## The Orlando Sentinel

## RECE VED

**Published Daily** 

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AUG 27 1999

State of Florida county of Grange } s.

BUREAU OF AIR REGULATION

Before the undersigned authority personally appearedBEVERLY C.SIMMONS
that he/she is the Legal Advertising Representative of The Orlando Sentinel, a daily newspaper published at
that the attached copy of advertisement, being a LEGAL NOTICE in the matter of OLEANDER POWER PROJECT
in theBREVARD
was published in said newspaper in the issue; ofO2/23/99Court,
A.U A.C. O
Affiant further says that the said Orlando Sentinel is a newspaper published at COCOA
BREVARD in said
BREVARD, in said and that the said newspaper has heretofore been continuously published in
each Week Day and has been entered as second-class mail matter at the post
BREVARD County Florida
Of a period of one year pout pro if the period of the pe
copy of advertisement; and affiant further says that he/she has neither paid
commission or refund for the number corporation any discount, rebate,
publication in the said newspaper.
The foregoing instrument was Devery C. Survey
The foregoing instrument was salary to the foregoing instrument with the foregoing instrument was salary to the foregoing in the foregoing instrument was salary to the foregoing in t
The foregoing instrument was acknowledged before me this 24th day of
AUGUST 19 99 by BEVERLYC. SIMMONS
who is personally known to me and should take an oath.
SEAL)
ELANE E PARKER

No. CC 778400 Li Paranaty Known [] Other I.O.

#### NOTICE

The Department of Environmental Protection, Division of Air Resources Management, announces a public workshop (40 CFR 51.102 hearing) to which all persons are invited.

DATE AND TIME: March 3, 1999 at 7:00 pm

PLACE: Brevard County Agricultural Center, 3695 Lake Drive, Cocoa, FL 32926

PURPOSE: Oleander Power Project Air Permit Application

A copy of the workshop agenda and proposed amendments may be obtained by writing to Mr. Michael P. Halpin, Department Of Environmental Protection, Division of Air Resources Management, 2600 Blair Stone Road, Mail Station 5505, Tallahassee, Florida 32399-2400 or by calling Ms. Kim Tober at (850) 921-9533. These materials will also be available for public inspection during normal business hours at the following offices:

Department Of Environmental Protection Central Florida District Air Resources 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

Orange County Environmental Protection Department Air Program Section 2002 East Michigan Street Orlando, Florida 32806

All persons desiring to be heard on the proposed agency action will be given the opportunity to do so. Pursuant to the provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in this meeting is asked to advise the agency at least 48 hours before the meeting by contacting the Personnel Services Specialist at (850) 488-2996. If you are hearing or speech Impaired, please contact the agency by calling (900) 955-0771 (TDO).

BRE2279970 Feb. 24, 1999

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The foregoing instrument was acknowledged before me this 24th day of AUGUST 19 99, by BEVERLYC.SIMMONS
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My Comm Brp. 9/27/2002 Ho. OC 778400 U Paranady Known (100hr l.D.

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DATE AND TIME: March 3, 1999 at 7:00 pm

PLACE: Brevard County Agricultural Center, 3695 Lake Drive, Cocoa, FL 32926

PURPOSE: Oleander Power Project Air Permit Application

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DATE AND TIME: March 3, 1999 at 7:00 pm

PLACE: Brevard County Agricultural Center, 3695 Lake Drive, Cocoa, FL 32926

PURPOSE: Oleander Power Project Air Permit Application

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#### MOTICE

The Department of Environmenins poparment of Environmental Proteotion, Division of Alf Resources Management, announces a public workshop (40 CFR 51,162 hearing) to which all persons are invited.

DATE AND TIME: March 3, 1999 at 7:00 pm

PLACE: Brevard County Agri-cultural Center, 8695 Lake Drive, Cocoa, FL 32923

PURPOSE: Oleander Power Project Air Permit Application

A copy of the workshop agenda and proposed amendments may be obtained by writing to Mr. Michael P. Hatign, Department of Environmental Protection, Division c: Air Resources Management, 2600 Blair Stone Road, Mail Station 5505, Tallehassee, Florida 32395-2400 or by calling Ms. Kim Tober at (850) 921-9533. These materials will asso be available for public will suco be available for public inspection during normal bushness hours at the following diffic-

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The Orlando Sentinel

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IT PAYS TO READ THE SENTINEL

Cali 407-420-5353 for home delivery.

### NOTICE OF PUBLIC WORKSHOP

RECEIVED
99 APR 21 AMII: 49

The Department of Environmental Protection announces a TALLAHASSEE, FLORIDA

DATE AND TIME: May 13, 1999 at 7:00 p.m.

PLACE: Brevard County Agricultural Center, 3695 Lake Drive, Cocoa, FL 32926

PURPOSE: To accept public comments and provide update of
Department review regarding Oleander Power's Air Permit
Application to construct five gas and oil-fired combustion
turbines in Brevard County.

A copy of the agenda may be obtained by writing to: Mr. Michael P. Halpin, Department of Environmental Protection at 2600 Blair Stone Rd, MS#5505, Tallahassee, Florida 32399 or by calling Ms. Kim Tober at 850/921-9533.

