) as appropriate. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants, including mercury, in stormwater discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the SWPPP required under this part as a condition of this permit. The plan shall include, at a minimum, the following items:
  - a. Specific individual(s) within the facility organization as members of a SWPPP Team that are responsible for developing the SWPPP and assisting the facility or operations manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWPPP.
  - b. A description of potential sources which may reasonably be expected to add significant amounts of pollutants to stormwater discharges or which may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:
    - (1) Drainage
      - (a) A site map indicating an outline of the portions of the drainage area of each stormwater outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in stormwater runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Item (2)(c) (spills and leaks) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing areas; and storage areas.
      - (b) For each area of the facility that generates stormwater discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in stormwater discharges associated with industrial activity. Factors to consider include the toxicity of chemical; quantity of chemicals used, produced or discharged; the likelihood of contact with stormwater; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.
    - (2) An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to stormwater between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with stormwater runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff; and a description of any treatment the stormwater receives.
    - (3) A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a stormwater conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.
    - (4) A summary of existing discharge sampling data describing pollutants in stormwater discharges from the facility, including a summary of sampling data collected during the term of this permit.
    - (5) A narrative description of the potential pollutant sources from the following activities if applicable: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; loading/unloading areas; and on-site waste disposal practices. The description shall specifically list any significant potential source of pollutants at the site and

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for each potential source, any pollutant or pollutant parameter (e.g. biochemical oxygen demand, etc.) of concern shall be identified.

- c. A description of stormwater management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of stormwater management controls shall address the following minimum components, including a schedule for implementing such controls:
- (1) Good housekeeping requires the maintenance of areas that may contribute pollutants to stormwater discharges in a clean, orderly manner.
  - (2) A preventive maintenance program shall involve timely inspection and maintenance of stormwater management devices (e.g. cleaning oil/water separators, catch basins) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and ensuring appropriate maintenance of such equipment and systems.
  - (3) Areas where potential spills that can contribute pollutants to stormwater discharges can occur and their accompanying drainage points shall be identified clearly in the SWPPP. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a cleanup should be available to personnel.
  - (4) In addition to or as part of the comprehensive site evaluation required under paragraph (4) of this section, qualified facility personnel shall be identified to inspect designated equipment and areas of the facility at appropriate intervals specified in the plan. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.
  - (5) Employee training programs shall inform personnel responsible for implementing activities identified in the SWPPP or otherwise responsible for stormwater management at all levels of responsibility of the components and goals of the SWPPP. Training should address topics such as spill response, good housekeeping and material management practices. A pollution prevention plan shall identify periodic dates for such training.
  - (6) A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of stormwater discharges shall be included in the plan required under this part. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.
  - (7) Non-Stormwater Discharges
    - (a) The plan shall include a certification that each "stormwater-only" discharge authorized under this permit has been tested or evaluated for the presence of non-stormwater discharges. (This section is not applicable to those discharges authorized under this permit that have been identified in the application as having non-stormwater components.) The certification shall include the identification of potential significant sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Certifications shall be signed in accordance with paragraph (6) of this section. Such certification may not be feasible if the facility operating the stormwater discharge associated with industrial activity does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the stormwater pollution plan shall indicate why the certification required by this part was not feasible, along with the identification of potential significant sources of non-stormwater at the site. A discharger that is unable to provide the certification required by this paragraph must notify the Department in accordance with paragraph (iii) below.
    - (b) Except for flows from firefighting activities, sources of authorized non-stormwater discharges that are combined with stormwater discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.
    - (c) Failure to Certify. Any facility that is unable to provide the certification required (testing for non-stormwater discharges), must notify the Department. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification shall describe: the procedure of any test conducted for the presence of non-stormwater discharges; the results of such test or other relevant

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- observations; potential sources of non-stormwater discharges to the storm sewer; and why adequate tests for such storm sewers were not feasible. Non-stormwater discharges to surface waters of the State of Florida which are not authorized by an NPDES permit are unlawful, and must be terminated or dischargers must submit appropriate NPDES permit application forms.
- (8) The plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.
- (9) The plan shall contain a narrative consideration of the appropriateness of traditional stormwater management practices (practices other than those which control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage stormwater runoff in a manner that reduces pollutants in stormwater discharges from the site. The plan shall provide that those measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to stormwater discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected stormwater (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); infiltration devices; and, detention or retention devices.
- d. A Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the plan, but, except as provided in paragraph (4)(d) of this section, in no case less than once a year. Such evaluations shall provide:
- (1) Areas contributing to a stormwater discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.
- (2) Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph (2) of this section (description of potential pollutant sources) and pollution prevention measures and controls identified in the plan in accordance with paragraph (3) of this section (measures and controls) shall be revised as appropriate within two weeks of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than twelve weeks after the inspection.
- (3) A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph (4)(b) of this section shall be made and retained as part of the SWPPP for at least one year after coverage under this permit terminates. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with paragraph (6) (signatory requirements) of this section.
- e. Consistency with other plans. SWPPP may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC), plans developed for the facility under section 311 of the CWA or Best Management Practices (BMP) Programs otherwise required by an NPDES permit for the facility as long as such requirement is incorporated into the SWPPP.
- f. Signatory Authority and Management Responsibilities. The SWPPP shall be signed in accordance with Rule 62-620.305, Florida Administrative Code, and shall be reviewed by the facility engineer and facility manager. A copy of the plan shall be retained at the facility and shall be made available to the Department upon request, or in the case of a stormwater discharge associated with industrial activity that discharges through a municipal separate storm sewer system, to the operator of the municipal system.
- g. Plan Review. The Department may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this Part. Within 30 days of such notification from the Department, the permittee

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shall make the required changes to the plan and shall submit to the Department a written certification that the requested changes have been made.

- h. Keeping Plans Current. The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance of the facility which has a significant effect on the potential for the discharge of pollutants to surface waters of the State of Florida; if the SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under paragraph (2) (description of potential pollutant sources) of this section; or, in otherwise achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity. Amendments to the plan may be reviewed by the Department in the same manner as described in paragraphs (6) and (7) of this section.

*[62-620.100(3)(m)]*

## VIII. 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 South 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 South 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 South District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*

### 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. Duty to Reapply

1. The permittee is not authorized to discharge to waters of the State after the expiration date of this permit, unless:



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- a. the permittee has applied for renewal of this permit at least 180 days before the expiration date (**July 23, 2020**) using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
  - b. the permittee has made complete the application for renewal of this permit before the permit expiration date. *[62-620.335(1)-(4), F.A.C.]*
2. When publishing Notice of Draft and Notice of Intent in accordance with Rules 62-110.106 and 62-620.550, F.A.C., the permittee shall publish the notice at its expense in a newspaper of general circulation in the county or counties in which the activity is to take place either
- a. Within thirty days after the permittee has received a notice; or
  - b. Within thirty days after final agency action.
- Failure to publish a notice is a violation of this permit.

#### D. 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, monitoring requirement, or more stringent requirements or any applicable standards pertaining to the operation and maintenance of coal combustion waste impoundments.
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).

#### IX. 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)]*

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3. As provided in Subsection 403.087(7), 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:
  - 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

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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;
  - 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.

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- 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 South 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 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 South 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 South District Office 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)]

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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.b.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.

- 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)]

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Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION



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Elsa A. Potts, P.E.  
Program Administrator  
Industrial Wastewater Program  
Division of Water Resource Management

**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:	Florida Power & Light (FPL)	PERMIT NUMBER:	FL0001490-008-IW1S	REPORT FREQUENCY:	Monthly
MAILING ADDRESS:	PO Box 14000	LIMIT:	Final	PROGRAM:	Industrial
	Juno Beach, Florida 33408-420	CLASS SIZE:	MA		
FACILITY:	Ft. Myers Power Plant	MONITORING GROUP NUMBER:	D-010		
LOCATION:	10650 Palm Beach Blvd	MONITORING GROUP DESCRIPTION:	Combined plant discharge		
	Fort Myers, FL 33905-5903	RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Lee	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	South District				

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Temperature (F), Water (Intake) (Mode I and II) PARM Code 00011 7 Mon. Site No. INT-1	Sample Measurement							
	Permit Requirement			Report (Mo.Avg.)	Deg F		6/Day	Meter
Temp. Diff. between Intake and Discharge (Mode I*) PARM Code 61576 1 Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement			Report (Mo.Avg.)	Deg F		6/Day	Meter
Temp. Diff. between Intake and Discharge (Mode II*) PARM Code 61576 Q Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement			13.0 (Mo.Avg.)	Deg F		6/Day	Meter
Oxidants, Total Residual PARM Code 34044 1 Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement			0.01 (Day.Max.)	mg/L		Weekly	Grab
Oxidants, Total Residual PARM Code 34044 Q Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement			0.01 (Day.Max.)	mg/L		Monthly	Grab
pH PARM Code 00400 1 Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement		6.0 (Day.Min.)	8.5 (Day.Max.)	s.u.		Weekly	Meter
Chloride (as Cl) PARM Code 00940 7 Mon. Site No. INT-1	Sample Measurement							
	Permit Requirement			Report (Day.Max.)	mg/L		Monthly	Grab

\*Mode I: January 1 until the first instance of Temperature >= 74 deg F and first instance of Temperature < 74 deg F until December 31; Otherwise Mode II applies.

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 (mm/dd/yyyy)

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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420

PERMIT NUMBER: FL0001490-008-IW1S  
 LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: D-010  
 MONITORING GROUP DESCRIPTION: Combined plant discharge  
 RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Quarterly  
 PROGRAM: Industrial

FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903

COUNTY: Lee  
 OFFICE: South District

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total PARM Code 00600 1 Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement			Report (Max.)	mg/L		Quarterly	Grab
Nitrogen, Total PARM Code 00600 7 Mon. Site No. INT-1	Sample Measurement							
	Permit Requirement			Report (Max.)	mg/L		Quarterly	Grab
Phosphorus, Total (as P) PARM Code 00665 1 Mon. Site No. EFF-1	Sample Measurement							
	Permit Requirement			Report (Max.)	mg/L		Quarterly	Grab
Phosphorus, Total (as P) PARM Code 00665 7 Mon. Site No. INT-1	Sample Measurement							
	Permit Requirement			Report (Max.)	mg/L		Quarterly	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 (mm/dd/yyyy)

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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420

PERMIT NUMBER: FL0001490-008-IW1S  
 LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: D-010  
 MONITORING GROUP DESCRIPTION: Combined plant discharge  
 RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING NOT REQUIRED:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Toxicity  
 PROGRAM: Industrial

FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903

COUNTY: Lee  
 OFFICE: South District

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Americamysis bahia(Routine)	Sample Measurement							
PARM Code TRP3E P Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		Semiannually	24-hr TPC
7-DAY CHRONIC STATRE Americamysis bahia(Additional)	Sample Measurement							
PARM Code TRP3E Q Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Americamysis bahia(Additional)	Sample Measurement							
PARM Code TRP3E R Mon. Site No. EFF-1	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-1	Permit Requirement			100 (Min.)	percent		Semiannually	24-hr TPC
7-DAY CHRONIC STATRE Menidia beryllina(Additional)	Sample Measurement							
PARM Code TRP6B Q Mon. Site No. EFF-1	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-1	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit

\*ENTER "MNR" IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

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

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:	Florida Power & Light (FPL)	PERMIT NUMBER:	FL0001490-008-IW1S
MAILING ADDRESS:	PO Box 14000 Juno Beach, Florida 33408-420	LIMIT:	Final
FACILITY:	Ft. Myers Power Plant	CLASS SIZE:	MA
LOCATION:	10650 Palm Beach Blvd Fort Myers, FL 33905-5903	MONITORING GROUP NUMBER:	I-111
COUNTY:	Lee	MONITORING GROUP DESCRIPTION:	OTCW discharge from Unit 1
OFFICE:	South District	RE-SUBMITTED DMR:	<input type="checkbox"/>
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>
		MONITORING PERIOD	From: _____ To: _____

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Day Max.)								
Flow	Permit Requirement			MGD						Daily; 24 hours	Flow Totalizer
PARM Code 50050 1 Mon. Site No. FLW-1											

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

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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420

PERMIT NUMBER: FL0001490-008-IW1S

LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: I-112  
 MONITORING GROUP DESCRIPTION: OTCW discharge from Unit 2  
 RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Monthly  
 PROGRAM: Industrial

FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903

COUNTY: Lee  
 OFFICE: South District

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo.Avg.)	Report (Day.Max.)								
Flow	Permit Requirement			MGD						Daily; 24 hours	Flow Totalizer
PARM Code 50050 1 Mon. Site No. FLW-2											

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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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420  
  
 FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903  
  
 COUNTY: Lee  
 OFFICE: South District

PERMIT NUMBER: FL0001490-008-IW1S  
  
 LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: I-130  
 MONITORING GROUP DESCRIPTION: RO reject  
 RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Semi-annually  
 PROGRAM: Industrial

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-3	Permit Requirement	Report (Day.Max.)	MGD				Semi-Annually; twice per year	Calculated
Oil and Grease	Sample Measurement							
PARM Code 00556 P Mon. Site No. OUI-1	Permit Requirement			15.0 (Mo.Avg.) 30.0 (Day.Max.)	mg/L		Semi-Annually; twice per year	Grab
Solids, Total Suspended	Sample Measurement							
PARM Code 00530 P Mon. Site No. OUI-1	Permit Requirement			30.0 (Mo.Avg.) 100.0 (Day.Max.)	mg/L		Semi-Annually; twice per year	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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420

PERMIT NUMBER: FL0001490-008-IW1S

LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: I-170  
 MONITORING GROUP DESCRIPTION: Cooling tower discharge  
 RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Monthly  
 PROGRAM: Industrial

FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903

COUNTY: Lee  
 OFFICE: South District

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-4	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Daily; 24 hours	Flow Totalizer
Chlorine, Total Residual (Dsg. Time)	Sample Measurement									
PARM Code 00208 P Mon. Site No. OTH-1	Permit Requirement		120 (Day.Max.)	min/day					Daily; 24 hours	Calculated
Oxidants, Total Residual	Sample Measurement									
PARM Code 34044 P Mon. Site No. OUI-2	Permit Requirement					0.20 (Day.Max.)	mg/L		Weekly	Grab

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**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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420

PERMIT NUMBER: FL0001490-008-IW1S

LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: I-180  
 MONITORING GROUP DESCRIPTION: Auxiliary Equipment Cooling Water from Units 1 and 2  
 RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Monthly  
 PROGRAM: Industrial

FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903

COUNTY: Lee  
 OFFICE: South District

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-5	Permit Requirement	Report (Day Max.)	.MGD				Weekly	Calculated
TRO-Discharge Time	Sample Measurement							
PARM Code 04223 1 Mon. Site No. OTH-2	Permit Requirement			120 (Daily Max.)	min/day		Daily; 24 hours	Calculated

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**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: Florida Power & Light (FPL)  
 MAILING ADDRESS: PO Box 14000  
 Juno Beach, Florida 33408-420

PERMIT NUMBER: FL0001490-008-IW1S

LIMIT: Final  
 CLASS SIZE: MA  
 MONITORING GROUP NUMBER: D-020  
 MONITORING GROUP DESCRIPTION: Evaporation/Percolation Pond Emergency Overflow

REPORT FREQUENCY: Monthly  
 PROGRAM: Industrial

FACILITY: Ft. Myers Power Plant  
 LOCATION: 10650 Palm Beach Blvd  
 Fort Myers, FL 33905-5903

RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

COUNTY: Lee  
 OFFICE: South District

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Day,Max.)	MGD		(Mo.Avg.)	(Day,Max.)				
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. EFF-2	Permit Requirement			MGD					Weekly Upon Discharge	Estimated
Oil and Grease	Sample Measurement									
PARM Code 00556 P Mon. Site No. EFF-2	Permit Requirement				15.0 (Mo.Avg.)	30.0 (Day,Max.)	mg/L		Weekly Upon Discharge	Grab
Solids, Total Suspended	Sample Measurement									
PARM Code 00530 P Mon. Site No. EFF-2	Permit Requirement				20.0 (Mo.Avg.)	100.0 (Day,Max.)	mg/L		Weekly Upon Discharge	Grab

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

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IW1S  
 County: Lee  
 Office: South District

Monitoring Well ID: MWB-MW4  
 Well Type: Background  
 Description: Background well MW4  
 Re-submitted DMR:   
 Report Frequency: Quarterly  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	Measured	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):



## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IW1S  
 County: Lee  
 Office: South District

Monitoring Well ID: MWB-MW4  
 Well Type: Background  
 Description: Background well MW4  
 Re-submitted DMR:   
 Report Frequency: Annually  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Carbon, Total Organic (TOC)	00680		Report	mg/L	Grab	Annually				
Petrol Hydrocarbons, Total Recoverable	45501		Report	mg/L	Grab	Annually				

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IW1S  
 County: Lee  
 Office: South District

Monitoring Well ID: MWC-OB1  
 Well Type: Compliance  
 Description: Compliance well OB1  
 Re-submitted DMR:

Report Frequency: Quarterly  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Nitrate, Total (as N)	00620		10.0	mg/L	Grab	Quarterly				
Specific Conductance	00095		60000.0	umhos/cm	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	Measured	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IWIS  
 County: Lee  
 Office: South District

Monitoring Well ID: MWC-OB1  
 Well Type: Compliance  
 Description: Compliance well OB1  
 Re-submitted DMR:

Report Frequency: Annually  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Carbon, Total Organic (TOC)	00680		Report	mg/L	Grab	Annually				
Petrol Hydrocarbons, Total Recoverable	45501		Report	mg/L	Grab	Annually				

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IW1S  
 County: Lee  
 Office: South District

Monitoring Well ID: MWC-OB4  
 Well Type: Compliance  
 Description: Compliance well OB4  
 Re-submitted DMR:

Report Frequency: Quarterly  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Nitrate, Total (as N)	00620		10.0	mg/L	Grab	Quarterly				
Specific Conductance	00095		60000.0	umhos/cm	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	Measured	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IW1S  
 County: Lee  
 Office: South District

Monitoring Well ID: MWC-OB4  
 Well Type: Compliance  
 Description: Compliance well OB4  
 Re-submitted DMR:

Report Frequency: Annually  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

Date Sample Obtained: \_\_\_\_\_

Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Carbon, Total Organic (TOC)	00680		Report	mg/L	Grab	Annually				
Petrol Hydrocarbons, Total Recoverable	45501		Report	mg/L	Grab	Annually				

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 (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IWIS  
 County: Lee  
 Office: South District

Monitoring Well ID: MWI-OB2  
 Well Type: Intermediate  
 Description: Intermediate well OB2  
 Re-submitted DMR:

Report Frequency: Quarterly  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling?  Yes  No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	Measured	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				

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 (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Ft. Myers Power Plant  
 Permit Number: FL0001490-008-IW1S  
 County: Lee  
 Office: South District

Monitoring Well ID: MWI-OB2  
 Well Type: Intermediate  
 Description: Intermediate well OB2  
 Re-submitted DMR:

Report Frequency: Annually  
 Program: Industrial

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

Date Sample Obtained: \_\_\_\_\_

Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling?  Yes  No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Carbon, Total Organic (TOC)	00680		Report	mg/L	Grab	Annually				
Petrol Hydrocarbons, Total Recoverable	45501		Report	mg/L	Grab	Annually				

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 (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

**INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT**

Read these instructions 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 28<sup>th</sup> 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:

**Resubmitted DMR:** Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

**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.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

**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.

**CBOD<sub>5</sub>:** Enter the average CBOD<sub>5</sub> 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.



Jeb Bush  
Governor

## Department of Environmental Protection

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

David B. Struhs  
Secretary

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

In the matter of:  
Approval of FPL Fort Myers Plant  
Manatee Protection Plan

DEP Permit No. FL0001490  
Lee County

Mr. Ron Hix  
Florida Power & Light Company  
P.O. Box 088801  
North Palm Beach, FL 33408-08801

### NOTICE OF AGENCY ACTION

The Department of Environmental Protection hereby gives notice of its approval of the enclosed Manatee Protection Plan for the FPL Fort Myers Plant, completed July 12, 1999 pursuant to Specific Condition 14 of Permit Number FL0001490 and noticed pursuant to the Final Settlement Agreement, dated March 1998, between Southwest Florida Marine Trades Association, Inc. and Florida Power and Light Company and the Department.

A person whose substantial interests are affected by the Department action may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes.

The petition must contain the information set forth below and must be filed (received) in the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any other person must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department case identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;

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*Printed on recycled paper.*

Florida Power and Light  
Fort Myers Plant – Manatee Plan

Page 2 of 3

- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department final action may be different from the position taken by it in this order. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.


Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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 the final order is filed with the Clerk of the Department.

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) 487-1855





## Florida Fish and Wildlife Conservation Commission

James L. "Jamie" Adams, Jr. Bushnell	Barbara C. Barsh Jacksonville	Patrick E. Geraghty Ft. Myers	Quinton L. Hedgepeth, DDS Miami	H.A. "Herky" Huffman Deltona	
Thomas B. Kilber Lakeland	David K. Meehan St. Petersburg	Julie K. Morris Sarasota	Tony Moss Miami	Edwin P. Roberts, DC Pensacola	John D. Rood Jacksonville

LLAN L. EGBERT, Ph.D., Executive Director  
ICTOR J. HELLER, Assistant Executive Director

620 South Meridian Street  
Tallahassee, FL 32399-1600  
www.state.fl.us/gfc  
(850)487-3796  
IDD (850)488-9542

July 13, 1999

Vince Seibold  
Florida Department of Environmental Protection  
Industrial Wastewater Section  
Mail Station 3545  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**RECEIVED**  
JUL 19 1999

Industrial Wastewater Section

Dear Vince;

I have attached the Manatee Protection Plan dated July 12, 1999 for Florida Power & Light's (FPL) Ft. Myers facility. The Bureau of Protected Species Management has reviewed the attached plan and with this letter acknowledges our acceptance of this plan as that required by permit condition 14, of the FPL-Ft. Myers NPDES permit. I have provided the following chronological list recounting the submittal of Florida Power & Light-Ft. Myers draft Manatee Protection Plans and our corresponding responses.

- October 12, 1998 The Bureau of Protected Species Management receives a draft Manatee Protection Plan from Florida Power & Light's Ft. Myers facility
- December 7, 1998 The Bureau of Protected Species Management provides verbal comments and recommended modifications to FPL regarding their Ft. Myers facility's draft Manatee Protection Plan
- December 8, 1998 FPL provides the Bureau of Protected Species Management with an interim Manatee Protection Plan for the Ft. Myers facility while a final plan is completed.
- December 10, 1998 The Bureau of Protected Species Management notifies the DEP's Industrial Wastewater Section that it does not object to the interim plan
- March 10, 1999 The Bureau of Protected Species Management receives the FPL-Ft. Myers draft Manatee Protection Plan and additional information on the current manatee protection wells.

V. Seibold  
July 13, 1999  
Page 2

May 7, 1999 The Bureau of Protected Species Management provides comments and recommended modifications to the FPL-Ft. Myers Manatee Protection Plan.

May 12, 1999 The Bureau of Protected Species Management provides a second set of additional recommendations and wording changes for consistency to FPL-Ft. Myers

May 28, 1999 The Bureau of Protected Species Management provides the U. S. Fish and Wildlife Service (USFWS) with a copy of the final draft of the FPL-Ft. Myers Manatee Protection Plan for review and comment.

June 1, 1999 The USFWS provides several recommended modifications to the FPL-Ft. Myers final draft plan.

June 3, 1999 The Bureau of Protected Species receives a carbon copy of the USFWS letter to the Department's Industrial Wastewater Section providing their concurrence to the attached Manatee Protection Plan for the FPL-Ft. Myers facility.

July 12, 1999 The Bureau of Protected Species Management receives concurrence from FPL-Ft. Myers on the attached Manatee Protection Plan dated July 12, 1999.

If you have any questions or need further information, please call me at suncom 292-4330.

Sincerely,

OFFICE OF ENVIRONMENTAL SERVICES



R. Kipp Frohlich  
Biological Administrator  
Bureau of Protected Species Management

\rrm

NPDES.099\IWW-FPL-FtMyers-ltr.713.doc

ENV 7-2

Attachment

cc: R. Hix  
J. Valade

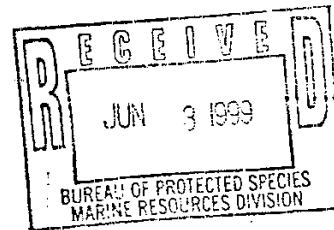


## United States Department of the Interior

FISH AND WILDLIFE SERVICE  
6620 Southpoint Drive South  
Suite 310  
Jacksonville, Florida 32216-0912

JUN 01 1999

Vince Seibold  
Florida Department of Environmental Protection  
Division of Water Facilities  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400



Dear Mr. Seibold:

The Fish and Wildlife Service (Service) has reviewed manatee protection plans for the following facilities:

✓ Florida Power and Light's Fort Myers Plant  
(State Industrial Wastewater Permit Number FL0001490)

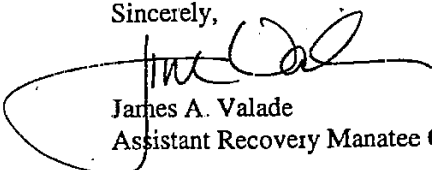
Florida Power and Light's Ft. Lauderdale Plant  
(State Industrial Wastewater Permit Number FL0001503)

Florida Power and Light's Port Everglades Plant  
(State Industrial Wastewater Permit Number FL0001538)

The measures incorporated in these plans are consistent with the intent of the Florida Manatee Recovery Plan, which seeks to maintain safe and reliable warm water refuges for wintering manatees. The Service believes that the measures included in these plans will give manatees adequate protection during the periods specified in the permits at the respective power plants.

Thank you for the opportunity to review these plans.

Sincerely,

  
James A. Valade  
Assistant Recovery Manatee Coordinator

cc: FDEP/BPSM, Ron Mezich  
FWS Vero Beach Field Office - Jay Slack

## **Florida Power & Light – Fort Myers Manatee Protection Plan**

### **Purpose:**

The purpose of the Ft. Myers Plant Manatee Protection Plan is to set forth Florida Power & Light Company's (FPL) procedures to comply with Specific Condition 14 of the facility's State Industrial Wastewater Permit Number FL0001490 that was issued on April 10, 1998. This Specific Condition reads, in part:

14. The permittee, in so far as required to comply with Tasks 25 and 251 of the U.S. Fish and Wildlife Service (USFWS) "Florida Manatee Recovery Plan," shall develop a plan and procedures addressing potential manatee impacts. All plans, if required, shall include an implementation schedule and address, at a minimum:
  - (a) Plans to minimize disruption to warm-water outflows during the winter and response procedures in case of disruptions.
  - (b) Strategy to maintain discharge temperatures that will sustain manatees during cold events.
  - (c) Plan to monitor ambient and discharge water temperatures
  - (d) Precautions to minimize hazards to manatees at intake and outfall areas.
  - (e) Timely communication to manatee recovery program personnel of any long term changes in the availability of warm water.

### **Compliance with Specific Condition 14:**

1. This Manatee Protection Plan will be in effect during the term of the permit. In order for the plant's warm water discharge to provide a safe, warm water refuge for the manatees and to comply with Specific Condition 14, FPL will take the following actions:
  - a) In the case of an unplanned shutdown or plant failure that will affect the warm water refuge from November 15 through March 31, when the ambient water temperature is below 61°F, the Florida Wildlife Conservation Commission (FWCC) and USFWS will be notified no later than four (4) hours after the event has occurred. The following agency representatives shall be notified in the above referenced event or if any distressed manatees are observed at any time:

FWCC – Florida Marine Research Institute – Marine Mammal Pathobiology Lab: (813) 893-2904  
USFWS – Jacksonville Field Office: (904) 232-2580

The FWCC, Bureau of Protected Species Management (BPSM) shall be provided a schedule of any anticipated in-water work within the discharge canal or work that will affect the warm water refuge during the period of November 15 through March 31 each year. This would include schedules for work being done in conjunction with the repowering of the Ft. Myers plant. Schedules for work pursuant to the repowering project should be updated and provided to BPSM as schedule changes occur. No routine in-water maintenance work shall occur in the discharge canal from November 15 through March 31, unless it is considered essential by FPL and approved by BPSM prior to the start of work. If emergency in-water work is needed, the BPSM will be notified and consulted no later than two weeks following the commencement of the activity. All vessels used in the operation or associated with the activity shall be operated pursuant to the attached standard manatee construction conditions.



- b) From November 15 through March 31 each year, to coincide with the time of greatest manatee abundance, if the ambient water temperature falls below 61°F, the FPL Ft. Myers power plant shall endeavor to operate in a manner that maintains the water temperature in an adequate portion of the discharge canal at or above 68°F, until such time as the ambient water temperature reaches 61°F, unless otherwise authorized by the BPSM and the USFWS, or unless safety or reliability of the plant would be compromised.
- c) The FPL Ft. Myers power plant will provide personnel from the BPSM, USFWS, Florida Marine Research Institute, USGS-Sirenia Project, or a designee of these agencies, access to FPL Ft. Myers power plant property to conduct manatee research and monitoring activities which may include, placing, maintaining and downloading data from temperature data loggers (These temperature data loggers will be used to collect air and water temperature data in an ongoing research effort to better understand manatee behavior patterns in response to artificial warm water refugia and environmental variables. The temperature data loggers will be placed in the discharge canal and at ambient water and air locations) Access would be limited to normal business hours (8:00 a.m. to 5:00 p.m.) unless arrangements are made in advance with the FPL Fort Myers power plant.

Intake Area: No special surveys will be required for the intake canal.

Discharge Area: No special surveys will be required for the discharge canal.

- d) Should the FPL decide to retire this plant, notice will be provided to FWCC and USFWS as soon as practical after a definite decision is made or, if possible, at least five years prior to the date of retirement.
  - e) To assist in documenting long-term use patterns of this facility, FPL should conduct periodic aerial surveys of manatees at the Fort Myers facility. The continuation of the ongoing statewide aerial survey that FPL has funded in the past years meets these criteria.
  - g) The FPL Ft. Myers Power Plant will provide phone numbers for weekday and weekend notification of appropriate plant personnel for the purpose of allowing FWCC or USFWS to coordinate manatee rescue operations as necessary.
2. FPL actions, pursuant to this plan, that will be conducted for the current Ft. Myers Power Plant and the Ft. Myers Power Plant post-repowering:
- a) Provide a site map of the facility as a part of the plan that includes the following information:
    - 1. The location of the intake pipes and outfall pipes.
    - 2. Proximate streams, rivers, bays, etc.
    - 3. The location of the condenser inlet and outlet temperature monitoring stations.
    - 4. The location of any fuel barge docking facilities in relation to the discharge canal.
    - 5. The delineation of the no-entry boundary at the discharge canal.
  - b) In order to evaluate and determine what portions of the thermal discharge will provide a sufficient warm water refuge for manatees under potential cold stress water conditions; the FPL Ft. Myers power plant will, within two (2) years of the effective date of this plan, provide a profile of the thermal gradient (either actual or calculated) of the discharge canal waters, as well as its gross bathymetry, at the mean rate of discharge when the ambient water temperature reaches a seasonal low.

**FLORIDA POWER & LIGHT – FT. MYERS PLANT  
MANATEE PROTECTION PLAN**

**1a) STANDARD MANATEE CONSTRUCTION CONDITIONS FOR ARTIFICIAL  
WARM WATER REFUGIA DURING THE PERIOD OF NOVEMBER 15  
THROUGH MARCH 31**

The permittee shall comply with the following manatee protection conditions:

- a. The permittee shall instruct all personnel associated with in-water work within the discharge canal and/or the warm water refuge of the potential presence of manatees and the need to avoid collisions with manatees. All vessels used in the operation or in association with the in-water work shall have an observer on board responsible for identifying the presence and location of manatee(s).
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, The Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.
- c. All vessels associated with in-water work associated with the discharge canal and/or warm water refuge shall operate at "no wake/idle" speeds at all times while in the manatee warm water refuge area. All vessels will follow routes of deep water whenever possible.
- d. If manatee(s) are seen within the discharge canal and/or warm water refuge area all appropriate precautions shall be implemented to ensure protection of the manatee(s). These precautions shall include the immediate shutdown of equipment if necessary. Activities will not resume until the manatee(s) has departed to a safe distance on its own volition.
- e. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Fish & Wildlife Conservation Commission at (1-800-342-5367). Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580).

## Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, S.E., Suite 1152 East Tower, Atlanta, Georgia 30334-9000  
Noel Holcomb, Commissioner  
Carol A. Couch, Ph.D., Director  
Environmental Protection Division  
404/656-4713

November 29, 2006

Mr. Charles H. Huling, P.E.  
Vice President, Environmental Affairs  
Georgia Power Company  
Bin No. 10221  
241 Ralph McGill Blvd.  
Atlanta, Georgia 30308-3374



RE: Georgia Power Co. - Plant Scherer  
NPDES Permit No. GA0035564

Dear Mr. Huling:

EPD has initiated a basin wide permitting strategy whereby permits are reissued within groups of river basins during specific years. As a part of that process, permits are extended until such time they can be reissued within that basin grouping.

The Environmental Protection Division (EPD) has received your application for reissuance of the referenced permit. EPD is hereby extending your permit until such time that it can be reissued within the appropriate river basin group.

Sincerely,

A handwritten signature in black ink that reads "Carol A. Couch".

Carol A. Couch, Ph.D.  
Director

CAC/TEH  
cc :Environmental Protection Agency

cc: Lisa Peacock, EPD Information Management Unit

cc: Gigi Steele, EPD Municipal Permitting Unit

**Georgia Department of Natural Resources**

205 Jesse Hill Jr., S.E., Suite 1152 East Floyd Tower, Atlanta, Georgia 30334  
Lonice C. Barrett, Commissioner  
Harold F. Reheis, Director  
David Word, Assistant Director  
Environmental Protection Division  
404/656-4713

January 30, 2002

Mr. C. M. Hobson  
Vice President, Environmental Affairs  
Georgia Power Company  
241 Ralph McGill Boulevard, NE  
Atlanta, GA 30308

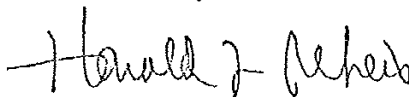
RE: Plant Scherer  
NPDES Permit No. GA0035564

Dear Mr. Hobson:

Pursuant to the Georgia Water Quality Control Act, as amended; the Federal Clean Water Act, as amended; and the Rules and Regulations promulgated thereunder, we have issued the attached National Pollutant Discharge Elimination System (NPDES) permit for the specified wastewater treatment facility.

Please be advised that on and after the effective date indicated in the attached NPDES permit, the permittee must comply with all the terms, conditions and limitations of this permit.

Sincerely,



Harold F. Reheis  
Director

HFR:th

Attachment

cc: Mr. Scott Gordon (w/attachment)  
U. S. Environmental Protection Agency

WIRE

PERMIT NO. GA0035564

STATE OF GEORGIA  
DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION

AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act;" the Federal Water Pollution Control Act, as amended (33 U.S. C. 1251 et seq.), hereinafter called the "Federal Act;" and the Rules and Regulations promulgated pursuant to each of these Acts,

Georgia Power Company  
241 Ralph McGill Boulevard, N.E.  
Atlanta, Georgia 30308

is authorized to discharge from a facility located at

Plant Scherer (SIC 4911)  
10986 Highway 87  
Juliette, Monroe County, Georgia 31046

to receiving waters

Berry Creek, Lake Juliette (Rum Creek) and the Ocmulgee River  
(Ocmulgee River Basin)

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II and III hereof.

This permit shall become effective on January 30, 2002.

This permit and the authorization to discharge shall expire at midnight, November 30, 2006.



Signed this 30<sup>th</sup> day of January, 2002.

A handwritten signature in cursive script, reading "Harold J. Scherer".

Director,  
Environmental Protection Division

STATE OF GEORGIA  
 DEPARTMENT OF NATURAL RESOURCES  
 ENVIRONMENTAL PROTECTION DIVISION

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 01 - Final Plant Discharge: Combined discharge of outfalls 01A, 01B, 01C, 01D, and 01E to the Ocmulgee River.

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	Mass Based		Concentration Based		Measurement Frequency	Sample Type	Sample Location
	Daily Avg.	Daily Max.	Daily Avg. (mg/l)	Daily Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Total Residual Chlorine (TRC)	-	-	-	-	1/Day*	Grab	Final Discharge

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per month by a grab sample of the final discharge to the Ocmulgee River.

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

\* Monitoring of TRC is required only during continuous service water chlorination for controlling asiatic clams.

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2. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 01A - Cooling Tower Blowdown for Units 1, 2, 3 and 4.

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u> Concentration Based			<u>Monitoring Requirements</u>		
	(mg/l)			Measurement Frequency	Sample Type	Sample Location
	Daily Max.	Avg.	Inst. Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-
Free Available Chlorine (FAC)	-	0.2	0.5	1/Week	Multiple Grabs	Blowdown Line
Total Residual Chlorine (TRC)	-	-	-	1/Week	Multiple Grabs	Blowdown Line
TRC Time (minutes/day/unit)	120	-	-	1/Week	Multiple Grabs	Blowdown Line
Total Residual Chlorine (TRC)	-	-	-	1/Week	Multiple Grabs	Service Water
Total Chromium	0.2	-	-	1/Year	Grab	Blowdown Line
Total Zinc	1.0	-	-	1/Year	Grab	Blowdown Line

Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharges attributable to cooling tower/condenser chlorination. Intervals are to be once per day during FAC and TRC discharges attributable to continuous service water chlorination. Samples are to be taken before each individual cooling tower blowdown combines with waste streams from other sources.

All numerical discharge limitations and monitoring requirements apply to the individual cooling tower blowdown from each generating unit. The limitations of 0.2/0.5 mg/l of FAC apply to FAC discharge attributable to cooling tower/condenser chlorination (i.e. effluent concentration of FAC above that due to continuous service water system chlorination). Time of discharge of TRC attributable to cooling tower/condenser chlorination is limited to 2 hours/day/unit. Simultaneous discharge of TRC attributable to cooling tower/condenser chlorination is prohibited.

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3. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 01B - Ash Transport Bleedoff (includes 03E Wastewater Basins Units 1, 2, 3 and 4, Low Volume Waste).

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

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		
	Mass Based		Concentration Based (mg/l)		Measurement Frequency	Sample Type	Sample Location*
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month	Grab	Bleedoff
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab	Bleedoff

\* Samples are to be taken at the ash transport bleedoff line prior to combination with any other wastewater stream.



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4. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 01C and 01D - Units 3 and 4 Cooling Tower Overflows/Basin Drains.

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	Units (Specify) (mg/l)				Measurement Frequency	Sample Type	Sample Location
Avg.	Inst. Max.	Daily Avg.	Daily Max.				
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month	Grab	Overflow
Oil & Grease (O & G)	-	-	15	20	2/Month	Grab	Overflow
Free Available Chlorine (FAC)	0.2	0.5	-	-	1/Week	Multiple Grabs	Overflow
Total Residual Chlorine (TRC)	-	-	-	-	1/Week	Multiple Grabs	Overflow
TRC Time (minutes/day/unit)	-	-	-	120	1/Week	Multiple Grabs	Overflow
Total Chromium	-	-	-	0.2	1/Year	Grab	Overflow
Total Zinc	-	-	-	1.0	1/Year	Grab	Overflow

TSS and O & G are required for basin drain discharges. FAC, TRC, TRC Time, chromium, and zinc are required for cooling tower overflow discharges.

Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharges attributable to cooling tower/condenser chlorination. Intervals are to be once per day during FAC and TRC discharges attributable to continuous service water chlorination. Samples are to be taken before each individual cooling tower overflow combines with waste streams from other sources.

All numerical discharge limitations and monitoring requirements apply to the individual cooling tower overflow from each generating unit. The limitations of 0.2/0.5 mg/l of FAC apply to FAC discharge attributable to cooling tower/condenser chlorination (i.e. effluent concentration of FAC above that due to continuous service water system chlorination). Time of discharge of TRC attributable to cooling tower/condenser chlorination is limited to 2 hours/day/unit. Simultaneous discharge of TRC attributable to cooling tower/condenser chlorination is prohibited.

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5. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 02 - Detention Pond (I Pond) and 02A - I Pond Bottom Drain; Discharges to Berry Creek (includes 02B, Fire Training Runoff and 02C, NPDES Basin Emergency Overflow).

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	Mass Based		Concentration Based		Measurement Frequency	Sample Type	Sample Location
	Daily Avg.	Daily Max.	Daily Avg. (mg/l)	Daily Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Total Residual Chlorine (TRC) <sup>(1)</sup>		-	-	-	1/Day	Grab	Final Discharge <sup>(3)</sup>

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per month by a grab sample at the final discharge to Berry Creek or at the bottom drain when discharging.

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

- (1) Monitoring of TRC is required only when continuous service water chlorination for controlling asiatic clams coincides with discharge from the NPDES Basin Emergency Overflow (02C) to I Pond.
- (2) Monitoring for pH is required only when the NPDES Basin Emergency Overflow (02C) is discharging to I pond.
- (3) Final discharge or bottom drain when discharging.

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6. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 04 - Service Water Final Discharge to Lake Juliette.

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	Mass Based		Concentration Based		Measurement Frequency	Sample Type	Sample Location
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Temperature	-	-	-	-	1/Quarter	Grab	*
Total Residual Chlorine (TRC)		-	-	-	1/Quarter	Grab	*

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

\* Temperature will be monitored and reported for the plant intake and the discharge. TRC will also be monitored and reported for the discharge. The temperature difference ("ΔT") between the intake and discharge temperature shall be calculated and entered on the monitoring report. The discharge temperature and TRC are the temperature and TRC recorded at a point not more than 50 feet from the discharge pipe outlet at a depth of 3 feet or other locations approved by the Division.

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7. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 05 and 06 - Units 1 and 2 Cooling Tower Overflows/Basin Drains to Lake Juliette.

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>			
	Units (Specify) (mg/l)				Measurement Frequency	Sample Type	Sample Location	
	Avg.	Inst.	Max.	Daily Avg.				Daily Max.
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-	
Total Suspended Solids (TSS)	-	-	-	30	100	2/Month	Grab	Overflow
Oil & Grease (O & G)	-	-	-	15	20	2/Month	Grab	Overflow
Free Available Chlorine (FAC)	0.2	0.5	-	-	-	1/Week	Multiple Grabs	Overflow
Total Residual Chlorine (TRC)	-	-	-	-	-	1/Week	Multiple Grabs	Overflow
TRC Time (minutes/day/unit)	-	-	-	-	120	1/Week	Multiple Grabs	Overflow
Total Chromium	-	-	-	-	0.2	1/Year	Grab	Overflow
Total Zinc	-	-	-	-	1.0	1/Year	Grab	Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sampling. There shall be no discharge of floating solids or visible foam in other than trace amounts.

TSS, O & G and pH are required for basin drain discharges. FAC, TRC, TRC Time, chromium, zinc, and pH are required for cooling tower overflow discharges.

Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharges attributable to cooling tower/condenser chlorination. Intervals are to be once per day during FAC and TRC discharges attributable to continuous service water chlorination. Samples are to be taken before each individual cooling tower overflow combines with waste streams from other sources.

All numerical discharge limitations and monitoring requirements apply to the individual cooling tower overflow from each generating unit. The limitations of 0.2/0.5 mg/l of FAC apply to FAC discharge attributable to cooling tower/condenser chlorination (i.e. effluent concentration of FAC above that due to continuous service water system chlorination). Time of discharge of TRC attributable to cooling tower/condenser chlorination is limited to 2 hours/day/unit. Simultaneous discharge of TRC attributable to cooling tower/condenser chlorination is prohibited.

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8. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 07 - Settling Pond Emergency Overflow to Lake Juliette (Ash Transport Water).

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	Mass Based		Concentration Based (mg/l)		Measurement Frequency*	Sample Type	Sample Location
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Total Suspended Solids (TSS)-	-	-	30	100	2/Month	Grab	Overflow
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab	Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sampling.\*

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

\* Monitoring for TSS, O&G, and pH is required only when an overflow is occurring.

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9. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 08 - Employee Car Wash, 09 Service Water Pump Seal Water, 10 Service Water Screen Backwash, 12 Condensate/Filtered Water/Potable Water Tank Overflows discharging to Lake Juliette, and 11 River Intake Pump Seal Water discharging to the Ocmulgee River.

Such discharges shall be limited as specified below:

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

These discharges shall remain as described above. If the Director determines that water quality standards are not being met as the result of these discharges and so notifies the permittee in writing, the permittee shall take all reasonable steps to prevent the discharge from causing water quality standards to be exceeded in the receiving water.

STATE OF GEORGIA  
 DEPARTMENT OF NATURAL RESOURCES  
 ENVIRONMENTAL PROTECTION DIVISION

10. During the period beginning effective date and lasting through November 30, 2006, the permittee is authorized to discharge from outfall(s) serial number(s) 13 and 14 - Emergency Overflows to Lake Juliette (Low Volume Wastes) from Units 1 and 2 Wastewater Basin and Units 3 and 4 Wastewater Basin.

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	Mass Based		Concentration Based (mg/l)		Measurement Frequency*	Sample Type	Sample Location
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.			
Flow-m <sup>3</sup> Day (MGD)	-	-	-	-	-	-	-
Total Suspended Solids (TSS)-		-	30	100	2/Month	Grab	Overflow
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab	Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sampling.\*

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

\* Monitoring for TSS, O&G, and pH is required only when an overflow is occurring.

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B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Effluent limitations are effective upon issuance of this permit.

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.



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**Note:** EPD as used herein means the Environmental Protection Division of the Department of Natural Resources.

C. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous three months shall be summarized for each month and reported on an Operation Monitoring Report (Form WQ 1.45). Forms other than Form WQ 1.45 may be used upon approval by EPD. These forms and any other required reports and information shall be completed, signed and certified by a principal executive officer or ranking elected official, or by a duly authorized representative of that person, and submitted to the Division, postmarked no later than the 21st day of the month following the reporting period. Signed copies of these and all other reports required herein shall be submitted to the following address:

Georgia Environmental Protection Division  
Industrial Wastewater Program  
4220 International Parkway  
Suite 101  
Atlanta, Georgia 30354

All instances of noncompliance not reported under Part I. B. and C. and Part II. A. shall be reported at the time the operation monitoring report is submitted.

3. Definitions

- a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days sampled during the calendar month when the measurements were made.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day.

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- c. The "daily average" concentration means the arithmetic average of all the daily determinations of concentrations made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample.
- d. The "daily maximum" concentration means the daily determination of concentration for any calendar day.
- e. For the purpose of this permit, a calendar day is defined as any consecutive 24-hour period.
- f. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- g. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

4. Test Procedures

Monitoring must be conducted according to test procedures approved pursuant to 40 CFR Part 136 unless other test procedures have been specified in this permit.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling or measurements, and the person(s) performing the sampling or the measurements;
- b. The dates the analyses were performed, and the person(s) who performed the analyses;
- c. The analytical techniques or methods used; and
- d. The results of all required analyses.

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6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Operation Monitoring Report Form (WQ 1.45). Such increased monitoring frequency shall also be indicated. The Division may require by written notification more frequent monitoring of other pollutants not required in this permit.

7. Records Retention

The permittee shall retain records of all monitoring information, including all records of analyses performed, calibration and maintenance of instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Division at any time.

8. Penalties

The Federal Clean Water Act and the Georgia Water Quality Control Act provide that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine or by imprisonment, or by both. The Federal Clean Water Act and the Georgia Water Quality Control Act also provide procedures for imposing civil penalties which may be levied for violations of the Act, any permit condition or limitation established pursuant to the Act, or negligently or intentionally failing or refusing to comply with any final or emergency order of the Director of the Division.

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A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

- a. Advance notice to the Division shall be given of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Any anticipated facility expansions, production increases, or process modifications must be reported by submission of a new NPDES permit application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the Division of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.
- b. All existing manufacturing, commercial, mining, and silviculture dischargers shall notify the Division as soon as it is known or there is reason to believe that any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant not limited in the permit, if that discharge will exceed (i) 100  $\mu\text{g/l}$ , (ii) five times the maximum concentration reported for that pollutant in the permit application, or (iii) 200  $\mu\text{g/l}$  for acrolein and acrylonitrile, 500  $\mu\text{g/l}$  for 2,4 dinitrophenol and for 2-methyl-4-6-dinitrophenol, or 1 mg/l antimony.
- c. All existing manufacturing, commercial, mining, and silvicultural dischargers shall notify the Division as soon as it is known or there is reason to believe that any activity has occurred or will occur which would result in any discharge on a nonroutine or infrequent basis, of any toxic pollutant not limited in the permit, if that discharge will exceed (i) 500  $\mu\text{g/l}$ , (ii) ten times the maximum concentration reported for that pollutant in the permit application, or (iii) 1 mg/l antimony.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with, or will be unable to comply with any effluent limitation specified in this permit, the permittee shall provide the Division with an oral report within 24 hours from the time the permittee becomes aware of the circumstances followed by a written report within five (5) days of becoming aware of such condition. The written submission shall contain the following information:

- a. A description of the discharge and cause of noncompliance; and

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- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Bypassing

- a. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Division at least 10 days (if possible) before the date of the bypass. The permittee shall submit notice of any unanticipated bypass with an oral report within 24 hours from the time the permittee becomes aware of the circumstances followed by a written report within five (5) days of becoming aware of such condition. The written submission shall contain the following information:
  1. A description of the discharge and cause of noncompliance; and
  2. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

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- b. Any diversion or bypass of facilities covered by this permit is prohibited, except (i) where unavoidable to prevent loss of life, personal injury, or severe property damage; (ii) 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 the permittee could have installed adequate back-up equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and (iii) the permittee submitted a notice as required above. The permittee shall operate the treatment works, including the treatment plant and total sewer system, to minimize discharge of the pollutants listed in Part I of this permit from combined sewer overflows or bypasses. Upon written notification by the Division, the permittee may be required to submit a plan and schedule for reducing bypasses, overflows, and infiltration in the system.

6. Sludge Disposal Requirements

Hazardous sludge shall be disposed of in accordance with the regulations and guidelines established by the Division pursuant to the Federal Clean Water Act (CWA) and the Resource Conservation and Recovery Act (RCRA). For land application of nonhazardous sludge, the permittee shall comply with any applicable criteria outlined in the Division's "Guidelines for Land Application of Municipal Sludges." Prior to disposal of sludge by land application, the permittee shall submit a proposal to the Division for approval in accordance with applicable criteria in the Division's "Guidelines for Land Application of Municipal Sludges." Upon evaluation of the permittee's proposal, the Division may require that more stringent control of this activity is required. Upon written notification, the permittee shall submit to the Division for approval, a detailed plan of operation for land application of sludge. Upon approval, the plan will become a part of the NPDES permit. Disposal of nonhazardous sludge by other means, such as landfilling, must be approved by the Division.

7. Sludge Monitoring Requirements

The permittee shall develop and implement procedures to insure adequate year-round sludge disposal. The permittee shall monitor the volume and concentration of solids removed from the plant. Records shall be maintained which document the quantity of solids removed from the plant. The ultimate disposal of solids shall be reported monthly (in the unit of lbs/day) to the Division with the Operation Monitoring Report Forms required under Part I (C)(2) of this permit.

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8. Power Failures

Upon the reduction, loss, or failure of the primary source of power to said water pollution control facilities, the permittee shall use an alternative source of power if available to reduce or otherwise control production and/or all discharges in order to maintain compliance with the effluent limitations and prohibitions of this permit.

If such alternative power source is not in existence, and no date for its implementation appears in Part I, the permittee shall halt, reduce or otherwise control production and/or all discharges from wastewater control facilities upon the reduction, loss, or failure of the primary source of power to said wastewater control facilities.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Director of the Division, the Regional Administrator of EPA, and/or their authorized representatives, agents, or employees, upon the presentation of credentials:

- a. To enter upon the permittee's premises where a regulated activity or facility is located or conducted or where any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and to sample any substance or parameters in any location.

2. Transfer of Ownership or Control

A permit may be transferred to another person by a permittee if:

- a. The permittee notifies the Director in writing of the proposed transfer at least thirty (30) days in advance of the proposed transfer;
- b. A written agreement containing a specific date for transfer of permit responsibility and coverage between the current and new permittee (including acknowledgement that the existing permittee is liable for violations up to that date, and that the new permittee is liable for violations from that date on) is submitted to the Director at least thirty (30) days in advance of the proposed transfer; and

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- c. The Director, within thirty (30) days, does not notify the current permittee and the new permittee of the Division's intent to modify, revoke and reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

3. Availability of Reports

Except for data deemed to be confidential under O.C.G.A. § 12-5-26 or by the Regional Administrator of the EPA under the Code of Federal Regulations, Title 40, Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at an office of the Division. Effluent data, permit applications, permittee's names and addresses, and permits shall not be considered confidential.

4. Permit Modification

After written notice and opportunity for a hearing, this permit may be modified, suspended, revoked or reissued in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge; or
- d. To comply with any applicable effluent limitation issued pursuant to the order the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et.al. v. Russell E. Train, 8 ERC 2120(D.D.C. 1976), if the effluent limitation so issued:
  - (1) is different in conditions or more stringent than any effluent limitation in the permit; or
  - (2) controls any pollutant not limited in the permit.

5. Toxic Pollutants

The permittee shall comply with effluent standards or prohibitions established pursuant to Section 307(a) of the Federal Clean Water Act for toxic pollutants, which are present in the discharge within the time provided in the regulations



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that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

6. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Federal Clean Water Act.

8. Water Quality Standards

Nothing in this permit shall be construed to preclude the modification of any condition of this permit when it is determined that the effluent limitations specified herein fail to achieve the applicable State water quality standards.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. Expiration of Permit

Permittee shall not discharge after the expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the agency authorized to issue permits no later than 180 days prior to the expiration date.

11. Contested Hearings

Any person who is aggrieved or adversely affected by an action of the Director of the Division shall petition the Director for a hearing within thirty (30) days of notice of such action.

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12. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

13. Best Management Practices

The permittee will implement best management practices to control the discharge of hazardous and/or toxic materials from ancillary manufacturing activities. Such activities include, but are not limited to, materials storage areas, in-plant transfer, process and material handling areas; loading and unloading operations; plant site runoff; and sludge and waste disposal areas.

14. Need to Halt or Reduce Activity Not a Defense

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.

15. Duty to Provide Information

a. The permittee shall furnish to the Director of the Division, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish upon request copies of records required to be kept by this permit.

b. When the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts and information.

26. Upset Provisions

Provisions of 40 CFR 122.41(n)(1)-(4), regarding "Upset" shall be applicable to any civil, criminal, or administrative proceeding brought to enforce this permit.

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A. PREVIOUS PERMITS

1. All previous State water quality permits issued to this facility, whether for construction or operation, are hereby revoked by the issuance of this permit. This action is taken to assure compliance with the Georgia Water Quality Control Act, as amended, and the Federal Clean Water Act, as amended. Receipt of the permit constitutes notice of such action. The conditions, requirements, terms and provisions of this permit authorizing discharge under the National Pollutant Discharge Elimination System govern discharges from this facility.

B. SPECIAL REQUIREMENTS

1. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.
2. Any metal cleaning wastes generated will be contained for further treatment or disposal in a manner to permit compliance at time of discharge (O3I, Chemical Cleaning Wastes) with requirements listed below or disposed of in a manner approved by the Division. This applies to any preoperational chemical cleaning of metal process equipment also. The treatment and disposal procedures shall be discussed in the flow monitoring and characterization submittal.
3. The quantity of pollutants discharged (O3I, Chemical Cleaning Wastes) in metal cleaning waste shall not exceed the quantity determined by multiplying the flow of metal cleaning wastes times the concentrations listed below. All effluent characteristics shall be monitored 1/week by grab sampling when a discharge is occurring.

<u>Effluent Characteristic</u>	<u>Discharge Limitation (mg/l)</u>	
	<u>Daily Average</u>	<u>Daily Maximum</u>
Total Suspended Solids	30	100
Oil and Grease	15	20
Copper	1.0	1.0
Iron	1.0	1.0

4. Neither free available chlorine (FAC) nor total residual chlorine (TRC) may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Director that the units in a particular location cannot operate at or below this level of chlorination. The permittee has demonstrated the need to continuously chlorinate the service water system to control asiatic clams. The present intent is to chlorinate the service water periodically from April through October, five days per month for 24 hours per day at an initial level of 1.0 mg/l FAC. Other months, longer durations, and lower FAC levels may be used. This chlorination practice will result occasionally in the discharge of FAC or TRC from each cooling tower simultaneously and for more than 2 hours per day. The permittee must reduce the chlorine discharge if possible and has performed a study to determine the minimum practicable chlorine levels,

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- frequencies and duration of continuous chlorination for the service water system to adequately control asiatic clams.
5. In accordance with 40 CFR 423.11(k), the free available chlorine (FAC) average means the average over any individual chlorine release period of 2 hours per day per unit. The FAC maximum is the instantaneous maximum which may occur at any time. Further, the permittee will develop a system for monitoring and recording total time of FAC and TRC discharges. The results shall be reported in a suitably concise form.
  6. In accordance with 40 CFR 423.13(d)(3), the permittee shall certify every two years in the flow characterization study that no priority pollutant other than chromium or zinc is above detectable limits in outfall 01A, 01C, 01D, 05 and 06 (cooling tower blowdowns or overflows). This certification may be based on manufacturers' certifications or engineering calculations.
  7. In the event that waste streams for various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property controlled by this permit shall not exceed the specified limitations for that source.
  8. The Director may modify any effluent limitation upon request of the permittee if such limitation is covered by an approved variance or by an amendment to the Federal Clean Water Act.
  9. Once every two years, the permittee shall submit to the Director flow monitoring and characterization information regarding the various waste streams.
  10. All sewage treatment plants (STP) must be properly operated and maintained. This applies to 03A No. 2 STP, 03B No. 4 STP, and 03C, No. 1 STP.
  11. Summary of flow characterization study requirements from preceding pages.
    - a. Metal cleaning waste treatment and disposal procedures.
    - b. Flow determination of various waste streams.
    - c. Cooling tower blowdown priority pollutant certification per 40 CFR 423.13(d)(3).
  12. The provisions of 40 CFR 122.41(l)(6)(iii) regarding waiver of the 5 day written report required by Part II.A.2. and Part II.A.5 of this permit shall be applicable and may be implemented on a case-by-case basis by EPD for noncompliances which are orally reported by the permittee within 24 hours of discovery of the noncompliance condition.
  13. The Division recognizes the inherent analytical variability in approved test methods and procedures and further agrees that such issues can be raised by the permittee as a defense in an enforcement action.

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14. Upon approval of the Director, the permittee shall, on a case-by-case basis, be able to utilize alternative analytical methods, conversion factors, methodology, procedures, or new technologies, to ensure that the biomonitoring and toxicity reduction requirements of Part III.C. and the testing/reporting requirements of the permit are adequately addressed.
15. If the results for a given sample are such that a parameter is not detected at or above the method detection limit or reporting limit, a value of zero will be reported for that sample and the method detection limit or reporting limit will also be reported. Such sample shall be deemed to be in compliance with the permit limit.
16. The best management practices plan for "Macrofouling and Biofouling Control" dated July 26, 2001 is hereby approved and incorporated in this permit. The plan may be modified upon written approval by the Division.
17. The permittee is authorized to discharge storm water from the outfalls identified in Part I, Section A. of this permit provided that these discharges do not cause violations of State water quality standards in the receiving streams.

C. BIOMONITORING AND TOXICITY REDUCTION REQUIREMENTS

In order to determine whether the permittee is discharging wastes in concentrations or combinations which may have an adverse impact on the State's water quality, the Division can require the permittee to conduct a biomonitoring program.

If toxicity is believed to be present in the permittee's effluent, the Division may require the permittee to develop a biomonitoring screening program according to the following schedule:

1. Within 90 days of Division notification a screening program study plan detailing the test methodology and test organisms shall be submitted for conducting a forty-eight hour static acute test of the final effluent.

Note: If residual chlorine is present in the final effluent from a treatment and/or disinfection process, a prechlorinated or dechlorinated sample will be tested.

2. Within 90 days of Division approval of the study plan, the permittee shall conduct and submit the results of the forty-eight hour static acute test.

The Division will then review the results of the forty-eight hour static acute test. If the test criteria specified in the study plan are exceeded, then the permittee shall within 90 days of written notification by the Division repeat steps 1. and 2. above replacing the forty-eight hour static acute test with the ninety-six hour test.

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The Division will then review the results of the ninety-six hour test. If the criteria\* detailed in the ninety-six hour test indicates toxicity, then the permittee shall within 90 days of written notification by the Division submit to the Division a plan to reduce the toxicity of the effluent. Within 270 days of Division approval of this plan, the permittee shall implement the plan and initiate follow-up biomonitoring of the effluent in accordance with the approved toxicity reduction plan. The toxicity reduction plan shall not be complete until the permittee meets the criteria detailed in the ninety-six hour test plan.

If there are substantial composition changes in the permittee's effluent, the permittee may be required to repeat the forty-eight hour static acute test upon notification by the Division. Unless otherwise advised, the permittee shall perform biomonitoring of the effluent as provided in C. 1. and 2. above, at a minimum of once every three years upon notification by the Division. On a case specific basis, chronic toxicity testing procedures may be required. Upon approval by the Division, all of the plans will become part of the requirements of this permit.

\*The 96 hour criteria shall define toxicity as a greater than 10% mortality of the exposed test organisms in 96 hours or less when the test solution contains volumes of effluent and dilution water proportional to the plant daily average flow and the 7Q10 flow of the receiving stream, as determined using test procedures and methods, and statistical methods for evaluating test results, developed by the permittee and approved by the Division pursuant to this section or revised pursuant to Part III. B. 14. above.



January 30, 2018  
**CERTIFIED MAIL**

**Mark S. Berry**  
Vice President  
Environmental &  
Natural Resources

241 Ralph McGill Boulevard NE  
Atlanta, GA 30308-3374  
404 506 7777 tel  
404 506 2488 fax  
msberry@southernco.com

Mr. Richard E. Dunn, Director  
Environmental Protection Division  
2 Martin Luther King Jr. Drive SE  
Suite 1456 East, Floyd Tower  
Atlanta, Georgia 30334-9000

**RE: Plant Scherer  
NPDES Permit No. GA00035564  
Application for Permit Renewal**

Dear Mr. Dunn:

Attached is an updated NPDES permit renewal application package for Georgia Power Company's Plant Scherer facility, located in Juliette, Georgia.

The updated application package includes the following supporting documentation:

- EPA NPDES Application Forms 1 and 2C
- Water flow diagrams for:
  - a. Current Configuration; and
  - b. Ash Pond Closure Configuration
- USGS 7.5 minute topographic location map showing the facility
- NPDES Industrial Permit Application Addendum
- 316(b) Cooling Water Intake Structure information
- Effluent Limitations Guidelines Applicability Timing

As noted above, ash pond dewatering activities are likely to occur during the permit term. As such, the application package includes two flow diagrams. The first diagram depicts the current wastewater flow schematic; this flow pattern is expected to remain until commencement of ash pond closure. The second diagram represents the wastewater flow schematic necessary to support ash pond closure and during the dewatering process. Georgia Power will notify EPD in advance of ash pond dewatering activities in accordance with NPDES Permit.

If you need additional information or have any questions regarding this application package, please contact Jean Brown at [jeabrown@southernco.com](mailto:jeabrown@southernco.com) or 404-506-6360.

Sincerely,

A handwritten signature in blue ink that reads "Mark S. Berry".

