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PROPESSIONAL ASSOCIATION

ATTORNEYS AT LAW

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PROFESSIONAL ASSOCIATION

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August 10, 1992

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SCOTT C. THOMSON
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ATTRICK M. RINKA
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VIA TELECOPY

Office of the General Counsel 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attention Douglas Beason, Esquire

Re:

OGC File No. 92-1210/Orlando

Cogen Limited, L.P./Air

Construction Permit No. AC48-206720/PSD-187/Orange County

Dear Mr. Beason:

Please be advised on behalf of my client, State of Wisconsin Investment Board, that the petition for Administrative Proceeding filed by this law firm on behalf of State of Wisconsin Investment Board and its agent, Jones Lang Wootton Realty Advisers, on August 6, 1992 with respect to the referenced matter is hereby withdrawn. Please return the original Petition to me at your opportunity.

We are most grateful for your gracious cooperation in this matter.

Very truly yours,

William R. Bird, Jr.

WRB:gr 50-M2716R

c: Mr. Bruce Mitchell DER (via telecopy) Orlando Coger Limited, L.P. (via telecopy) Peter Cunningham, Esquire (via telecopy) Mr. Steve McCarthy (via telecopy)

Bruce Mitchell From Bus Relations Dept 4367 FD ER Proce 300-769-22	PAX TRANSMIT	「AL Aufgages ►
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DRAFT

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

Dear Mr. Fancy:

We have completed our review of the material that you sent us regarded. Orlando CoGen Limited's proposal to construct a 129 has degeneration facility at the Orlando Central Park, Grange County, Florida. The facility studies he located approximately 121 km southeast of the Chaseabouttoka has rooss area (WA), a Class I area administered by the U.S. Fish and Wild'ife Service. The proposed project would be a significant emitted of trogen oxides (NO_x), cerbon monoxide, and particulate matter.

Orlando CoGen failed to assess potential effects on biological resources in the Class I area from the proposed emissions. However, given the low modeled concentrations at Chassahowitzka WA, we do not anticipate that their facility will adversely affect air quality or related resources at the wilderness area. Regarding the best available control technology (a.C.) analysis, we agree that firing natural gas and installing dry low-MO analysis, we agree that firing natural gas and installing dry low-MO analysis, represents BACT to minimize emissions from the proposed turbine.

Unsparediate the opportunity to comment on Orlando CoGen Limited's parmit application. If you have any questions regarding this matter, places contact Bud Rolofson of our Air Quality office in Denver at (303) 969-2001.

Sincerely yours,

James W. Pulliam, Jr. Regional Director

cc:

Jellell Harper, Chief Air Enforcement Branch Air, Pesticides and Toxic Management Division U.S. EPA, Region 4 345 Courtland Street, NE Atlanta, Georgia 30361

C. Hod ods

INTEROFFICE MEMORANDUM

Date:

13-Aug-1992 11:05am EST

From:

Doug Beason TAL

BEASON_D

Dept:

Office General Counsel

Tel No:

904/488-9730

SUNCOM:

TO: Bruce Mitchell TAL (MITCHELL B)

Subject: air products

The petition for administrative hearing has been withdrawn and there is no legal obstacle to the issuance of the permit.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

FAX TRANSMITTAL SHEET
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DEPARTMENT/COMPANY: Air Broducts
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PHONE: 215-481-2558 FAX: 215-481-7572
TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE: 7

FROM: Bruce Mitchell
DIVISION OF AIR RESOURCES MANAGEMENT
BUREAU: of Air Regulation
OFFICE PHONE: 904-488.1347 FAX PHONE: (904) 922-6979
SENDER: Same
COMMENTS: Draft FD: Orlando Co Gen Limited L.P.
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Florida Department of Environmental Regulation

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NAME(S): Mr. B:11 Bird Eze
DEPARTMENT/COMPANY: Lowndes Brosdich
DATE: Y-10-12
PHONE: 407-843-4600 FAX: 407-423-4495
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FROM: Bonce Mitchell
DIVISION OF AIR RESOURCES MANAGEMENT
BUREAU: at Air Regulation
BUREAU: 6 A' Regulation OFFICE PHONE: 907-488-1344 FAX PHONE: (904)922-6979
SENDER:
COMMENTS: Deaft Final Determination
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Final Determination

Orlando CoGen Limited, L.P. Orange County, Florida

Construction Permit No.
AC 48-206720
(PSD-FL-184)

Department of Environmental Regulation Division of Air Resources Management Bureau of Air Regulation



Final Determination

Orlando CoGen Limited, L.P.

AC 48-206720 (PSD-FL-184)

The construction permit application package and supplementary material have been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Orlando Sentinel on June 12, 1992. The Technical Evaluation and Preliminary Determination (TE&PD) was distributed on June 8, 1992, and available for public inspection at the Department's Central District office and the Department's Bureau of Air Regulation office.