Pursuant to the provisions of the Americans with

Disabilities Act, any person requiring special

accommodations to participate in this workshop is asked to

advise the agency at least 48 hours before the workshop by

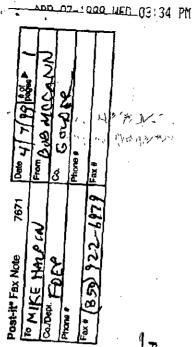
contacting the Personnel Service Specialist in the Bureau of

Personnel at ((850) 488-2996). If you are hearing or speech

impaired, please contact the agency by calling 800-955-8771

(TDD).





FLORIDA TODAY, Wednesday,

·· C. HAYA 171111 1943

1999

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL PROTECTION. DEP File No. 0090180-001-AC (PSD-FL-258)

Oleander Power Project, L.P.

Oleander Power Project - Unit Nos. 1-5 Brevard County

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### Golder Associates Inc.

6241 NW 23rd Street, Suite 500 Gainesville, FL 32653-1500 Telephone (352) 336-5600 Fax (352) 336-6603

May 6, 1999



983-9514-0300

New Source Review Section Bureau of Air Regulation Florida Department of Environmental Protection 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida 32301

Attention: Mr. A. A. Linero, P.E., Administrator

BUREAU OF

AIR REGULATION

RECEVED

RE:

Oleander Power Project, Oleander Power Project, L.P.

PSD-FL-258 and 0090180-001-AC

Response to Intent-to-Issue Letter, March 26, 1999

Dear Al:

The following comments are provided in response to the Department's Intent-to-Issue letter of March 26, 1999, and the letter by the U.S. Fish and Wildlife Service dated December 18, 1998.

1. Nitrogen Oxide (NO<sub>x</sub>) Emission Limits for Oil-firing/Clarification

The U.S. Fish and Wildlife Service (FWS) had indicated that there were several projects with NO<sub>x</sub> emission limits of 25 parts per million (ppm) that were established as Best Available Control Technology (BACT) (assuming correction for dry conditions and 15 percent oxygen). From our review of EPA's BACT determinations as well as information presented by the Florida DEP in its BACT determination for the Oleander Power Project, the NO<sub>x</sub> emissions for the projects cited by the FWS (i.e., Auburndale Power Partners, Texas-New Mexico Power) had NO<sub>x</sub> emission limits of 42 ppm for oil-firing, not 25 ppm. The NO<sub>x</sub> emission limit of 42 ppm proposed for the Oleander Power Project is consistent with that proposed and permitted for the other projects. As stated in our letter dated February 1, 1999, GE will not guarantee NO<sub>x</sub> emissions that are lower than 42 ppm (corrected) for their "F" Class turbines.

### 2. Ozone Monitoring Request

Based on our review of ozone monitoring as well as comments provided to you in a letter dated March 17, 1999, we reiterate that additional monitoring in the vicinity of the Oleander site is unwarranted. This is based on our understanding that ozone is currently monitored at two locations in Brevard County and the fact that there is a regional relationship of the ambient ozone concentrations in the Central Florida region. Also, the maximum VOC emissions from the project is proposed as 64 tons/year which is below the

Prevention of Significant Deterioration (PSD) de minimis monitoring criteria of 100 tons/year for VOCs. An additional monitor in the county may provide additional data but we believe that such monitoring would not provide further insight into our understanding of the regional nature of ozone or determining compliance with the ambient air quality standard for ozone.

Hydrogen Chloride Emissions/ Revision

The hydrogen chloride (HCl) emissions, which were listed in the application as a regulated pollutant under municipal waste combustor gases, were developed from an emission factor based on very conservative assumptions used to overestimate expected emissions. The emission factor was based on residual oil firing at boilers and not for distillate oil used in a combustion turbine. The emission factor of 2,400 lb/10<sup>12</sup> Btu was obtained from an Electric Power Research Institute (EPRI) report (see Electric Utility Trace Substances Synthesis Report, November 1994) and is based on a chlorine content of about 44 ppm. It is expected that the chlorine content in distillate oil is about an order of magnitude lower than that for residual oil. As a result, the HCl emissions produced from firing distillate oil in a combustion turbine are expected to be In fact, EPA literature used to estimate pollutant emissions from stationary sources (Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, AP-42) does not provide any emission factor for HCl for distillate oil firing for boilers or combustion turbines. The GE specification of distillate oil (also ASTM D2880-94) suggests that the chlorine content in distillate oil will not exceed 4 ppm. At 1,000 hours of oil firing for each combustion turbine, the maximum HCl emissions for the project is expected to be about 1 ton per year and still remain less than the PSD significant emission rates.

Oleander appreciates this opportunity to provide the Department with this additional information. Please call or contact me via e-mail, if you have questions or would like to discuss this further.

Sincerely,

GOLDER ASSOCIATES INC.

