

CDS INSPECTION**RECEIVED**

NOV 20 1995

BUREAU OF  
AIR REGULATION

Facility: Auburndale Power Partners  
 Neds #: 53-0221  
 Permit #: AC53-208321, PSD-185  
 Date: 04/13/95 from 1315 to 1445  
 Inspector: Robert Soich  
 Contacts: David Sanches, Axel Santiago

This inspection was performed to determine compliance with 62-296 and air permit requirements. Compliance tests were performed in June 1994. Exemptions were given for Be and Hg testing and the permit was amended (see the June 17, 1994 letter attached). A 20% VE is allowed during startup when burning fuel oil; with a 10% VE when burning fuel oil during full load conditions. Since commercial operation began on July 1, 1994, fuel oil was burned only for compliance test purposes. Natural gas has been available since February 1994. A fuel oil analysis is attached showing the percent sulfur to be below 0.05% by weight. Sufficient space was built into the unit to allow for SCR installation if necessary. By 1997 they must achieve, through better operation, the ability to operate keeping NOX emissions below 15 ppmvd. S. a) 15.

This facility currently certified the CEMs under 40CFR60 but may be considered a Title IV phase II facility. The CEMs underwent 40CFR75 certification testing in December 1994. An Acid rain application will be submitted to EPA according to Mr. Sanches' April 14, 1995 letter. A steam injection to fuel flow graph, derived from the June 1994 compliance tests, should have been submitted to Tall. DARM to show compliance with NOX emissions. This graph was not in our files. A copy was received on 4/27/95, sent by Mr. Gene Bergfield and placed in the permit file. They also provided graphs showing power output to steam injection rates for compliance. NCP

OPERATING DATA:

Total MW: 144  
 Steam Turbine MW: 34

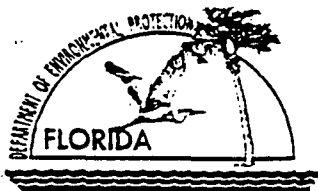
CT MW:	110	CEM(S):
Steam inj. KPPH:	86	NOX: 19.4 ppm @ 15% O2
Adj. steam inj. KPPH:	86	CO: 0.1 ppm
CT fuel flow KSCFH:	1134.6	O2: 14.6 %
CT fuel mmBtu/hr:	1197 X (1.041 ISO corr. factor) = *1242	
CT inlet temp. F:	70	
CT exhaust temp. F:	1010	
Blade path avg. temp. F:	1032	
Air temp compressed F:	770	
Combuster shell PSIA:	203	
Inlet guide vane demand:	0.0 degrees- wide open	

\* Spec. cond. 5(E) gives a max. allowed of 1214 mmBtu/hr at ISO conditions (base load). The words base load and max are not compatible. Subpart GG defines base load as the load level at which a gas turbine is normally operated. During the 6/05/94 stack test, at 100% load the mmBtu/hr averaged 1200. The inspector does not feel this is an enforceable permit condition especially since the NOX emissions are at 19.4 ppm (15% O2 at ISO cond.).

HRSG:	Steam flow KPPH:	328 HP drum	82 LP drum
	Steam temp. F(super heat):	956	393
	PSIG	898	83
	Drum level inches:	-0.7	1.0

Inspector: Robert Smith

Date: 4/28/95



# Department of Environmental Protection

## DIVISION OF AIR RESOURCES MANAGEMENT

### APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

#### I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

#### Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

1. Facility Owner/Company Name: Auburndale Power Partners, Ltd.	
2. Site Name: Auburndale Cogeneration	
3. Facility Identification Number: 1050221 [ ] Unknown	
4. Facility Location: Street Address or Other Locator: City: County: Zip Code:	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	10/26/95
2. Permit Number:	1050221 - 002 - AV
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

8/10/95  
for internal use  
manually track  
until ARMS  
out of "beta" test  
5/7/96

3 digit project number  
assigned when ARMS  
logged.