Comments were received from the applicant during the public notice period. The comments were received on July 7, 1992. The Department's response to the comments are as follows (note: each response will be numbered so as to correspond to each comment):

- 1. The Department will change the permittee's name to read "Orlando CoGen Limited, L.P." instead of "Orlando Cogen Limited, L.P."
- 2. Since the requested change does not affect the potential emissions, a revised TE&PD will not be required. However, the comment is acknowledged.
- 3. Permit No. AC 48-206720 (PSD-FL-184)
- a. The request is acceptable, but the specific language will be slightly different than what was requested:

SPECIFIC CONDITION No. 1:

From: The CT (combustion turbine) is allowed to operate continuously (8,760 hours per year). The HRSG-DB (heat recovery steam generator-duct burner) is permitted to operate 3688 hrs/yr at a maximum heat input of 122 x 10⁶ Btu/hr.

To: The CT (combustion turbine) is allowed to operate continuously (8,760 hours per year). The HRSG-DB (heat recovery steam generator-duct burner) is permitted to operate 3688 hrs/yr at a maximum heat input of 122 x 10⁶ Btu/hr for a maximum heat input of 450,000 x 10⁶ Btu/yr (note: The unit may operate at lower rates for more hours within the annual heat input limit).



Final Determination Orlando CoGen Limited, L.P. AC 48-206720 (PSD-FL-184) Page 2

b. The request is acceptable to add a clarifier to the hours of operation.

SPECIFIC CONDITION No. 4: Table 1, Note 3b:

From: DB: 3688 hrs/yr

To: DB: 3688 hrs/yr (at a maximum heat input of 122 x 10⁶ Btu/hr)

- c. Except for minor particulate sources equipped with a baghouse control system, the Department does not have the authority, by rule, to substitute a visible emission standard for a mass emissions standard in accordance with Florida Administrative Code (F.A.C.) Rule 17-2.700(3)(d). However, the owner or operator of any source may request approval of alternate procedures and requirements in accordance with F.A.C. Rule 17-2.700(3)(a). Therefore, the request is not acceptable and SPECIFIC CONDITION No. 8 will not be altered.
- d. The request is acceptable, which alters the original verbiage, but not the intent.

SPECIFIC CONDITION No. 12:

From: The permittee shall leave sufficient space suitable for future installation of SCR equipment.

To: The permittee shall design the facility to allow for future installation of SCR equipment.

e. The request is acceptable.

SPECIFIC CONDITION No. 13:

From: The permittee shall install, calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the nitrogen oxides emissions from this source. The continuous emission monitor must comply with 40 CFR 60, Appendix B, Performance Specification 2, (July 1, 1991).

To: The permittee shall install, calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the nitrogen oxides emissions from this source. The continuous emission monitor must comply with 40 CFR 60, Appendix B, Performance Specification 2 (July 1, 1991 version).



Final Determination Orlando CoGen Limited, L.P. AC 48-206720 (PSD-FL-184) Page 3

For the purpose of demonstrating ongoing compliance with the applicable NOx emissions limitation in Table 1, using the stack CEM, compliance is considered to occur when the NOx emissions are less than or equal to 57.4 lbs/hr when only the CT is operating and less than or equal to 69.6 lbs/hr when both the CT and DB are operating. The 24-hour rolling average compliance level is calculated based on the proportion of hours in any 24-hour period that the CT only or CT/DB are operating. Any portion of an hour that the DB operates is recognized as an hour period on the rolling average.

For example, in a given contiguous 24-hour period, with 20 hours of CT operation only and 4 hours of CT/DB operation:

Emission Limitation =

[(57.4 lbs/hr x 20 hrs) + (69.6 lbs/hr x 4 hrs)]/24 hrs =

24-hour rolling average-compliance NOx level = 59.4 lbs/hr

Actual hourly NOx emissions levels from the stack CEM will be averaged over the same 24-hour rolling period to determine the facility's actual NOx emissions level. At all times, the 24-hour rolling average-actual NOx emissions level must be less than or equal to the 24-hour rolling average-compliance NOx emissions level.

f. The request is acceptable, which alters the original verbiage, but not the intent.

SPECIFIC CONDITION No. 14:

From: Combustion control shall be utilized for CO control. The permittee shall leave a sufficient space suitable for future installation of an oxidation catalyst. Once performance testing has been completed, the decision to require an oxidation catalyst will be based on a cost/benefit analysis of using such control.

To: Combustion control shall be utilized for CO control. The permittee shall design the facility to allow for the future installation of an oxidation catalyst. Once the performance test is completed and the facility demonstrates compliance with the CO emission limits in Table 1, then an oxidation catalyst will not be required. Otherwise, the decision to require an oxidation catalyst will be based on a cost/ benefit analysis of using such control.