Mark S. Berry, Vice President  
Environmental & Natural Resources

Attachments

xc: Ms. Audra Dickson, EPD Industrial Permitting Unit, with attachments

**Plant Scherer NPDES Permit Renewal Application**  
**January 30, 2018**  
**PAGE 2**

**bc: Michelle Kroh           with attachments**  
**Christine Ridley           “**  
**E.F. Veira                 “**  
**Jean Brown                “**  
**Scott Smith                “**

**File: POW 07-01-11-00**



Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM <b>1</b> GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY <b>GENERAL INFORMATION</b> Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I EPA I.D. NUMBER F GAD000612796 1 2 13 14 15
LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION		PLEASE PLACE LABEL IN THIS SPACE	GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.
II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.			
SPECIFIC QUESTIONS		Mark "X" YES NO FORM ATTACHED	SPECIFIC QUESTIONS YES NO FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> FORM ATTACHED	B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> FORM ATTACHED	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> FORM ATTACHED	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> FORM ATTACHED	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> FORM ATTACHED	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)
III. NAME OF FACILITY 1 SKIP PLANT SCHERER			
IV. FACILITY CONTACT A. NAME & TITLE (last, first, & title) B. PHONE (area code & no.) 2 BERRY, MARK S., VP, ENVIRONMENTAL & NATURAL RESOURCES (404) 506-7777			
V. FACILITY MAILING ADDRESS A. STREET OR P.O. BOX B. CITY OR TOWN C. STATE D. ZIP CODE 3 241 RALPH MCGILL BLVD., N.E. ATLANTA GA 30308			
VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER B. COUNTY NAME C. CITY OR TOWN D. STATE E. ZIP CODE F. COUNTY CODE (if known) 5 10986 HIGHWAY 87 MONROE GA 31046 N/A			

CONTINUED FROM THE FRONT

VII SIC CODES (4-digit in order of priority)			
A. FIRST		B. SECOND	
7	4911 (specify) Generation of electricity	7	(specify) N/A
C. THIRD		D. FOURTH	
7	(specify) N/A	7	(specify) N/A

VIII OPERATOR INFORMATION	
A. NAME	
8 GEORGIA POWER COMPANY	
B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box. If "Other," specify.)		D. PHONE (area code & no.)	
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC (other than federal or state) O = OTHER (specify)	P (specify)	A (404) 506-6526

E. STREET OR P.O. BOX	
241 RALPH MCGILL BLVD., N.E.	

F. CITY OR TOWN		G. STATE	H. ZIP CODE	IX. INDIAN LAND
B ATLANTA		GA	30308	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

X. EXISTING ENVIRONMENTAL PERMITS			
A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
9	N GA0035564	9	P N/A
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
9	U N/A	9	(specify) N/A
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
9	R N/A	9	(specify) N/A

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

XII. NATURE OF BUSINESS (provide a brief description)  
 Generation of electricity through combustion of fossil fuels.  
 \*Plant Scherer is jointly owned by: Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, Florida Power and Light, Jacksonville Electric Authority, Gulf Power Company and the City of Dalton.

XIII. CERTIFICATION (see instructions)  
 I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Mark Berry, V.P., Env & Nat Resources	<i>Mark Berry</i>	01/29/18

COMMENTS FOR OFFICIAL USE ONLY	
C	

EPA ID NUMBER (copy from Item 1 of Form 1)  
 GAD000612796

Form Approved  
 OMB No. 2040-0086  
 Approval expires 3-31-98

Please print or type in the unshaded areas only

<b>FORM 2C NPDES</b>				U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>			
<b>I. OUTFALL LOCATION</b>							
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.							
A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1 DEG	2 MIN	3 SEC	1 DEG	2 MIN	3 SEC	
01	33.00	5.00	6.00	-83.00	46.00	44.00	Ocmulgee River
02	33.00	4.00	18.00	-83.00	47.00	45.00	Berry Creek
<b>II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES</b>							
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.							
B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.							
1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT			
	a. OPERATION (list)	b. AVERAGE FLOW (include units)		a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1	
01	Pinal Plant Discharge	14,852 gpm		19,000 gpm (maximum)		2F*	4A
	Stormwater						
01A	Cooling Tower Blowdown	11,700 gpm		11,000 gpm (maximum)		2F*	4A
	Units 1-4						
01B	Ash Transport Bleedoff	6,500 gpm		19,753 gpm (maximum)			4A
01C	Unit 3 Cooling Tower Overflow	**		15,820 gpm (maximum)		2F*	4A
	and Basin Drain						
01D	Unit 4 Cooling Tower Overflow	**		15,820 gpm (maximum)		2F*	4A
	and Basin Drain						
01E	NPDES Basin Minimum Flow	**		2,238 gpm (maximum)		2F*	4A
02	Detention Pond (I-Pond)	451 gpm		22,266 gpm		1-U	4A
	Stormwater			(10 yr - 24 hr rainfall event)			
02A	Detention Pond Bottom Drain	**				1-U	4A
02B	Fire Training Runoff	**					4A
02C	NPDES Basin Emergency Overflow	**				2F*	4A
	Stormwater					1-U	
	* During periods of chlorination						
	** Intermittent or emergency discharge						
OFFICIAL USE ONLY (effluent guidelines sub-categories)							

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
 GAD000612796

Form Approved.  
 OMB No. 2040-0086  
 Approval expires 3-31-98.

Please print or type in the unshaded areas only.


<b>FORM 2C NPDES</b>		U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>					
<b>I. OUTFALL LOCATION</b>							
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.							
A. OUTFALL NUMBER <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
03							Internal
<b>II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES</b>							
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.							
B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.							
1. OUT-FALL NO. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT			
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>		a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1	
03	Ash Transport Water	38,500 gpm		50,000 gpm (maximum)		4C	4A
	Stormwater					1U	2K
03A	No. 2 Sewage Treatment Plant	2 gpm		120 gpm (maximum)		3A	4C
						2F	
03B	No. 4 Sewage Treatment Plant	1 gpm		17 gpm (maximum)		3A	4C
						2F	
03C	No 1. Sewage Treatment Plant	2 gpm		30 gpm (maximum)		3A	4C
						2F	
03D	Coal Pile Runoff Basin	2,361 gpm		5,300 gpm (maximum)		4C	1U
03E	Wastewater Basins - Units 1-4	4,623 gpm		15,000 gpm (maximum)		4C	
03F	Low Volume Wastes- Units 1-4	5,388 gpm		8,600 gpm (maximum)		4C	
03G	Tractor Garage	1 gpm		500 gpm (maximum)		4C	
03H	Coal Pile Runoff	561 gpm		12,800 gpm (maximum)		4C	1U
03I	Chemical Cleaning Wastes	**		12,800 gpm (maximum)		2K	4C
						2C	1U
	** Intermittent or emergency discharge						
<b>OFFICIAL USE ONLY (effluent guidelines sub-categories)</b>							



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FORM <b>2C</b> NPDES				U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program			
<b>I. OUTFALL LOCATION</b>							
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water							
A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1 DEG.	2 MN	3 SEC.	1 DEG.	2 MIN	3 SEC.	
04, 05, 06, 07	33.00	3.00	14.00	-83.00	48.00	26.00	Lake Juliette
<b>II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES</b>							
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.							
B. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation, and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.							
1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT			
	a. OPERATION (list)	b. AVERAGE FLOW (include units)		a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1	
04	Service Water Final Discharge	1,527 gpm		42,000 gpm (maximum)		2F*	4A
04A	Service Water Return	**		42,000 gpm (maximum)		2F*	4A
04B	Service Water Minimum Flow	1,527 gpm		66,000 gpm (maximum)		2F*	4A
05	Unit 1 Cooling Tower Overflow and Basin Drain	**		15,820 gpm (maximum)		2F*	4A
06	Low Volume Wastes- Units 1-4 and Basin Drain	**		15,820 gpm (maximum)		2F*	4A
07	Settling Pond Emergency Overflow	**		57,000 gpm (maximum)		1U	4A
	Stormwater					2K	
	* During periods of chlorination						
	** Intermittent or emergency discharge						
OFFICIAL USE ONLY (effluent guidelines sub-categories)							

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<b>FORM 2C NPDES</b>				U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>			
<b>I. OUTFALL LOCATION</b>							
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.							
A. OUTFALL NUMBER <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
	1 DEG	2 MIN	3 SEC	1 DEG	2 MIN	3 SEC	
08, 09, 10, 12	33.00	3.00	14.00	-83.00	48.00	26.00	Lake Juliette
11	33.00	2.00	51.00	-83.00	44.00	21.00	Ocmulgee River
<b>II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES</b>							
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities) provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.							
B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation, and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.							
1. OUTFALL NO. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT			
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>		a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1	
08	Employee Carwash	7 gpm		325 gpm (maximum)		4A	
	Stormwater						
09	Service Water Pump Seal Water	65 gpm		78 gpm (maximum)		4A	
10	Service Water Screen Backwash	510 gpm		765 gpm (maximum)		4A	
11	River Intake Pump Seal Water	100 gpm		100 gpm (maximum)		2P* 4A	
12	Condensate, Filtered Water and Potable Water Tank Overflow	**		2,536 gpm (maximum)		2P* 4A	
	Stormwater						
	* During periods of chlorination						
	** Intermittent or emergency discharge						
OFFICIAL USE ONLY <i>(effluent guidelines sub-categories)</i>							





CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal? <input type="checkbox"/> YES (complete the following table) <input type="checkbox"/> NO (go to Section III)								
1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
	See Attachment 1 for intermittent discharges  Analysis of overflows and emergency discharges are submitted with the Operating Monitoring Reports							
<b>III. PRODUCTION</b>								
A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility? <input checked="" type="checkbox"/> YES (complete Item III-B) <input type="checkbox"/> NO (go to Section IV)								
B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)? <input type="checkbox"/> YES (complete Item III-C) <input checked="" type="checkbox"/> NO (go to Section IV)								
C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.								
1. AVERAGE DAILY PRODUCTION						2. AFFECTED OUTFALLS (list outfall numbers)		
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC (specify)						
<b>IV. IMPROVEMENTS</b>								
A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions. <input type="checkbox"/> YES (complete the following table) <input checked="" type="checkbox"/> NO (go to Item IV-B)								
1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE				
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED			
B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. <input type="checkbox"/> MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED								

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
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CONTINUED FROM PAGE 2

**V. INTAKE AND EFFLUENT CHARACTERISTICS**

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.  
 NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None			

**VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS**

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?  
 YES (list all such pollutants below)       NO (go to Item VI-B)

Empty space for listing pollutants or providing details for the 'NO' response.

CONTINUED FROM THE FRONT

**VII. BIOLOGICAL TOXICITY TESTING DATA**

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

- YES (identify the test(s) and describe their purposes below)  NO (go to Section VIII)

**VIII. CONTRACT ANALYSIS INFORMATION**


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

- YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)  NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Pace Analytical Services, LLC	110 Technology Parkway Peachtree Corners, GA 30092	770-734-4200	All except pH, temperature, sulfite and low level mercury
Pace Analytical Services, LLC	2225 Riverside Drive Asheville, NC 28804	828-254-7176	Low level mercury

**IX. CERTIFICATION**

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

A. NAME & OFFICIAL TITLE (type or print) Mark Berry, Vice President, Environmental & Natural Resources	B. PHONE NO. (area code & no.) (404) 506-7777
C. SIGNATURE 	D. DATE SIGNED 01/29/18

## **INTERMITTENT FLOW DESCRIPTIONS**

### **Attachment 1 for Form 2C page 2**

#### **Outfalls 01C, 01D, 05, and 06 – Cooling Tower Overflow / Basin Drain**

Overflows from cooling towers may occur infrequently during equipment malfunction or emergency conditions. The estimated overflow discharge (15,820 gpm) is the design make-up water flow. Draining of the cooling tower basins may occur during unit outages. The frequency is dependent on unit operation and is estimated at twice per year.

#### **Outfall 01E - NPDES Basin Minimum Flow**

NPDES system minimum flows typically occur during periods of unit outages or cooling tower biocide treatment due to reduced cooling tower blow-down. The effluent is service water with a maximum discharge of 2,238 gpm.

#### **Outfall 02A - I-Pond Bottom Drain**

Discharges from the Detention (I-Pond) through the bottom drain could occur if necessary to perform dike, dam, or pond maintenance.

#### **Outfall 02B - Fire Training Runoff**

Discharges of filtered water used for fire training purposes may occur during the year due to classes conducted on site.

#### **Outfall 02C - NPDES Basin Emergency Overflow**

The normal discharge for the NPDES basin is through Outfall 01. In the event of equipment malfunctions or emergency conditions, the basin may discharge through this outfall. Past events have been infrequent and of short duration.

#### **Outfall 03I - Chemical Metal Cleaning Wastes**

Boiler and turbine cleaning wastes are usually treated with sodium hydroxide or lime to a pH sufficient to precipitate the iron and copper suspended in solution. The water is then pumped to the ash pond via the wastewater basin. Boiler cleaning is infrequent and turbine cleaning is typically once per year. Rainwater is also pumped out of the chemical cleaning basin into the Units 1 & 2 wastewater basin.

#### **Outfall 03K – Limestone and Gypsum Handling Area Runoff**

Discharges from storm water runoff from the limestone stockpile and gypsum handling area will depend on frequency and volume of rainfall events. These will flow to the Coal Pile Runoff Pond which is pumped to the Ash Pond.

### **Outfall 03M – Non-Chemical Metal Cleaning Wastes**

Precipitators may be washed down during outages. This water will now be sent to the new Coal Pile Runoff Treatment System (in the 2019 flow schematic). The frequency is dependent on unit operation and is estimated at once per year.

### **Outfall 07 - Settling Pond Emergency Overflow**

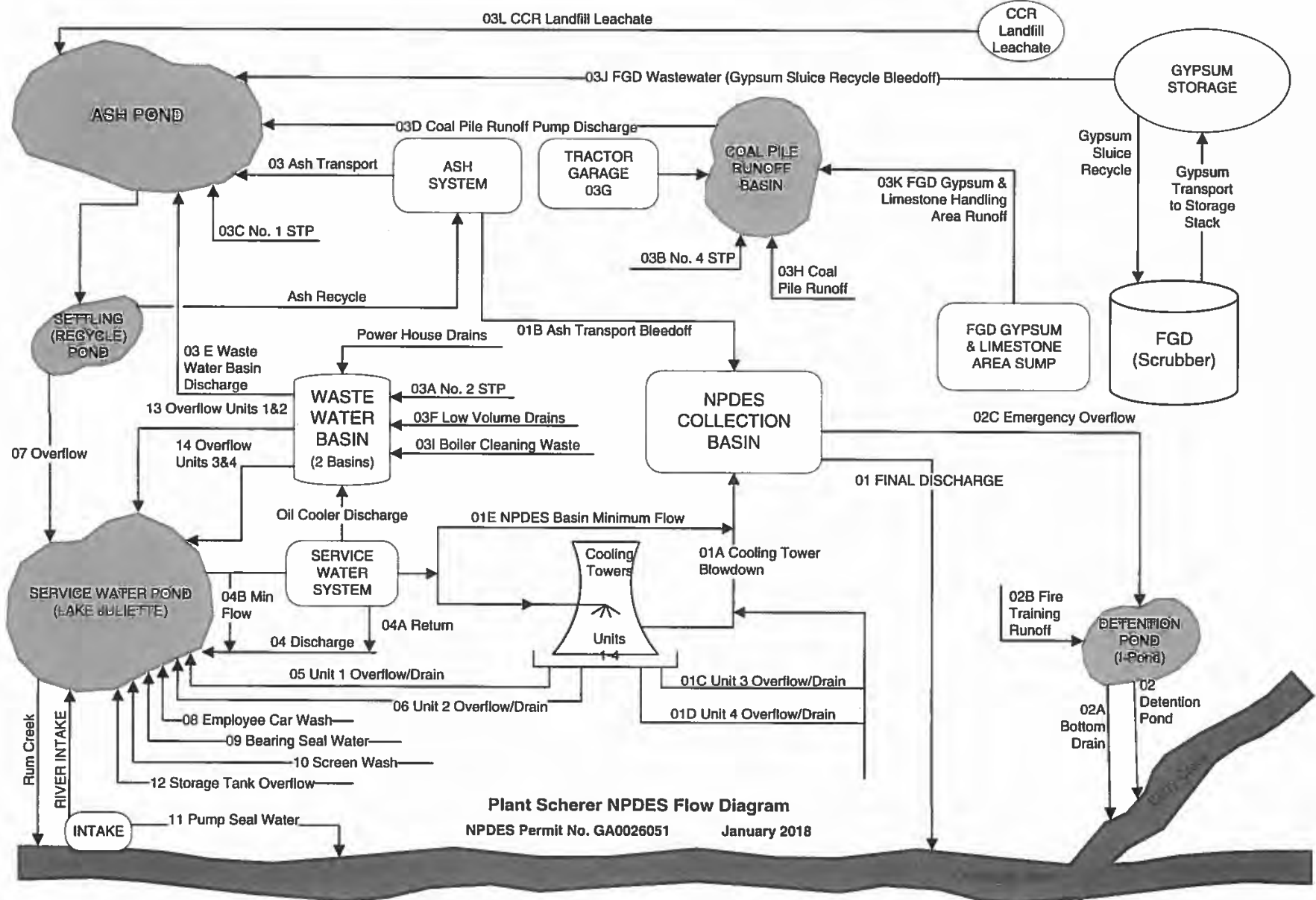
The normal settling pond discharge is through the ash transport bleed-off system. Discharges from the emergency overflow should only occur during periods of equipment malfunction, heavy rainfall, or emergency conditions. Overflow volume is variable with an estimated maximum of 57,000 gpm.

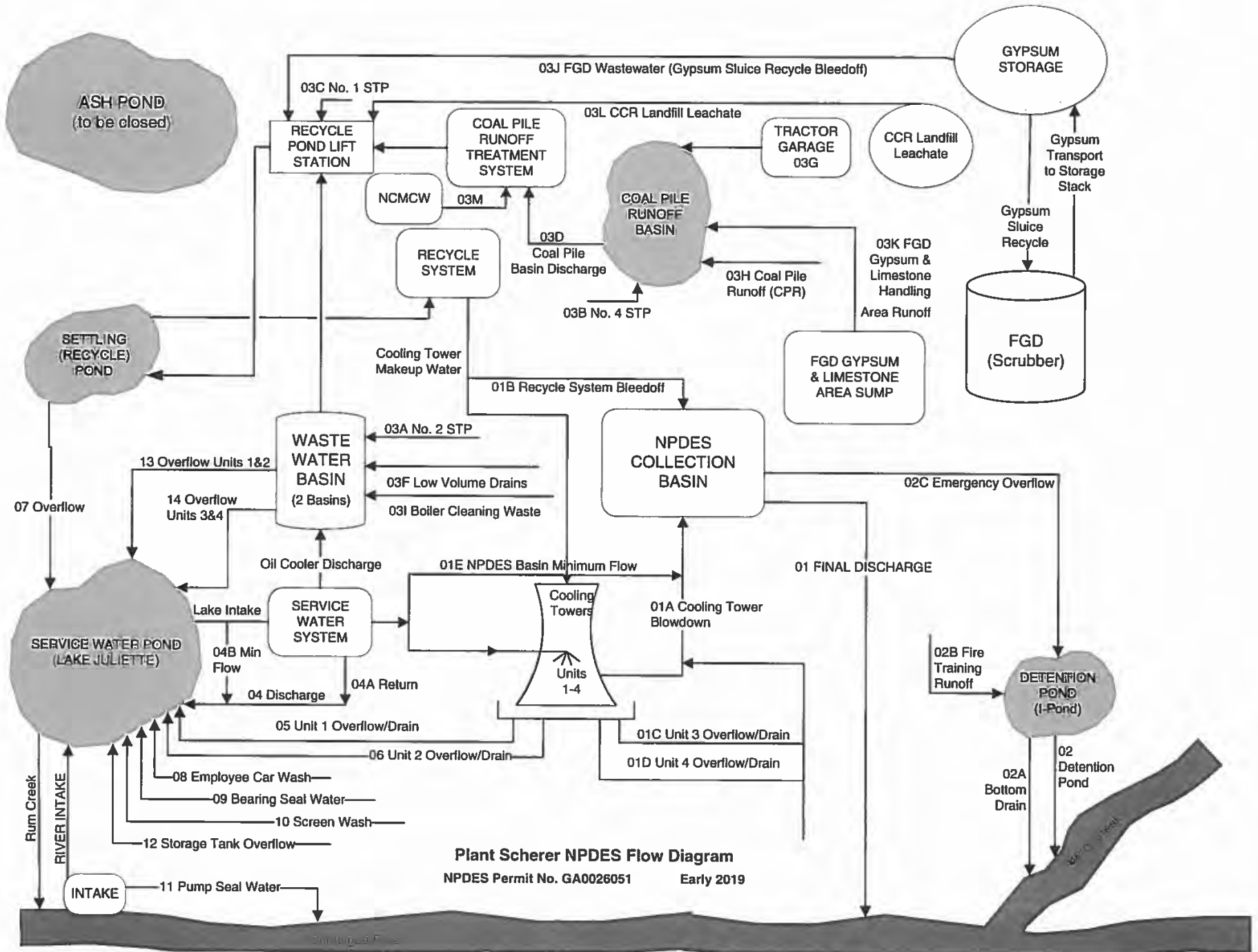
### **Outfall 12 - Condensate/Filtered Water/Potable Water Tank Overflows to Lake Juliette (Service Water Pond)**

Storage tanks could overflow during abnormal operations. These infrequent overflows would consist of condensate, demineralized water, filtered water, or potable water. An overflow is typically less than 100 gpm and of short duration.

### **Outfall 13 and 14 - Waste Water Basin Emergency Overflow**

Discharges could occur from equipment malfunctions or emergency conditions. An emergency portable pump is in standby mode to reduce the likelihood of an overflow.





**Plant Scherer NPDES Flow Diagram**  
 NPDES Permit No. GA0026051      Early 2019





PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
 GAD000612796 (Scherer)

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)											OUTFALL NO.			
											01			
PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.														
1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)				
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS			
a. Biochemical Oxygen Demand (BOD)	<2.0	<457					1	mg/l	lb/d	<8.0		1		
b. Chemical Oxygen Demand (COD)	<10	<2282					1	mg/l	lb/d	<10		1		
c. Total Organic Carbon (TOC)	5.2	1186.6					1	mg/l	lb/d	4.8		1		
d. Total Suspended Solids (TSS)	5	1140.9					1	mg/l	lb/d	5		1		
e. Ammonia (as N)	<0.1	<23					1	mg/l	lb/d	<0.1		1		
f. Flow	VALUE	19000	VALUE		VALUE		1	gpm		VALUE		1		
g. Temperature (winter)	VALUE	19.89	VALUE		VALUE		1	°C		VALUE		1		
h. Temperature (summer)	VALUE	27.29	VALUE		VALUE		1	°C		VALUE	25.09	1		
i. pH	MINIMUM	8.01	MAXIMUM	8.01	MINIMUM	MAXIMUM	1	STANDARD UNITS						
PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.														
1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			1.0	228.2					1	mg/l	lb/d	<1.0		1
b. Chlorine, Total Residual			<0.1						1	mg/l		0.1		1
c. Color			30						1	PCU		200		1
d. Fecal Coliform			1600				66.4		3	col/100		800		1
e. Fluoride (18884-48-8)			1.2	273.8					1	mg/l	lb/d	0.31		1
f. Nitrate-Nitrite (as N)			1.1	251					1	mg/l	lb/d	0.89		1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.4	<91.4					1	mg/l	lb/d	<0.4		1
h. Oil and Grease			<6.0	<1369.1					1	mg/l	lb/d	<5.4		1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<45.7					1	mg/l	lb/d	<0.2		1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			230	52482					1	mg/l	lb/d	22		1
l. Sulfide (as S)			<0.2	<45.7					1	mg/l	lb/d	<0.2		1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			1.28	292.1					1	mg/l	lb/d	1.92		1
n. Surfactants			0.07	16					1	mg/l	lb/d	0.06		1
o. Aluminum, Total (7429-90-5)			0.977	222.9					1	mg/l	lb/d	0.409		1
p. Barium, Total (7440-39-3)			0.140	31.9					1	mg/l	lb/d	0.0239		1
q. Boron, Total (7440-42-8)			0.876	199.9					1	mg/l	lb/d	<0.04		1
r. Cobalt, Total (7440-48-4)			<0.04	<9.13					1	mg/l	lb/d	<0.04		1
s. Iron, Total (7439-89-8)			0.0657	15					1	mg/l	lb/d	0.76		1
t. Magnesium, Total (7439-95-4)			11.5	2624					1	mg/l	lb/d	1.45		1
u. Molybdenum, Total (7439-98-7)			<0.04	<9.13					1	mg/l	lb/d	<0.04		1
v. Manganese, Total (7439-96-5)			0.078	17.8					1	mg/l	lb/d	0.0792		1
w. Tin, Total (7440-31-5)			<0.02	<4.6					1	mg/l	lb/d	<0.02		1
x. Titanium, Total (7440-32-8)			<0.01	<2.3					1	mg/l	lb/d	0.0147		1

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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<1.2					1	mg/l	lb/day	<0.005		1
2M. Arsenic, Total (7440-38-2)				<0.005	<1.2					1	mg/l	lb/day	<0.005		1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.23					1	mg/l	lb/day	<0.001		1
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.16					1	mg/l	lb/day	<0.0007		1
5M. Chromium, Total (7440-47-3)				<0.005	<1.2					1	mg/l	lb/day	<0.005		1
6M. Copper, Total (7440-50-8)				0.0657	14.99					1	mg/l	lb/day	<0.005		1
7M. Lead, Total (7439-82-1)				<0.001	<0.23					1	mg/l	lb/day	<0.001		1
8M. Mercury, Total (7439-97-6)				0.00258	0.59					1	ug/l	lb/day	<0.005		1
9M. Nickel, Total (7440-02-0)				0.0075	1.7					1	mg/l	lb/day	<0.005		1
10M. Selenium, Total (7782-49-2)				0.0055	1.26					1	mg/l	lb/day	<0.005		1
11M. Silver, Total (7440-22-4)				<0.005	<1.2					1	mg/l	lb/day	<0.005		1
12M. Thallium, Total (7440-28-0)				<0.001	<0.23					1	mg/l	lb/day	<0.001		1
13M. Zinc, Total (7440-66-6)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
14M. Cyanide, Total (57-12-5)				<0.02	<4.6					1	mg/l	lb/day	<0.02		1
15M. Phenols, Total				<0.05	<11.41					1	mg/l	lb/day	<0.05		1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<11.41					1	mg/l	1b/day	<0.05		1
2V. Acrylonitrile (107-13-1)				<0.05	<11.41					1	mg/l	1b/day	<0.05		1
3V. Benzene (71-43-2)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
6V. Carbon Tetrachloride (58-23-5)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
7V. Chlorobenzene (108-90-7)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
8V. Chlorodibromomethane (124-48-1)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
9V. Chloroethane (75-00-3)				<0.005	<1.14					1	mg/l	1b/day	<0.005		1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
11V. Chloroform (67-66-3)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
12V. Dichlorobromomethane (75-27-4)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
19V. Ethylbenzene (100-41-4)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
20V. Methyl Bromide (74-83-9)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
21V. Methyl Chloride (74-87-3)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1

\* Analytical Method Unavailable

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
24V. Tetrachloro-ethylene (127-18-4)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
25V. Toluene (108-88-3)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
27V. 1,1,1-Trichloro-ethane (71-55-6)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
28V. 1,1,2-Trichloro-ethane (79-00-5)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
29V Trichloro-ethylene (79-01-6)				<0.002	<0.46					1	mg/l	1b/day	<0.002		1
30V. Trichloro-fluoromethane (75-69-4)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
31V. Vinyl Chloride (75-01-4)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (85-57-8)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
2A. 2,4-Dichloro-phenol (120-83-2)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
3A. 2,4-Dimethyl-phenol (105-67-9)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<11.41					1	mg/l	1b/day	<0.05		1
5A. 2,4-Dinitro-phenol (51-28-5)				<0.05	<11.41					1	mg/l	1b/day	<0.05		1
6A. 2-Nitrophenol (88-75-5)				<0.05	<11.41					1	mg/l	1b/day	<0.05		1
7A. 4-Nitrophenol (100-02-7)				<0.05	<11.41					1	mg/l	1b/day	<0.05		1
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
9A. Pentachloro-phenol (87-86-5)				<0.02	<4.6					1	mg/l	1b/day	<0.02		1
10A. Phenol (108-95-2)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1
11A. 2,4,6-Trichloro-phenol (88-05-2)				<0.01	<2.3					1	mg/l	1b/day	<0.01		1

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-8)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
2B. Acenaphthylene (208-96-8)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
3B. Anthracene (120-12-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
4B. Benzidine (82-87-5)				<0.08	<18.3					1	mg/l	lb/day	<0.08		1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
7B. 3,4-Benzo- fluoranthene (205-99-2)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
16B. 2-Chloro- naphthalene (91-58-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
18B. Chrysene (218-01-9)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
20B. 1,2-Dichloro- benzene (95-50-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
21B. 1,3-Di-chloro- benzene (541-73-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichloro- benzene (106-46-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
23B. 3,3-Dichloro- benzidine (91-94-1)				<0.02	<4.6					1	mg/l	lb/day	<0.02		1
24B. Diethyl Phthalate (84-66-2)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
27B. 2,4-Dinitro- toluene (121-14-2)				<0.02	<4.6					1	mg/l	lb/day	<0.02		1
28B. 2,6-Dinitro- toluene (606-20-2)				<0.02	<4.6					1	mg/l	lb/day	<0.02		1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
30B. 1,2-Diphenyl- hydrazine (as Azobenzene) (122-66-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
31B. Fluoranthene (206-44-0)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
32B. Fluorene (86-73-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
33B. Hexachloro- benzene (118-74-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
34B. Hexachloro- buladiene (87-68-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
35B. Hexachloro- cyclopentadiene (77-47-4)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
36B Hexachloro- ethane (67-72-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
38B. Isophorone (78-59-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
39B. Naphthalene (91-20-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
40B. Nitrobenzene (98-95-3)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
41B. N-Nitro- sodimethylamine (62-75-9)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
42B. N-Nitrosodi- N-Propylamine (621-64-7)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
44B. Phenanthrene (85-01-8)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
45B. Pyrene (129-00-0)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<2.3					1	mg/l	lb/day	<0.01		1
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-65-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (78-44-8)			X												



EPA I.D. NUMBER <i>(copy from Item 1 of Form 1)</i>	OUTFALL NUMBER
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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION – PESTICIDES <i>(continued)</i></b>															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
19P. PCB-1254 (11097-69-1)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
20P. PCB-1221 (11104-28-2)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
21P. PCB-1232 (11141-16-5)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
22P. PCB-1248 (12672-29-6)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
23P. PCB-1280 (11098-82-5)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
24P. PCB-1016 (12674-11-2)				<0.001	<0.23					1	mg/l	lb/day	<0.001	1	
25P. Toxaphene (8001-35-2)			X											1	

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
GAD000612796 (Scherer)

V INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 02

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<2.0	<5.4					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	<10	<2674.1					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	3.9	1043					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	<5	<1337					1	mg/l	lb/d			1
e. Ammonia (as N)	<0.10	<27					1	mg/l	lb/d			1
f. Flow	VALUE	22266	VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE	17.41	VALUE		VALUE		1	*C		VALUE		1
h. Temperature (summer)	VALUE	26.79	VALUE		VALUE		1	*C		VALUE		1
i. pH	MINIMUM	7.51	MAXIMUM	7.51	MINIMUM	MAXIMUM				STANDARD UNITS		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-87-9)			<1.0	<268					1	mg/l	lb/d			1
b. Chlorine, Total Residual			<0.1						1	mg/l				1
c. Color			20						1	PCU				1
d. Fecal Coliform			90						1	col/100				1
e. Fluoride (16984-48-8)			0.49	131					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			2.1	562					1	mg/l	lb/d			1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (ar M)			<0.40	<107					1	mg/l	1b/d			1
h. Oil and Grease			<6.0	<1605					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<53.5					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 228, Total		X												
k. Sulfate (ar SO <sub>4</sub> ) (14806-79-8)			51	13638					1	mg/l	1b/d			1
l. Sulfide (ar S)			<0.2	<53.5					1	mg/l	1b/d			1
m. Sulfite (ar SO <sub>3</sub> ) (14265-45-3)			1.28	342.3					1	mg/l	1b/d			1
n. Surfactants			0.06	16					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			0.247	66.1					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.0674	18					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			0.38	101.6					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<10.7					1	mg/l	1b/d			1
s. Iron, Total (7439-89-6)			0.296	79.2					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			5.99	1601.8					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<10.7					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			0.0455	12.2					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<53.5					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-6)			0.0153	4.1					1	mg/l	1b/d			1

