

BEFORE THE GOVERNOR AND CABINET  
STATE OF FLORIDA  
SITTING AS THE SITING BOARD

IN RE:  
APPLICATION FOR POWER PLANT  
SITE CERTIFICATION OF  
INDIANTOWN COGENERATION  
PROJECT, PA 90-31

DOAH CASE NO. 90-8072EPP

FINAL ORDER APPROVING CERTIFICATION

On February 4, 1992, this matter came before the Governor and Cabinet, sitting as the Siting Board, pursuant to the Florida Electrical Power Plant Siting Act (PPSA), Section 403.501, et seq., Florida Statutes (1991), for final agency action concerning a Recommended Order dated December 24, 1991, attached as Exhibit 1, which recommends site certification for the Indiantown Cogeneration Project Power Plant. On September 24, 1991, the Board adopted a previous Recommended Order in this case which concluded that the proposed project was consistent with all applicable zoning ordinances and land use plans. The Public Service Commission entered a Final Order certifying the need for the proposed project on March 21, 1991.

No exceptions to the Recommended Order have been filed. Having reviewed the Recommended Order and having otherwise been fully advised, it is ORDERED:

1. Pursuant to Section 120.57(1)(b)10, Florida Statutes (1991), the Recommended Order dated December 24, 1991, (Exhibit 1) is APPROVED and ADOPTED by the Board.

2. The Board hereby APPROVES certification of the location, construction, and operation of the Indiantown Cogeneration Project at the proposed site, subject to the Conditions of Certification contained in Appendix A of Exhibit 1.

3. The Board hereby DELEGATES to the Department of Environmental Regulation the authority to assure and enforce compliance by Indiantown Cogeneration Partnership and its agents with all of the Conditions of Certification.

NOTICE OF RIGHTS

Any party to this certification proceeding has the right to seek judicial review of this Order pursuant to Section 120.68, Florida Statutes, by the filing of a notice of appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Siting Board in the Department of Environmental Regulation Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy with the appropriate District Court of Appeal. The notice of appeal must be filed within 30 days from the date this Final Order is filed with the Clerk of the Siting Board.

DONE and ORDERED this 6<sup>th</sup> day of February, 1992, in Tallahassee, Florida, pursuant to the vote of the Governor and Cabinet sitting as the Siting Board, at a duly-noticed and constituted Cabinet meeting on February 4, 1992.

THE GOVERNOR AND CABINET  
SITTING AS THE SITING BOARD

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

BY: *Lawton Chiles*  
THE HONORABLE LAWTON CHILES

*Andy C. Carter* 2-7-92  
Clerk Date

Indiantown Cogeneration Project  
DER Case No. PA 90-31  
DOAH Case No. 90-8072EPP

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## PART II

### DEPARTMENT OF ENVIRONMENTAL REGULATION

#### (1) AIR

The construction and operation of the Indiantown Cogeneration Project (ICP) shall be in accordance with all applicable provisions of Chapter 17-2, 17-256, and 17-702, Florida Administrative Code, except for SO<sub>2</sub> and NO<sub>x</sub> during startup, shutdown, and malfunction, then 40CFR60 shall apply.

##### A. Construction

###### 1. General

a. Construction shall reasonably conform to the plans and schedule given in the application.

b. The permittee shall report any delays in construction and completion of the project which would delay commercial operation by more than 90 days to the DER Southeast District office in West Palm Beach.

###### 2. Equipment Identification

The Licensee shall submit at least four copies of complete information as to the make and model numbers of the selected pulverized coal and auxiliary boilers, all pollution control and continuous emissions monitoring devices, operation and maintenance manuals and calibration procedures, updated process flow diagrams showing mass/energy/heat balances and ammonia injector locations and rates, and related equipment, to the DER Bureau of Air Regulation at least 90 days prior to commencing on-site construction of that particular item.

###### 3. Stack Height and Design

The height of the boiler exhaust stack for ICL shall not be less than 495 ft. above grade. Detailed stack drawings showing sampling locations shall be submitted to the DER Bureau of Air Regulation at least 90 days prior to commencing on-site construction of the affected equipment or feature.

###### 4. Fugitive Dust and Odors

The Licensee shall employ proper odor and dust-control techniques to minimize odor and fugitive dust emissions. Precautions to prevent fugitive particulate emissions during construction shall be to coat the roads and construction sites used by contractors, regrass or water areas of disturbed soils. Control techniques shall be sufficient to prevent nuisance conditions on adjoining property.

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## 5. Open Burning

Open burning in connection with initial land clearing shall be in accordance with Chapter 17-256, F.A.C., Chapter 5I-2, F.A.C., Uniform Fire Code Section 33.101 Addendum, and any other applicable regulations of Martin or Okeechobee Counties, as applicable.

No open burning of construction generated material, after initial land clearing shall be allowed.