Final Determination Orlando CoGen Limited, L.P. AC 48-206720 (PSD-FL-184) Page 4

- 4. BACT Determination to Permit No. AC 48-206720 (PSD-FL-184)
- a. The request is acceptable and the BACT will be revised on page 1, 1st paragraph, to reflect the product output of the combustion turbine (CT) to be 78.8 MW and the steam turbine (ST) to be 50.1 MW. Originally, the CT's output was listed as 79 MW and the ST's output as 50 MW.
- b. The request is acceptable and the sentence (i.e., page 3, 2nd paragraph under "Products of Incomplete Combustion", 2nd sentence) will be deleted. The rationale is that the applicant attests that the proposed unit is a proven operation and is being permitted for a CO level lower than other recently permitted sources. Data has been submitted to substantiate CO levels from currently operating and similar units.
- c. The request is acceptable, but the proposed language will be slightly different than what was requested. Therefore, the 2nd sentence, 1st paragraph, page 8-"BACT Determination by DER": NOx Control, will be revised to read:

Duct firing will be used for supplying steam and limited to operate at a full load equivalent of 3688 hrs/yr at a maximum heat input of 122 \times 10⁶ Btu/hr for a maximum heat input of 450,000 \times 10⁶ Btu/yr (note: The unit may operate at lower rates for more hours within the annual heat input limit).

d. The request is acceptable, but the proposed language will be slightly different than what was requested. Therefore, the 2nd sentence, 2nd paragraph, page 8-"BACT Determination by DER": <u>CO Control</u>, will be revised to read:

The permittee shall design the facility to allow for the future installation of an oxidation catalyst. Once the performance test is completed and the facility demonstrates compliance with the CO emission limits, then an oxidation catalyst will not be required. Otherwise, the decision to require an oxidation catalyst will be based on a cost/benefit analysis of using such control.

e. The "Note" associated with the table "Emission Standards/ Limitations", located on page 8 of the proposed BACT Determination, will be revised to read:



Final Determination Orlando CoGen Limited, L.P. AC 48-296720 (PSD-FL-184) Page 5

Note: Natural gas firing will be used only for supplemental firing the DB for a full load equivalent of 3688 hrs/yr at 122 x 10^6 Btu/hr maximum heat input for a maximum heat input of 450,000 x 10^6 Btu/yr (note: The unit may operate at lower rates for more hours within the annual heat input limit).

- 5. Attachment to be Incorporated:
- o Mr. Gary D. Kinsey's letter with enclosure received July 7, 1992.

Therefore, it is recommended that the construction permit, No. AC 48-206720 (PSD-FL-184), and associated BACT Determination, be issued as drafted, with the above referenced revisions incorporated.

mentis D 10:00 am DBAR/DARM conference room Onlando CoGen Limited, L.P. Attender List: 2/31/22

! Bruen Mitchell

FRER/DARM/BAR

601-128-1341

: Peter Conninghon

Dovers Beason

Todd Solodar

TORUCE METRICIC

HBG-S/Aty for A. Profest 904-227-7500

DER/Obi 4689730

Air Products a (bemnals (215)481-2558

Air Products & Chemicals (2:5/481-7304)

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

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C. ALLEN CULP. JR.

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OF COUNSEL

W. ROBERT TO CECELIA C. SMITH W. ROBERT FOKES

July 20, 1992

W. Douglas Beason, Esquire Office of General Counsel Florida Department of Environmental Regulation 2600 Blair Stone Road, Room 654 Tallahassee, Florida 32399-2400

Orlando CoGen Limited, L.P.

Air Construction Permit No. AC 48-206720:

PSD-FL-187; Orange County

Dear Doug:

By my letter to Dan Thompson dated June 22, 1992, Orlando CoGen Limited, L.P. ("Orlando CoGen") requested an extension of time to file a petition for administrative proceedings regarding the Department's proposed action on the referenced air permit. No action on that request has been taken by the Department as of today, and I am now writing on behalf of Orlando CoGen to withdraw the pending request, which was filed solely as a protective measure to avoid waiver of my client's right to initiate administrative proceedings in this matter. The extension no longer appears necessary, in view of discussions with permitting staff of the Bureau of Air Regulation that indicate the Department agrees that certain technical and clarifying changes to the proposed permit are appropriate. We further understand that no comments have been received from either the public or other regulatory agencies in the 30 days following publication of notice of the Department's proposed permit action that would warrant other changes in the Department's final Under these circumstances no purpose would permit action. be served by the extension of time previously requested by Orlando CoGen.

We are aware that another request for extension of time regarding this matter, dated June 25, 1992 and signed by Casey M. Cavanaugh, Esquire, representing Jones Lang Wootton

CARLOS ALVAREZ JAMES S. ALVES BRIAN H. BIBEAU

KATHLEEN BLIZZARD

ELIZABETH C. BOWMAN WILLIAM L. BOYD, IV RICHARD S. BRIGHTMAN

PETER C. CUNNINGHAM

THOMAS M. DEROSE

WILLIAM H. GREEN WADE L. HOPPING FRANK E. MATTHEWS

RICHARD D. MELSON

WILLIAM D. PRESTON CAROLYN S. RAEPPLE GARY P. SAMS ROBERT P. SMITH

CHERYL G. STUART

W. Douglas Beason, Esquire July 20, 1992 Page 2

Realty Advisers as agents for an unidentified "adjacent property owner", was filed with the Department. While neither that letter nor Mr. Cavanaugh's letter dated June 26, 1992 amending the original request contained a certificate of service stating that service had been made on Orlando CoGen or this firm as its counsel of record, we have obtained copies of both letters from your office.

