

December 17, 1990

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Ms. Theresa Heron Florida Dept. of Environmental Regulation Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399

DER - BAOM

ENRON/FGTC Compressor Station No. 15 PSD Permit Application

Dear Ms. Heron:

As you requested, attached is the sheet of emission calculations for FGTC's Compressor Station No. 15. Please feel free to contact me at your convenience if you have further questions concerning this permit application.

Sincerely,

David a. Buff David A. Buff, P.E. Principal Engineer

TT/tla

cc: Alan Bowman, ENRON

Attachment

C: T. Yerron

B. andrews C. Halladay g. Harper, E PA A. Kutyna, NENISY. C. Shaw, NPS

EMISSION CALCULATIONS

FGTC's COMPRESSOR STATION No. 15 TAYLOR COUNTY, FLORIDA

Fuel usage and emission calculations are presented below for the proposed Cooper-Bessemer Model 8W-330C2 reciprocating IC engine at Compressor Station No. 15.

Fuel Usage:

(4,000 bhp) x (6,800 Btu/bhp-hr)	- 27.20 x 10 ⁸ Btu/hr
$(27.20 \times 10^6 \text{ Btu/hr})/(1,040 \text{ Btu/scf})$	- 26,154 scf/hr

Emission Calculations:

NO _x :	(2.0 g/bhp-hr)(4,000 bhp)(1 lb/453.593 g) (17.6 lb/hr)(8,760 hr/yr)(1 ton/2,000 lb)	- 17.6 lb/hr - 77.2 TPY
CO:	(2.5 g/bhp-hr)(4,000 bhp)(1 lb/453.593 g) (22.046 lb/hr)(8,760 hr/yr)(1 ton/2,000 lb)	- 22.046 lb/hr - 96.6 TPY
VOCs	(non-methane hydrocarbon): (1.0 g/bhp-hr)(4,000 bhp)(1 lb/453.593 g)	- 8.819 lb/hr

(8.819	1b/hr)(8,760	hr/yr)(1	ton/2,000	1b)	- 38.6	TPY

PM:
$$(5 \text{ lb/10}^6 \text{ scf})(26,154 \text{ scf/hr})$$
 = 0.1308 lb/hr
 $(0.1308 \text{ lb/hr})(8,760 \text{ hr/yr})(1 \text{ ton/2,000 lb})$ = 0.57 TPY



Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

November 28, 1990

Mrs. Chris Shaver
Chief, Permit Review and Technical
Support Branch
National Park Service
Air Quality Division
P. O. Box 25287
Denver, Colorado 80255

Dear Mrs. Shaver:

Re: Completeness Review

The following PSD permit applications from Florida Gas Transmission Company are being submitted to you for your review and comment:

Compressor Sta. No. 14, Gadsden County, PSD-FL-159 Compressor Sta. No. 15, Taylor County, PSD-FL-160 Compressor Sta. No. 16, Bradford County, PSD-FL-161 Compressor Sta. No. 17, Marion County, PSD-FL-162

If there are any questions, please call Barry Andrews or Cleve Holladay at (904) 488-1344 or write to me at the above address. All comments, written or oral, should be received by December 15, 1990. If it is convenient to FAX a response to us, the FAX number to use is (904)922-6979.

Sincerely,

furc. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Patricia G. adams

CHF/pa



Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

November 28, 1990

Ms. Jewell A. Harper, Chief Air Enforcement Branch U.S. EPA - Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Ms. Harper:

Re: Completeness Review

The enclosed information is being forwarded to you for completeness review.

- 1. Seminole Fertilizer Corp., Polk County, gas turbine cogeneration project, PSD-FL-157.
- 2. The following applications from Florida Gas Transmission Company:

Compressor Sta. No. 12, Santa Rosa County, PSD-FL-156 Compressor Sta. No. 13, Washington County, PSD-FL-158 Compressor Sta. No. 14, Gadsden County, PSD-FL-159 Compressor Sta. No. 15, Taylor County, PSD-FL-160 Compressor Sta. No. 16, Bradford County, PSD-FL-161 Compressor Sta. No. 17, Marion County, PSD-FL-162 Compressor Sta. No. 18, Orange County, PSD-FL-163 Compressor Sta. No. 20, St. Lucie County, PSD-FL-164

If there are any questions, please call Barry Andrews at (904)488-1344 or write to me at the above address. If it is convenient to FAX a response to us, the FAX number to use is (904)922-6979.

Patricia G. Adams

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

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