



September 3, 1997

Clair H. Fancy, Chief  
Bureau of Air Regulation  
Florida Department of Environmental Protection  
2600 Blair Stone Road, MS 5505  
Tallahassee, FL 32399-2400

RE: C.D. McIntosh, Jr. Power Plant  
Title V Permit Application No. 1050004-003-AV  
Polk County, Florida

Dear Clair:

Pursuant to Rule 62-4.050 and 62-213 Florida Administrative Code, the Lakeland Electric and Water Utilities hereby submits to the Florida Department of Environmental Protection's Bureau of Air Regulation (Department) a revision to the Title V permit application, in quadruplicate, for the C.D. McIntosh Jr. Power Plant. This submittal include replacement of segment information pages for units ID 001 (unit 1), 005 (unit 2), ID 006 (unit 3), and the two diesel peaking units 2 and 3. Additionally, you will find enclosed two diskettes (electronic data submittal) containing all requested modification to this application. The enclosed document has been signed and sealed by Mr. Ken Kosky, P.E. of Golder Associates, Inc. and certified by Lakeland's Responsible Official Mr. Ronald W. Tomlin, Assistant Managing Director.

Sincerely

Farzie Shelton  
Manager of Environmental Permitting & Compliance  
Production Division

Enc.

**RECEIVED**

SEP 04 1997

BUREAU OF  
AIR REGULATION

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official:

**Ronald W. Tomlin, Assistant Managing Director**

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: **Lakeland Electric & Water Utilities**

Street Address: **501 East Lemon Street**

City: **Lakeland**

State: **FL**

Zip Code: **33801-5079**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: **(941) 499-6300**

Fax: **(941) 499-6344**

4. Owner/Authorized Representative or Responsible Official Statement:

*I, the undersigned, am the owner or authorized representative\* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Ronald W. Tomlin

Signature

8-14-97

Date

\* Attach letter of authorization if not currently on file.

4. Professional Engineer's Statement:

*I, the undersigned, hereby certify, except as particularly noted herein\*, that:*

*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

*If the purpose of this application is to obtain a Title V source air operation permit (check here [  ] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [  ] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [  ] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

*Hermod F. Galy*

Signature

(Seal)

Date

*12 August 1997*

Attach any exception to certification statement.

Segment Description and Rate: Segment  2  of  5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Natural Gas</b>	
2. Source Classification Code (SCC): <b>1-01-006-01</b>	
3. SCC Units: <b>Million Cubic Feet</b>	
4. Maximum Hourly Rate: <b>0.97</b>	5. Maximum Annual Rate: <b>8,497</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,024</b>	
10. Segment Comment (limit to 200 characters): <b>Maximum hourly rate based on maximum heat input.</b>	

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Propane</b>	
2. Source Classification Code (SCC): <b>1-01-010-02</b>	
3. SCC Units: <b>1,000 gallons</b>	
4. Maximum Hourly Rate: <b>10.88</b>	5. Maximum Annual Rate: <b>95,344</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>91</b>	
10. Segment Comment (limit to 200 characters): <b>Million Btu per SCC Unit = 90.5 (rounded to 91). Maximum hourly rate based on maximum heat input of 985 MMBtu/hr. Fuel does not increase emissions of any pollutant.</b>	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 5 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Distillate (No. 2) Oil</b>	
2. Source Classification Code (SCC):  <b>1-01-005-01</b>	
3. SCC Units:  <b>1,000 gallons</b>	
4. Maximum Hourly Rate:  <b>7.3</b>	5. Maximum Annual Rate:  <b>63,912</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>0.5</b>	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:  <b>135</b>	
10. Segment Comment (limit to 200 characters):  <b>Maximum Hourly Rate based on maximum heat input for oil firing. Unit can be co-fired with other fuels. Fuel does not increase emissions of any pollutant.</b>	

**Segment Description and Rate:** Segment 2 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Natural Gas</b>	
2. Source Classification Code (SCC): <b>1-01-006-01</b>	
3. SCC Units: <b>Million Cubic Feet</b>	
4. Maximum Hourly Rate: <b>1.16</b>	5. Maximum Annual Rate: <b>10,133</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,024</b>	
10. Segment Comment (limit to 200 characters): <b>Maximum hourly rate based on maximum heat input.</b>	

**Segment Description and Rate:** Segment 4 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Propane</b>	
2. Source Classification Code (SCC): <b>1-01-010-02</b>	
3. SCC Units: <b>1,000 gallons</b>	
4. Maximum Hourly Rate: <b>13.09</b>	5. Maximum Annual Rate: <b>114,703</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>91</b>	
10. Segment Comment (limit to 200 characters): <b>Million Btu per SCC Unit = 90.5 (rounded to 91). Maximum hourly rate based on maximum heat input. Fuel does not increase emissions of any pollutant.</b>	



Segment Description and Rate: Segment 4 of 7

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Distillate (No.2) Oil</b>	
2. Source Classification Code (SCC): <b>1-01-005-01</b>	
3. SCC Units: <b>1,000 gallons</b>	
4. Maximum Hourly Rate: <b>26.96</b>	5. Maximum Annual Rate: <b>236,196</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: <b>0.5</b>	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>135</b>	
10. Segment Comment (limit to 200 characters): <b>Maximum Hourly Rate based on maximum input of unit. Fuel does not increase emissions of any pollutant.</b>	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 7 of 7

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Propane</b>	
2. Source Classification Code (SCC):  <b>1-01-010-02</b>	
3. SCC Units:  <b>1,000 gallons</b>	
4. Maximum Hourly Rate:  <b>40.22</b>	5. Maximum Annual Rate:  <b>352,336</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:  <b>91</b>	
10. Segment Comment (limit to 200 characters):  <b>Million Btu per SCC Unit = 90.5 (rounded to 91). Fuel does not increase emissions of any pollutant.</b>	

**C. EMISSIONS UNIT DETAIL INFORMATION**  
(Regulated Emissions Units Only)

**Emissions Unit Details**

1. Initial Startup Date: <b>1 Jan 1970</b>		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	<b>5 MW</b>	
5. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	<b>28</b>	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
<p><b>Maximum heat input is for each diesel peaking unit. Represents previously permitted fuel input. These units have not been modified as defined in Rule 62-210.200 F.A.C.</b></p>		

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/yr	<b>8,760</b> hours/yr