Please be advised that Orlando CoGen strongly objects to the grant of any extension of time to the unidentified entity referred to in Mr. Cavanaugh's request. Mr. Cavanaugh's letters failed to show any good cause for an extension in this case, and the amended request in fact merely states that:

If the DER grants the Applicant an extension, our client would like to monitor this matter during said extension period and to review the changes, if any, which are made to the documents filed by the Applicant and to the conditions imposed on the Applicant by the DER, before our client decides whether or not to file a petition.

With Orlando CoGen's withdrawal of its request for extension, the predicate and sole reason for the unidentified entity's extension request has been eliminated, and thus the request is now moot. I would also emphasize that statements in Mr. Cavanaugh's letter regarding his attempts to contact me are less than complete insofar as: (1) I was not on vacation on June 25 or 26, 1992 and he was not so advised by anyone at my office; and (2) Mr. Cavanaugh in fact spoke with my law partner, Gary Sams, on June 26, 1992, and Mr. Sams initially indicated he could not concur in the grant of any extension request without talking with me, and after speaking with me by phone, he attempted without success to reach Mr. Cavanaugh and, ultimately, before close business on June 26, 1992 left a message for Mr. Cavanaugh stating that Orlando CoGen could not consent to his extension request. Orlando CoGen also has reason to believe that Mr. Cavanaugh's client or other local real estate agents representing the adjacent property owner did have the telephone number of representatives of Orlando CoGen in Allentown, Pennsylvania, contrary to the statement in his letter of June 26, 1992.

Given these circumstances, and the fact that neither the unidentified property owner nor any of its agents or

W. Douglas Beason, Esquire July 20, 1992 Page 3

attorneys has stated any substantive objection or concern about the referenced permit whatsoever, either in the extension request or by filing written comments during the 30 day public comment period that expired July 13, 1992, there is no justification for granting Mr. Cavanaugh's request for extension. Moreover, Orlando CoGen is clearly prejudiced by Mr. Cavanaugh's request, as it is now causing delay in issuance of the final air construction permit for my client's project, with direct and substantial scheduling and financial consequences to Orlando CoGen.

For the reasons stated herein, Orlando CoGen objects to the grant of Mr. Cavanaugh's extension request and respectfully urges that the Department exercise its discretion under Florida Administrative Code Rule 17-103.070 to deny said request.

Sincerely,

HOPPING BOYD GREEN & SAMS

Peter C. Cumningham

Attorneys for Orlando CoGen Limited, L.P.

Beason: PCC/gbb

cc: Casey M. Cavanaugh, Esquire William R. Bird, Jr., Esquire

B. mitchell



July 16, 1992

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

Subject: Orlando CoGen Limited, L.P., Proposed Cogeneration Facility, Orlando Central Park

Dear Clair:

Air quality impact analyses that showed the proposed facility's maximum predicted concentrations at the Prevention of Significant Deterioration (PSD) Class I area of the Chassahowitzka National Wilderness Area were submitted with the PSD permit application for this project. These results demonstrated that the proposed facility's impacts were low and well below the National Park Service's significant impact levels for particulate matter (PM) and nitrogen dioxide (NO₂) for Class I areas. Given that the best available control technology (BACT) evaluation established the NO₂ emission limit to be 15 ppm instead of the 25 ppm considered in the modeling, the project's maximum NO₂ concentration in the Class I area will be even lower than that reported in the PSD permit application.

Based on these results, the proposed facility's impacts are not expected to adversely affect air quality related values, including biological resources, at the Class I area.

If you have further questions or comments, please call me at your earliest convenience.

Sincerely, Tennod 7. Yarlay

Kennard F. Kosky, P.E.

Project Manager

cc: Bruce Mitchell, DER Cleve Holladay, DER

Gary Kinsey, Air Products

RECEIVED

JUL 17 1992

Division of Air Resources Management



United States Department of the Interior AMERICA

TAKE PRIDE IN AMERICA

FISH AND WILDLIFE SERVICE

75 Spring Street, S.W. Atlanta, Georgia 30303

July 15, 1992

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Mr. C. 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

Dear Mr. Fancy:

We have completed our review of the material that you sent us regarding Orlando CoGen Limited's proposal to construct a 129 MW cogeneration facility at the Orlando Central Park, Orange County, Florida. The facility would be located approximately 121 km southeast of the Chassahowitzka Wilderness Area (WA), a Class I area administered by the Fish and Wildlife Service. The proposed project would be a significant emitter of nitrogen oxides (NO $_{\rm X}$), carbon monoxide, and particulate matter.

