

December 17, 1990

Ms. Theresa Heron

RECEIVED

Florida Dept. of Environmental Regulation

DEC 18 1990

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399

DER-BAOM

ENRON/FGTC Compressor Station No. 16 PSD Permit Application

Dear Ms. Heron:

As you requested, attached is the sheet of emission calculations for FGTC's Compressor Station No. 16. Please feel free to contact me at your convenience if you have further questions concerning this permit application.

Sincerely,

David A. Buff, P.E' Principal Engineer

TT/tla

cc: Alan Bowman, ENRON

Attachment

CI. J. Your

B. Andrews C. Holladay J. Flarper, EPA A. Hutyra, NE Wist C. Slaver, NPS

EMISSION CALCULATIONS

FGTC's COMPRESSOR STATION No. 16 BROOKER 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. 16.

Fuel Usage:

$(4,000 \text{ bhp}) \times (6,800 \text{ Btu/bhp-hr})$	$= 27.20 \times 10^6 \text{ Btu/hr}$
$(27.20 \times 10^{8} \text{ Btu/hr})/(1,030 \text{ Btu/scf})$	= 26,408 scf/hr

Emission Calculations:				
NO _x :	(2.0 g/bhp-hr)(4,000 bhp)(1 lb/453.593 g)	= 17.6 lb/hr		
	(17.6 lb/hr)(8,760 hr/yr)(1 ton/2,000 lb)	- 77.2 TPY		
CO:	(2.5 g/bhp-hr)(4,000 bhp)(1 lb/453.593 g)	- 22.046 lb/hr		
	(22.046 lb/hr)(8,760 hr/yr)(1 ton/2,000 lb)	- 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 lb/hr)(8,760 hr/yr)(1 ton/2,000 lb)	= 38.6 TPY		

PM:	(5 lb/10 ⁸ scf)(26,408 scf/hr)	= 0.132 lb/hr
	(0.132 lb/hr)(8,760 hr/yr)(1 ton/2,000 lb)	= 0.58 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

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.

- 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.

Sincerely,

C. 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 Dale Twachtmann, Secretary Bob Martinez, Governor 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:

Completeness Review Re:

PSD permit applications from Florida following 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,

MC. H. Fancy, P.E. Chief

Bureau of Air Regulation

Patricia G. adams

CHF/pa



ENRONGas Pipeline Operating Company

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161



June 4, 1990

Mr. Clair Fancy Chief, Bureau of Air Quality Management Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, FL 32301

Dear Mr. Fancy:

I wish to thank you for the time you spent with David Buff and me, May 22, 1990, discussing the Florida Gas Transmission Company's (FGT) permitting of existing Compressor Station Nos. 12-18, and 20, and FGT's proposed Phase II Expansion.

We are hopeful that we can enter into a single Consent Order, which will allow us to continue operating the existing compressor stations, and that the permitting of existing compressor stations and the Phase II Expansion can be consolidated.

As discussed, FGT intends to prepare and submit construction permit applications for the expansion, as soon as engineering details are finalized. KBN, a Gainesville consultant, will assist us in this matter.

If you have any questions or comments, please call me at (713) 853-7303. Again, we appreciate your time and assistance in this matter.

Sincerely,

W. Alan Bowman, PhD, CCM Project Environmentalist

W. alm Bonna

Environmental Affairs Department

cc: Earl Berdine, Enron Kevin J. McGlynn, Enron Jerry Murphy, Enron David Buff, KBN

FAN0604wab