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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<1.34					1	mg/l	1b/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<1.34					1	mg/l	1b/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.27					1	mg/l	1b/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.19					1	mg/l	1b/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<1.34					1	mg/l	1b/day			1
6M. Copper, Total (7440-50-8)				0.0075	2					1	mg/l	1b/day			1
7M. Lead, Total (7439-92-1)				<0.001	<0.27					1	mg/l	1b/day			1
8M. Mercury, Total (7439-97-6)				0.00213	0.57					1	ug/l	1b/day			1
9M. Nickel, Total (7440-02-0)				<0.005	<1.34					1	mg/l	1b/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<1.34					1	mg/l	1b/day			1
11M. Silver, Total (7440-22-4)				<0.005	<1.34					1	mg/l	1b/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.27					1	mg/l	1b/day			1
13M. Zinc, Total (7440-66-6)				<0.01	<2.68					1	mg/l	1b/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<5.35					1	mg/l	1b/day			1
15M. Phenols, Total				<0.05	<13.4					1	mg/l	1b/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optimal)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<13.4					1	mg/l	1b/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<13.4					1	mg/l	1b/day			1
3V. Benzene (71-43-2)				<0.002	<0.54					1	mg/l	1b/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<2.68					1	mg/l	1b/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.54					1	mg/l	1b/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<2.68					1	mg/l	1b/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<2.68					1	mg/l	1b/day			1
9V. Chloroethane (75-00-3)				<0.005	<1.34					1	mg/l	1b/day			1
10V. 2-Chloroethylvinyl Ether (110-75-6)				<0.01	<2.68					1	mg/l	1b/day			1
11V. Chloroform (67-66-3)				<0.002	<0.54					1	mg/l	1b/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<2.68					1	mg/l	1b/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<2.68					1	mg/l	1b/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.54					1	mg/l	1b/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.54					1	mg/l	1b/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.54					1	mg/l	1b/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.54					1	mg/l	1b/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<0.54					1	mg/l	1b/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.54					1	mg/l	1b/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<2.68					1	mg/l	1b/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<2.68					1	mg/l	1b/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<2.68					1	mg/l	lb/day		1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.54					1	mg/l	lb/day		1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.54					1	mg/l	lb/day		1	
25V. Toluene (108-88-3)				<0.002	<0.54					1	mg/l	lb/day		1	
26V. 1,2-Trans-Dichloroethylene (156-80-5)				<0.002	<0.54					1	mg/l	lb/day		1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<0.54					1	mg/l	lb/day		1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.54					1	mg/l	lb/day		1	
29V. Trichloroethylene (79-01-6)				<0.002	<0.54					1	mg/l	lb/day		1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<2.68					1	mg/l	lb/day		1	
31V. Vinyl Chloride (75-01-4)				<0.01	<2.68					1	mg/l	lb/day		1	
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)				<0.01	<2.68					1	mg/l	lb/day		1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<2.68					1	mg/l	lb/day		1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<2.68					1	mg/l	lb/day		1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<13.4					1	mg/l	lb/day		1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<13.4					1	mg/l	lb/day		1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<13.4					1	mg/l	lb/day		1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<13.4					1	mg/l	lb/day		1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<2.68					1	mg/l	lb/day		1	
9A. Pentachlorophenol (87-86-5)				<0.02	<5.35					1	mg/l	lb/day		1	
10A. Phenol (108-95-2)				<0.01	<2.68					1	mg/l	lb/day		1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<2.68					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<2.68					1	mg/l	1b/day		1	
2B. Acenaphthylene (208-98-8)				<0.01	<2.68					1	mg/l	1b/day		1	
3B. Anthracene (120-12-7)				<0.01	<2.68					1	mg/l	1b/day		1	
4B. Benzidine (92-87-5)				<0.08	<21.4					1	mg/l	1b/day		1	
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<2.68					1	mg/l	1b/day		1	
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<2.68					1	mg/l	1b/day		1	
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<2.68					1	mg/l	1b/day		1	
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<2.68					1	mg/l	1b/day		1	
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<2.68					1	mg/l	1b/day		1	
10B. Bis (2-Chloro-ethyl) Methane (111-91-1)				<0.01	<2.68					1	mg/l	1b/day		1	
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<2.68					1	mg/l	1b/day		1	
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<2.68					1	mg/l	1b/day		1	
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<2.68					1	mg/l	1b/day		1	
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<2.68					1	mg/l	1b/day		1	
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<2.68					1	mg/l	1b/day		1	
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<2.68					1	mg/l	1b/day		1	
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<2.68					1	mg/l	1b/day		1	
18B. Chrysene (218-01-9)				<0.01	<2.68					1	mg/l	1b/day		1	
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<2.68					1	mg/l	1b/day		1	
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<2.68					1	mg/l	1b/day		1	
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<2.68					1	mg/l	1b/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)				<0.01	<2.68					1	mg/l	lb/day		1	
23B. 3,3-Dichlorobenzidine (91-84-1)				<0.02	<5.35					1	mg/l	lb/day		1	
24B. Diethyl Phthalate (84-66-2)				<0.01	<2.68					1	mg/l	lb/day		1	
25B. Dimethyl Phthalate (131-11-3)				<0.01	<2.68					1	mg/l	lb/day		1	
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<2.68					1	mg/l	lb/day		1	
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<5.35					1	mg/l	lb/day		1	
28B. 2,6-Dinitrotoluene (606-20-2)				<0.02	<5.35					1	mg/l	lb/day		1	
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<2.68					1	mg/l	lb/day		1	
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<2.68					1	mg/l	lb/day		1	
31B. Fluoranthene (206-44-0)				<0.01	<2.68					1	mg/l	lb/day		1	
32B. Fluorene (86-73-7)				<0.01	<2.68					1	mg/l	lb/day		1	
33B. Hexachlorobenzene (118-74-1)				<0.01	<2.68					1	mg/l	lb/day		1	
34B. Hexachlorobutadiene (67-68-3)				<0.01	<2.68					1	mg/l	lb/day		1	
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<2.68					1	mg/l	lb/day		1	
36B Hexachloroethane (67-72-1)				<0.01	<2.68					1	mg/l	lb/day		1	
37B. Indeno (1,2,3-cd) Pyrene (183-39-5)				<0.01	<2.68					1	mg/l	lb/day		1	
38B. Isophorone (78-59-1)				<0.01	<2.68					1	mg/l	lb/day		1	
39B. Naphthalene (91-20-3)				<0.01	<2.68					1	mg/l	lb/day		1	
40B. Nitrobenzene (98-95-3)				<0.01	<2.68					1	mg/l	lb/day		1	
41B. N-Nitrosodimethylamine (82-75-9)				<0.01	<2.68					1	mg/l	lb/day		1	
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<2.68					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-8)				<0.01	<2.68					1	mg/l	lb/day			1
44B. Phenanthrene (85-01-8)				<0.01	<2.68					1	mg/l	lb/day			1
45B. Pyrene (129-00-0)				<0.01	<2.68					1	mg/l	lb/day			1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<2.68					1	mg/l	lb/day			1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-83-4)			X												
16P. Heptachlor (76-44-8)			X												

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GAD000612796 (Scherer)	02

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.27					1	mg/l	lb/day			1
18P. PCB-1254 (11097-69-1)				<0.001	<0.27					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.27					1	mg/l	lb/day			1
21P. PCB-1232 (11141-16-5)				<0.001	<0.27					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.27					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.27					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.27					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
GAD000612796 (Scherer)

<b>V. INTAKE AND EFFLUENT CHARACTERISTICS</b> (continued from page 3 of Form 2-C)	<b>OUTFALL NO.</b> 04
-----------------------------------------------------------------------------------	--------------------------

**PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<8.0	<4035					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	<10	<5044					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	3.1	1564					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	<5	<2522					1	mg/l	lb/d			1
e. Ammonia (as N)	0.40	201.8					1	mg/l	lb/d			1
f. Flow	VALUE 42,000		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 18.43		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 26.99		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 8.14	MAXIMUM 8.14	MINIMUM	MAXIMUM			1	STANDARD UNITS				

**PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.**

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-87-9)			<1.0	<504					1	mg/l	lb/d			1
b. Chlorine, Total Residual			0.2						1	mg/l				1
c. Color			40						1	PCU				1
d. Fecal Coliform			6						1	col/100				1
e. Fluoride (16984-48-8)			0.23	116					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			0.40	201.8					1	mg/l	lb/d			1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<201.8					1	mg/l	1b/d			1
h. Oil and Grease			<6.0	<3062					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<101					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			19	9584					1	mg/l	1b/d			1
l. Sulfide (as S)			<0.2	<101					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			1.92	968.45					1	mg/l	1b/d			1
n. Surfactants			<0.05	<25.2					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			<0.1	<50.4					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.026	13.1					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			<0.04	<20.2					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	20.2					1	mg/l	1b/d			1
s. Iron, Total (7439-89-8)			0.272	137.2					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			1.99	1003.8					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<20.2					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			0.154	77.7					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<10.1					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-8)			<0.01	<5.04					1	mg/l	1b/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2c for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)				<0.005	<2.52					1	mg/l	1b/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<2.52					1	mg/l	1b/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.504					1	mg/l	1b/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.35					1	mg/l	1b/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<2.52					1	mg/l	1b/day			1
6M. Copper, Total (7440-50-8)				0.0658	33.19			0.0264	25.11	3	mg/l	1b/day			1
7M. Lead, Total (7439-92-1)				<0.002	<1.01					1	mg/l	1b/day			1
8M. Mercury, Total (7439-97-6)				<0.0005	<0.25					1	ug/l	1b/day			1
9M. Nickel, Total (7440-02-0)				<0.005	<2.52					1	mg/l	1b/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<2.52					1	mg/l	1b/day			1
11M. Silver, Total (7440-22-4)				<0.005	<2.52					1	mg/l	1b/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.504					1	mg/l	1b/day			1
13M. Zinc, Total (7440-66-6)				0.116	58.5					1	mg/l	1b/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<10.1					1	mg/l	1b/day			1
15M. Phenols, Total				<0.05	<25.2					1	mg/l	1b/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<25.2					1	mg/l	1b/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<25.2					1	mg/l	1b/day			1
3V. Benzene (71-43-2)				<0.002	<1.01					1	mg/l	1b/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<5.04					1	mg/l	1b/day			1
6V. Carbon Tetrachloride (50-23-5)				<0.002	<1.01					1	mg/l	1b/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<5.04					1	mg/l	1b/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<5.04					1	mg/l	1b/day			1
9V. Chloroethane (75-00-3)				<0.005	<2.52					1	mg/l	1b/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<5.04					1	mg/l	1b/day			1
11V. Chloroform (67-68-3)				<0.002	<1.01					1	mg/l	1b/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<5.04					1	mg/l	1b/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<5.04					1	mg/l	1b/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<1.01					1	mg/l	1b/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<1.01					1	mg/l	1b/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<1.01					1	mg/l	1b/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<1.01					1	mg/l	1b/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<1.01					1	mg/l	1b/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<1.01					1	mg/l	1b/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<5.04					1	mg/l	1b/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<5.04					1	mg/l	1b/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<5.04					1	mg/l	1b/day			1
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<1.01					1	mg/l	1b/day			1
24V. Tetrachloroethylene (127-18-4)				<0.002	<1.01					1	mg/l	1b/day			1
25V. Toluene (108-88-3)				<0.002	<1.01					1	mg/l	1b/day			1
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<1.01					1	mg/l	1b/day			1
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<1.01					1	mg/l	1b/day			1
28V. 1,1,2-Trichloroethane (78-00-5)				<0.002	<1.01					1	mg/l	1b/day			1
29V. Trichloroethylene (79-01-8)				<0.002	<1.01					1	mg/l	1b/day			1
30V. Trichlorofluoromethane (75-69-4)				<0.01	<5.04					1	mg/l	1b/day			1
31V. Vinyl Chloride (75-01-4)				<0.01	<5.04					1	mg/l	1b/day			1
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (85-57-8)				<0.01	<5.04					1	mg/l	1b/day			1
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<5.04					1	mg/l	1b/day			1
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<5.04					1	mg/l	1b/day			1
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<25.2					1	mg/l	1b/day			1
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<25.2					1	mg/l	1b/day			1
6A. 2-Nitrophenol (88-75-5)				<0.05	<25.2					1	mg/l	1b/day			1
7A. 4-Nitrophenol (100-02-7)				<0.05	<25.2					1	mg/l	1b/day			1
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<5.04					1	mg/l	1b/day			1
9A. Pentachlorophenol (87-86-5)				<0.02	<10.1					1	mg/l	1b/day			1
10A. Phenol (108-95-2)				<0.01	<5.04					1	mg/l	1b/day			1
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<5.04					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<5.04					1	mg/l	1b/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<5.04					1	mg/l	1b/day			1
3B. Anthracene (120-12-7)				<0.01	<5.04					1	mg/l	1b/day			1
4B. Benzokine (92-87-5)				<0.08	<40.4					1	mg/l	1b/day			1
5B. Benzo (u) Anthracene (58-55-3)				<0.01	<5.04					1	mg/l	1b/day			1
8B. Benzo (u) Pyrene (50-32-8)				<0.01	<5.04					1	mg/l	1b/day			1
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<5.04					1	mg/l	1b/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<5.04					1	mg/l	1b/day			1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<5.04					1	mg/l	1b/day			1
10B. Bis (2-Chloro-ethyl) Methane (111-91-1)				<0.01	<5.04					1	mg/l	1b/day			1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<5.04					1	mg/l	1b/day			1
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<5.04					1	mg/l	1b/day			1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<5.04					1	mg/l	1b/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<5.04					1	mg/l	1b/day			1
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<5.04					1	mg/l	1b/day			1
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<5.04					1	mg/l	1b/day			1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<5.04					1	mg/l	1b/day			1
18B. Chrysene (218-01-8)				<0.01	<5.04					1	mg/l	1b/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<5.04					1	mg/l	1b/day			1
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<5.04					1	mg/l	1b/day			1
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<5.04					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-48-7)				<0.01	<5.04					1	mg/l	lb/day			1
23B. 3,3-Dichlorobenzidine (81-94-1)				<0.02	<10.1					1	mg/l	lb/day			1
24B. Diethyl Phthalate (84-66-2)				<0.01	<5.04					1	mg/l	lb/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<5.04					1	mg/l	lb/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<5.04					1	mg/l	lb/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<10.1					1	mg/l	lb/day			1
28B. 2,6-Dinitrotoluene (808-20-2)				<0.02	<10.1					1	mg/l	lb/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<5.04					1	mg/l	lb/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<5.04					1	mg/l	lb/day			1
31B. Fluoranthene (206-44-0)				<0.01	<5.04					1	mg/l	lb/day			1
32B. Fluorene (86-73-7)				<0.01	<5.04					1	mg/l	lb/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<5.04					1	mg/l	lb/day			1
34B. Hexachlorobutadiene (87-68-3)				<0.01	<5.04					1	mg/l	lb/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<5.04					1	mg/l	lb/day			1
36B Hexachloroethane (67-72-1)				<0.01	<5.04					1	mg/l	lb/day			1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<5.04					1	mg/l	lb/day			1
38B. Isophorone (78-59-1)				<0.01	<5.04					1	mg/l	lb/day			1
39B. Naphthalene (81-20-3)				<0.01	<5.04					1	mg/l	lb/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<5.04					1	mg/l	lb/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<5.04					1	mg/l	lb/day			1
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<5.04					1	mg/l	lb/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-8)				<0.01	<5.04					1	mg/l	1b/day			1
44B. Phenanthrene (85-01-8)				<0.01	<5.04					1	mg/l	1b/day			1
45B. Pyrene (129-00-0)				<0.01	<5.04					1	mg/l	1b/day			1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<5.04					1	mg/l	1b/day			1
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.504					1	mg/l	lb/day			1
19P. PCB-1254 (11097-69-1)				<0.001	<0.504					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.504					1	mg/l	lb/day			1
21P. PCB-1232 (11141-16-5)				<0.001	<0.504					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.504					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.504					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.504					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 05

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<2.0	<380					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	<10	<1900					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	5.7	1083					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	11	2090					1	mg/l	lb/d			1
e. Ammonia (as N)	<0.10	<19					1	mg/l	lb/d			1
f. Flow	VALUE	15,820	VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE	18.90	VALUE		VALUE		1		°C	VALUE		1
h. Temperature (summer)	VALUE	29.16	VALUE		VALUE		1		°C	VALUE		1
i. pH	MINIMUM	8.12	MAXIMUM	8.12	MINIMUM	MAXIMUM	1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<190.0					1	mg/l	lb/d			1
b. Chlorine, Total Residual			0.7						1	mg/l				1
c. Color			250						1	PCU				1
d. Fecal Coliform			<4						1	col/100				1
e. Fluoride (18984-48-8)			0.58	110.2					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			1.3	247.0					1	mg/l	lb/d			1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.4	<75.0					1	mg/l	1b/d			1
h. Oil and Grease			<6.0	<1140.0					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<38.0					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			32	6079.7					1	mg/l	1b/d			1
l. Sulfide (as S)			<0.2	<38.0					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14285-45-3)			2.56	486.4					1	mg/l	1b/d			1
n. Surfactants			0.07	13.3					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			0.234	44.46					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.0791	15.03					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			0.094	17.86					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<7.6					1	mg/l	1b/d			1
s. Iron, Total (7439-89-8)			0.454	86.26					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			5.32	1010.76					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<7.6					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			0.249	47.31					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<38.0					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-8)			0.0111	2.11					1	mg/l	1b/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<0.95					1	mg/l	1b/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.95					1	mg/l	1b/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.19					1	mg/l	1b/day			1
4M. Cadmium, Total (7440-43-8)				<0.0007	<0.133					1	mg/l	1b/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.95					1	mg/l	1b/day			1
6M. Copper, Total (7440-50-8)				0.237	45.03					1	mg/l	1b/day			1
7M. Lead, Total (7439-92-1)				<0.001	<0.19					1	mg/l	1b/day			1
8M. Mercury, Total (7439-97-6)				0.00113	0.215					1	ug/l	1b/day			1
9M. Nickel, Total (7440-02-0)				0.030	5.7					1	mg/l	1b/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.95					1	mg/l	1b/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.95					1	mg/l	1b/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.19					1	mg/l	1b/day			1
13M. Zinc, Total (7440-66-6)				<0.01	<1.9					1	mg/l	1b/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<3.8					1	mg/l	1b/day			1
15M. Phenols, Total				<0.05	<9.5					1	mg/l	1b/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<9.5					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<9.5					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<0.38					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<1.9					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.38					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<1.9					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<1.9					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.95					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<1.9					1	mg/l	lb/day			1
11V. Chloroform (67-68-3)				0.0045	0.855					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<1.9					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<1.9					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.38					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.38					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.38					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.38					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<0.38					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.38					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<1.9					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<1.9					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)																
22V. Methylene Chloride (75-09-2)				<0.01	<1.9					1	mg/l	1b/day			1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.38					1	mg/l	1b/day			1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.38					1	mg/l	1b/day			1	
25V. Toluene (108-88-3)				<0.002	<0.38					1	mg/l	1b/day			1	
26V. 1,2-Trans-Dichloroethylene (156-80-5)				<0.002	<0.38					1	mg/l	1b/day			1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<0.38					1	mg/l	1b/day			1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.38					1	mg/l	1b/day			1	
29V. Trichloroethylene (79-01-8)				<0.002	<0.38					1	mg/l	1b/day			1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<1.9					1	mg/l	1b/day			1	
31V. Vinyl Chloride (75-01-4)				<0.01	<1.9					1	mg/l	1b/day			1	
GC/MS FRACTION – ACID COMPOUNDS																
1A. 2-Chlorophenol (95-57-8)				<0.01	<1.9					1	mg/l	1b/day			1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<1.9					1	mg/l	1b/day			1	
3A. 2,4-Dimethylphenol (105-87-9)				<0.01	<1.9					1	mg/l	1b/day			1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<9.45					1	mg/l	1b/day			1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<9.45					1	mg/l	1b/day			1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<9.45					1	mg/l	1b/day			1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<9.45					1	mg/l	1b/day			1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<1.9					1	mg/l	1b/day			1	
9A. Pentachlorophenol (87-86-5)				<0.02	<3.8					1	mg/l	1b/day			1	
10A. Phenol (108-95-2)				<0.01	<1.9					1	mg/l	1b/day			1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<1.9					1	mg/l	1b/day			1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<1.9					1	mg/l	lb/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<1.9					1	mg/l	lb/day			1
3B. Anthracene (120-12-7)				<0.01	<1.9					1	mg/l	lb/day			1
4B. Benzidine (92-97-5)				<0.08	<15.2					1	mg/l	lb/day			1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<1.9					1	mg/l	lb/day			1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<1.9					1	mg/l	lb/day			1
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<1.9					1	mg/l	lb/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<1.9					1	mg/l	lb/day			1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<1.9					1	mg/l	lb/day			1
10B. Bis (2-Chloro-ethyl) Methane (111-91-1)				<0.01	<1.9					1	mg/l	lb/day			1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<1.9					1	mg/l	lb/day			1
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<1.9					1	mg/l	lb/day			1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<1.9					1	mg/l	lb/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<1.9					1	mg/l	lb/day			1
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<1.9					1	mg/l	lb/day			1
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<1.9					1	mg/l	lb/day			1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<1.9					1	mg/l	lb/day			1
18B. Chrysene (218-01-9)				<0.01	<1.9					1	mg/l	lb/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<1.9					1	mg/l	lb/day			1
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<1.9					1	mg/l	lb/day			1
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<1.9					1	mg/l	lb/day			1

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)				<0.01	<1.9					1	mg/l	lb/day			1
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<3.8					1	mg/l	lb/day			1
24B. Diethyl Phthalate (84-66-2)				<0.01	<1.9					1	mg/l	lb/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<1.9					1	mg/l	lb/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<1.9					1	mg/l	lb/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<3.8					1	mg/l	lb/day			1
28B. 2,6-Dinitrotoluene (606-20-2)				<0.02	<3.8					1	mg/l	lb/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<1.9					1	mg/l	lb/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<1.9					1	mg/l	lb/day			1
31B. Fluoranthene (206-44-0)				<0.01	<1.9					1	mg/l	lb/day			1
32B. Fluorene (86-73-7)				<0.01	<1.9					1	mg/l	lb/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<1.9					1	mg/l	lb/day			1
34B. Hexachlorobutadiene (87-68-3)				<0.01	<1.9					1	mg/l	lb/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<1.9					1	mg/l	lb/day			1
36B Hexachloroethane (67-72-1)				<0.01	<1.9					1	mg/l	lb/day			1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<1.9					1	mg/l	lb/day			1
38B. Isophorone (78-59-1)				<0.01	<1.9					1	mg/l	lb/day			1
39B. Naphthalene (91-20-3)				<0.01	<1.9					1	mg/l	lb/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<1.9					1	mg/l	lb/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<1.9					1	mg/l	lb/day			1
42B. N-Nitrosodi-N-Propylamine (621-84-7)				<0.01	<1.9					1	mg/l	lb/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro- sodiphenylamine (86-30-6)				<0.01	<1.9					1	mg/l	lb/day		1	
44B. Phenanthrene (85-01-8)				<0.01	<1.9					1	mg/l	lb/day		1	
45B. Pyrene (129-00-0)				<0.01	<1.9					1	mg/l	lb/day		1	
46B. 1,2,4-Tri- chlorobenzene (120-82-1)				<0.01	<1.9					1	mg/l	lb/day		1	
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-8)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	05

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.19					1	mg/l	lb/day			1
19P. PCB-1254 (11087-68-1)				<0.001	<0.19					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.19					1	mg/l	lb/day			1
21P. PCB-1232 (11141-16-5)				<0.001	<0.19					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.19					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.19					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.19					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
GAD000612796 (Scherer)

<b>V. INTAKE AND EFFLUENT CHARACTERISTICS</b> (continued from page 3 of Form 2-C)		<b>OUTFALL NO.</b> 96
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**PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<2.0	<380					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	26	4940					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	8.6	1634					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	20	3800					1	mg/l	lb/d			1
e. Ammonia (as N)	<0.10	<19					1	mg/l	lb/d			1
f. Flow	VALUE 15,820		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 18.90		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 29.28		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 7.99	MAXIMUM 7.99	MINIMUM	MAXIMUM			1	STANDARD UNITS				

**PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.**

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<1.9					1	mg/l	lb/d			1
b. Chlorine, Total Residual			0.4						1	mg/l				1
c. Color			100						1	PCU				1
d. Fecal Coliform			<4						1	col/100				1
e. Fluoride (16984-48-8)			0.44	83.6					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			1.9	361.0					1	mg/l	lb/d			1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			0.82	155.8					1	mg/l	1b/d			1
h. Oil and Grease			<5.6	<1064.0					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<38.0					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			45	8549.6					1	mg/l	1b/d			1
l. Sulfide (as S)			<0.2	<38.0					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			3.20	608.0					1	mg/l	1b/d			1
n. Surfactants			0.07	133.0					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			0.450	85.5					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.105	19.9					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			0.149	28.3					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<7.6					1	mg/l	1b/d			1
s. Iron, Total (7439-89-8)			0.887	168.5					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			7.010	1331.8					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<7.6					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			0.546	103.7					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<3.8					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-6)			0.0231	4.39					1	mg/l	1b/d			1

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**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)				<0.005	<0.95					1	mg/l	lb/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.95					1	mg/l	lb/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.19					1	mg/l	lb/day			1
4M. Cadmium, Total (7440-43-8)				<0.0007	<0.133					1	mg/l	lb/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.95					1	mg/l	lb/day			1
6M. Copper, Total (7440-50-8)				0.452	85.9					1	mg/l	lb/day			1
7M. Lead, Total (7439-92-1)				<0.001	<0.19					1	mg/l	lb/day			1
8M. Mercury, Total (7439-97-8)				0.00113	0.215					1	ug/l	lb/day			1
9M. Nickel, Total (7440-02-0)				0.0465	8.34					1	mg/l	lb/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.95					1	mg/l	lb/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.95					1	mg/l	lb/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.19					1	mg/l	lb/day			1
13M. Zinc, Total (7440-66-6)				<0.01	<1.9					1	mg/l	lb/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<3.8					1	mg/l	lb/day			1
15M. Phenols, Total				<0.05	<9.5					1	mg/l	lb/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-8)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<9.5					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<9.5					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<0.38					1	mg/l	lb/day			1
4V. Bis (Chloro- methyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<1.9					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.38					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<1.9					1	mg/l	lb/day			1
8V. Chloro- bromomethane (124-48-1)				<0.01	<1.9					1	mg/l	lb/day			1
8V. Chloroethane (75-00-3)				<0.005	<0.95					1	mg/l	lb/day			1
10V. 2-Chloro- ethylvinyl Ether (110-75-8)				<0.01	<1.9					1	mg/l	lb/day			1
11V. Chloroform (67-66-3)				<0.002	<0.38					1	mg/l	lb/day			1
12V. Dichloro- bromomethane (75-27-4)				<0.01	<1.9					1	mg/l	lb/day			1
13V. Dichloro- difluoromethane (75-71-8)				<0.01	<1.9					1	mg/l	lb/day			1
14V. 1,1-Dichloro- ethane (75-34-3)				<0.002	<0.38					1	mg/l	lb/day			1
15V. 1,2-Dichloro- ethane (107-06-2)				<0.002	<0.38					1	mg/l	lb/day			1
16V. 1,1-Dichloro- ethylene (75-35-4)				<0.002	<0.38					1	mg/l	lb/day			1
17V. 1,2-Dichloro- propane (78-87-5)				<0.002	<0.38					1	mg/l	lb/day			1
18V. 1,3-Dichloro- propylene (542-75-6)				<0.002	<0.38					1	mg/l	lb/day			1
18V. Ethylbenzene (100-41-4)				<0.002	<0.38					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<1.9					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<1.9					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

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	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS (continued)</b>															
22V. Methylene Chloride (75-09-2)				<0.01	<1.9					1	mg/l	lb/day		1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.38					1	mg/l	lb/day		1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.38					1	mg/l	lb/day		1	
25V. Toluene (108-88-3)				<0.002	<0.38					1	mg/l	lb/day		1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.38					1	mg/l	lb/day		1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<0.38					1	mg/l	lb/day		1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.38					1	mg/l	lb/day		1	
29V. Trichloroethylene (79-01-6)				<0.002	<0.38					1	mg/l	lb/day		1	
30V. Trichlorofluoromethane (75-89-4)				<0.01	<1.9					1	mg/l	lb/day		1	
31V. Vinyl Chloride (75-01-4)				<0.01	<1.9					1	mg/l	lb/day		1	
<b>GC/MS FRACTION - ACID COMPOUNDS</b>															
1A. 2-Chlorophenol (85-57-8)				<0.01	<1.9					1	mg/l	lb/day		1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<1.9					1	mg/l	lb/day		1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<1.9					1	mg/l	lb/day		1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<9.5					1	mg/l	lb/day		1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<9.5					1	mg/l	lb/day		1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<9.5					1	mg/l	lb/day		1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<9.5					1	mg/l	lb/day		1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<1.9					1	mg/l	lb/day		1	
9A. Pentachlorophenol (87-86-5)				<0.02	<3.8					1	mg/l	lb/day		1	
10A. Phenol (108-95-2)				<0.01	<1.9					1	mg/l	lb/day		1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<1.9					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<1.9					1	mg/l	lb/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<1.9					1	mg/l	lb/day			1
3B. Anthracene (120-12-7)				<0.01	<1.9					1	mg/l	lb/day			1
4B. Benzidine (92-87-5)				<0.08	<15.2					1	mg/l	lb/day			1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<1.9					1	mg/l	lb/day			1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<1.9					1	mg/l	lb/day			1
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<1.9					1	mg/l	lb/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<1.9					1	mg/l	lb/day			1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<1.9					1	mg/l	lb/day			1
10B. Bis (2-Chloro-ethyl) Methane (111-91-1)				<0.01	<1.9					1	mg/l	lb/day			1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<1.9					1	mg/l	lb/day			1
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)				<0.01	<1.9					1	mg/l	lb/day			1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<1.9					1	mg/l	lb/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<1.9					1	mg/l	lb/day			1
15B. Butyl Benzyl Phthalate (85-88-7)				<0.01	<1.9					1	mg/l	lb/day			1
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<1.9					1	mg/l	lb/day			1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<1.9					1	mg/l	lb/day			1
18B. Chrysene (218-01-9)				<0.01	<1.9					1	mg/l	lb/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<1.9					1	mg/l	lb/day			1
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<1.9					1	mg/l	lb/day			1
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<1.9					1	mg/l	lb/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)				<0.01	<1.9					1	mg/l	1b/day			1
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<3.8					1	mg/l	1b/day			1
24B. Diethyl Phthalate (84-66-2)				<0.01	<1.9					1	mg/l	1b/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<1.9					1	mg/l	1b/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<1.9					1	mg/l	1b/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<3.8					1	mg/l	1b/day			1
28B. 2,6-Dinitrotoluene (608-20-2)				<0.02	<3.8					1	mg/l	1b/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<1.9					1	mg/l	1b/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<1.9					1	mg/l	1b/day			1
31B. Fluoranthene (206-44-0)				<0.01	<1.9					1	mg/l	1b/day			1
32B. Fluorene (86-73-7)				<0.01	<1.9					1	mg/l	1b/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<1.9					1	mg/l	1b/day			1
34B. Hexachlorobutadiene (87-68-3)				<0.01	<1.9					1	mg/l	1b/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<1.9					1	mg/l	1b/day			1
36B Hexachloroethane (67-72-1)				<0.01	<1.9					1	mg/l	1b/day			1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<1.9					1	mg/l	1b/day			1
38B. Isophorone (78-59-1)				<0.01	<1.9					1	mg/l	1b/day			1
39B. Naphthalene (91-20-3)				<0.01	<1.9					1	mg/l	1b/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<1.9					1	mg/l	1b/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<1.9					1	mg/l	1b/day			1
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<1.9					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<1.9					1	mg/l	1b/day		1	
44B. Phenanthrene (85-01-8)				<0.01	<1.9					1	mg/l	1b/day		1	
45B. Pyrene (129-00-0)				<0.01	<1.9					1	mg/l	1b/day		1	
48B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<1.9					1	mg/l	1b/day		1	
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
	GC/MS FRACTION - PESTICIDES (continued)														
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53489-21-9)				<0.001	<0.19					1	mg/l	1b/day			1
19P. PCB-1254 (11097-69-1)				<0.001	<0.19					1	mg/l	1b/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.19					1	mg/l	1b/day			1
21P. PCB-1232 (11141-16-5)				<0.001	<0.19					1	mg/l	1b/day			1
22P. PCB-1248 (12672-29-8)				<0.001	<0.19					1	mg/l	1b/day			1
23P. PCB-1260 (11098-82-5)				<0.001	<0.19					1	mg/l	1b/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.19					1	mg/l	1b/day			1
25P. Toxaphene (8001-35-2)			X												1

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Scherer 2018 Outfall 06

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA ID. NUMBER (copy from Item 1 of Form 1)  
GAD000612796 (Scherer)

