



Florida Municipal Power Agency

Tina Garza  
Document Control Technician

**Via Federal Express**

June 20, 2005

Ms. Cindy Mulkey  
DEP  
Division of Air Resource Management  
2600 Blair Stone Road, MS #5505  
Tallahassee, FL 32399

**RECEIVED**

JUN 21 2005

BUREAU OF AIR REGULATION

Dear Ms. Mulkey:

Enclosed you will find the original newspaper verification notice along with a copy of the published Notice of Intent to Issue Air Construction Permit for the Key West CT #4, this information was also faxed to you on June 14, 2005.

If you need anything further please call me at 321-239-1020.

Sincerely,

A handwritten signature in cursive script that reads 'Tina Garza'.

Tina Garza  
Document Control Technician

Enclosures



The Florida Keys Only Daily Newspaper, Est. 1878

Cooke Communications, LLC  
Florida Keys

Mary Beth Canitano  
Advertising Coordinator

PO Box 1800  
Key West Fl 33041  
Office ..... 305-292-7777  
Extension.....x219  
Fax ..... 305-294-0768  
mcanitano@keysnews.com

**INTERNET PUBLISHING**  
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**FLORIDA KEYS OFFICES**  
**Printing / Main Facility**  
3420 Northside Drive  
Key West, FL  
33040-1800  
Tel 305-292-7777  
Fax 305-294-0768  
citizen@keywest.com

**Internet Division**  
1201 White Street (Suite 103)  
Key West, FL  
33040-3328  
Tel 305-292-1880  
Fax 305-294-1699  
sales@keywest.com

**Middle Keys Office**  
6363 Overseas Hwy  
Marathon, FL (MM 52.5)  
33050-3342  
Tel 305-743-8766  
Fax 305-743-9977  
navigator@floridakeys.com

**Upper Keys Office**  
81549 Old Hwy  
PO Box 469  
Islamorada FL (MM81.5)  
33036-0469  
Tel 305-664-2266  
Fax 305-664-8411  
freepress@floridakeys.com

**Ocean Reef Office**  
3A Barracuda Lane  
Key Largo, FL 33037  
Tel 305-367-4911  
Fax 305-367-2191

STATE OF FLORIDA  
COUNTY OF MONROE

Before the undersigned authority personally appeared Randy G. Erickson, who on oath says that he is Vice-President of Advertising Operations of the Key West Citizen, a daily newspaper published in Key West, in Monroe County, Florida; that the attached copy of advertisement, being a legal notice in the matter of Stock Island

In the \_\_\_\_\_ Court, was published in said newspaper in the issues of June 5, 2005

Affiant further says that the Key West Citizen is a newspaper published in Key West, in said Monroe County, Florida and that the said newspaper has heretofore been continuously published in said Monroe County, Florida every and has been entered as second-class mail matter at the post office in Key West, in said Monroe County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

  
Signature of Affiant

Sworn and subscribed before me this 14 day of June, 2005

  
Mary Beth Canitano, Notary Public

Expires: January 15, 2007

Notary Seal



Personally Known x Produced Identification \_\_\_\_\_  
Type of Identification Produced \_\_\_\_\_

NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT  
 STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 DEP File No. 0870003-0070-AC (PSD-FL-348)  
 KEYS Stock Island Power Plant Combustion Turbine Unit 4  
 Monroe County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit under the requirements for the Prevention of Significant Deterioration (PSD) of Air Quality to Keys Energy Services to construct a nominal 48 megawatt (MW) simple cycle combustion turbine at the existing Stock Island Power Plant near Key West, Monroe County. A determination of Best Available Control Technology (BACT) was required pursuant to Rule 62-212 400(6), Florida Administrative Code (FAC) for emissions of nitrogen oxides (NO<sub>x</sub>) and particulate matter (PM/PM<sub>10</sub>). The applicant's address is Keys Energy Services (KEYS), 1001 James Street, Key West, Florida 33041-6100.

The applicant proposes to construct a new combustion turbine-electrical generator (Combustion Turbine Unit 4). The primary components are: one nominal 48 MW General Electric LM6000 PC combustion turbine; electrical generator with spray intercooling (SPRINT); a 60-foot exhaust stack; a nominal 1,000,000 gallon fuel oil storage tank, a new water tank; and other associated support equipment.

Combustion Turbine Unit 4 will be permitted to operate 2,500 hours per year while firing low sulfur fuel oil (0.05 percent sulfur). Water injection into the combustion area will be practiced for NO<sub>x</sub> control.

The Department has determined that BACT for NO<sub>x</sub> is 42.0 parts per million by volume, dry corrected to 15 percent oxygen (ppmv@15%O<sub>2</sub>) under the very special circumstances of this project including location, lack of natural gas supply, low annual emissions for the project, installation of a single unit, etc. This limit will be achieved by water injection. Future increases in hours of operation will require installation of a selective catalytic reduction (SCR).

Emissions of carbon monoxide (CO), PM/PM<sub>10</sub>, sulfuric acid mist (SAM), sulfur dioxide (SO<sub>2</sub>), and VOC will be minimized by the efficient, high-temperature combustion of low sulfur fuel oil. A BACT determination was not required for CO, SAM, SO<sub>2</sub>, or VOC.

KEYS' estimates of maximum potential annual emissions from Combustion Turbine Unit 4 are summarized in the following table. Actual emissions will be substantially less than estimated because much of the operation will be under low load conditions. For example, KEYS estimates that if it actually operates the unit for 2,500 hours per year, emissions will actually be less than 60 tons per year of NO<sub>x</sub> considering low load versus the estimate of 95 given below.

<u>Pollutant</u>	<u>Maximum</u>	<u>PSD Significant Emission Rate</u>	<u>PSD Review</u>
	<u>Tons Per Year</u>	<u>Tons Per Year</u>	<u>Required?</u>
CO	34	100	No
Pb	0.013	0.6	No
NO <sub>x</sub>	95	40	Yes