Orlando CoGen failed to assess potential effects on biological resources in the Class I area from the proposed emissions. However, given the low modeled concentrations at Chassahowitzka WA, we do not anticipate that this facility will adversely affect air quality or related resources at the wilderness area. Regarding the best available control technology (BACT) analysis, we agree that firing natural gas and installing dry low-NO $_{\rm x}$ combustors represents BACT to minimize emissions from the proposed turbine.

We appreciate the opportunity to comment on Orlando CoGen Limited's permit application. If you have any questions regarding this matter, please contact Mr. Bud Rolofson of our Air Quality office in Denver at 303/969-2071.

Sincerely yours,

Jøhn R. Eadie

Acting Regional Director

cc:

Ms. Jewell Harper, Chief Air Enforcement Branch Air, Pesticides and Toxic Management Division U.S. EPA, Region 4 345 Courtland Street, NE. Atlanta, Georgia 30365

cc: B. Mitchell
C. Halladay
C. Collins, & Diet
D. Mester, OCEPD
K. Kosky, KBN
CHF/PL

Fioriaa Department of Environmental Regulati

Twin Towers Office Bidg. • 2600 Blair Sione Road. • Tilliahussee, Florica 32399.1

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FAX: (904) (922-6979

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COMMENTS:

Draft Comments on Orlando Co Gon

MESSAGE CONFIRMATION

JUL COHIBE ART HAVIN

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DRAFT

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

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WASO DENVER

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We appreciate the opportunity to comment on Orlando CoGen Limited's permit application. If you have any questions regarding this matter, please contact Bud Relafson of our Air Quality office in Denver at (303) 969-2071.

Sincerely yours,

James W. Pulliam, Jr. Regional Director

Jellell Harper, Chief Air Enforcement Branch Air, Pesticides and Toxic Management Division U.S. EPA, Region 4 345 Courtland Street, NE Atlanta, Georgia 30365



Florida Department of Environmental Regulati

Twin Towers Office Bldg. - 2600 Blair Sione Road - Tallahassee, Florida 32399.7

Coloi M. Biowner, Sec

TO: Bud Rolofson

MPS - Alc

PHONE: 303-969-2804

FAX: 303-969-2822

NUMBER OF PAGES TRANSMITTED (INCLUDING COVER SHEET) 6

FROM: Bruce Mitchell

FROM BAR

PHONE: SUNCOM 27.8-1344 OR (904) 488-1344

FAX: (904) 922-6979

RLEASE CONTACT AT ABOVE WIMBER IF TRANSMISSION IS INCOMPLETE.

COMMENTS:

Orlando Cogen PSD-FL-184

comments from the permittee regarding to Intent package. We are not in total agreement with the joints made. Please sive me a call to discuss. Handon,

ÎMESSAGE COMFIRMATIO.

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Florida Department of Environmental Regulati

Twin Towers Office Bidg. - 2600 Blint Stone Road - Talliahussee, Florida 32399.

FAX	TRANSMITTAL	COVET
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TO: Gregg Worley

U.S. EPA RegionTY

PHONE: 404-347-5104

FAX: 404-347-2130

NUMBER OF PAGES TRANSMITTED (INCLUDING COVER SHEET)___

FROM: Bonce Mitchell FOER/DARM/BAR

PHONE: SUNCOM 278-1344 OR (904) 488-1344

FAX: (904) 922-6979

PLEASE CONTACT AT ABOVE NUMBER OF TRANSMISSION OF INCOMPLETE

COMMENTS:

Orlando Cojen P30-FL-184

Day 30 of the comment period is 7/12/92; 2/20, De enclosed comments on the Department's Intent !! greenent with the points made. Please sine ma call to discuss. some Harbor,

MESSAGE CONFIRMATION

JUL-88-193 WEB 15:45

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6 July 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400



Subject: Written Comments on Preliminary Determination and Proposed PSD permit - Orlando CoGen Limited, L.P. Project, Orange County; DER File No. AC 48-206720; PSD-FL-184

Attention: Mr. Preston Lewis

Please find enclosed Orlando CoGen Limited's written comments to the Department Preliminary Determination and Proposed PSD Permit for the subject project. Please consider these comments when the Department finalizes the proposed permit.

As we discussed on Tuesday, 30 June, Orlando CoGen Limited will include provisions in the CEM data acquisition system which will allow for the comparison of actual NO_x emissions measured in the stack with an emissions limitation determined each hour taking into account duct burner firing status. Per conversation with our engineering group, this tracking can be done by obtaining an electrical signal from the duct burner system main natural gas control valve and integrating it into the logic of the CEM computer program. As noted in our requested changes to Special Condition #13, this provision will be incorporated into the permit.

Mr. Preston Lewis DER File No. AC 48-206720; PSD-FL-184

6 July 1992 Page 2.

Orlando CoGen Limited, L.P. greatly appreciated the opportunity to meet with the Department to discuss the proposed PSD permit. If you should have any questions or would need additional information, please call me.