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 07

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<8.0	<5476.4					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	<10	<6845.5					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	3.5	<2395.9					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	6	<4107.3					1	mg/l	lb/d			1
e. Ammonia (as N)	<0.10	<68.45					1	mg/l	lb/d			1
f. Flow	VALUE 57,000		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 20.16		VALUE		VALUE		1	*C		VALUE		1
h. Temperature (summer)	VALUE 28.05		VALUE		VALUE		1	*C		VALUE		1
i. pH	MINIMUM 7.41	MAXIMUM 7.41	MINIMUM	MAXIMUM			1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			1.3	889.9					1	mg/l	lb/d			1
b. Chlorine, Total Residual			<0.1						1	mg/l				1
c. Color			15						1	PCU				1
d. Fecal Coliform			94						1	col/100				1
e. Fluoride (16984-48-8)			1.8	1232.2					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			0.78	533.95					1	mg/l	lb/d			1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.4	<273.8					1	mg/l	1b/d			1
h. Oil and Grease			<5.5	<3765.0					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<136.9					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			45	30804.6					1	mg/l	1b/d			1
l. Sulfide (as S)			290	198519					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14285-45-3)			2.56	1752.4					1	mg/l	1b/d			1
n. Surfactants			<0.05	<34.2					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			1.36	931.0					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.166	113.63					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			1.15	787.2					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<27.4					1	mg/l	1b/d			1
s. Iron, Total (7439-89-6)			<0.04	<27.4					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			13.7	9378.3					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<27.4					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			<0.04	<27.4					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<13.7					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-6)			<0.01	<6.8					1	mg/l	1b/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	07

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<3.4					1	mg/l	1b/day		1	
2M. Arsenic, Total (7440-38-2)				<0.005	<3.4					1	mg/l	1b/day		1	
3M. Beryllium, Total (7440-41-7)				<0.001	<0.68					1	mg/l	1b/day		1	
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.48					1	mg/l	1b/day		1	
5M. Chromium, Total (7440-47-3)				<0.005	<3.4					1	mg/l	1b/day		1	
6M. Copper, Total (7440-50-8)				<0.005	<3.4					1	mg/l	1b/day		1	
7M. Lead, Total (7439-92-1)				<0.001	<0.68					1	mg/l	1b/day		1	
8M. Mercury, Total (7439-97-6)				0.00367	2.51					1	ug/l	1b/day		1	
9M. Nickel, Total (7440-02-0)				<0.005	<3.4					1	mg/l	1b/day		1	
10M. Selenium, Total (7782-49-2)				0.0077	5.27					1	mg/l	1b/day		1	
11M. Silver, Total (7440-22-4)				<0.005	<3.4					1	mg/l	1b/day		1	
12M. Thallium, Total (7440-28-0)				<0.001	<0.68					1	mg/l	1b/day		1	
13M. Zinc, Total (7440-66-6)				<0.01	<6.8					1	mg/l	1b/day		1	
14M. Cyanide, Total (57-12-5)				<0.02	<13.7					1	mg/l	1b/day		1	
15M. Phenols, Total				<0.05	<34.2					1	mg/l	1b/day		1	
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											



CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<34.2					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<34.2					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<1.4					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<6.8					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<1.4					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<6.8					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<6.8					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<3.4					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<6.8					1	mg/l	lb/day			1
11V. Chloroform (67-88-3)				<0.002	<1.4					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<6.8					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<6.8					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<1.4					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<1.4					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<1.4					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<1.4					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<1.4					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<1.4					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<6.8					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<6.8					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<6.8					1	mg/l	lb/day		1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<1.4					1	mg/l	lb/day		1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<1.4					1	mg/l	lb/day		1	
25V. Toluene (108-88-3)				<0.002	<1.4					1	mg/l	lb/day		1	
26V. 1,2-Trans-Dichloroethylene (156-80-5)				<0.002	<1.4					1	mg/l	lb/day		1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<1.4					1	mg/l	lb/day		1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<1.4					1	mg/l	lb/day		1	
29V. Trichloroethylene (78-01-6)				<0.002	<1.4					1	mg/l	lb/day		1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<6.8					1	mg/l	lb/day		1	
31V. Vinyl Chloride (75-01-4)				<0.01	<6.8					1	mg/l	lb/day		1	
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)				<0.01	<6.8					1	mg/l	lb/day		1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<6.8					1	mg/l	lb/day		1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<6.8					1	mg/l	lb/day		1	
4A. 4,6-Dinitro-Cresol (534-52-1)				<0.05	<34.2					1	mg/l	lb/day		1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<34.2					1	mg/l	lb/day		1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<34.2					1	mg/l	lb/day		1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<34.2					1	mg/l	lb/day		1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<6.8					1	mg/l	lb/day		1	
9A. Pentachlorophenol (87-86-5)				<0.02	<13.7					1	mg/l	lb/day		1	
10A. Phenol (108-95-2)				<0.01	<6.8					1	mg/l	lb/day		1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<6.8					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS																
1B. Acenaphthene (83-32-9)				<0.01	<6.8					1	mg/l	1b/day			1	
2B. Acenaphthylene (208-96-8)				<0.01	<6.8					1	mg/l	1b/day			1	
3B. Anthracene (120-12-7)				<0.01	<6.8					1	mg/l	1b/day			1	
4B. Benzidine (92-87-5)				<0.08	<54.8					1	mg/l	1b/day			1	
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<6.8					1	mg/l	1b/day			1	
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<6.8					1	mg/l	1b/day			1	
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<6.8					1	mg/l	1b/day			1	
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<6.8					1	mg/l	1b/day			1	
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<6.8					1	mg/l	1b/day			1	
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)				<0.01	<6.8					1	mg/l	1b/day			1	
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<6.8					1	mg/l	1b/day			1	
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<6.8					1	mg/l	1b/day			1	
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<6.8					1	mg/l	1b/day			1	
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<6.8					1	mg/l	1b/day			1	
15B. Butyl Benzyl Phthalate (85-88-7)				<0.01	<6.8					1	mg/l	1b/day			1	
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<6.8					1	mg/l	1b/day			1	
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<6.8					1	mg/l	1b/day			1	
18B. Chrysene (218-01-9)				<0.01	<6.8					1	mg/l	1b/day			1	
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<6.8					1	mg/l	1b/day			1	
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<6.8					1	mg/l	1b/day			1	
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<6.8					1	mg/l	1b/day			1	

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)				<0.01	<6.8					1	mg/l	lb/day			1
23B. 3,3-Dichlorobenzidine (81-94-1)				<0.02	<13.7					1	mg/l	lb/day			1
24B. Diethyl Phthalate (84-86-2)				<0.01	<6.8					1	mg/l	lb/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<6.8					1	mg/l	lb/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<6.8					1	mg/l	lb/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<13.7					1	mg/l	lb/day			1
28B. 2,6-Dinitrotoluene (506-20-2)				<0.02	<13.7					1	mg/l	lb/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<6.8					1	mg/l	lb/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<6.8					1	mg/l	lb/day			1
31B. Fluoranthene (206-44-0)				<0.01	<6.8					1	mg/l	lb/day			1
32B. Fluorene (86-73-7)				<0.01	<6.8					1	mg/l	lb/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<6.8					1	mg/l	lb/day			1
34B. Hexachlorobutadiene (87-88-3)				<0.01	<6.8					1	mg/l	lb/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<6.8					1	mg/l	lb/day			1
36B Hexachloroethane (67-72-1)				<0.01	<6.8					1	mg/l	lb/day			1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<6.8					1	mg/l	lb/day			1
38B. Isophorone (78-59-1)				<0.01	<6.8					1	mg/l	lb/day			1
39B. Naphthalene (81-20-3)				<0.01	<6.8					1	mg/l	lb/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<6.8					1	mg/l	lb/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<6.8					1	mg/l	lb/day			1
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<6.8					1	mg/l	lb/day			1

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Scherer 2018 Outfall 07

Docket No. 20180007-EI  
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<6.8					1	mg/l	1b/day			1
44B. Phenanthrene (85-01-8)				<0.01	<6.8					1	mg/l	1b/day			1
45B. Pyrene (129-00-0)				<0.01	<6.8					1	mg/l	1b/day			1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<6.8					1	mg/l	1b/day			1
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-88-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (78-44-8)			X												

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-8)				<0.001	<0.68					1	mg/l	lb/day			1
19P. PCB-1254 (11097-68-1)				<0.001	<0.68					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.68					1	mg/l	lb/day			1
21P. PCB-1232 (11141-18-5)				<0.001	<0.68					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.68					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.68					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.68					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
GAD000612796 (Scherer)

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 08

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<4.0	<16					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	17	66.4					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	3.4	13.3					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	5	19.5					1	mg/l	lb/d			1
e. Ammonia (as N)	0.24	0.94					1	mg/l	lb/d			1
f. Flow	VALUE 325		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 18.31		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 29.61		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 8.57	MAXIMUM 8.57	MINIMUM	MAXIMUM			1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						d. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<0.4					1	mg/l	lb/d			1
b. Chlorine, Total Residual			0.1						1	mg/l				1
c. Color			60						1	PCU				1
d. Fecal Coliform			5000				180		4	col/100				1
e. Fluoride (16984-48-8)			0.24	0.94					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			<0.10	<0.4					1	mg/l	lb/d			1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<1.6					1	mg/l	lb/d			1
h. Oil and Grease			<5.5	<22.5					1	mg/l	lb/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<0.8					1	mg/l	lb/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			23	89.8					1	mg/l	lb/d			1
l. Sulfide (as S)			<0.2	<0.8					1	mg/l	lb/d			1
m. Sulfite (as SO <sub>3</sub> ) (14285-45-3)			1.28	5					1	mg/l	lb/d			1
n. Surfactants			<0.05	<0.2					1	mg/l	lb/d			1
o. Aluminum, Total (7429-90-5)			0.139	0.54					1	mg/l	lb/d			1
p. Barium, Total (7440-39-3)			0.033	0.13					1	mg/l	lb/d			1
q. Boron, Total (7440-42-8)			<0.04	<1.6					1	mg/l	lb/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<1.6					1	mg/l	lb/d			1
s. Iron, Total (7439-89-6)			0.187	0.73					1	mg/l	lb/d			1
t. Magnesium, Total (7439-95-4)			2.0	7.8					1	mg/l	lb/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<1.6					1	mg/l	lb/d			1
v. Manganese, Total (7439-96-5)			0.546	2.13					1	mg/l	lb/d			1
w. Tin, Total (7440-31-5)			<0.02	<0.08					1	mg/l	lb/d			1
x. Titanium, Total (7440-32-6)			<0.01	<0.04					1	mg/l	lb/d			1



EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	08

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)				<0.005	<0.02					1	mg/l	1b/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.02					1	mg/l	1b/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.004					1	mg/l	1b/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.003					1	mg/l	1b/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.02					1	mg/l	1b/day			1
6M. Copper, Total (7440-50-8)				<0.005	<0.02					1	mg/l	1b/day			1
7M. Lead, Total (7439-92-1)				<0.001	<0.004					1	mg/l	1b/day			1
8M. Mercury, Total (7439-97-6)				0.00178	0.007					1	ug/l	1b/day			1
9M. Nickel, Total (7440-02-0)				<0.005	<0.02					1	mg/l	1b/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.02					1	mg/l	1b/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.02					1	mg/l	1b/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.004					1	mg/l	1b/day			1
13M. Zinc, Total (7440-66-6)				0.0115	0.045					1	mg/l	1b/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<0.08					1	mg/l	1b/day			1
15M. Phenols, Total				<0.05	<0.2					1	mg/l	1b/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)				<0.05	<0.2					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<0.2					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<0.008					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.04					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.008					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<0.04					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.04					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.02					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.04					1	mg/l	lb/day			1
11V. Chloroform (67-66-3)				<0.002	<0.008					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.04					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.04					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.008					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.008					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.008					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.008					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-8)				<0.002	<0.008					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.008					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<0.04					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<0.04					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

Scherer 2018 Outfall 08

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1)	(2) MASS	(1)	(2) MASS	(1)	(2) MASS				(1)	(2) MASS		
				CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS				CONCENTRATION	(2) MASS		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)																
22V. Methylene Chloride (75-09-2)				<0.01	<0.04					1	mg/l	lb/day			1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.008					1	mg/l	lb/day			1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.008					1	mg/l	lb/day			1	
25V. Toluene (108-88-3)				<0.002	<0.008					1	mg/l	lb/day			1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.008					1	mg/l	lb/day			1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<0.008					1	mg/l	lb/day			1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.008					1	mg/l	lb/day			1	
29V Trichloroethylene (79-01-8)				<0.002	<0.008					1	mg/l	lb/day			1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<0.04					1	mg/l	lb/day			1	
31V. Vinyl Chloride (75-01-4)				<0.01	<0.04					1	mg/l	lb/day			1	
GC/MS FRACTION - ACID COMPOUNDS																
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.04					1	mg/l	lb/day			1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.04					1	mg/l	lb/day			1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.04					1	mg/l	lb/day			1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<0.2					1	mg/l	lb/day			1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<0.2					1	mg/l	lb/day			1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<0.2					1	mg/l	lb/day			1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<0.2					1	mg/l	lb/day			1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.04					1	mg/l	lb/day			1	
9A. Pentachlorophenol (87-86-5)				<0.02	<0.08					1	mg/l	lb/day			1	
10A. Phenol (108-95-2)				<0.01	<0.04					1	mg/l	lb/day			1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.04					1	mg/l	lb/day			1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<0.04					1	mg/l	lb/day		1	
2B. Acenaphthylene (208-98-8)				<0.01	<0.04					1	mg/l	lb/day		1	
3B. Anthracene (120-12-7)				<0.01	<0.04					1	mg/l	lb/day		1	
4B. Benzidine (82-87-5)				<0.08	<0.32					1	mg/l	lb/day		1	
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.04					1	mg/l	lb/day		1	
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.04					1	mg/l	lb/day		1	
7B. 3,4-Benzo- fluoranthene (205-99-2)				<0.01	<0.04					1	mg/l	lb/day		1	
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.04					1	mg/l	lb/day		1	
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<0.04					1	mg/l	lb/day		1	
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)				<0.01	<0.04					1	mg/l	lb/day		1	
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)				<0.01	<0.04					1	mg/l	lb/day		1	
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)				<0.01	<0.04					1	mg/l	lb/day		1	
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)				<0.01	<0.04					1	mg/l	lb/day		1	
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.04					1	mg/l	lb/day		1	
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<0.04					1	mg/l	lb/day		1	
16B. 2-Chloro- naphthalene (91-58-7)				<0.01	<0.04					1	mg/l	lb/day		1	
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)				<0.01	<0.04					1	mg/l	lb/day		1	
18B. Chrysene (218-01-9)				<0.01	<0.04					1	mg/l	lb/day		1	
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.04					1	mg/l	lb/day		1	
20B. 1,2-Dichloro- benzene (95-50-1)				<0.01	<0.04					1	mg/l	lb/day		1	
21B. 1,3-Di-chloro- benzene (541-73-1)				<0.01	<0.04					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichloro- benzene (106-46-7)				<0.01	<0.04					1	mg/l	lb/day		1	
23B. 3,3-Dichloro- benzidine (91-94-1)				<0.02	<0.08					1	mg/l	lb/day		1	
24B. Diethyl Phthalate (84-66-2)				<0.01	<0.04					1	mg/l	lb/day		1	
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.04					1	mg/l	lb/day		1	
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.04					1	mg/l	lb/day		1	
27B. 2,4-Dinitro- toluene (121-14-2)				<0.02	<0.08					1	mg/l	lb/day		1	
28B. 2,6-Dinitro- toluene (606-20-2)				<0.02	<0.08					1	mg/l	lb/day		1	
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.04					1	mg/l	lb/day		1	
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)				<0.01	<0.04					1	mg/l	lb/day		1	
31B. Fluoranthene (206-44-0)				<0.01	<0.04					1	mg/l	lb/day		1	
32B. Fluorene (86-73-7)				<0.01	<0.04					1	mg/l	lb/day		1	
33B. Hexachloro- benzene (118-74-1)				<0.01	<0.04					1	mg/l	lb/day		1	
34B. Hexachloro- butadiene (87-88-3)				<0.01	<0.04					1	mg/l	lb/day		1	
35B. Hexachloro- cyclopentadiene (77-47-4)				<0.01	<0.04					1	mg/l	lb/day		1	
36B Hexachloro- ethane (67-72-1)				<0.01	<0.04					1	mg/l	lb/day		1	
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<0.04					1	mg/l	lb/day		1	
38B. Isophorone (78-59-1)				<0.01	<0.04					1	mg/l	lb/day		1	
39B. Naphthalene (91-20-3)				<0.01	<0.04					1	mg/l	lb/day		1	
40B. Nitrobenzene (98-95-3)				<0.01	<0.04					1	mg/l	lb/day		1	
41B. N-Nitro- sodimethylamine (62-75-8)				<0.01	<0.04					1	mg/l	lb/day		1	
42B. N-Nitrosodi- N-Propylamine (621-64-7)				<0.01	<0.04					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<0.04					1	mg/l	1b/day			1
44B. Phenanthrene (85-01-8)				<0.01	<0.04					1	mg/l	1b/day			1
45B. Pyrene (129-00-0)				<0.01	<0.04					1	mg/l	1b/day			1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.04					1	mg/l	1b/day			1
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (78-44-8)			X												

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EPA I.D. NUMBER (copy from Item 1 of Form 1) GAD000612796 (Scherer)	OUTFALL NUMBER 08
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.004					1	mg/l	lb/day		1	
19P. PCB-1254 (11097-69-1)				<0.001	<0.004					1	mg/l	lb/day		1	
20P. PCB-1221 (11104-28-2)				<0.001	<0.004					1	mg/l	lb/day		1	
21P. PCB-1232 (11141-18-5)				<0.001	<0.004					1	mg/l	lb/day		1	
22P. PCB-1248 (12672-29-8)				<0.001	<0.004					1	mg/l	lb/day		1	
23P. PCB-1260 (11096-82-5)				<0.001	<0.004					1	mg/l	lb/day		1	
24P. PCB-1016 (12674-11-2)				<0.001	<0.004					1	mg/l	lb/day		1	
25P. Toxaphene (8001-35-2)			X											1	

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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GAD000612796 (Scherer)

<b>V. INTAKE AND EFFLUENT CHARACTERISTICS</b> (continued from page 3 of Form 2-C)	<b>OUTFALL NO.</b> 09
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**PART A --You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<8.0	<7.5					1	mg/l	lb/d	<8.0		1
b. Chemical Oxygen Demand (COD)	<10	<9.37					1	mg/l	lb/d	<10		1
c. Total Organic Carbon (TOC)	4.6	4.3					1	mg/l	lb/d	4.6		1
d. Total Suspended Solids (TSS)	<5	<4.7					1	mg/l	lb/d	<5		1
e. Ammonia (as N)	0.12	0.11					1	mg/l	lb/d	0.12		1
f. Flow	VALUE 78		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 17.49		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 29.05		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 8.91	MAXIMUM 8.91	MINIMUM	MAXIMUM			1	STANDARD UNITS				

**PART B -** Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)					
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24859-67-9)			<1.0	<0.94					1	mg/l	lb/d	<1.0		1
b. Chlorine, Total Residual			<0.1						1	mg/l		<0.1		1
c. Color			30						1	PCU		30		1
d. Fecal Coliform			14						1	col/100		14		1
e. Fluoride (16984-48-8)			0.26	0.24					1	mg/l	lb/d	0.26		1
f. Nitrate-Nitrite (as N)			<0.10	<0.094					1	mg/l	lb/d	<0.10		1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<0.38					1	mg/l	lb/d	<0.40		1
h. Oil and Grease			<5.8	<5.4					1	mg/l	lb/d	<5.8		1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<0.19					1	mg/l	lb/d	<0.2		1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			23	21.5					1	mg/l	lb/d			1
l. Sulfide (as S)			<0.2	<0.19					1	mg/l	lb/d			1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			0.64	0.6					1	mg/l	lb/d			1
n. Surfactants			0.08	0.07					1	mg/l	lb/d			1
o. Aluminum, Total (7429-90-5)			<0.1	<0.094					1	mg/l	lb/d			1
p. Barium, Total (7440-39-3)			0.0209	0.0196					1	mg/l	lb/d			1
q. Boron, Total (7440-42-8)			<0.04	<0.038					1	mg/l	lb/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<0.038					1	mg/l	lb/d			1
s. Iron, Total (7439-89-6)			0.0625	0.059					1	mg/l	lb/d			1
t. Magnesium, Total (7439-95-4)			2.0	1.9					1	mg/l	lb/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<0.038					1	mg/l	lb/d			1
v. Manganese, Total (7439-96-5)			<0.04	<0.038					1	mg/l	lb/d			1
w. Tin, Total (7440-31-5)			<0.02	<0.019					1	mg/l	lb/d			1
x. Titanium, Total (7440-32-6)			<0.01	<0.009					1	mg/l	lb/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	09

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<0.005					1	mg/l	lb/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.005					1	mg/l	lb/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.001					1	mg/l	lb/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<.0007					1	mg/l	lb/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.005					1	mg/l	lb/day			1
6M. Copper, Total (7440-50-8)				<0.005	<0.005					1	mg/l	lb/day			1
7M. Lead, Total (7439-82-1)				<0.001	<0.001					1	mg/l	lb/day			1
8M. Mercury, Total (7439-97-8)				0.000736	0.0007					1	ug/l	lb/day			1
9M. Nickel, Total (7440-02-0)				<0.005	<0.005					1	mg/l	lb/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.005					1	mg/l	lb/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.005					1	mg/l	lb/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.001					1	mg/l	lb/day			1
13M. Zinc, Total (7440-66-6)				<0.01	<0.009					1	mg/l	lb/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<0.02					1	mg/l	lb/day			1
15M. Phenols, Total				<0.05	<0.047					1	mg/l	lb/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1784-01-8)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<0.047					1	mg/l	1b/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<0.047					1	mg/l	1b/day			1
3V. Benzene (71-43-2)				<0.002	<0.002					1	mg/l	1b/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.009					1	mg/l	1b/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.002					1	mg/l	1b/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<0.009					1	mg/l	1b/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.009					1	mg/l	1b/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.005					1	mg/l	1b/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.009					1	mg/l	1b/day			1
11V. Chloroform (67-66-3)				<0.002	<0.002					1	mg/l	1b/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.009					1	mg/l	1b/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.009					1	mg/l	1b/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.002					1	mg/l	1b/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.002					1	mg/l	1b/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.002					1	mg/l	1b/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.002					1	mg/l	1b/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<0.002					1	mg/l	1b/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.002					1	mg/l	1b/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<0.009					1	mg/l	1b/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<0.009					1	mg/l	1b/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<0.009					1	mg/l	lb/day		1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.002					1	mg/l	lb/day		1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.002					1	mg/l	lb/day		1	
25V. Toluene (108-88-3)				<0.002	<0.002					1	mg/l	lb/day		1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.002					1	mg/l	lb/day		1	
27V. 1,1,1-Trichloroethane (71-55-8)				<0.002	<0.002					1	mg/l	lb/day		1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.002					1	mg/l	lb/day		1	
29V. Trichloroethylene (79-01-6)				<0.002	<0.002					1	mg/l	lb/day		1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<0.009					1	mg/l	lb/day		1	
31V. Vinyl Chloride (75-01-4)				<0.01	<0.009					1	mg/l	lb/day		1	
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.009					1	mg/l	lb/day		1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.009					1	mg/l	lb/day		1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.009					1	mg/l	lb/day		1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<0.047					1	mg/l	lb/day		1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<0.047					1	mg/l	lb/day		1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<0.047					1	mg/l	lb/day		1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<0.047					1	mg/l	lb/day		1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.009					1	mg/l	lb/day		1	
9A. Pentachlorophenol (87-86-5)				<0.02	<0.019					1	mg/l	lb/day		1	
10A. Phenol (108-95-2)				<0.01	<0.009					1	mg/l	lb/day		1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.009					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<0.009					1	mg/l	1b/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<0.009					1	mg/l	1b/day			1
3B. Anthracene (120-12-7)				<0.01	<0.009					1	mg/l	1b/day			1
4B. Benzidine (92-87-5)				<0.08	<0.075					1	mg/l	1b/day			1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.009					1	mg/l	1b/day			1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.009					1	mg/l	1b/day			1
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<0.009					1	mg/l	1b/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.009					1	mg/l	1b/day			1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<0.009					1	mg/l	1b/day			1
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)				<0.01	<0.009					1	mg/l	1b/day			1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<0.009					1	mg/l	1b/day			1
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<0.009					1	mg/l	1b/day			1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<0.009					1	mg/l	1b/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.009					1	mg/l	1b/day			1
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<0.009					1	mg/l	1b/day			1
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<0.009					1	mg/l	1b/day			1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<0.009					1	mg/l	1b/day			1
18B. Chrysene (218-01-9)				<0.01	<0.009					1	mg/l	1b/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.009					1	mg/l	1b/day			1
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<0.009					1	mg/l	1b/day			1
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<0.009					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)				<0.01	<0.009					1	mg/l	1b/day			1
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<0.019					1	mg/l	1b/day			1
24B. Diethyl Phthalate (84-68-2)				<0.01	<0.009					1	mg/l	1b/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.009					1	mg/l	1b/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.009					1	mg/l	1b/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<0.019					1	mg/l	1b/day			1
28B. 2,6-Dinitrotoluene (506-20-2)				<0.02	<0.019					1	mg/l	1b/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.009					1	mg/l	1b/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<0.009					1	mg/l	1b/day			1
31B. Fluoranthene (206-44-0)				<0.01	<0.009					1	mg/l	1b/day			1
32B. Fluorene (86-73-7)				<0.01	<0.009					1	mg/l	1b/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<0.009					1	mg/l	1b/day			1
34B. Hexachlorobutadiene (87-68-3)				<0.01	<0.009					1	mg/l	1b/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<0.009					1	mg/l	1b/day			1
36B Hexachloroethane (67-72-1)				<0.01	<0.009					1	mg/l	1b/day			1
37B. Indeno (1,2,3-cd) Pyrene (183-39-5)				<0.01	<0.009					1	mg/l	1b/day			1
38B. Isophorone (78-59-1)				<0.01	<0.009					1	mg/l	1b/day			1
39B. Naphthalene (91-20-3)				<0.01	<0.009					1	mg/l	1b/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<0.009					1	mg/l	1b/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<0.009					1	mg/l	1b/day			1
42B. N-Nitrosodi-N-Propylamine (821-64-7)				<0.01	<0.009					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-8)				<0.01	<0.009					1	mg/l	1b/day			1
44B. Phenanthrene (85-01-8)				<0.01	<0.009					1	mg/l	1b/day			1
45B. Pyrene (129-00-0)				<0.01	<0.009					1	mg/l	1b/day			1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.009					1	mg/l	1b/day			1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	09

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53489-21-9)				<0.001	<0.001					1	mg/l	lb/day			1
18P. PCB-1254 (11087-69-1)				<0.001	<0.001					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.001					1	mg/l	lb/day			1
21P. PCB-1232 (11141-16-5)				<0.001	<0.001					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.001					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.001					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.001					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 10

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<8.0	<73.5					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	<10	<92					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	4.6	42.3					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	<5	<46					1	mg/l	lb/d			1
e. Ammonia (as N)	0.12	1.1					1	mg/l	lb/d			1
f. Flow	VALUE 765		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 17.49		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 29.05		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 8.91	MAXIMUM 8.91	MINIMUM	MAXIMUM			1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						d. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<9.2					1	mg/l	lb/d			1
b. Chlorine, Total Residual			<0.1						1	mg/l				1
c. Color			30						1	PCU				1
d. Fecal Coliform			14						1	col/100				1
e. Fluoride (16984-48-8)			0.26	2.4					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			<0.10	<0.92					1	mg/l	lb/d			1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<3.7					1	mg/l	1b/d			1
h. Oil and Grease			<5.8	<53.3					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<1.84					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-78-8)			23	211					1	mg/l	1b/d			1
l. Sulfide (as S)			<0.2	<1.84					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14285-45-3)			0.64	5.9					1	mg/l	1b/d			1
n. Surfactants			0.08	0.73					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			<0.1	<0.92					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.0209	0.19					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			<0.04	<3.7					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<3.7					1	mg/l	1b/d			1
s. Iron, Total (7439-89-6)			0.0625	0.57					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			2.0	18.4					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<3.7					1	mg/l	1b/d			1
v. Manganese, Total (7439-98-5)			<0.04	<3.7					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<1.84					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-8)			<0.01	<0.09					1	mg/l	1b/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	10

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)				<0.005	<0.046					1	mg/l	1b/day		1	
2M. Arsenic, Total (7440-38-2)				<0.005	<0.046					1	mg/l	1b/day		1	
3M. Beryllium, Total (7440-41-7)				<0.001	<0.009					1	mg/l	1b/day		1	
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.007					1	mg/l	1b/day		1	
5M. Chromium, Total (7440-47-3)				<0.005	<0.046					1	mg/l	1b/day		1	
6M. Copper, Total (7440-50-8)				<0.005	<0.046					1	mg/l	1b/day		1	
7M. Lead, Total (7439-92-1)				<0.001	<0.009					1	mg/l	1b/day		1	
8M. Mercury, Total (7439-97-6)				0.000736	0.0068					1	ug/l	1b/day		1	
9M. Nickel, Total (7440-02-0)				<0.005	<0.046					1	mg/l	1b/day		1	
10M. Selenium, Total (7782-49-2)				<0.005	<0.046					1	mg/l	1b/day		1	
11M. Silver, Total (7440-22-4)				<0.005	<0.046					1	mg/l	1b/day		1	
12M. Thallium, Total (7440-28-0)				<0.001	<0.009					1	mg/l	1b/day		1	
13M. Zinc, Total (7440-66-6)				<0.01	<0.09					1	mg/l	1b/day		1	
14M. Cyanide, Total (57-12-5)				<0.02	<0.184					1	mg/l	1b/day		1	
15M. Phenols, Total				<0.05	<0.46					1	mg/l	1b/day		1	
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<0.46					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<0.46					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<0.02					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-68-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.09					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.02					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<0.09					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.09					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.046					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.09					1	mg/l	lb/day			1
11V. Chloroform (67-66-3)				<0.002	<0.02					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.09					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.09					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.02					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.02					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.02					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.02					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<0.02					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.02					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<0.09					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<0.09					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)		
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)																
22V. Methylene Chloride (75-09-2)				<0.01	<0.09					1	mg/l	lb/day			1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.02					1	mg/l	lb/day			1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.02					1	mg/l	lb/day			1	
25V. Toluene (108-88-3)				<0.002	<0.02					1	mg/l	lb/day			1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.02					1	mg/l	lb/day			1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<0.02					1	mg/l	lb/day			1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.02					1	mg/l	lb/day			1	
29V. Trichloroethylene (79-01-8)				<0.002	<0.02					1	mg/l	lb/day			1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<0.09					1	mg/l	lb/day			1	
31V. Vinyl Chloride (75-01-4)				<0.01	<0.09					1	mg/l	lb/day			1	
GC/MS FRACTION - ACID COMPOUNDS																
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.09					1	mg/l	lb/day			1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.09					1	mg/l	lb/day			1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.09					1	mg/l	lb/day			1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<0.46					1	mg/l	lb/day			1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<0.46					1	mg/l	lb/day			1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<0.46					1	mg/l	lb/day			1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<0.46					1	mg/l	lb/day			1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.09					1	mg/l	lb/day			1	
9A. Pentachlorophenol (87-86-5)				<0.02	<0.184					1	mg/l	lb/day			1	
10A. Phenol (108-85-2)				<0.01	<0.09					1	mg/l	lb/day			1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.09					1	mg/l	lb/day			1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-8)				<0.01	<0.09					1	mg/l	lb/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<0.09					1	mg/l	lb/day			1
3B. Anthracene (120-12-7)				<0.01	<0.09					1	mg/l	lb/day			1
4B. Benzidine (82-87-5)				<0.08	<0.74					1	mg/l	lb/day			1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.09					1	mg/l	lb/day			1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.09					1	mg/l	lb/day			1
7B. 3,4-Benzo- fluoranthene (205-99-2)				<0.01	<0.09					1	mg/l	lb/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.09					1	mg/l	lb/day			1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<0.09					1	mg/l	lb/day			1
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)				<0.01	<0.09					1	mg/l	lb/day			1
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)				<0.01	<0.09					1	mg/l	lb/day			1
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)				<0.01	<0.09					1	mg/l	lb/day			1
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)				<0.01	<0.09					1	mg/l	lb/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.09					1	mg/l	lb/day			1
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<0.09					1	mg/l	lb/day			1
16B. 2-Chloro- naphthalene (91-58-7)				<0.01	<0.09					1	mg/l	lb/day			1
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)				<0.01	<0.09					1	mg/l	lb/day			1
18B. Chrysene (218-01-9)				<0.01	<0.09					1	mg/l	lb/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.09					1	mg/l	lb/day			1
20B. 1,2-Dichloro- benzene (95-50-1)				<0.01	<0.09					1	mg/l	lb/day			1
21B. 1,3-Di-chloro- benzene (541-73-1)				<0.01	<0.09					1	mg/l	lb/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichloro- benzene (106-46-7)				<0.01	<0.09					1	mg/l	lb/day		1	
23B. 3,3-Dichloro- benzidine (91-94-1)				<0.02	<0.184					1	mg/l	lb/day		1	
24B. Diethyl Phthalate (84-86-2)				<0.01	<0.09					1	mg/l	lb/day		1	
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.09					1	mg/l	lb/day		1	
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.09					1	mg/l	lb/day		1	
27B. 2,4-Dinitro- toluene (121-14-2)				<0.02	<0.184					1	mg/l	lb/day		1	
28B. 2,6-Dinitro- toluene (606-20-2)				<0.02	<0.184					1	mg/l	lb/day		1	
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.09					1	mg/l	lb/day		1	
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)				<0.01	<0.09					1	mg/l	lb/day		1	
31B. Fluoranthene (206-44-0)				<0.01	<0.09					1	mg/l	lb/day		1	
32B. Fluorene (86-73-7)				<0.01	<0.09					1	mg/l	lb/day		1	
33B. Hexachloro- benzene (118-74-1)				<0.01	<0.09					1	mg/l	lb/day		1	
34B. Hexachloro- butadiene (87-88-3)				<0.01	<0.09					1	mg/l	lb/day		1	
35B. Hexachloro- cyclopentadiene (77-47-4)				<0.01	<0.09					1	mg/l	lb/day		1	
36B Hexachloro- ethane (67-72-1)				<0.01	<0.09					1	mg/l	lb/day		1	
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<0.09					1	mg/l	lb/day		1	
38B. Isophorone (78-59-1)				<0.01	<0.09					1	mg/l	lb/day		1	
39B. Naphthalene (91-20-3)				<0.01	<0.09					1	mg/l	lb/day		1	
40B. Nitrobenzene (98-95-3)				<0.01	<0.09					1	mg/l	lb/day		1	
41B. N-Nitro- sodimethylamine (62-75-9)				<0.01	<0.09					1	mg/l	lb/day		1	
42B. N-Nitrosodi- N-Propylamine (621-64-7)				<0.01	<0.09					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<0.09					1	mg/l	lb/day		1	
44B. Phenanthrene (85-01-8)				<0.01	<0.09					1	mg/l	lb/day		1	
45B. Pyrene (129-00-0)				<0.01	<0.09					1	mg/l	lb/day		1	
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.09					1	mg/l	lb/day		1	
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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GAD000612796 (Scherer)	10

