UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

4APT-AEB

DEC 13 1991

RECEIVED
DEC 16 1991
Division of Air
Resources Management

Mr. Clair H. Fancy, P.E., Chief
Bureau of Air Regulation
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Lake Cogen Limited (PSD-FL-176)

Dear Mr. Fancy:

This is to acknowledge receipt of your final determination and Prevention of Significant Deterioration (PSD) permit for the above referenced facility, by your letter dated November 20, 1991. The proposed project is construction of a 108 megawatt cogeneration facility, consisting of two General Electric LM6000 combustion turbine units and a single heat recovery steam generator.

Your determination proposes to limit NO_x emissions through wet injection for the combustion turbines and low NO_x burners for the duct burner, to limit CO emissions by good combustion design, and to limit PM/PM_{10} emissions by combustion design and the use of low sulfur distillate fuel oil. Your determination also outlines specific conditions to further reduce emissions. For CO, the final emissions limit will be based on actual compliance testing, and the applicant will leave sufficient space in the facility suitable for the future installation of an oxidation catalyst. For NO_x, the applicant will be required to install a duct module suitable for the installation of selective catalytic reduction (SCR) equipment, and leave sufficient space in the heat recovery steam generator for future SCR installation.

We have reviewed the package as submitted and have no adverse comments. Thank you for the opportunity to review and comment on the package. If you have any questions or comments, please contact Mr. Scott Davis of my staff at (404) 347-5014.

Sincerely yours,

B. J. Beal for

Jewell A. Harper, Chief
Air Enforcement Branch
Air, Pesticides, and Toxics
Management Division

cc: P. Lewis
C. Holladay
A. Zahm, C Dist.
C. Shaver, NPS
CHF/BA