Sincerely,

Gary D. Kinsey, P.E. Environmental Engineer

cc: P. Cunningham, HBG&S K. Kosky, KBN

B mitchell

C. Holladay Dist C. Collins, C. Dist O. Mester, OCEPD G. Harph, EPA E. Shawe, NPS CHF/PL

ORLANDO COGEN LIMITED, L.P. DER FILE NO. AC 48-206720; PSD-FL-184

WRITTEN COMMENTS ON PROPOSED PSD PERMIT ISSUED BY FDER BUREAU OF AIR REGULATION ON JUNE 5, 1992

PREPARED BY: ORLANDO COGEN LIMITED, L.P. 6 JULY 1992

- 1. The permittee name shall be Orlando CoGen Limited, L.P. There is a capital "G" in CoGen. This change should be made throughout the documents.
- 2. Technical Evaluation and Preliminary Determination Document:
- a. Section III.A, Table 1:
 - Note 3b: Request to read: DB: 3688 hrs/yr (at full load equivalent of 122 MMBTU/hr)
- 3. Proposed Permit Draft Document:
- a. Page 5 of 9, Specific Condition #1:

Please change second sentence to read: "The HRSG-DB (heat recovery steam generator-duct burner) is permitted to operate at 3688 hrs/yr at a full load equivalent of 122 MMBTU/hr for a maximum heat duty of 450,000 MMBTU/yr (e.g. 4500 hrs/yr at 100 MMBTU/hr).

- b. Page 6 of 9, Specific Condition #4, Table 1:
 - Note 3b: Request to read: DB: 3688 hrs/yr (at full load equivalent of 122 MMBTU/hr)
- c. Page 7 of 9, Specific Condition #8: (Request to read)

EPA Method 5 must be used to determine the initial compliance status of this unit. During the initial compliance testing, compliance with the PM/PM-10 emissions limits will be assumed provided that the PM test of the CT and DB operating together shows emissions less than or equal to 10.2 lbs/hr. Thereafter, the opacity emissions test may be used unless 10% opacity is exceeded.

d. Page 8 of 9, Specific Condition #12: (Request to read)

The permittee shall design the facility to allow for future installation of SCR equipment.

 Page 8 of 9, Specific Condition #13: (Please add the following to the existing paragraph)

For purpose of demonstrating ongoing compliance with the applicable NO $_{\rm X}$ emissions limitations in Table 1, using the stack CEM, compliance is considered to occur when the NO $_{\rm X}$ emissions are less than or equal to 57.4 lbs/hr when only the CT is operating and less than or equal to 69.6 lbs/hr when both the CT and DB are operating. The 24 hour rolling average compliance level is calculated based on the proportion of hours in any rolling 24 hour period that the CT only or CT/DB are operating. Any portion of an hour that the DB operates is recognized as an hour period on the rolling average.

For example, in a given contiguous 24-hour period, with 20 hours operation of CT only and 4 hour of CT with any DB operation in each hour;

Emissions Limitations =

 $[(57.4 \text{ lbs/hr} \times 20 \text{ hours}) + (69.6 \text{ lbs/hr} \times 4 \text{ hours})]/24 \text{ hours} =$

24 hour rolling average - compliance NO_x level = 59.4 lbs/hr

Actual hourly NO_x emissions levels from the stack CEM will be averaged over the same 24 hour rolling period to determine the facility actual NO_x emissions level. At all times, the 24 hour rolling average – actual NO_x emissions level must be less than or equal to the 24 hour rolling average – compliance NO_x emissions level.

f. Page 8 of 9, Specific Condition #14: (Request to read)

Combustion control shall be utilized for CO control. The permittee shall design the facility to allow for the future installation of an oxidation catalyst. Once the performance test is completed and the facility demonstrates compliance with the CO emissions limits in Table 1, then an oxidation catalyst will not be required. Otherwise, the decision to require an oxidation catalyst will be based on a cost/benefit analysis of using such control.

- 4. BACT Determination Document:
- a. Page 1, 1st paragraph: The combustion turbine should be listed as 78.8 MW and the steam turbine as 50.1 MW.
- b. Page 3, Products of Incomplete Combustion: The sentence "the applicant has stated that the CT is a new design, and CO margins must be higher" should be deleted. The proposed unit is a proven operation and is being permitted for a CO level lower than other recently permitted sources.
- c. Page 7, BACT Determination by DER, NO_x Control: Please change the last sentence in this section to read: Duct firing will be used for supplying steam and limited to a full load equivalent of 3,688 hrs/yr at 122 MMBTU/hr maximum heat input up to 450,000 MMBTU/yr (e.g., 4500 hrs/yr at 100 MMBTU/hr).
- d. Page 8, BACT Determination by DER, CO Control: Please reword this section to match the language in the proposed PSD permit for CO control (i.e., proposed permit Specific Condition #14).