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.009					1	mg/l	lb/day			1
19P. PCB-1254 (11097-69-1)				<0.001	<0.009					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.009					1	mg/l	lb/day			1
21P. PCB-1232 (11141-18-5)				<0.001	<0.009					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-8)				<0.001	<0.009					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.009					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.009					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 11

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<8	<10					1	mg/l	lb/d	<8		1
b. Chemical Oxygen Demand (COD)	<10	<12					1	mg/l	lb/d	<10		1
c. Total Organic Carbon (TOC)	4.8	5.8					1	mg/l	lb/d	4.8		1
d. Total Suspended Solids (TSS)	<5	<6					1	mg/l	lb/d	<5		1
e. Ammonia (as N)	<0.10	<0.12					1	mg/l	lb/d	<0.10		1
f. Flow	VALUE 100		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 16.53		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 25.09		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 7.54	MAXIMUM 7.54	MINIMUM	MAXIMUM			1	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<1.2					1	mg/l	lb/d	<1.0		1
b. Chlorine, Total Residual			0.1						1	mg/l		0.1		1
c. Color			200						1	PCU		200		1
d. Fecal Coliform			800						1	col/100		800		1
e. Fluoride (16984-48-8)			0.31	0.37					1	mg/l	lb/d	0.31		1
f. Nitrate-Nitrite (as N)			0.89	1.07					1	mg/l	lb/d	0.89		1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<0.48					1	mg/l	lb/d	<0.40		1
h. Oil and Grease			<5.4	<6.5					1	mg/l	lb/d	<5.4		1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<0.24					1	mg/l	lb/d	<0.2		1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			22	26					1	mg/l	lb/d			1
l. Sulfide (as S)			<0.2	<0.24					1	mg/l	lb/d			1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			1.92	2.3					1	mg/l	lb/d			1
n. Surfactants			0.06	0.07					1	mg/l	lb/d			1
o. Aluminum, Total (7429-90-5)			0.409	0.49					1	mg/l	lb/d			1
p. Barium, Total (7440-39-3)			0.0239	0.029					1	mg/l	lb/d			1
q. Boron, Total (7440-42-8)			<0.04	<0.05					1	mg/l	lb/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<0.05					1	mg/l	lb/d			1
s. Iron, Total (7439-89-6)			0.76	0.9					1	mg/l	lb/d			1
t. Magnesium, Total (7439-95-4)			1.45	1.74					1	mg/l	lb/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<0.05					1	mg/l	lb/d			1
v. Manganese, Total (7439-96-5)			0.0792	<0.095					1	mg/l	lb/d			1
w. Tin, Total (7440-31-5)			<0.02	<0.24					1	mg/l	lb/d			1
x. Titanium, Total (7440-32-6)			0.0147	0.018					1	mg/l	lb/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)				<0.005	<0.006					1	mg/l	lb/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.006					1	mg/l	lb/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<.0012					1	mg/l	lb/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<.0008					1	mg/l	lb/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.006					1	mg/l	lb/day			1
6M. Copper, Total (7440-50-8)				<0.005	<0.006					1	mg/l	lb/day			1
7M. Lead, Total (7439-92-1)				<0.001	<.0012					1	mg/l	lb/day			1
8M. Mercury, Total (7439-97-6)				0.000995	0.0012					1	ug/l	lb/day			1
9M. Nickel, Total (7440-02-0)				0.0465	0.056					1	mg/l	lb/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.006					1	mg/l	lb/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.006					1	mg/l	lb/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<.0012					1	mg/l	lb/day			1
13M. Zinc, Total (7440-66-6)				<0.01	<0.012					1	mg/l	lb/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<0.024					1	mg/l	lb/day			1
15M. Phenols, Total				<0.05	<0.06					1	mg/l	lb/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)				<0.05	<0.06					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<0.06					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<.0024					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.012					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<.0024					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<0.012					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.012					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.006					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.012					1	mg/l	lb/day			1
11V. Chloroform (67-68-3)				<0.002	<.0024					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.012					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.012					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<.0024					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<.0024					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<.0024					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<.0024					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<.0024					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<.0024					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<0.012					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<0.012					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<0.012					1	mg/l	lb/day		1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<.0024					1	mg/l	lb/day		1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<.0024					1	mg/l	lb/day		1	
25V. Toluene (108-88-3)				<0.002	<.0024					1	mg/l	lb/day		1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<.0024					1	mg/l	lb/day		1	
27V. 1,1,1-Trichloroethane (71-55-8)				<0.002	<.0024					1	mg/l	lb/day		1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<.0024					1	mg/l	lb/day		1	
29V. Trichloroethylene (79-01-6)				<0.002	<.0024					1	mg/l	lb/day		1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<0.012					1	mg/l	lb/day		1	
31V. Vinyl Chloride (75-01-4)				<0.01	<0.012					1	mg/l	lb/day		1	
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.012					1	mg/l	lb/day		1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.012					1	mg/l	lb/day		1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.012					1	mg/l	lb/day		1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<0.06					1	mg/l	lb/day		1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<0.06					1	mg/l	lb/day		1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<0.06					1	mg/l	lb/day		1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<0.06					1	mg/l	lb/day		1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.012					1	mg/l	lb/day		1	
9A. Pentachlorophenol (87-86-5)				<0.02	<0.024					1	mg/l	lb/day		1	
10A. Phenol (108-95-2)				<0.01	<0.012					1	mg/l	lb/day		1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.012					1	mg/l	lb/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
	GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS														
1B. Acenaphthene (83-32-9)				<0.01	<0.012					1	mg/l	lb/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<0.012					1	mg/l	lb/day			1
3B. Anthracene (120-12-7)				<0.01	<0.012					1	mg/l	lb/day			1
4B. Benzidine (92-87-5)				<0.08	<0.096					1	mg/l	lb/day			1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.012					1	mg/l	lb/day			1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.012					1	mg/l	lb/day			1
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<0.012					1	mg/l	lb/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.012					1	mg/l	lb/day			1
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<0.012					1	mg/l	lb/day			1
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)				<0.01	<0.012					1	mg/l	lb/day			1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<0.012					1	mg/l	lb/day			1
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<0.012					1	mg/l	lb/day			1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<0.012					1	mg/l	lb/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.012					1	mg/l	lb/day			1
15B. Butyl Benzyl Phthalate (85-88-7)				<0.01	<0.012					1	mg/l	lb/day			1
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<0.012					1	mg/l	lb/day			1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<0.012					1	mg/l	lb/day			1
18B. Chrysene (218-01-9)				<0.01	<0.012					1	mg/l	lb/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.012					1	mg/l	lb/day			1
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<0.012					1	mg/l	lb/day			1
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<0.012					1	mg/l	lb/day			1

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (108-46-7)				<0.01	<0.012					1	mg/l	lb/day			1
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<0.024					1	mg/l	lb/day			1
24B. Diethyl Phthalate (84-66-2)				<0.01	<0.012					1	mg/l	lb/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.012					1	mg/l	lb/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.012					1	mg/l	lb/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<0.024					1	mg/l	lb/day			1
28B. 2,6-Dinitrotoluene (606-20-2)				<0.02	<0.024					1	mg/l	lb/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.012					1	mg/l	lb/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<0.012					1	mg/l	lb/day			1
31B. Fluoranthene (206-44-0)				<0.01	<0.012					1	mg/l	lb/day			1
32B. Fluorene (86-73-7)				<0.01	<0.012					1	mg/l	lb/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<0.012					1	mg/l	lb/day			1
34B. Hexachlorobutadiene (87-68-3)				<0.01	<0.012					1	mg/l	lb/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<0.012					1	mg/l	lb/day			1
36B Hexachloroethane (67-72-1)				<0.01	<0.012					1	mg/l	lb/day			1
37B. Indeno (1,2,3-cd) Pyrene (193-38-5)				<0.01	<0.012					1	mg/l	lb/day			1
38B. Isophorone (78-59-1)				<0.01	<0.012					1	mg/l	lb/day			1
39B. Naphthalene (91-20-3)				<0.01	<0.012					1	mg/l	lb/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<0.012					1	mg/l	lb/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<0.012					1	mg/l	lb/day			1
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<0.012					1	mg/l	lb/day			1

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CONTINUE ON REVERSE

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)</b>															
43B. N-Nitro- sodiphenylamine (86-30-6)				<0.01	<0.012					1	mg/l	lb/day		1	
44B. Phenanthrene (85-01-8)				<0.01	<0.012					1	mg/l	lb/day		1	
45B. Pyrene (129-00-0)				<0.01	<0.012					1	mg/l	lb/day		1	
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.012					1	mg/l	lb/day		1	
<b>GC/MS FRACTION – PESTICIDES</b>															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-6)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<.0012					1	mg/l	lb/day		1	
19P. PCB-1254 (11097-69-1)				<0.001	<.0012					1	mg/l	lb/day		1	
20P. PCB-1221 (11104-28-2)				<0.001	<.0012					1	mg/l	lb/day		1	
21P. PCB-1232 (11141-16-5)				<0.001	<.0012					1	mg/l	lb/day		1	
22P. PCB-1248 (12672-29-8)				<0.001	<.0012					1	mg/l	lb/day		1	
23P. PCB-1260 (11096-82-5)				<0.001	<.0012					1	mg/l	lb/day		1	
24P. PCB-1016 (12674-11-2)				<0.001	<.0012					1	mg/l	lb/day		1	
25P. Toxaphene (8001-35-2)			X											1	

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 12

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<8	<244					1	mg/l	1b/d			1
b. Chemical Oxygen Demand (COD)	<10	<305					1	mg/l	1b/d			1
c. Total Organic Carbon (TOC)	<1	<31					1	mg/l	1b/d			1
d. Total Suspended Solids (TSS)	<5	<153					1	mg/l	1b/d			1
e. Ammonia (as N)	0.17	5.2					1	mg/l	1b/d			1
f. Flow	VALUE 2536		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 14.85		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 26.92		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 8.34	MAXIMUM 8.34	MINIMUM	MAXIMUM			1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<31					1	mg/l	1b/d			1
b. Chlorine, Total Residual			<0.1						1	mg/l				1
c. Color			<5						1	PCU				1
d. Fecal Coliform			10						1	col/100				1
e. Fluoride (16984-48-8)			<0.10	<3.1					1	mg/l	1b/d			1
f. Nitrate-Nitrite (as N)			<0.10	<3.1					1	mg/l	1b/d			1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<12.2					1	mg/l	lb/d			1
h. Oil and Grease			<5.4	<164.5					1	mg/l	lb/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<6.1					1	mg/l	lb/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			29	883					1	mg/l	lb/d			1
l. Sulfide (as S)			<0.2	<6.1					1	mg/l	lb/d			1
m. Sulfite (as SO <sub>3</sub> ) (14285-45-3)			1.92	58.5					1	mg/l	lb/d			1
n. Surfactants			<0.05	<1.6					1	mg/l	lb/d			1
o. Aluminum, Total (7429-90-5)			<0.1	<3.1					1	mg/l	lb/d			1
p. Barium, Total (7440-39-3)			<0.005	<0.153					1	mg/l	lb/d			1
q. Boron, Total (7440-42-8)			<0.04	<1.22					1	mg/l	lb/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<1.22					1	mg/l	lb/d			1
s. Iron, Total (7439-89-6)			<0.04	<1.22					1	mg/l	lb/d			1
t. Magnesium, Total (7439-95-4)			<0.05	<1.53					1	mg/l	lb/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<1.22					1	mg/l	lb/d			1
v. Manganese, Total (7439-96-5)			<0.04	<1.22					1	mg/l	lb/d			1
w. Tin, Total (7440-31-5)			<0.02	<6.1					1	mg/l	lb/d			1
x. Titanium, Total (7440-32-6)			<0.01	<0.31					1	mg/l	lb/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1) GAD000612796 (Scherer)	OUTFALL NUMBER 12
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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<0.153					1	mg/l	1b/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.153					1	mg/l	1b/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.031					1	mg/l	1b/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.014					1	mg/l	1b/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.153					1	mg/l	1b/day			1
6M. Copper, Total (7440-50-8)				<0.005	<0.153					1	mg/l	1b/day			1
7M. Lead, Total (7439-92-1)				<0.001	<0.031					1	mg/l	1b/day			1
8M. Mercury, Total (7439-97-6)				<0.0005	<0.016					1	ug/l	1b/day			1
9M. Nickel, Total (7440-02-0)				<0.005	<0.153					1	mg/l	1b/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.153					1	mg/l	1b/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.153					1	mg/l	1b/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.031					1	mg/l	1b/day			1
13M. Zinc, Total (7440-66-6)				<0.01	<0.31					1	mg/l	1b/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<0.61					1	mg/l	1b/day			1
15M. Phenols, Total				<0.05	<1.53					1	mg/l	1b/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-8)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<1.53					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<1.53					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<0.061					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.31					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.061					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<0.31					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.31					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.153					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.31					1	mg/l	lb/day			1
11V. Chloroform (67-66-3)				0.0073	0.22					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.31					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.31					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.061					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.061					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.061					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.061					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-8)				<0.002	<0.061					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.061					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-8)				<0.01	<0.31					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<0.31					1	mg/l	lb/day			1

\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)																
22V. Methylene Chloride (75-09-2)				<0.01	<0.31					1	mg/l	lb/day			1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.061					1	mg/l	lb/day			1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.061					1	mg/l	lb/day			1	
25V. Toluene (108-88-3)				<0.002	<0.061					1	mg/l	lb/day			1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.061					1	mg/l	lb/day			1	
27V. 1,1,1-Trichloroethane (71-55-6)				<0.002	<0.061					1	mg/l	lb/day			1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.061					1	mg/l	lb/day			1	
29V. Trichloroethylene (79-01-6)				<0.002	<0.061					1	mg/l	lb/day			1	
30V. Trichlorofluoromethane (75-89-4)				<0.01	<0.31					1	mg/l	lb/day			1	
31V. Vinyl Chloride (75-01-4)				<0.01	<0.31					1	mg/l	lb/day			1	
GC/MS FRACTION – ACID COMPOUNDS																
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.31					1	mg/l	lb/day			1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.31					1	mg/l	lb/day			1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.31					1	mg/l	lb/day			1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<1.53					1	mg/l	lb/day			1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<1.53					1	mg/l	lb/day			1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<1.53					1	mg/l	lb/day			1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<1.53					1	mg/l	lb/day			1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.31					1	mg/l	lb/day			1	
9A. Pentachlorophenol (87-86-5)				<0.02	<0.61					1	mg/l	lb/day			1	
10A. Phenol (108-95-2)				<0.01	<0.31					1	mg/l	lb/day			1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.31					1	mg/l	lb/day			1	

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<0.31					1	mg/l	lb/day		1	
2B. Acenaphthylene (208-96-8)				<0.01	<0.31					1	mg/l	lb/day		1	
3B. Anthracene (120-12-7)				<0.01	<0.31					1	mg/l	lb/day		1	
4B. Benzidine (92-87-5)				<0.08	<2.44					1	mg/l	lb/day		1	
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.31					1	mg/l	lb/day		1	
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.31					1	mg/l	lb/day		1	
7B. 3,4-Benzofluoranthene (205-99-2)				<0.01	<0.31					1	mg/l	lb/day		1	
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.31					1	mg/l	lb/day		1	
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<0.31					1	mg/l	lb/day		1	
10B. Bis (2-Chloro-ethyl) Methane (111-91-1)				<0.01	<0.31					1	mg/l	lb/day		1	
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<0.31					1	mg/l	lb/day		1	
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<0.31					1	mg/l	lb/day		1	
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)				<0.01	<0.31					1	mg/l	lb/day		1	
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.31					1	mg/l	lb/day		1	
15B. Butyl Benzyl Phthalate (85-68-7)				<0.01	<0.31					1	mg/l	lb/day		1	
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<0.31					1	mg/l	lb/day		1	
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<0.31					1	mg/l	lb/day		1	
18B. Chrysene (218-01-9)				<0.01	<0.31					1	mg/l	lb/day		1	
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.31					1	mg/l	lb/day		1	
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<0.31					1	mg/l	lb/day		1	
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<0.31					1	mg/l	lb/day		1	



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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (108-46-7)				<0.01	<0.31					1	mg/l	lb/day			1
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<0.61					1	mg/l	lb/day			1
24B. Diethyl Phthalate (84-66-2)				<0.01	<0.31					1	mg/l	lb/day			1
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.31					1	mg/l	lb/day			1
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.31					1	mg/l	lb/day			1
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<0.61					1	mg/l	lb/day			1
28B. 2,6-Dinitrotoluene (806-20-2)				<0.02	<0.61					1	mg/l	lb/day			1
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.31					1	mg/l	lb/day			1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<0.31					1	mg/l	lb/day			1
31B. Fluoranthene (206-44-0)				<0.01	<0.31					1	mg/l	lb/day			1
32B. Fluorene (86-73-7)				<0.01	<0.31					1	mg/l	lb/day			1
33B. Hexachlorobenzene (118-74-1)				<0.01	<0.31					1	mg/l	lb/day			1
34B. Hexachlorobutadiene (87-68-3)				<0.01	<0.31					1	mg/l	lb/day			1
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<0.31					1	mg/l	lb/day			1
36B Hexachloroethane (67-72-1)				<0.01	<0.31					1	mg/l	lb/day			1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<0.31					1	mg/l	lb/day			1
38B. Isophorone (78-59-1)				<0.01	<0.31					1	mg/l	lb/day			1
39B. Naphthalene (91-20-3)				<0.01	<0.31					1	mg/l	lb/day			1
40B. Nitrobenzene (98-95-3)				<0.01	<0.31					1	mg/l	lb/day			1
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<0.31					1	mg/l	lb/day			1
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<0.31					1	mg/l	lb/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<0.31					1	mg/l	1b/day			1
44B. Phenanthrene (85-01-8)				<0.01	<0.31					1	mg/l	1b/day			1
45B. Pyrene (129-00-0)				<0.01	<0.31					1	mg/l	1b/day			1
48B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.31					1	mg/l	1b/day			1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	12

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
	GC/MS FRACTION - PESTICIDES (continued)														
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.031					1	mg/l	lb/day		1	
19P. PCB-1254 (11097-69-1)				<0.001	<0.031					1	mg/l	lb/day		1	
20P. PCB-1221 (11104-28-2)				<0.001	<0.031					1	mg/l	lb/day		1	
21P. PCB-1232 (11141-16-5)				<0.001	<0.031					1	mg/l	lb/day		1	
22P. PCB-1248 (12672-29-6)				<0.001	<0.031					1	mg/l	lb/day		1	
23P. PCB-1260 (11096-82-5)				<0.001	<0.031					1	mg/l	lb/day		1	
24P. PCB-1016 (12674-11-2)				<0.001	<0.031					1	mg/l	lb/day		1	
25P. Toxaphene (8001-35-2)			X											1	

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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GAD000612796 (Scherer)

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO. 13

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<4	<207					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	<10	<517					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	4.0	206.6					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	26	1342.7					1	mg/l	lb/d			1
e. Ammonia (as N)	0.23	11.9					1	mg/l	lb/d			1
f. Flow	VALUE	4,300	VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE	21.49	VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE	31.65	VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM	10.2	MAXIMUM	10.2			1	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)			<1.0	<52					1	mg/l	lb/d			1
b. Chlorine, Total Residual			<0.1						1	mg/l				1
c. Color			90						1	PCU				1
d. Fecal Coliform			<4.0						1	col/100				1
e. Fluoride (16984-48-8)			<4	<207					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			0.62	32					1	mg/l	lb/d			1

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1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40		<21				1	mg/l	1b/d			1
h. Oil and Grease			<6		<310				1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2		<10.4				1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			210	10844.7					1	mg/l	1b/d			1
l. Sulfide (as S)			<0.2	<10.4					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			3.2	165.3					1	mg/l	1b/d			1
n. Surfactants			0.35	18.1					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			3.45	178.2					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.114	5.9					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			0.317	16.4					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<2.1					1	mg/l	1b/d			1
s. Iron, Total (7439-89-6)			0.314	16.2					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			2.69	138.9					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<2.1					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			0.0577	3					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<10.4					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-6)			0.0311	1.6					1	mg/l	1b/d			1

EPA I.D. NUMBER <i>(copy from Item 1 of Form 1)</i> GAD000612796 (Scherer)	OUTFALL NUMBER 13
-------------------------------------------------------------------------------	----------------------

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2c for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-38-0)				<0.005	<0.26					1	mg/l	lb/day		1	
2M. Arsenic, Total (7440-38-2)				<0.005	<0.26					1	mg/l	lb/day		1	
3M. Beryllium, Total (7440-41-7)				<0.001	<0.052					1	mg/l	lb/day		1	
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.04					1	mg/l	lb/day		1	
5M. Chromium, Total (7440-47-3)				<0.005	<0.26					1	mg/l	lb/day		1	
6M. Copper, Total (7440-50-8)				<0.005	<0.26					1	mg/l	lb/day		1	
7M. Lead, Total (7439-92-1)				<0.001	<0.052					1	mg/l	lb/day		1	
8M. Mercury, Total (7439-97-6)				0.00219	0.113					1	ug/l	lb/day		1	
9M. Nickel, Total (7440-02-0)				<0.005	<0.26					1	mg/l	lb/day		1	
10M. Selenium, Total (7782-49-2)				<0.005	<0.26					1	mg/l	lb/day		1	
11M. Silver, Total (7440-22-4)				<0.005	<0.26					1	mg/l	lb/day		1	
12M. Thallium, Total (7440-28-0)				<0.001	<0.052					1	mg/l	lb/day		1	
13M. Zinc, Total (7440-66-6)				0.0233	1.2					1	mg/l	lb/day		1	
14M. Cyanide, Total (57-12-5)				<0.02	<1.033					1	mg/l	lb/day		1	
15M. Phenols, Total				<0.05	<2.59					1	mg/l	lb/day		1	
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<2.59					1	mg/l	1b/day		1	
2V. Acrylonitrile (107-13-1)				<0.05	<2.59					1	mg/l	1b/day		1	
3V. Benzene (71-43-2)				<0.002	<0.11					1	mg/l	1b/day		1	
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.52					1	mg/l	1b/day		1	
6V. Carbon Tetrachloride (58-23-5)				<0.002	<0.11					1	mg/l	1b/day		1	
7V. Chlorobenzene (108-90-7)				<0.01	<0.52					1	mg/l	1b/day		1	
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.52					1	mg/l	1b/day		1	
9V. Chloroethane (75-00-3)				<0.005	<0.26					1	mg/l	1b/day		1	
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.52					1	mg/l	1b/day		1	
11V. Chloroform (67-66-3)				0.0046	0.24					1	mg/l	1b/day		1	
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.52					1	mg/l	1b/day		1	
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.52					1	mg/l	1b/day		1	
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.11					1	mg/l	1b/day		1	
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.11					1	mg/l	1b/day		1	
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.11					1	mg/l	1b/day		1	
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.11					1	mg/l	1b/day		1	
18V. 1,3-Dichloropropylene (542-75-8)				<0.002	<0.11					1	mg/l	1b/day		1	
19V. Ethylbenzene (100-41-4)				<0.002	<0.11					1	mg/l	1b/day		1	
20V. Methyl Bromide (74-83-9)				<0.01	<0.52					1	mg/l	1b/day		1	
21V. Methyl Chloride (74-87-3)				<0.01	<0.52					1	mg/l	1b/day		1	

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION – VOLATILE COMPOUNDS (continued)</b>															
22V. Methylene Chloride (75-09-2)				<0.01	<0.52					1	mg/l	1b/day		1	
23V. 1,1,2,2-Tetrachloroethane (79-34-5)				<0.002	<0.11					1	mg/l	1b/day		1	
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.11					1	mg/l	1b/day		1	
25V. Toluene (108-88-3)				<0.002	<0.11					1	mg/l	1b/day		1	
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.11					1	mg/l	1b/day		1	
27V. 1,1,1-Trichloroethane (71-55-8)				<0.002	<0.11					1	mg/l	1b/day		1	
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.11					1	mg/l	1b/day		1	
29V. Trichloroethylene (79-01-6)				<0.002	<0.11					1	mg/l	1b/day		1	
30V. Trichlorofluoromethane (75-69-4)				<0.01	<0.52					1	mg/l	1b/day		1	
31V. Vinyl Chloride (75-01-4)				<0.01	<0.52					1	mg/l	1b/day		1	
<b>GC/MS FRACTION – ACID COMPOUNDS</b>															
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.52					1	mg/l	1b/day		1	
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.52					1	mg/l	1b/day		1	
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.52					1	mg/l	1b/day		1	
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<2.59					1	mg/l	1b/day		1	
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<2.59					1	mg/l	1b/day		1	
6A. 2-Nitrophenol (88-75-5)				<0.05	<2.59					1	mg/l	1b/day		1	
7A. 4-Nitrophenol (100-02-7)				<0.05	<2.59					1	mg/l	1b/day		1	
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.52					1	mg/l	1b/day		1	
9A. Pentachlorophenol (87-86-5)				<0.02	<1.033					1	mg/l	1b/day		1	
10A. Phenol (108-95-2)				<0.01	<0.52					1	mg/l	1b/day		1	
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.52					1	mg/l	1b/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<0.52					1	mg/l	1b/day		1	
2B. Acenaphthylene (208-96-8)				<0.01	<0.52					1	mg/l	1b/day		1	
3B. Anthracene (120-12-7)				<0.01	<0.52					1	mg/l	1b/day		1	
4B. Benzidine (92-87-5)				<0.08	<4.2					1	mg/l	1b/day		1	
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.52					1	mg/l	1b/day		1	
8B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.52					1	mg/l	1b/day		1	
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<0.52					1	mg/l	1b/day		1	
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.52					1	mg/l	1b/day		1	
9B. Benzo (k) Fluoranthene (207-08-9)				<0.01	<0.52					1	mg/l	1b/day		1	
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)				<0.01	<0.52					1	mg/l	1b/day		1	
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<0.52					1	mg/l	1b/day		1	
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<0.52					1	mg/l	1b/day		1	
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)				<0.01	<0.52					1	mg/l	1b/day		1	
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.52					1	mg/l	1b/day		1	
15B. Butyl Benzyl Phthalate (85-88-7)				<0.01	<0.52					1	mg/l	1b/day		1	
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<0.52					1	mg/l	1b/day		1	
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<0.52					1	mg/l	1b/day		1	
18B. Chrysene (218-01-9)				<0.01	<0.52					1	mg/l	1b/day		1	
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.52					1	mg/l	1b/day		1	
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<0.52					1	mg/l	1b/day		1	
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<0.52					1	mg/l	1b/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (108-46-7)				<0.01	<0.52					1	mg/l	1b/day		1	
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<1.033					1	mg/l	1b/day		1	
24B. Diethyl Phthalate (84-66-2)				<0.01	<0.52					1	mg/l	1b/day		1	
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.52					1	mg/l	1b/day		1	
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.52					1	mg/l	1b/day		1	
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<1.033					1	mg/l	1b/day		1	
28B. 2,6-Dinitrotoluene (606-20-2)				<0.02	<1.033					1	mg/l	1b/day		1	
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.52					1	mg/l	1b/day		1	
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<0.52					1	mg/l	1b/day		1	
31B. Fluoranthene (206-44-0)				<0.01	<0.52					1	mg/l	1b/day		1	
32B. Fluorene (86-73-7)				<0.01	<0.52					1	mg/l	1b/day		1	
33B. Hexachlorobenzene (118-74-1)				<0.01	<0.52					1	mg/l	1b/day		1	
34B. Hexachlorobutadiene (87-68-3)				<0.01	<0.52					1	mg/l	1b/day		1	
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<0.52					1	mg/l	1b/day		1	
36B Hexachloroethane (87-72-1)				<0.01	<0.52					1	mg/l	1b/day		1	
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<0.52					1	mg/l	1b/day		1	
38B. Isophorone (78-59-1)				<0.01	<0.52					1	mg/l	1b/day		1	
39B. Naphthalene (91-20-3)				<0.01	<0.52					1	mg/l	1b/day		1	
40B. Nitrobenzene (98-95-3)				<0.01	<0.52					1	mg/l	1b/day		1	
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<0.52					1	mg/l	1b/day		1	
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<0.52					1	mg/l	1b/day		1	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-8)				<0.01	<0.52					1	mg/l	1b/day			1
44B. Phenanthrene (85-01-8)				<0.01	<0.52					1	mg/l	1b/day			1
45B. Pyrene (129-00-0)				<0.01	<0.52					1	mg/l	1b/day			1
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.52					1	mg/l	1b/day			1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	13

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.052					1	mg/l	lb/day			1
19P. PCB-1254 (11097-69-1)				<0.001	<0.052					1	mg/l	lb/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.052					1	mg/l	lb/day			1
21P. PCB-1232 (11141-16-5)				<0.001	<0.052					1	mg/l	lb/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.052					1	mg/l	lb/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.052					1	mg/l	lb/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.052					1	mg/l	lb/day			1
25P. Toxaphene (8001-35-2)			X												1

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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<b>V. INTAKE AND EFFLUENT CHARACTERISTICS</b> (continued from page 3 of Form 2-C)	<b>OUTFALL NO.</b> 14
-----------------------------------------------------------------------------------	--------------------------

**PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	<9	<465					1	mg/l	lb/d			1
b. Chemical Oxygen Demand (COD)	82	4235					1	mg/l	lb/d			1
c. Total Organic Carbon (TOC)	5.7	294.4					1	mg/l	lb/d			1
d. Total Suspended Solids (TSS)	27	1394.3					1	mg/l	lb/d			1
e. Ammonia (as N)	0.19	9.8					1	mg/l	lb/d			1
f. Flow	VALUE 4300		VALUE		VALUE		1	gpm		VALUE		1
g. Temperature (winter)	VALUE 21.49		VALUE		VALUE		1	°C		VALUE		1
h. Temperature (summer)	VALUE 32.75		VALUE		VALUE		1	°C		VALUE		1
i. pH	MINIMUM 9.72	MAXIMUM 9.72	MINIMUM	MAXIMUM			1	STANDARD UNITS				

**PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.**

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24958-67-9)			<1.0	<52					1	mg/l	lb/d			1
b. Chlorine, Total Residual			0.2						1	mg/l				1
c. Color			100						1	PCU				1
d. Fecal Coliform			<4.0						1	col/100				1
e. Fluoride (16984-48-8)			0.39	20.1					1	mg/l	lb/d			1
f. Nitrate-Nitrite (as N)			0.60	31					1	mg/l	lb/d			1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)			<0.40	<21					1	mg/l	1b/d			1
h. Oil and Grease			<5.7	<294.4					1	mg/l	1b/d			1
i. Phosphorus (as P), Total (7723-14-0)			<0.2	<10.33					1	mg/l	1b/d			1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)			47	2427					1	mg/l	1b/d			1
l. Sulfide (as S)			<0.2	<10.33					1	mg/l	1b/d			1
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)			3.84	198.3					1	mg/l	1b/d			1
n. Surfactants			0.56	29					1	mg/l	1b/d			1
o. Aluminum, Total (7429-90-5)			0.759	39.2					1	mg/l	1b/d			1
p. Barium, Total (7440-39-3)			0.0989	5.1					1	mg/l	1b/d			1
q. Boron, Total (7440-42-8)			0.132	6.8					1	mg/l	1b/d			1
r. Cobalt, Total (7440-48-4)			<0.04	<2.1					1	mg/l	1b/d			1
s. Iron, Total (7439-89-8)			0.408	21.1					1	mg/l	1b/d			1
t. Magnesium, Total (7439-95-4)			3.54	182.8					1	mg/l	1b/d			1
u. Molybdenum, Total (7439-98-7)			<0.04	<2.1					1	mg/l	1b/d			1
v. Manganese, Total (7439-96-5)			0.142	7.3					1	mg/l	1b/d			1
w. Tin, Total (7440-31-5)			<0.02	<1.04					1	mg/l	1b/d			1
x. Titanium, Total (7440-32-6)			0.0317	1.64					1	mg/l	1b/d			1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	14

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)				<0.005	<0.26					1	mg/l	1b/day			1
2M. Arsenic, Total (7440-38-2)				<0.005	<0.26					1	mg/l	1b/day			1
3M. Beryllium, Total (7440-41-7)				<0.001	<0.052					1	mg/l	1b/day			1
4M. Cadmium, Total (7440-43-9)				<0.0007	<0.036					1	mg/l	1b/day			1
5M. Chromium, Total (7440-47-3)				<0.005	<0.26					1	mg/l	1b/day			1
6M. Copper, Total (7440-50-8)				0.0682	3.52					1	mg/l	1b/day			1
7M. Lead, Total (7439-92-1)				<0.001	<0.052					1	mg/l	1b/day			1
8M. Mercury, Total (7439-97-6)				0.00219	0.113					1	ug/l	1b/day			1
9M. Nickel, Total (7440-02-0)				0.0063	0.33					1	mg/l	1b/day			1
10M. Selenium, Total (7782-49-2)				<0.005	<0.26					1	mg/l	1b/day			1
11M. Silver, Total (7440-22-4)				<0.005	<0.26					1	mg/l	1b/day			1
12M. Thallium, Total (7440-28-0)				<0.001	<0.052					1	mg/l	1b/day			1
13M. Zinc, Total (7440-66-6)				0.0112	0.58					1	mg/l	1b/day			1
14M. Cyanide, Total (57-12-5)				<0.02	<1.1					1	mg/l	1b/day			1
15M. Phenols, Total				<0.05	<2.6					1	mg/l	1b/day			1
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)				<0.05	<2.6					1	mg/l	lb/day			1
2V. Acrylonitrile (107-13-1)				<0.05	<2.6					1	mg/l	lb/day			1
3V. Benzene (71-43-2)				<0.002	<0.11					1	mg/l	lb/day			1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*											
5V. Bromoform (75-25-2)				<0.01	<0.52					1	mg/l	lb/day			1
6V. Carbon Tetrachloride (56-23-5)				<0.002	<0.11					1	mg/l	lb/day			1
7V. Chlorobenzene (108-90-7)				<0.01	<0.52					1	mg/l	lb/day			1
8V. Chlorodibromomethane (124-48-1)				<0.01	<0.52					1	mg/l	lb/day			1
9V. Chloroethane (75-00-3)				<0.005	<0.26					1	mg/l	lb/day			1
10V. 2-Chloroethylvinyl Ether (110-75-8)				<0.01	<0.52					1	mg/l	lb/day			1
11V. Chloroform (67-66-3)				<0.002	<0.11					1	mg/l	lb/day			1
12V. Dichlorobromomethane (75-27-4)				<0.01	<0.52					1	mg/l	lb/day			1
13V. Dichlorodifluoromethane (75-71-8)				<0.01	<0.52					1	mg/l	lb/day			1
14V. 1,1-Dichloroethane (75-34-3)				<0.002	<0.11					1	mg/l	lb/day			1
15V. 1,2-Dichloroethane (107-06-2)				<0.002	<0.11					1	mg/l	lb/day			1
16V. 1,1-Dichloroethylene (75-35-4)				<0.002	<0.11					1	mg/l	lb/day			1
17V. 1,2-Dichloropropane (78-87-5)				<0.002	<0.11					1	mg/l	lb/day			1
18V. 1,3-Dichloropropylene (542-75-6)				<0.002	<0.11					1	mg/l	lb/day			1
19V. Ethylbenzene (100-41-4)				<0.002	<0.11					1	mg/l	lb/day			1
20V. Methyl Bromide (74-83-9)				<0.01	<0.52					1	mg/l	lb/day			1
21V. Methyl Chloride (74-87-3)				<0.01	<0.52					1	mg/l	lb/day			1

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\* Analytical Method Unavailable

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)				<0.01	<0.52					1	mg/l	1b/day			1
23V. 1,1,2,2-Tetrachloroethane (78-34-5)				<0.002	<0.11					1	mg/l	1b/day			1
24V. Tetrachloroethylene (127-18-4)				<0.002	<0.11					1	mg/l	1b/day			1
25V. Toluene (108-88-3)				<0.002	<0.11					1	mg/l	1b/day			1
26V. 1,2-Trans-Dichloroethylene (156-60-5)				<0.002	<0.11					1	mg/l	1b/day			1
27V. 1,1,1-Trichloroethane (71-55-8)				<0.002	<0.11					1	mg/l	1b/day			1
28V. 1,1,2-Trichloroethane (79-00-5)				<0.002	<0.11					1	mg/l	1b/day			1
29V. Trichloroethylene (79-01-6)				<0.002	<0.11					1	mg/l	1b/day			1
30V. Trichlorofluoromethane (75-69-4)				<0.01	<0.52					1	mg/l	1b/day			1
31V. Vinyl Chloride (75-01-4)				<0.01	<0.52					1	mg/l	1b/day			1
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)				<0.01	<0.52					1	mg/l	1b/day			1
2A. 2,4-Dichlorophenol (120-83-2)				<0.01	<0.52					1	mg/l	1b/day			1
3A. 2,4-Dimethylphenol (105-67-9)				<0.01	<0.52					1	mg/l	1b/day			1
4A. 4,6-Dinitro-O-Cresol (534-52-1)				<0.05	<2.6					1	mg/l	1b/day			1
5A. 2,4-Dinitrophenol (51-28-5)				<0.05	<2.6					1	mg/l	1b/day			1
6A. 2-Nitrophenol (88-75-5)				<0.05	<2.6					1	mg/l	1b/day			1
7A. 4-Nitrophenol (100-02-7)				<0.05	<2.6					1	mg/l	1b/day			1
8A. P-Chloro-M-Cresol (59-50-7)				<0.01	<0.52					1	mg/l	1b/day			1
9A. Pentachlorophenol (87-86-5)				<0.02	<1.04					1	mg/l	1b/day			1
10A. Phenol (108-95-2)				<0.01	<0.52					1	mg/l	1b/day			1
11A. 2,4,6-Trichlorophenol (88-05-2)				<0.01	<0.52					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS			5. INTAKE <i>(optional)</i>		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)				<0.01	<0.52					1	mg/l	1b/day			1
2B. Acenaphthylene (208-96-8)				<0.01	<0.52					1	mg/l	1b/day			1
3B. Anthracene (120-12-7)				<0.01	<0.52					1	mg/l	1b/day			1
4B. Benzidine (92-87-5)				<0.08	<4.14					1	mg/l	1b/day			1
5B. Benzo (a) Anthracene (56-55-3)				<0.01	<0.52					1	mg/l	1b/day			1
6B. Benzo (a) Pyrene (50-32-8)				<0.01	<0.52					1	mg/l	1b/day			1
7B. 3,4-Benzo-fluoranthene (205-99-2)				<0.01	<0.52					1	mg/l	1b/day			1
8B. Benzo (ghi) Perylene (191-24-2)				<0.01	<0.52					1	mg/l	1b/day			1
9B. Benzo (h) Fluoranthene (207-08-9)				<0.01	<0.52					1	mg/l	1b/day			1
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)				<0.01	<0.52					1	mg/l	1b/day			1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)				<0.01	<0.52					1	mg/l	1b/day			1
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)				<0.01	<0.52					1	mg/l	1b/day			1
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)				<0.01	<0.52					1	mg/l	1b/day			1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)				<0.01	<0.52					1	mg/l	1b/day			1
15B. Butyl Benzyl Phthalate (85-88-7)				<0.01	<0.52					1	mg/l	1b/day			1
16B. 2-Chloro-naphthalene (91-58-7)				<0.01	<0.52					1	mg/l	1b/day			1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)				<0.01	<0.52					1	mg/l	1b/day			1
18B. Chrysene (218-01-9)				<0.01	<0.52					1	mg/l	1b/day			1
19B. Dibenzo (a,h) Anthracene (53-70-3)				<0.01	<0.52					1	mg/l	1b/day			1
20B. 1,2-Dichloro-benzene (95-50-1)				<0.01	<0.52					1	mg/l	1b/day			1
21B. 1,3-Di-chloro-benzene (541-73-1)				<0.01	<0.52					1	mg/l	1b/day			1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (108-46-7)				<0.01	<0.52					1	mg/l	1b/day		1	
23B. 3,3-Dichlorobenzidine (91-94-1)				<0.02	<1.04					1	mg/l	1b/day		1	
24B. Diethyl Phthalate (84-66-2)				<0.01	<0.52					1	mg/l	1b/day		1	
25B. Dimethyl Phthalate (131-11-3)				<0.01	<0.52					1	mg/l	1b/day		1	
26B. Di-N-Butyl Phthalate (84-74-2)				<0.01	<0.52					1	mg/l	1b/day		1	
27B. 2,4-Dinitrotoluene (121-14-2)				<0.02	<1.04					1	mg/l	1b/day		1	
28B. 2,6-Dinitrotoluene (606-20-2)				<0.02	<1.04					1	mg/l	1b/day		1	
29B. Di-N-Octyl Phthalate (117-84-0)				<0.01	<0.52					1	mg/l	1b/day		1	
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)				<0.01	<0.52					1	mg/l	1b/day		1	
31B. Fluoranthene (206-44-0)				<0.01	<0.52					1	mg/l	1b/day		1	
32B. Fluorene (86-73-7)				<0.01	<0.52					1	mg/l	1b/day		1	
33B. Hexachlorobenzene (118-74-1)				<0.01	<0.52					1	mg/l	1b/day		1	
34B. Hexachlorobutadiene (87-68-3)				<0.01	<0.52					1	mg/l	1b/day		1	
35B. Hexachlorocyclopentadiene (77-47-4)				<0.01	<0.52					1	mg/l	1b/day		1	
36B Hexachloroethane (67-72-1)				<0.01	<0.52					1	mg/l	1b/day		1	
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				<0.01	<0.52					1	mg/l	1b/day		1	
38B. Isophorone (78-59-1)				<0.01	<0.52					1	mg/l	1b/day		1	
39B. Naphthalene (91-20-3)				<0.01	<0.52					1	mg/l	1b/day		1	
40B. Nitrobenzene (98-95-3)				<0.01	<0.52					1	mg/l	1b/day		1	
41B. N-Nitrosodimethylamine (62-75-9)				<0.01	<0.52					1	mg/l	1b/day		1	
42B. N-Nitrosodi-N-Propylamine (621-64-7)				<0.01	<0.52					1	mg/l	1b/day		1	

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)				<0.01	<0.52					1	mg/l	1b/day		1	
44B. Phenanthrene (85-01-8)				<0.01	<0.52					1	mg/l	1b/day		1	
45B. Pyrene (129-00-0)				<0.01	<0.52					1	mg/l	1b/day		1	
46B. 1,2,4-Trichlorobenzene (120-82-1)				<0.01	<0.52					1	mg/l	1b/day		1	
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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Scherer 2018 Outfall 14

Docket No. 20180007-EI  
 Application for EPD NPDES Permit GA00035564 Renewal for Plant Scherer  
 Exhibit MWS-6, Page 134 of 165

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GAD000612796 (Scherer)	14

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)				<0.001	<0.052					1	mg/l	1b/day			1
19P. PCB-1254 (11097-69-1)				<0.001	<0.052					1	mg/l	1b/day			1
20P. PCB-1221 (11104-28-2)				<0.001	<0.052					1	mg/l	1b/day			1
21P. PCB-1232 (11141-18-5)				<0.001	<0.052					1	mg/l	1b/day			1
22P. PCB-1248 (12672-29-6)				<0.001	<0.052					1	mg/l	1b/day			1
23P. PCB-1260 (11096-82-5)				<0.001	<0.052					1	mg/l	1b/day			1
24P. PCB-1016 (12674-11-2)				<0.001	<0.052					1	mg/l	1b/day			1
25P. Toxaphene (8001-35-2)			X												1

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## NPDES Industrial Permit Application Addendum

Please check the applicable box and enter the associated information:

New discharger                                      Name of facility:

Existing NPDES discharger                      Name of facility: Plant Scherer                                      Existing NPDES Permit No.:  
 GA0035564

### SECTION I. CONTACT & FACILITY INFORMATION

Permit Application Contact Name (first & last): Jean Brown	
Title: Environmental Specialist	
E-mail Address: jeabrown@southernco.com	
Total Design Flow (MGD): 172 (DIF)	Actual Design Flow (MGD):
Facility Latitude/Longitude (ex. 34.5364, -84.8045): 33.06 -83.807	EPA Major (circle one): yes or <b>no</b>
Primary Industry (circle one): <b>yes</b> or no	NAICS Codes: 221112

### SECTION II. EFFLUENT LIMITS AND CONDITIONS

1. Is there an effluent limit, standard, guideline, or categorical pretreatment standard established for this type of discharge in 40 CFR Part 400-471, as amended or elsewhere pursuant to 301, 306, 307, 316, 318, or 405 of the Clean Water Act?

Yes                       No

If you answered "yes", to question No. 1 above, please complete the following table below by providing the name of the discharge category and the specific citation to the regulation, if applicable, that establishes the limitation or condition.

If you answered "no" to question No. 1 above, please proceed to Section No. III.

**Section II, Table No. 1**

Name of Discharge Category and Appropriate Citation From State of Federal Regulations.	Effluent Limitation or Condition: (Yes or No)	Name of Subpart and Appropriate Subpart Citation
<i>Example:</i>		
<i>Iron and Steel Manufacturing; 40 CFR Part 420</i>	<i>Yes</i>	<i>Acid Pickling; 40 CFR part 420 subpart I</i>
Steam Electric Power Generating Point Source Category	Yes	40 CFR Part 423

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2. Are any of the applicable effluent limitations applicable to the discharge(s) expressed in terms of production?

Yes       No

If you answered "yes", complete the following table below. For an existing discharge, list an actual measurement of your average or maximum level of daily production. For new discharges, list an average or maximum projected daily production. (indicate in the table whether the production figures given are average or maximum level.) Express the production in terms and units used in the applicable discharge limitation. Attach additional sheets if necessary.

If you answered "no" to question No. 2 above, please proceed to Section III.

**Section II, Table No. 2 – Applicable Effluent Limit Guidelines**

Name of Category and Subpart	Name and Quantity of Product per Day with Units of Measure	Description of Process	No. of Cycles through Process
<i>Example:</i> 40CFR Part 420 Subpart I. Iron and Steel Manufacturing; Hydrochloric Acid Pickling	27,000 lbs of stainless steel strips (average)	Stainless steel strips are passed through solder flux baths in #1 Tinner	2

**SECTION III. WATER QUALITY**

1. Name of Georgia major river basin(s) in which your discharge(s) enters: Ocmulgee

2. Do you discharge to 305(b)/303(d) Listed Waters\*?

Yes       No

If you answered "yes" to question No.2 above, please complete the Table No. 1 below.

If you answered "no" to question No. 2 above, please proceed to Section IV.

\* Georgia's 305(b)/303(d) list can be found on EPD's website at the following web address:  
<http://epd.georgia.gov/georgia-305b303d-list-documents>

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**Section III, Table No. 1 – Applicable Water Quality**

Outfall Identification ID	Name of Receiving Waters	Is The Receiving Water: 1) Supporting The Designated Use; 2) Not Supporting The Designated Use; or 3) Assessment Pending.	If The Receiving Water(s) Is Not Supporting The Designated Uses, What Is It Listed For?
<i>Example: 001</i>	<i>Oconee River</i>	<i>2</i>	<i>Sedimentation and Mercury</i>

3. Is there an applicable Total Maximum Daily Load\* (TMDL) for the receiving waters?

Yes       No

If you answered "yes" to question No. 3 above, complete the following table below. If you answered "no" proceed to Section No. IV.

\* Georgia's list of TMDL's can be found on EPD's website at the following web address:  
<http://epd.georgia.gov/total-maximum-daily-loadings>

**Section III, Table No. 2 – Applicable TMDL**

Outfall Identification	Name of Receiving Water	Is your discharge listed in the TMDL?	Name and Year of TMDL
<i>Example: Outfall 003</i>	<i>Jacks Creek a tributary to Oconee River</i>	<i>yes</i>	<i>Zinc TMDL Report [2002]</i>





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**SECTION V. 40 CFR 122.21(r) COOLING WATER INTAKE STRUCTURES**

**Does the Cooling Water Intake Structure Rule for Existing Facilities Apply?**

*Directions: Answer questions 1 through 4 below for your cooling water intake structure(s) (CWIS). If your answer to any one of these questions is "No", then the requirements of 40 CFR 125.94 through 125.99 do not apply to your facility, and you may proceed to Section No. X. However, the State reserves the right to establish BPJ requirements as allowed in 40 CFR 125.90(b) for facilities.*

*Note: If you are a new facility please contact the GA EPD.*

1. Is the facility a point source that discharges under a NPDES permit to waters of the State?

Yes       No

If you answered "yes" to question No. 1 above, please proceed to question No. 2 below.

2. Is the cooling water intake structure withdrawing cooling water from waters of the State?

Yes       No

If you answered "yes" to question No. 2 above, please proceed to question No. 3 below.

*Note: Obtaining cooling water from a public water system, using reclaimed water from wastewater treatment facilities or desalination plants, or recycling treated process wastewater effluent as cooling water does not constitute use of a cooling water intake structure.*

3. Is the facility-wide design intake flow (DIF) for all cooling water intake structures at the facility greater than 2 MGD?

Yes       No

If you answered "yes" to question No. 3 above, please provide the facility-wide design intake flow (DIF) and actual intake flow (AIF) for all cooling water intake structures in box 3.a.

*Note: Actual Intake Flow means the average volume of water withdrawn on an annual basis by the cooling water intake structures over the past three years*

3.a.

DIF = 172  
(mgd)

AIF = 52.9  
(mgd)

4. Does the facility have an intake structure that withdraws more than 25 percent of the water for cooling purposes on an actual intake flow basis?

Yes       No

If you answered "yes" to question No. 4 above, please provide the AIF percentage used exclusively for cooling purposes in box 4.a.

4.a.

AIF = 87\_%

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## Additional Information for Facilities to which the CWIS Rule applies

Section VI of this addendum lists the application requirements for all facilities for which the CWIS rule applies. The bullets below provide additional directions for which of following Sections VII, VIII and/or IX may also apply

- If you answered "yes" to question nos. 1, 2, 3 and 4 **and** you have an existing unit at an existing facility; the Impingement Mortality Best Technology Available (BTA) Standard, Section No. VII, applies to your facility.
- If you answered "yes" to question nos. 1, 2, 3 and 4 **and** your facility has a new unit at an existing facility; the Impingement Mortality BTA Standard, Section No. VIII, applies to you.
- If you answered "yes" to question nos. 1, 2, 3 and 4 **and** your facility withdraws greater than 125 MGD on an actual intake flow basis then the Entrainment BTA Standard, Section IX also applies to your facility.

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## What is the timing of the submission of information required in permit application under the 316(b) Rule? *(December 2014 EPA MEMO)*

If your permit expires prior to July 14, 2018, under 40 CFR Part 125.95(a)(2), a facility may request that the Director establish an alternative schedule for submission of some of the permit application information in 40 CFR Part 122.21(r), based on a showing of the owner or operator of the facility that it could not develop the information for which an alternative schedule is requested by the time required for the submission of the permit renewal application.

*Please check the applicable box(s).*

- I request the Director provide an alternative schedule for the submission of some of the permit application information in 40 CFR Part 122.21(r).
- I request the Director provide an alternative schedule for the submission of the following permit application requirements in 40 CFR Part 122.21(r).
- (2) Source water physical data
  - (3) Cooling water intake structure data
  - (4) Source water baseline biological characterization data
  - (5) Cooling water system data
  - (6) Chosen Method(s) of Compliance with Impingement Mortality Standard
  - (7) Entrainment Performance Studies
  - (8) Operational Status
  - (9) Entrainment Characterization Study
  - (10) Comprehensive Technical Feasibility and Cost Evaluation Study
  - (11) Benefits Valuation Study
  - (12) Non-water Quality Environmental and Other Impacts Study
  - (13) Peer Review
  - (H) All facilities must also submit with their permit application all information received as a result of any communication with a Field Office of the Fish and Wildlife Service and/or Regional Office of the National Marine Fisheries Service.
- I do not request an alternative schedule for the submission of some of the permit application information in 40 CFR Part 122.21(r). I have included the applicable permit application information required in 40 CFR Part 122.21(r).

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## SECTION VI. APPLICATION REQUIREMENTS FOR ALL EXISTING FACILITIES

1. If you are an existing facility, then you are required to submit the following information in accordance with §122.21(r)(1)(ii)(A), as applicable, with your permit application.

*Please check the box next to the required information which you are submitting with this application.*

- (2) Source water physical data
- (3) Cooling water intake structure data
- (4) If applicable, Source water baseline biological characterization data
- (5) If applicable, Cooling water system data
- (6) If applicable, Chosen Method(s) of Compliance with Impingement Mortality Standard
- (7) If applicable, Entrainment Performance Studies
- (8) If applicable, Operational Status
- (H) All facilities must also submit with their permit application all information received as a result of any communication with a Field Office of the Fish and Wildlife Service and/or Regional Office of the National Marine Fisheries Service.

2. If you are an existing facility that withdraws greater than 125 mgd actual intake flow (AIF), as defined at 40 CFR 125.92 (a), of water for cooling purposes, then you are required to submit the following information in accordance with §122.21(r)(1)(ii)(B).

*Please check the box next to the required information which you are submitting with this application.*

- (2) Source water physical data
- (3) Cooling water intake structure data
- (9) Entrainment Characterization Study
- (10) Comprehensive Technical Feasibility and Cost Evaluation Study
- (11) Benefits Valuation Study
- (12) Non-water Quality Environmental and Other Impacts Study
- (13) Peer Review
- (H) All facilities must also submit with their permit application all information received as a result of any communication with a Field Office of the Fish and Wildlife Service and/or Regional Office of the National Marine Fisheries Service.

*Note: If the owner or operator of an existing facility intends to comply with the BTA (best technology available) standards for entrainment using a closed-cycle recirculating system as defined at 40 CFR 125.92(c), the Director may reduce or waive some or all of the information required under paragraphs (r)(9) through (13) of this section. If you intend to comply with BTA standards for entrainment using closed cycle recirculating systems as referenced above, please contact EPD.*

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3. If you are a new unit at an existing facility, as defined at 40 CFR 125.92(u), you must submit or update the following information in accordance with §122.21(r)(1)(ii)(D).

*Please check the box next to the required information which you are submitting with this application.*

- (4) If applicable, Source water baseline biological characterization data
- (5) Cooling water system data
- (6) If applicable, Chosen Method(s) of Compliance with Impingement Mortality Standard
- (7) If applicable, Entrainment Performance Studies
- (8) Operational Status
- (H) All facilities must also submit with their permit application all information received as a result of any communication with a Field Office of the Fish and Wildlife Service and/or Regional Office of the National Marine Fisheries Service.

4. If you are a new unit at an existing facility, as defined at 40 CFR 125.92(u), not previously subject to part 125 that increases the total capacity of the existing facility to more than 2 mgd DIF, you must submit the following information in accordance with §122.21(r)(1)(ii)(E).

*Please check the box next to the required information which you are submitting with this application.*

- (4) If applicable, Source water baseline biological characterization data
- (5) Cooling water system data
- (6) If applicable, Chosen Method(s) of Compliance with Impingement Mortality Standard
- (7) If applicable, Entrainment Performance Studies
- (8) Operational Status
- (9) If total capacity increases to more than 125 mgd, Entrainment Characterization Study
- (10) If total capacity increases to more than 125 mgd, Comprehensive Technical Feasibility and Cost Evaluation Study
- (11) If total capacity increases to more than 125 mgd, Benefits Valuation Study
- (12) If total capacity increases to more than 125 mgd, Non-water Quality Environmental and Other Impacts Study
- (13) Peer Review
- (H) All facilities must also submit with their permit application all information received as a result of any communication with a Field Office of the Fish and Wildlife Service and/or Regional Office of the National Marine Fisheries Service.

*Note: If the owner or operator of an existing facility intends to comply with the BTA (best technology available) standards for entrainment using a closed-cycle recirculating system as defined at 40 CFR 125.92(c), the Director may reduce or waive some or all of the information required under paragraphs (r)(9) through (13) of this section. If you intend to comply with BTA standards for entrainment using closed cycle recirculating systems as referenced above, please contact EPD.*

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### SECTION VII. BTA STANDARD FOR IMPINGEMENT MORTALITY FOR EXISTING UNITS AT EXISTING FACILITIES

The final rule requires that existing facilities subject to this rule must comply with one of the following seven alternatives listed below identified in the national BTA standard for impingement mortality at § 125.94(c) (hereafter, impingement mortality standards).

*Note: Please check the box under the applicable impingement mortality standard in which your facility currently has in operation or intends to install to comply with the referenced standard. Please also provide the appropriate documentation for the chosen alternative and attach it your application.*

1. Operate a closed-cycle recirculating system as defined at § 125.92;

- Currently in operation                       Request a compliance schedule

2. Operate a cooling water intake structure that has a maximum through screen design intake velocity of 0.5 fps or less;

- Currently in operation                       Request a compliance schedule

3. Operate a cooling water intake structure that has a maximum through screen intake velocity of 0.5 fps;

*a) In the case of Option (3), which EPA considers to be a streamlined alternative, the facility must submit information to the Director that demonstrates that the maximum intake velocity as water passes through the structural components of a screen measured perpendicular to the screen mesh does not exceed 0.5 feet per second.*

- Currently in operation                       Request a compliance schedule

4. Operate an offshore velocity cap as defined at § 125.92 that is installed before October 14, 2014;

- Currently in operation                       Request a compliance schedule

5. Operate a modified traveling screen that the Director determines meets the definition at § 125.92(s) and that the Director determines is the best technology available for impingement reduction;

*a) In the case of Option (5), the facility must submit a site-specific impingement technology performance optimization study that must include two years of biological sampling demonstrating that the operation of the modified traveling screens has been optimized to minimize impingement mortality. As discussed below, if the facility does not already have this technology installed and chooses this option, the Director may postpone this study till the screens are installed (see VI.G.1.d below).*

- Currently in operation                       Request a compliance schedule

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6. Operate any other combination of technologies, management practices and operational measures that the Director determines is the best technology available for impingement reduction; or

*(a) In the case of Option (6), the facility must submit a site-specific impingement study including two years of biological data collection demonstrating that the operation of the system of technologies, operational measures and best management practices has been optimized to minimize impingement mortality. If this demonstration relies in part on a credit for reductions in the rate of impingement already achieved by measures taken at the facility, an estimate of those reductions and any relevant supporting documentation must be submitted. The estimated reductions in rate of impingement must be based on a comparison of the system to a once-through cooling system with a traveling screen whose point of withdrawal from the surface water source is located at the shoreline of the source waterbody.*

- Currently in operation  Request a compliance schedule

7. Achieve the specified impingement mortality performance standard.

*(a) The impingement mortality performance standard in (7) requires that a facility must achieve a 12-month impingement mortality performance of all life stages of fish and shellfish of no more than 24 percent mortality, including latent mortality, for all non-fragile species that are collected or retained in a sieve with maximum opening dimension of 0.56 inches and kept for holding period of 18 to 96 hours. The Director may, however, prescribe an alternative holding period.*

*The 12-month average of impingement mortality is calculated as the sum of total impingement mortality for the previous 12 months divided by the sum of total impingement for the previous 12 months. A facility must choose to demonstrate compliance with this requirement for the entire facility, or for each individual cooling water intake structure. Biological monitoring must be completed at a minimum frequency of monthly.*

- Currently in operation  Request a compliance schedule

**SECTION VIII. BTA STANDARDS FOR IMPINGEMENT MORTALITY AND ENTRAINMENT FOR NEW UNITS AT EXISTING FACILITIES**

The owner or operator of a new unit at an existing facility must achieve one of two compliance alternatives under the national BTA standards for impingement mortality and entrainment for new units at existing facilities at § 125.94(e) (hereafter, new unit standards).

- Option No. 1

*You must reduce AIF at the new unit, at a minimum, to a level commensurate with that which can be attained by the use of a closed-cycle recirculating system as defined at § 125.92(c)(1).*

- Option No. 2

*You must demonstrate to the Director that it has installed and will operate and maintain, technological or other control measures that reduce the level of adverse environmental impact from any cooling water intake structure used to supply cooling water to the new unit to a comparable level to that which would be achieved through flow reductions commensurate with the use of a closed-cycle recirculating system. Under this alternative, the owner or operator of a facility must demonstrate entrainment mortality reductions that are equivalent to 90 percent or greater of the reduction that could be achieved through compliance with the first alternative entrainment standard for new units.*

**SECTION IX. ENTRAINMENT BTA**



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The Director must establish the Entrainment BTA requirement for your facility on a site-specific basis in accordance with § 125.98(f)(2).

If you withdraw greater than 125 mgd AIF, you must develop and submit an Entrainment Characterization Study (§ 122.21(r)(9)), as well as provide other information required in § 122.21(r)(7) and (10), (11), (12) and (13) that must include specified data pertinent to consideration of several of the factors identified in § 125.98(f).

Please include your Entrainment Characterization Study as well as the other required information referenced above with your application.

### SECTION X. CERTIFICATION

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

Print Name: Mark Berry, Vice President - Georgia Power Environmental & Natural Resources

Date:

Signature of Applicant:

01/29/18

**Plant Scherer, NPDES Permit No. GA0035564**  
**Permit Renewal Application January 2018**  
**316(b) Cooling Water Intake Structure (CWIS) Information**

Plant Scherer employs a closed cycle cooling system for all four steam electric generating units. As such, it conforms to the Best Technology Available for both entrainment and impingement as described in the October 14, 2014 final 316(b) rule. The information provided below covers source water physical data, cooling water intake structure data, cooling water system data, and facility operational status as prescribed in 40 CFR 122.21(r)(2), (3), (5), and (8) respectively. A segment of the USGS 7.5 minute topographical map showing the location of Plant Scherer and the location of the intake structure is provided as Attachment A.

**Source Water Physical Data. 40 CFR 122.21(r)(2)**

Plant Scherer withdraws cooling water from an impoundment of Rum Creek, which is a tributary of the Ocmulgee River with a watershed area of approximately 37 square miles. The impoundment, which is a Water of the United States, is known as Lake Juliette and provides storage for at least six months of full plant operation without supplemental pumping from the Ocmulgee River. Pumping from the Ocmulgee River is necessary to supplement inflow from the Rum Creek watershed area, and is limited by the Surface Water Withdrawal Permit during low river flows.

The normal operating level of Lake Juliette is 435' above Mean Sea Level and the bottom of the design storage is 415'. The surface area of Lake Juliette is 3,600 acres and usable storage volume is 53,700 acre-feet. Lake Juliette is located in the Rum Creek Wildlife Management Area (WMA), which is managed by the Georgia Department of Natural Resources. The WMA provides for extensive riparian zones throughout the lake, commonly more than 3000ft. There is no riparian vegetation in the immediate vicinity of the intake structure, although adjacent banks provide for approximately 200ft of riparian buffer.