### B. Operation

#### 1. Boilers

The Pulverized Coal (PC) boiler is permitted to operate at a maximum of 3422 MMBtu/hr heat input (nominal 330 MW). This facility shall be allowed to operate continuously (8,760 hrs/yr). In addition to the PC boiler, the facility has an auxiliary boiler rated at up to 342 MMBtu/hr (#2 Fuel Oil) and 358 MMBtu/hr (Natural Gas or propane) which operates a maximum of 5,000 hours with up to 1000 hrs/yr on #2 Fuel Oil and the balance on natural gas or propane.

#### 2. Emissions Limitations

##### a. Pulverized Coal Boiler

Based on a permitted heat input of 3422 MMBTU/hr heat input, the stack emissions from the main boiler shall not exceed any of the following limitations:

##### i. Combustion Emissions

Pollutant	Basis lb/MMBtu	Emission Limitation	
		lb/hr	TPY
SO <sub>2</sub>	0.170	582*	2549
NO <sub>x</sub>	0.170	582*	2549
PM	0.018	61.6	270
PM <sub>10</sub>	0.018	61.6	270
CO	0.110	376*	1649
VOC at 7% O <sub>2</sub>	0.0036	12.30	54
H <sub>2</sub> SO <sub>4</sub>	0.0004	1.450	6.350
Beryllium	0.00000273	0.0093	0.041

Mercury	0.0000114	0.039	0.172
Lead	0.0000187	0.064	0.280
Fluorides	0.002	7.26	22.26
Arsenic	0.0000511	0.175	0.765

\*24 hour daily block average (midnight to midnight)

ii. NH<sub>3</sub> (Ammonia) - Slip from exhaust gases shall not exceed 50 ppmv.

iii. \*VE (Visible Emissions)

- VE from each baghouse exhaust shall not exceed 10% opacity (six minute average).

- No VE during lime silo loading operations (i.e., less than 5% opacity).

- VE from the ash handling baghouse shall not exceed a particulate limit of 0.010 grains/acf and VE of 5% opacity.

b. Auxilliary Boiler

The auxilliary boiler, rated at up to 358 MMBtu/hr (Natural Gas and propane) and 342 MMBtu/hr (#2 Fuel Oil), shall be limited to a maximum of 5000 hours/year with up to 1000 hrs/yr firing #2 fuel oil with 0.05% sulfur, by weight, and the balance firing natural gas or propane. The maximum annual emissions will be as follows when firing #2 fuel oil:

MAXIMUM EMISSIONS

<u>Pollutant</u>	<u>lbs/hr</u>	<u>tons/year</u>
NO <sub>x</sub>	68.4	34
SO <sub>2</sub>	17.8	9
PM	1.40	0.70
PM <sub>10</sub>	1.40	0.70
CO	47.30	24
VOC	0.63	0.31
Be	4.1 x 10 <sup>-5</sup>	2.0 x 10 <sup>-5</sup>
Hg	5.1 x 10 <sup>-4</sup>	2.6 x 10 <sup>-4</sup>
Pb	3.6 x 10 <sup>-2</sup>	1.8 x 10 <sup>-2</sup>
As	6.8 x 10 <sup>-3</sup>	3.4 x 10 <sup>-3</sup>

12/09/91

c. Particulate emissions from the coal, and limestone handling facilities:

i) All conveyors and conveyor transfer points will be enclosed to preclude PM emissions (except those directly associated with the coal stacker/reclaimer for which an enclosure is operationally infeasible). Fugitive emission shall be tested as specified in conditions 1.B.2.e.

ii) Inactive coal storage piles shall be shaped, compacted, and oriented to minimize wind erosion, and covered.

iii) Water sprays or chemical wetting agents and stabilizers shall be applied to uncovered storage piles, roads, handling equipment, etc. during dry periods and as necessary to all facilities to maintain an opacity of less than or equal to 5 percent, except when adding, moving or removing coal from the coal pile, which would be allowed no more than 20%.

iv) The lime handling system including the lime silos shall be maintained at a negative pressure while operating and the exhaust vented to a control system.

v) The fly ash handling system (including transfer and silo storage) shall be totally enclosed and vented (including pneumatic system exhaust) through fabric filters; and

vi) The Licensee shall submit to the Department, Bureau of Air Regulation in Tallahassee within thirty (30) days after it becomes available, copies of technical data pertaining to the selected particulate emissions control for the coal, and lime handling facilities. These data shall include, but not be limited to guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of any such device if the Department determines the selected control device to be inadequate to meet the emission limits specified in COC-(1)B.2.d. below. Such disapproval shall be issued within 30 days of receipt of the technical data.

d. Particulate emissions from bag filter exhausts from the following facilities shall be limited to 0.010 gr/acf: coal, lime and flyash handling systems. A visible emission reading of 5% opacity or less may be used to establish compliance with this emission limit. A visible emission reading greater than 5% opacity will not create a presumption that the 0.010 gr/acf emission limit is being violated. However, a visible emission reading greater than 5% opacity will require the permittee to perform a stacktest, as