4APT-AEB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

RECEIVED

JUL - 1 1992

JUL 08 1992

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: Orlando Cogen, Inc. (PSD-FL-184)

Dear Mr. Fancy:

This is to acknowledge receipt of your preliminary determination and draft Prevention of Significant Deterioration (PSD) permit for the above referenced facility by letter dated June 5, 1992. The proposed project involves the construction of a combined cycle combustion turbine (ABB 11N-EV model) rated at 129 MW. The project is subject to PSD for emissions of NO_x, PM & PM₁₀, and CO.

We have reviewed the package as requested and have no adverse comments. Emissions will be limited through combustion controls and the firing of natural gas to 15 ppm NO₂, 10 ppm CO, and 0.011 lb/mmBTU PM for the combustion turbine; and 0.1 lb/mmBTU NO_x, 0.1 lb/mmBTU CO, and 0.1 lb/mmBTU PM for the duct burner. If you have any questions or comments on this project, please contact Mr. Gregg Worley of my staff at (404) 347-5014.

Sincerely yours,

Jewell/A. Harper, Chief

Air Enforcement Branch Air, Festicides, and Toxics

Management Division

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET

POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222-7500

FAX (904) 224-8551

C. ALLEN CULP, JR. RALPH A. DEMEO JAMES C. GOODLETT RICHARD W. MOORE ANGELA R. MORRISON MARIBEL N. NICHOLSON LAURA BOYD PEARCE GARY V. PERKO MICHAEL F. FL...

DOUGLAS S. ROBER
JULIE B. ROME
KRISTIN C. RUBIN
RECELIA C. SMITH
OF COUNSEL
W. ROBERT FOKES

DIVISION
OF COUNSEL
W. ROBERT FOKES MICHAEL P. PETROVICH DOUGLAS S. ROBERTS

June 22, 1992

Daniel H. Thompson, Esquire Office of General Counsel Florida Department of Environmental Regulation 2600 Blair Stone Road, Room 654 Tallahassee, Florida 32399-2400

Orlando CoGen Limited, L.P.

Air Construction Permit No. AC 48-206720;

PSD-FL-187; Orange County

Dear Mr. Thompson:

CARLOS ALVAREZ

JAMES S. ALVES

BRIAN H. BIBEAU

KATHLEEN BLIZZARD

WILLIAM L. BOYD, IV

THOMAS M. DEROSE WILLIAM H. GREEN

WADE L. HOPPING FRANK E. MATTHEWS RICHARD D. MELSON WILLIAM D. PRESTON CAROLYN S. RAEPPLE GARY P. SAMS ROBERT P. SMITH

CHERYL G. STUART

ELIZABETH C. BOWMAN

RICHARD S. BRIGHTMAN

PETER C. CUNNINGHAM

On June 8, 1992, Orlando CoGen Limited, L.P. ("Orlando CoGen") received the Department's notice of "Intent to Issue" the referenced air construction permit, with the associated "Technical Evaluation and Preliminary Determination" and proposed permit for a 129 megawatt combined cycle cogeneration project to be located in Orange County, Florida. These documents were transmitted by letter dated June 5, 1992 and signed by Clair Fancy, Chief of the Department's Bureau of Air Regulation. Pursuant to Florida Administrative Code Rule 17-103.155 and the "Intent to Issue", Orlando CoGen has until June 22, 1992 in which to file a petition for administrative proceedings regarding the Department's proposed action.

I am writing on behalf of Orlando CoGen to request, pursuant to Florida Administrative Code Rule 17-103.070, an extension of sixty (60) days, to and including August 21, 1992, in which to file a petition for administrative proceedings regarding the Department's proposed action in this matter. As good cause for granting this request for extension of time, Orlando CoGen states the following:

proposed permit contains Conditions, several of which appear to warrant clarification or correction.

Daniel H. Thompson, Esquire June 22, 1992 Page 2

- After completing review of the proposed permit, Orlando CoGen representatives intend to meet with staff of the Department's Bureau of Air Regulation to discuss their concerns and recommended revisions to the proposed permit.
- This request is filed simply as a protective to avoid waiver of Orlando CoGen's right to measure challenge the Department's proposed action through initiation of administrative proceedings.
- Grant of this request will not prejudice either party, but will further their mutual interests by affording an opportunity to resolve all issues regarding the proposed permit without resort to formal administrative proceedings.

I hereby certify that I have discussed this request with Bruce Mitchell of the Department's Bureau of Air, Regulation and that he is in agreement with the grant of this request.

Accordingly, I hereby respectfully request an order extending the time for filing of a petition administrative proceedings regarding the Department Department's proposed action on the referenced air construction permit to and including August 21, 1992.

Respectfully submitted,

Peter C. Cunningham

Counsel for Orlando CoGen

Limited, L.P.