Lake depths vary significantly, although typical depths of the lake fall between 20-35ft. Maximum depth is observed in the dam pool area and is approximately 70-80ft. Water depths at the intake structure vary depending on the operating level of the dam, but typical depths are approximately 32-35ft.

The elevations of the CWIS are included in the drawings in Attachment B.

Annual temperature regimes of Lake Juliette are a factor of ambient environmental conditions. Ambient lake temperatures are monitored under a seasonal monitoring program. Over the last three years, the maximum summer temperatures were measured between 28.5°C and 30.5°C, with winter minimums being between 7.5°C and 9.5°C. This data indicated that the temperature undergoes typical seasonal fluctuation associated with lakes in this region.

The hydraulic zone of influence has not been evaluated.

**Plant Scherer, NPDES Permit No. GA0035564**  
**Permit Renewal Application January 2018**  
**316(b) Cooling Water Intake Structure (CWIS) Information**

**Cooling water intake structure (CWIS) data. 40 CFR 122.21(r)(3)**

Plant Scherer has four coal-fired steam electric generating units, all utilizing closed cycle cooling systems with natural draft cooling towers. The Lake Juliette intake structure provides make-up water to supply cooling and process water to all four units. Each of six platform mounted pumps draws water through a traveling water screen to pressurize a Service Water System header which supplies the cooling water as well as process water. The common header has a minimum flow return line to Lake Juliette, such that the quantity of water pumped is larger than the quantity delivered to the units.

Design drawings of the structure are enclosed in Attachment B, as well as a water flow diagram as part of the NPDES application.

The structure is located at Latitude 33° 03' 14" and Longitude -83° 48' 22".

**Cooling water system data. 40 CFR 122.21(r)(5)**

The intake is in operation continuously 365 days per year to maintain pressure and supply the demand of any combination and dispatch level of the four units.

87 percent of the intake flow is to provide cooling water to the cooling system on the four units. The design circulating water flow for each unit is 386 mgd, or 1,545 mgd for all four units. The design make-up flow for all four units is 62 mgd. Therefore, the make-up flows drawn through the intake structure are 4% of the cooling system circulating water flow, demonstrating 96% reduction of flow that would be required through the intake if the system were once-through cooling. The systems are designed to operate at approximately 3 cycles of concentration. Additional Cooling Water Intake Structure information is provided in the NPDES Industrial Permit Application Addendum form.

**Facility Operational Status. 40 CFR 122.21(r)(8)**

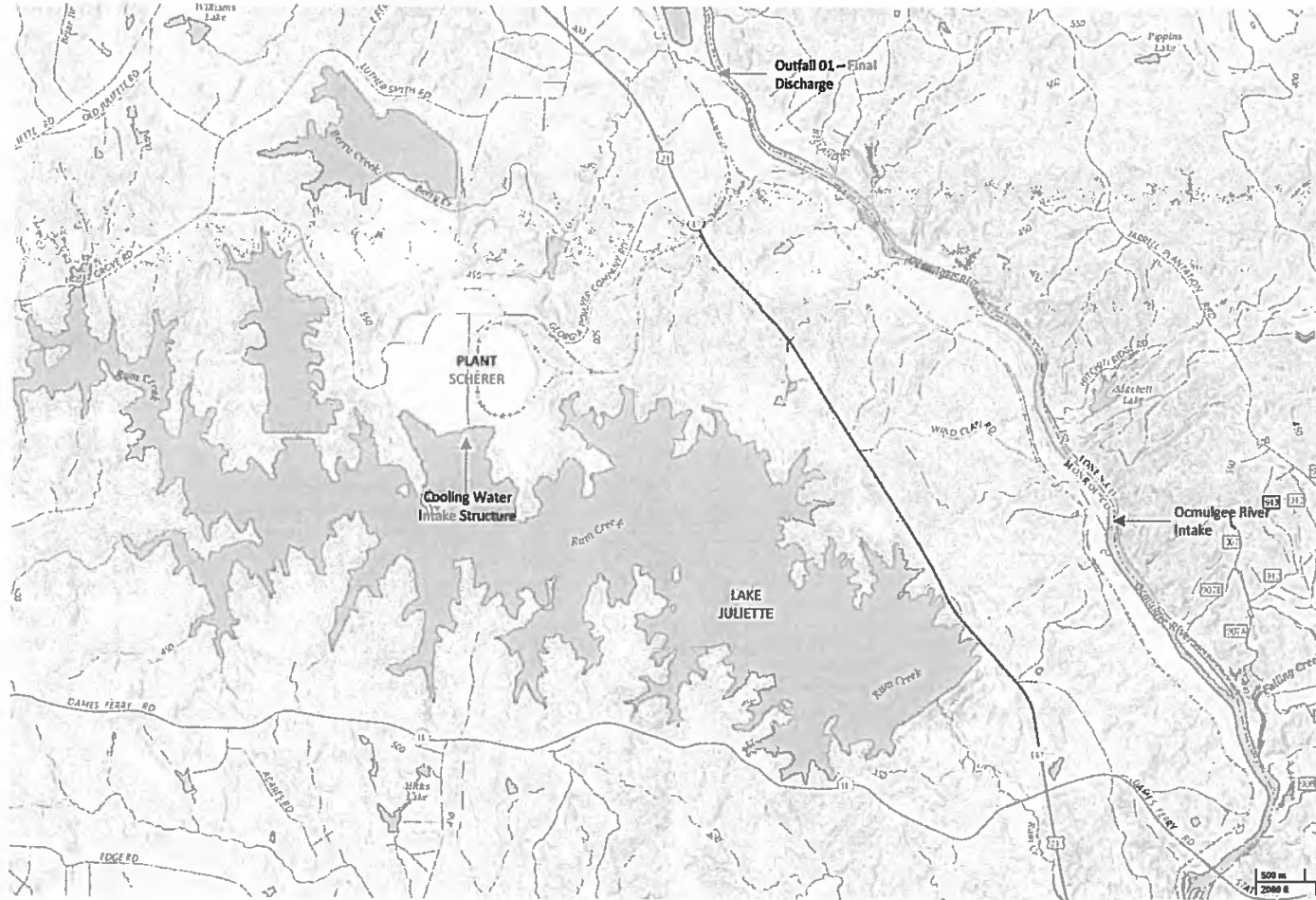
Unit	Nameplate (MW)	Age (years)	Fuel	Capacity Utilization Factor %				
				2012	2013	2014	2015	2016
1	818	35	Subbituminous Coal	68	64	73	52	57
2	818	33	Subbituminous Coal	71	67	62	59	51
3	818	30	Subbituminous Coal	66	56	61	42	53
4	818	28	Subbituminous Coal	66	86	58	77	59

Over the last 15 years the only major upgrades to the system have been condenser tube replacement on Unit 3 (2017) and Unit 4 (2016).

**Plant Scherer, NPDES Permit No. GA0035564**  
**Permit Renewal Application January 2018**  
**316(b) Cooling Water Intake Structure (CWIS) Information**

# Attachment A

### Plant Scherer Intake and Discharge Locations



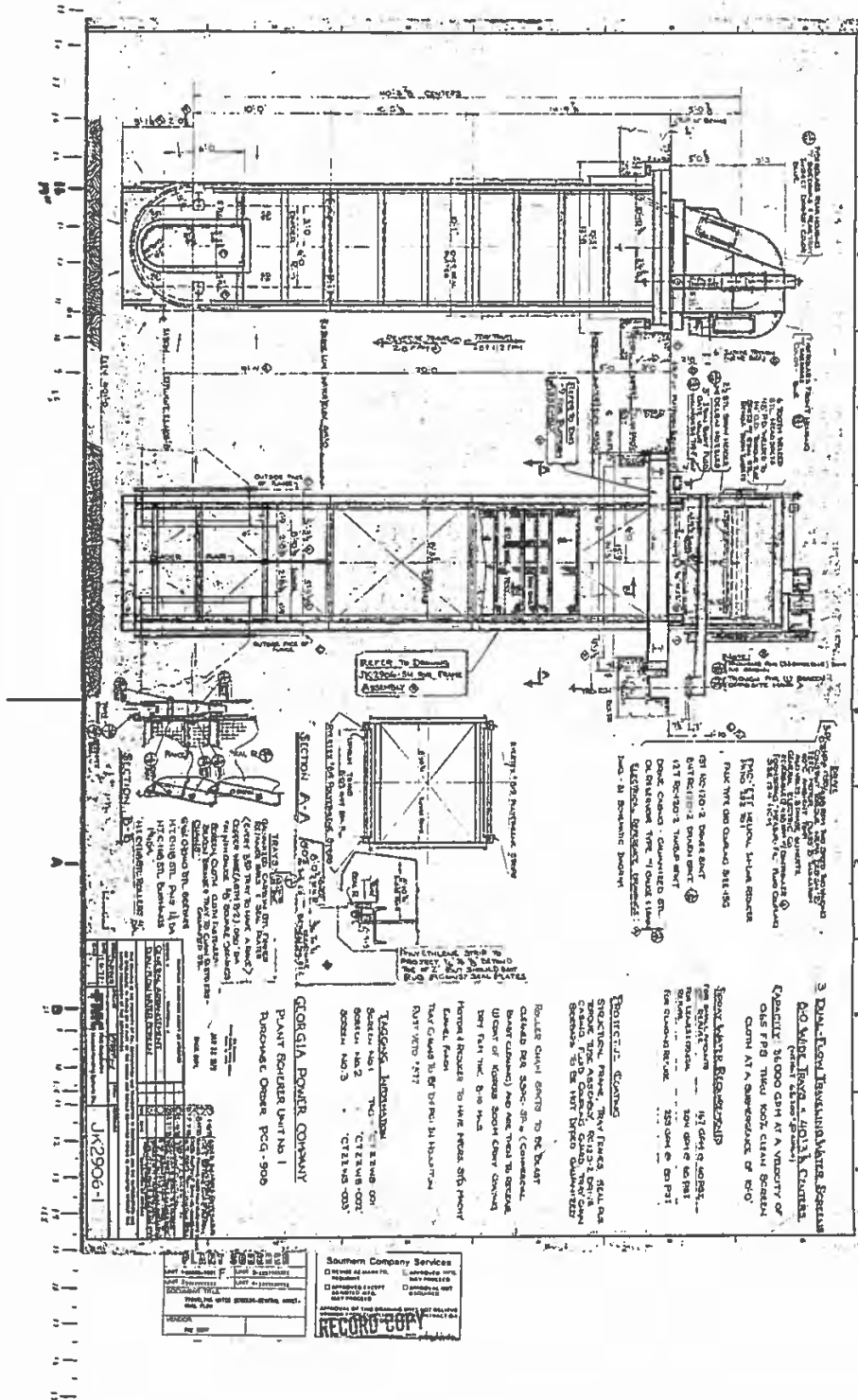
USGS 7.5 Minute - East Juliette Quadrangle



**Plant Scherer Intake and Discharge Locations**

**Plant Scherer, NPDES Permit No. GA0035564**  
**Permit Renewal Application January 2018**  
**316(b) Cooling Water Intake Structure (CWIS) Information**

# Attachment B

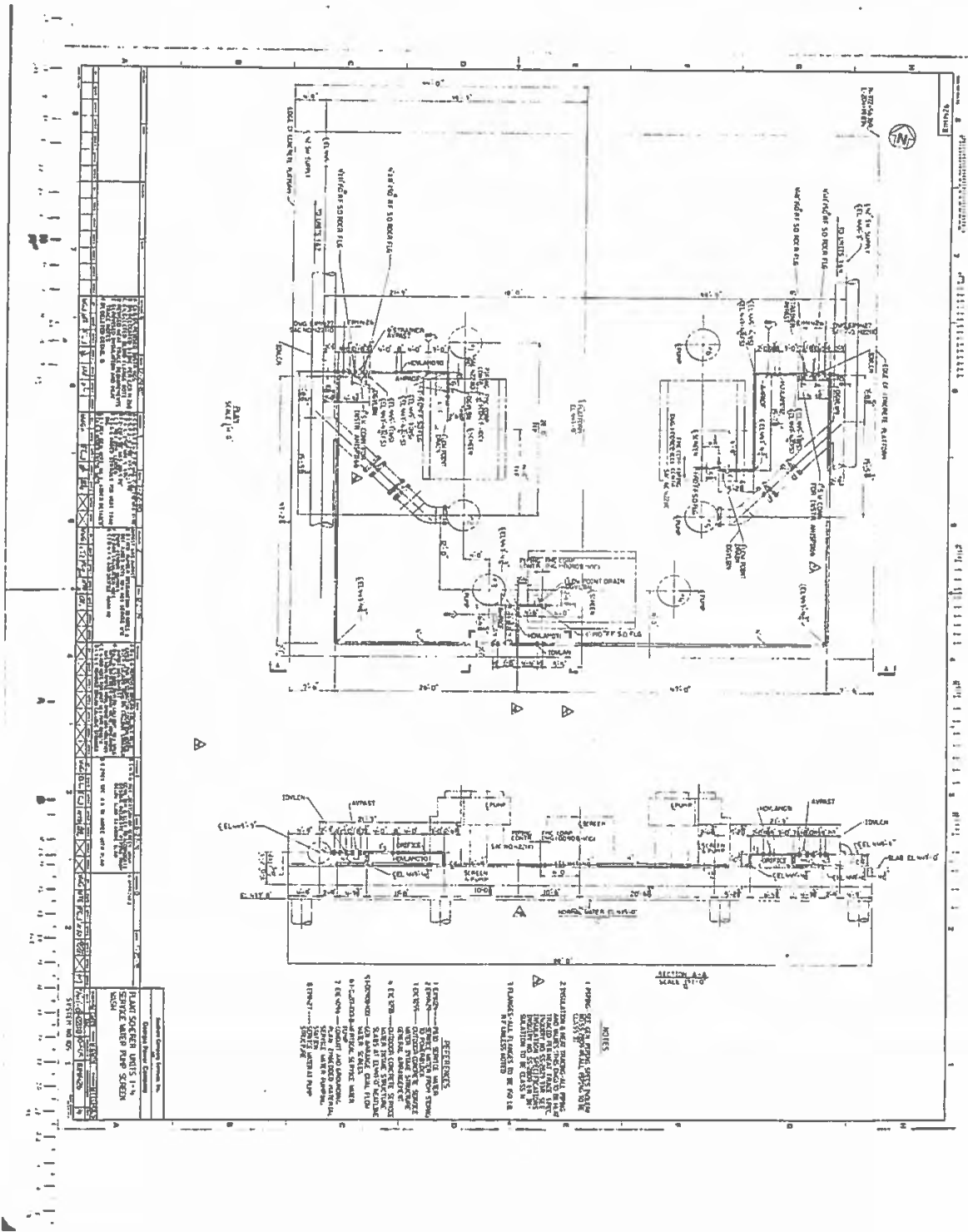












**Plant Scherer Effluent Limitation Guidelines Rule Applicability Timing**  
**NPDES Permit Application 2018**

**Background**

This document details Plant Scherer's plans for addressing the revised Steam Electric Effluent Limitations Guidelines (ELGs), 80 Fed. Reg. 67,838 (Nov. 3, 2015), and the associated applicability dates for various waste streams being implemented in Plant Scherer's NPDES permit. Pursuant to the 2015 ELG rule, compliance with the new Best Available Technology (BAT) limitations in the final rule does not apply until a date determined by the Environmental Protection Division (EPD) that is "as soon as possible" beginning November 1, 2018, but that is also no later than December 31, 2023. However, on September 18, 2017, EPA modified the ELG rule by postponing certain applicability dates, 82 Fed. Reg. 43494 (Postponement Rule). The applicability dates relevant to Plant Scherer are as follows:

Fly Ash Transport Water (FATW)	November 1, 2018 through December 31, 2023
Bottom Ash Transport Water (BATW)	November 1, 2020 through December 31, 2023
FGD Wastewater (FGDW)	November 1, 2020 through December 31, 2023

Georgia Power encourages EPD to consider how best to approach implementation of the ELG rule, in light of the EPA Administrator's actions to postpone the applicability dates for BATW and FGDW. The preamble to the Postponement Rule makes it clear that it is EPA's intention to preserve the regulatory status quo and to avoid any unnecessary expenditures for compliance with limitations for BATW and FGDW, because those limitations may change as a result of further rulemaking. Given the further rulemaking being proposed; the Company requests that the Draft Permit refrain from addressing the applicability dates for BATW and FGDW, or in the alternative include language acknowledging the potential for changes and an associated permit reopener clause.

Based upon the existing rule, the phrase "as soon as possible" means November 1, 2018 for FATW, and November 1, 2020 for BATW and FGDW, unless a later applicability date is established. The "as soon as possible" date can be different for each waste stream. In order for EPD to determine the as soon as possible date within the implementation period, the ELG rule (80 Fed. Reg. at 67,883) identifies the following factors for EPD to consider:

1. Time to expeditiously plan (including to raise capital), design, procure, and install equipment to comply with the requirements of the final rule;
2. Changes being made or planned at the plant in response to greenhouse gas regulations for new or existing fossil fuel-fired power plants under the Clean Air Act, as well as regulations for the disposal of coal combustion residuals under Subtitle D of the Resource Conservation and Recovery Act;
3. For FGD wastewater requirements only, an initial commissioning period to optimize the installed equipment; and
4. Other factors as appropriate.

Section A of this document explains Georgia Power's ELG compliance evaluation. Sections B, C, and D address each of the factors identified by the ELG rule for assessing the "as soon as possible" date (as relevant). And, Section E addresses Georgia Power's proposed applicability timeframes.

#### **A. ELG Compliance Evaluation**

The ELG Rule's preamble (80 Fed. Reg. at 67,883-4) states that regardless of when a plant's NPDES permit is ready for renewal, the plant should immediately begin evaluating how it intends to comply with the requirements of the final ELGs. In cases where significant changes in operation are appropriate, the plant should discuss such changes with the permitting authority and evaluate appropriate steps and a timeline. Georgia Power has done that.

Georgia Power began evaluating how it intends to comply with the requirements of the ELG rule well before the rule's issuance in November 2015 (with effective date in January 2016). The company undergoes an ongoing comprehensive strategy development process involving many organizations within the company, including environmental, regulatory affairs, planning, fuels, engineering, finance, operations, communications, generation, and research groups. This strategy development process involves evaluating proposed and final environmental regulations to determine their impact to the generating fleet, conducting research to evaluate technology options for environmental control, developing compliance costs and schedules for capital environmental control technologies for regulatory compliance, and evaluating the impact of these costs to the company and its customers. In addition, and as explained further below, the Company has begun engineering work at Plant Scherer, which includes initial scoping of projects, design work, and in some cases commencement of construction.

Beginning in 2007, Southern Company Services began a R&D program focused on wastewater treatment technology development and demonstration. Over the last nine years, more than \$20 million has been spent on R&D, including the construction of the Water Research Center (WRC) at Georgia Power's Plant Bowen. The WRC is a state-of-the-art facility focused on water reuse, recycle, conservation, and treatment. To date, over 20 projects have been completed at the WRC in key focus areas, including wastewater treatment, water conservation, and coal combustion residuals management.

#### **B. Plant Scherer needs time to expeditiously plan (including to raise capital), design, procure, and install equipment to comply with the requirements of the final ELG rule**

The magnitude and complexity of process changes and new equipment installations that will be required for Plant Scherer to comply with the ELG rule and multiple other rule requirements is significant. The company must evaluate what operational changes are expected at Plant Scherer to meet the new BAT limitations, including the types of new treatment technologies that the plant needs to install, process changes anticipated, and the timeframe estimated to plan, design, procure, install, and optimize any relevant technologies. Moreover, consideration must be taken for the coordination of planned outages across the Southern Company generating fleet needed to install

new technologies and maintain electricity generation reliability. This all needs to occur in light of the reconsideration of the ELG's and in anticipation of those future regulatory requirements.

As noted above, Georgia Power maintains a robust annual environmental strategy and planning process that includes development of environmental compliance cost estimates for proposed and final regulations. Engineering cost estimates for each technology require constant revision based upon new information, as well as the continued evaluation of site-specific factors, such as the characterization of internal waste streams and their variability due to operational and seasonal changes. Using the engineering estimates, the regulatory interpretation, and the technology options available, cost-benefit analyses must be performed for each option. This analysis compares the costs and benefits of each option and their interplay with other system operating variables such as fuel costs. The analysis also must evaluate the costs and benefits of the most optimum compliance technology option against the option of retirement and replacement of the generation. These analyses include complex simulation models to forecast operating profiles, energy costs, impacts to the Georgia Power system production costs, and other factors for every affected unit using detailed unit-specific characteristics, such as heat rates; minimum and maximum capacity; up and down time; start-up costs; SO<sub>x</sub>, NO<sub>x</sub>, and CO<sub>2</sub> rates; fuel prices; and maintenance schedules. In addition to the operational profile outputs from the simulation models, financial calculations must be performed to evaluate impacts to total revenue requirements considering all incremental capital expenditures, plant O&M costs, transmission impacts, and any other peripheral requirements or costs. Georgia Power performs these economic analyses for each unit under multiple planning scenarios to capture a broad range of uncertainty in natural gas prices and CO<sub>2</sub> pressures.

As described above, many factors continue to be evaluated in order to develop a conceptual design for Plant Scherer. This evaluation is wastestream specific, cannot occur in isolation, and requires a holistic assessment of all the regulatory requirements at Plant Scherer as well as across Georgia Power's generating fleet.

**C. Changes being made or planned at Plant Scherer in response to greenhouse gas regulations for new or existing fossil fuel-fired power plants under the Clean Air Act, as well as regulations for the disposal of coal combustion residuals under Subtitle D of the Resource Conservation and Recovery Act**

It is clear that Plant Scherer is in the midst of an unprecedented period of uncertainty with respect to environmental regulations, such as the Clean Power Plan (CPP), federal Coal Combustions Residuals rule (CCR rule), the Section 316(b) Cooling Water Intake Structure rule (§ 316(b)), and other regulatory obligations. EPA finalized existing source greenhouse gas (GHG) emission guidelines, known as the Clean Power Plan (CPP), on October 23, 2015.

On February 9, 2016, the U.S. Supreme Court granted a stay of the CPP for the duration of the litigation. As a result of the stay, Georgia EPD, like many other states, suspended its work on the CPP for the duration of the litigation.

On March 28, 2017, President Trump signed the Energy Independence Executive Order, which directs agencies to review existing regulations that potentially burden the development of domestic

energy resources and suspend, revise, or rescind them, as appropriate. The Executive Order specifically directs EPA to review and take appropriate action on the CPP. On the same day, the U.S. Department of Justice, on behalf of EPA, filed a motion with the D.C. Circuit Court of Appeals to hold the CPP case in abeyance while EPA reviews the rule, as directed by the Executive Order.

On October 16, 2017, EPA proposed to repeal the CPP. In this proposal, EPA also notes it has not determined if it will issue a replacement rule or what form it will take. EPA stated it would issue an advanced notice of proposed rulemaking (ANPR) to solicit comments on the scope of a potential replacement rule and on December 28, EPA published the ANPR requesting ideas from the public on what a replacement rule for the CPP would look like. After EPA receives public comment on the ANPR, a possible next step would be EPA issuing a proposed replacement rule.

In light of these activities, the future of the CPP, or a replacement rule, and what it may require of existing power plants, is unknown at this time.

On April 17, 2015, EPA released publicly its final rule to regulate CCRs under Subtitle D of RCRA for nonhazardous waste. The rule became effective on October 19, 2015 and applies to: (i) new and existing CCR landfills and surface impoundments, including any lateral expansions of such units that dispose or otherwise manage CCRs generated by electric utilities and independent power producers (IPPs); and (ii) inactive surface impoundments, located at an active electric utility or IPP, regardless of fuel currently used (i.e., natural gas, coal, or oil) at the facility to produce electricity. The final rule does not apply to: (i) CCR landfills that have ceased receiving CCR prior to October 19, 2015; (ii) CCR landfills and surface impoundments at electric utilities and IPPs that have ceased producing electricity prior to October 19, 2015; (iii) municipal solid waste landfills that receive CCR; and (iv) beneficial use of CCR. The CCR rule was “self-implementing,” with enforcement from RCRA citizen suits.

The Georgia Board of Natural Resources adopted a final “Coal Combustion Residuals” rule on October 26, 2016. Georgia’s final CCR rule establishes a new permitting program for all CCR units at electric utilities in the State. The rule took effect on November 22, 2016. On December 16, 2016, President Obama signed the Water Infrastructure Investment for the Nation Act (WIIN) (S. 612). The Act gives EPA enforcement authority for the federal CCR rule and authority to approve state permitting programs for CCR units. The Act also gives EPA authority to implement a federal permitting program in non-participating states. EPA’s process for reviewing and approving state CCR permit submissions will be subject to a public notice and comment period. However, it is unclear if EPA will go through rulemaking to establish this process. The WIIN Act takes the federal CCR rule from a self-implementing rule to a permit-based rule.

The CPP, CCR Rule, § 316(b) rule, and other rules may require capital retrofit decisions that could result in unnecessary expenditures, stranded assets and/or permanent or temporary closures of facilities prior to the end of their useful life. Plant Scherer needs significant additional time to gain more certainty regarding these rules to determine the most appropriate compliance option to ensure that safe, reliable, and affordable electricity is provided to our customers.

The factors provided for in the 2015 rule have been bolstered by the recently promulgated ELG Postponement Rule. As mentioned previously, on September 18, 2017, EPA issued a final rule



postponing the near-term applicability dates for FGDW and BATW from November 1, 2018, to November 1, 2020. 82 Fed. Reg. 43,494. EPA's stated purpose for the Postponement Rule is to authorize permit writers to select applicability dates that will avoid any expenditures to comply with the 2015 ELGs for FGD wastewater and BATW until EPA completes further rulemaking for those waste-streams. As such, achieving the central purpose of the Postponement Rule means that EPD must use the November 1, 2020 deadline (the date by which EPA intends to complete the rulemaking) as the starting point, not the endpoint, for compliance expenditures. The preamble accompanying the Postponement Rule indicates that EPA will conduct further rulemaking to revise the applicability dates if it has not completed its reconsideration of the FGDW and BATW limits by November 1, 2020.

#### **D. Other Factors and Waste-Stream Specific Considerations**

(i) **Bottom Ash Handling**

Significant factors influence the implementation schedule of dry bottom ash retrofits at Plant Scherer. These retrofits are site-specific, with little opportunity for modularization or standardized designs to accelerate the schedule. Furthermore, engineering and construction labor resources will likely be strained, due to the number of similar projects being undertaken in the Southern Company fleet and nationwide. Plant Scherer has already completed the technology selection and design process for bottom ash conversions. Plant Scherer is installing Magaldi systems which are completely dry bottom ash handling systems. These systems are scheduled for completion in 2019.

(ii) **Fly Ash Handling**

Dry fly ash handling infrastructure is already in place at Plant Scherer, however additional testing and minor infrastructure improvements are required to ensure reliable operations. The system will undergo additional testing prior to the earliest implementation date of the ELG rule. Compliance with the updated ELG's is anticipated at the beginning of the applicability timeframe.

(iii) **Flue Gas Desulfurization Wastewater (FGDW)**

As mentioned previously, Southern Company and its partners, the Electric Power Research Institute (EPRI), Southern Research Institute (SRI) and 14 other companies, created a state-of-the-art Water Research Center (WRC) that focuses on finding new ways to reduce, conserve and improve the quality of water returned to the environment from power plants.

One major area of WRC focus has been evaluating EPA's chosen BAT for FGDW, which is physical chemical treatment followed by GE's ABMet technology. In addition, several other technologies have been under evaluation at the WRC to treat and discharge FGDW to ELG limits. These include technologies from Frontier Water Systems, Inotec, Evoqua, Liberty Hydro, and an in-house Biofilm technology. To date,

no technology, including the EPA's BAT has consistently or reliably met the final ELG limits. Testing has shown an approximate 75 to 80% compliance rate at the WRC with the two most promising technologies. It should be noted that those compliance rates were: 1) based upon pilot scale tests; 2) do not accurately reflect the FGDW treatability characteristics that may be encountered in the future; and 3) were not performed for Plant Scherer's FGDW. Southern Company has also been exploring technologies to eliminate the discharge of FGDW. Traditional thermal Zero Liquid Discharge (ZLD) technologies such as falling film evaporators have proven to be unreliable around the industry; therefore, novel concepts and technologies are being developed and demonstrated. These technologies are not commercially demonstrated on a utility scale at this time and need further development and demonstration.

Due to the immature nature of the available effective compliance options, grid reliability could be significantly impacted. FGD wastewater technology limits based on biological treatment or ZLD are not consistently achievable and, if prematurely implemented in NPDES permits, could cause numerous compliance issues and forced plant outages. In addition, tie-in outages during installation will need to be staggered and coordinated with those required for other projects in order to maintain the reliability of the plant and the grid.

A single FGDW treatment system with physical, chemical, and biological treatment will take, on average, four years to complete detailed design engineering, procurement of equipment and materials, and construction. Southern Company will likely need to install eight treatment systems for 27 units that have FGDs. The detailed engineering of these systems is unique and based upon site-specific factors. Therefore, the use of standardized designs and modular construction techniques may not be practical given the unique nature of each design. This lack of leverage will require dedicated engineering teams working on parallel timelines. The availability of engineering resources, as well as construction labor, will be stretched with the abundance of projects across the industry. Procurement of equipment and material lead times will increase as market demand outpaces vendor supply. The market pressures will be exacerbated by the fact that there are very limited process suppliers available whose biological systems come close to meeting all proposed FGDW limits.

EPA's record demonstrates that plants installing the FGDW treatment BAT spent several months optimizing its operation (initial commissioning period). To assure the plant can reliably and consistently meet the new FGD limitation in all seasons, it will need time between equipment startup and the compliance date to optimize system performance. Variability across operations and waste stream characteristics impacts treatability; therefore, a minimum optimization period of 12 months is anticipated.

Again, FGDW considerations listed above should be coupled with EPA's postponement of the compliance dates and the potential future rulemaking for this wastestream. These factors all combine and justify Plant Scherer's proposed FGDW applicability date of late 2023.

**E. Georgia Power's Proposed Applicability Timeframes**

Georgia Power and Plant Scherer have consistently complied with all environmental regulations, and Plant Scherer's compliance with the 2015 revision to the Effluent Limitation Guidelines is no exception. With that said, and as detailed above, the regulation specifically considers the planning, design, engineering and operational constraints with regard to implementation timing. Georgia Power has spent significant time and resources on assessing the compliance options with the revised ELG's at Plant Scherer and all of the generating plants, and this effort will continue. These efforts will also occur in conjunction with EPA's ELG reconsideration process, ELG Postponement Rule, and potential future ELG rulemaking.

At this time, Georgia Power is able to commit to the following ELG applicability dates at Plant Scherer:

Fly Ash Transport Water per § 40 CFR 423.13(h)	January 1, 2019
Bottom Ash Transport Water per § 40 CFR 423.13(k)	November 1, 2020
Flue Gas Desulfurization Wastewater § 40 CFR 423.13(g).	December 31, 2023



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February 28, 2018

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Charles Howton, Gulf Power Company ([CTHOWTON@southernco.com](mailto:CTHOWTON@southernco.com))

Re: Plant Scherer Condenser Tube and Cooling Tower Packing Replacement Projects

Dear Co-Owners:

I am writing to follow up on discussions on the condenser tube and cooling tower packing replacement projects at Plant Scherer. As both operator of Plant Scherer and as an owner of several units at Plant Scherer, Georgia Power Company ("Georgia Power") operates Plant Scherer in accordance with all applicable regulations and prudent utility practice. Completing appropriate condenser tube and cooling tower packing replacement projects at each of Plant Scherer's units during each unit's currently planned outage in 2018 and 2019 will position Plant Scherer for the continued environmental compliance of Plant Scherer and is a key part of long-term equipment maintenance activities for Plant Scherer.

Each unit at Plant Scherer has undergone or will undergo condenser tube and cooling tower packing replacement projects over the next two years during its scheduled outage. All projects should be completed by the end of 2019. At Plant Scherer and at its other plants, Georgia Power takes its environmental compliance record seriously, and Georgia Power believes the condenser tube and cooling tower packaging replacement projects are vital to long-term continued generating efficiency and regulatory compliance at Plant Scherer.

If you have any questions, please contact me at 404-506-7777.

Sincerely,

A handwritten signature in blue ink that reads "Mark S. Berry".

Mark S. Berry

cc: Johnny J. Howze, Plant Manager, Plant Scherer, Georgia Power Company  
Scott Smith, Generation Support Manager, Georgia Power Company