Kerinard F. Kosky, P.E. Project Engineer

KFK/RCM/jkk

cc: R. Wolfinger, Oleander Power Project

R.A. Zwolak, GAI

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CC: M. Halpin, BAR C. Holladay, BAR EPA NPS

Mike Williams kay whit field Clatercle Rewe Ken Plante Tom Jenkins Board of Co. Comm. E-Mail List

Golder Associates



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

-MAY 1 2 1999

4APT-ARB

Mr. A. A. Linero, P.E.
Administrator
New Source Review Section
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

SUBJECT: Custom Fuel Monitoring Schedule Proposed for Oleander Power Project located

in Brevard County, Florida

Dear Mr. Linero:

This letter is in response to your March 31, 1999, request for approval of a custom fuel monitoring schedule for Oleander Power. Oleander will operate five natural gas-fired simple cycle combustion turbines subject to 40 C.F.R. Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines. As requested, Specific Conditions 30, 41, 42, 44 and 45 have been reviewed. Region 4 has concluded that the use of acid rain nitrogen oxides (NO<sub>X</sub>) continuous emission monitoring system (CEMS) for demonstrating compliance, as described in Specific Conditions 30, 41 and 42, is acceptable with a minor correction to Specific Condition 30. Region 4 has also concluded that the natural gas custom fuel monitoring schedule proposed in Specific Condition 45 and the fuel oil monitoring schedule described in Specific Condition 44 are both acceptable.

According to 40 C.F.R. 60.334(b)(2), owners and operators of stationary gas turbines subject to Subpart GG are required to monitor fuel nitrogen and sulfur content on a daily basis if a company does not have intermediate bulk storage for its fuel. 40 C.F.R. 60.334(b)(2) also contains provisions allowing owners and operators of turbines that do not have intermediate bulk storage for their fuel to request approval of custom fuel monitoring schedules that require less frequent monitoring of fuel nitrogen and sulfur content.

Region 4 reviewed Specific Condition 45 which allows SO<sub>2</sub> emissions to be quantified using procedures in 40 C.F.R. 75 Appendix D in lieu of daily sampling as required by 40 C.F.R. 60.334(b). Since the specific limitations listed in the permit condition are consistent with previous determinations, we have concluded that the use of this custom fuel monitoring schedule is acceptable.

Specific Conditions 30, 41 and 42 involve the method used to monitor  $NO_X$  excess emissions. Under the provisions for 40 C.F.R. 60.334(c)(1), the operating parameters used to

identify NO<sub>X</sub> excess emissions for Subpart GG turbines are water-to-fuel injection rates and fuel nitrogen content. As an alternative to monitoring NO<sub>X</sub> excess emissions using these parameters, Oleander is proposing to use a NO<sub>X</sub> CEMS that is certified for measuring NO<sub>X</sub> emissions under 40 C.F.R. Part 75. Based upon a determination issued by the Environmental Protection Agency (EPA) on March 12, 1993, NO<sub>X</sub> CEMS can be used to monitor excess emissions from Subpart GG turbines if a number of conditions specified in the determination are met and included in the permit condition. Additionally, Specific Condition 30 states that Method 19 will be used to determine compliance with the 24-hr block average (lb/hr) emissions standard. Method 19 is intended to convert raw data received from the CEMS, which are expressed as pollutant and diluent concentrations, to emissions rates with units of pounds per million BTU (lb/MMBTU). Since the permit limit is given in pounds per hour (lb/hr), a further conversion of the results from Method 19 is needed. EPA recommends that you revise this portion of Specific Condition 30 to clarify that the results from Method 19 (lb/MMBTU) will be multiplied by the turbines' heat input, which is in units of million BTU per hour (MMBTU/hr), to convert the NO<sub>X</sub> emission rates to lb/hr.

Specific Condition 42 addresses the potential for correcting results to ISO standard day conditions. The basis for this requirement is that, under the provisions of 40 C.F.R. 60.335(c), NO<sub>x</sub> results from performance tests must be converted to ISO standard day conditions. As an alternative to continuously correcting results to ISO standard day conditions, Oleander plans to keep records of the data needed to make this conversion, so that NO<sub>x</sub> results could be calculated on an ISO standard day condition basis anytime at the request of EPA or the Florida DEP. This approach is acceptable, since the construction permit contains NO<sub>x</sub> limits that are more stringent than those in Subpart GG, and compliance with Subpart GG for these units would be a concern only in cases when a turbine is in violation of the NO<sub>x</sub> limits in its permit.

Finally, Specific Condition 44 addresses the monitoring schedule for fuel oil. According to 40 C.F.R. 60.334(b)(1), the nitrogen and sulfur content of the fuel oil must be monitored each time a new shipment of fuel oil is transferred to bulk storage. Oleander is proposing to use the fuel analysis provided by the fuel vendor instead of sampling each shipment directly. This approach is acceptable, since the specific condition states that the fuel vendor's analyses will comply with the test method requirements of 40 C.F.R. 60.335(d).

If you have any questions about the determination provided in this letter, please contact Ms. Katy R. Forney of my staff at 404-562-9130.

Sincerely,

R. Douglas Neeley

Chief

Air and Radiation Technology Branch

Air, Pesticides and Toxics Management Division

CC: M. Holpen, BAR J. Bunkok, NPS L. KOZlOV, CD L. KOSKY, Golder ASSOC. D. Beason, OEC