OrlandoLtr:PCC/qbb

CC: Preston Lewis

Bruce Mitchell Pat Comer, Esquire

Gary Kinsey Ken Kosky,

C. Holladay
C. Holladay
C. Collens, C. Vist
D. Nester, OCEPD
C. Harper, EPA
C. Hawr, NPS
CHF/PL

7201 Hamilton Boulevard Allentown, Pennsylvania 18195-1501

RECEIVED

17 June 1992

JUN 2 9 1992

Division of Air Resources Management

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Subject: Proof of Publication for Notice of Intent to Issue Permit

Orlando CoGen Limited, L.P. Project, Orange County

DER File No. AC 48-206720; PSD-FL-184

Attention: Mr. Preston Lewis

Please find enclosed the original copy of the proof of publication for the Notice of Intent to Issue Permit for the subject project. This notice was published in the Friday, 12 June 1992 edition of the Orlando Sentinel newspaper. Please include this document in the DER project file.

If you have any questions or need additional information, please call me at (215) 481-4029.

Sincerely

Gary D. Kinsey, P.E. Environmental Engineer

cc: P. Cunningham, Esq., HBG&S

K. Kosky, P.E., KBN

The Orlando Sentinel

Published Daily	
\$219.19	

State of Florida COUNTY OF ORANGE

Commission # CC042971

Before the undersigned authority personally appeared
that he/she is the Legal Advertising Representative of The Orlando Sentinel, a daily newspaper published at
County Florida:
that the attached copy of advertisement, being a National Association in the matter of SC 48-20-20
in thelas A gard Court,
was published in said newspaper in the issue; of
Affiant further says that the said Orlando Sentinel is a newspaper published at
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.
Avenue Partico
The foregoing instrument was acknowledged before me this 12th day of
June , 19 92 , by JUANITA ROSADO /
who is personally known to me and who did take an oath.
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No. R. Latern
Notary Public State of Florida
My commission expires August 28, 1994
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NOTICE OF INTENT NOTICE OF INTENT
STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
REGULATION NOTICE OF
INTENT TO ISSUE PERMIT AC 48-206720

PSO-FL-184
The Department of Environmental Regulation gives notice of its intent to issue a permit to of its Intent to issue a permit to Orlando Cogen Limited, L.P., 7201 Hamilton Boulevard, Allen-town, PA 18195-1501, to con-struct a 129 MW cogeneration facility consisting of one com-bined cycle gas turbine genera-tors and associated steam cycle. tors and associated steam cycle: tors and associated steam cycle; also, steam will be supplied to the Air Products and Chemical Plant located adjacent to the proposed site. The proposed facility will be located in the Orlando Central Park, Orange County, Florida. A determination of Best Available Control Tech. of Best Available Control Technology (BACT) was required. The Class I PM10 PSD increment consumed is 0.02 vs. 8 al-lowable 24-hour average and 0.001 vs. 4 allowable annual average, in micrograms per cu-bic meter. The Class I nitrogen dioxide increment consumed is 0.01 vs. 2.5 allowable annual average, in micrograms per cu-bic meter. The maximum predicted increases in ambient concentrations for the above three pollutants for all averaging times are less than significant in the Class II area surrounding the plant, thus no increment con-sumption was calculated. The Department is issuing this Intent to issue for the reasons stated in the Technical Evaluation and

the Technical Evaluation and Preliminary Determination.
A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must corriect their The petition must contain the in-formation set forth below and must be filed (received) in the Office of General Coursel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the sportings of the setting. petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section

The Petition shall contain the

following information;
(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and

(D) A statement of now and when each petitioner received notice of the Department's action or proposed action;
(c) A statement of how each petitioner's substantial interests are affected by the Department's

are affected by the Department's action or proposed action;

(d) A statement of the mate rial facts disputed by Petitioner,

(e) A statement of facts which petitioner contends war-rant reversal or modification of the Department's action or proposed action:

..., (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's ac-

tion or proposed action; and,
(g) A statement of the relief
sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

is a petition is filed, the administrative hearing process is de-signed to formulate agency ac-tion. Accordingly, the Depart-ment's final action may be differ-ent from the position taken by it in: this. Notice: Persons whose substantial interests that be af-facted by any decizion of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (re-ceived) within 14 days of publi-cation of this notice in the Office of General Counsel at the above address of the Department. Fai-lure to petition within the allowed time frame constitutes at waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding.

Any subsequent intervention will only be at the approval of the presiding officer-upon-motion field pursuant to Rule 28-5,207, F.A.C. The application is available for

public inspection during normal business hours, 8:00 a.m: to 5:00 p.m., Monday through Friday, except legal holidays, at: Department of Environmental Regulation

Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400 Department of Environmental

Regulation Central District

3319 Maguire Blvd., Suite 232 Orlando, FL 32803-3767

Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department's Tallahassee address. All comments received within 30 days of the publication of this notice will be considered in the Department's final determination. Further, a public hearmination. ing can be requested by any person. Such requests must be submitted within 30 days of this notice COR6B61004 Jun.12,1992