

# Farmland Hydro, L.P.

Charles W. Jenkins  
 Manager of Environmental and Safety Services



Green Bay Plant  
 County Road 640  
 Post Office Box 960  
 Bartow, Florida 33831  
 Tele: 941 533-1141  
 Fax: 941 533-8793

May 12, 1997

Mr. A. A. Linero  
 Florida Department of Environmental Protection  
 Bureau of Air Regulations  
 2600 Blairstone Road  
 Tallahassee, FL 32399-2400

**RECEIVED**  
 MAY 21 1997  
 BUREAU OF  
 AIR REGULATION

RE: **Application for Minor Revision to Construction Permit AC53-210886 and Amendment to Title V Application Facility No. 1050053**

Dear Mr. Linero;

Enclosed please find a check in the amount of \$250.00 and four copies of a Long Form Air Permit Application to make a minor change to the North Granulation Plant Construction Permit issued in mid 1992, # AC53-210886. This permit covers a normal granulated fertilizer production facility with two separate stacks and the capability to produce either granular MAP or DAP. One stack is for the reaction and granulation functions and the other to vent the gasses from the dryer, screens and mills and cooler. Our most recent North Granulation Plant stack compliance test involving the production of granular MAP yielded the following results for the pollutant fluoride:

*2 MAP SWD  
 1 DAP AC53-210886  
 L DAP Dryer  
 Filed 6/6/95*

*MAP/DAP FILE-N  
 Issued 7/27/92*

RUN #	Dryer/Cooler Screen & Mills F - lb/hr	Reactor/Gran. Stack F - lb/hr	Total Plant	
			lb/hr	lb/ton
1	0.474	1.990	2.464	0.039
2	0.378	1.912	2.290	0.036
3	0.346	2.318	2.664	0.042
Ave.	0.400	2.073	2.473	0.039
Total Plant Permitted			3.740	0.060

*63.2  
 62.6  
 62.4  
 62.4  
 120*

Our problem is that the original Construction Permit AC53-210886 and the subsequent Operating Permit AO53-250142 contain an allocation for fluoride of 1.87 pounds per hour for each of these stacks. This allocation estimate was made based on best engineering judgment at the time. It was understood by us that the allocation of fluorides could be changed later based on actual test data. This is not considered to be a significant issue, as the applicable standard is the NSPS of 0.06 pounds per ton of P<sub>2</sub>O<sub>5</sub> fed.

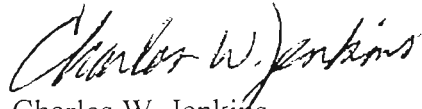
*MAP/DAP FILE-N Issued 9/14/94  
 8/24/95*



It is our hope that we can have the existing permit and Title V application amended to remove individual stack allocations of fluoride and **make the permit reflect a combined limit**. As I understand, the FDEP has agreed, in principle, to remove requirements from existing permits which have **no rule basis** and which do not affect rule applicability.

If you have any questions, please give me a call at (941) 533-1141, extension 334.

Sincerely,



Charles W. Jenkins  
Manager of Environmental and Safety Services

CWJ:jp\120-97  
enclosures

cc Merle Farris



# Department of Environmental Protection

## DIVISION OF AIR RESOURCES MANAGEMENT APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(2)

### I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and the professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

**Identification of Facility Addressed in This Application**

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.


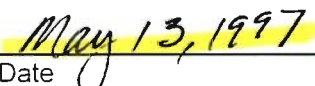
1. Facility Owner/Company Name: <b>Farmland Hydro, L.P.</b>	
2. Site Name: <b>Green Bay Plant</b>	
3. Facility Identification Number: <b>1050053</b>	[ ] Unknown
4. Facility Location: Street Address or Other Locator: <b>4390 CR 640 West</b> City: <b>Bartow</b> County: <b>Polk</b> Zip Code: <b>33830</b>	
5. Relocatable Facility? [ ] Yes [ <b>X</b> ] No	6. Existing Permitted Facility? [ <b>X</b> ] Yes [ ] No

**Application Processing Information (DEP Use)**

1. Date of Receipt of Application:	<b>May 21, 1997</b>
2. Permit Number:	<b>1050053-015-AC</b>
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

*EU NO. 029*

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official:  <b>C. M. Farris, Vice President of Operations</b>
2. Owner/Authorized Representative or Responsible Official Mailing Address:  Organization/Firm: <b>Farmland Hydro, L.P.</b> Street Address: <b>4390 CR 640 W</b> City: <b>Bartow</b> State: <b>FL</b> Zip Code: <b>33830</b>
3. Owner/Authorized Representative or Responsible Official Telephone Numbers:  Telephone: <b>( 941 ) 533-1141</b> Fax: <b>( 941 ) 533 - 8793</b>
4. Owner/Authorized Representative or Responsible Official Statement:  <i>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 unit 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.</i>   _____ Signature   _____ Date

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



**Purpose of Application and Category**

Check one (except as otherwise indicated):

**Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.**

This Application for Air Permit is submitted to obtain:

Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: \_\_\_\_\_

Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operating permit to be renewed: \_\_\_\_\_

Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: \_\_\_\_\_

Operating permit to be revised: \_\_\_\_\_

Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with air construction permit application. Also check Category III.

Operation permit to be revised/corrected: \_\_\_\_\_

Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operating permit to be revised: AO53-250142

Reason for revision: \_\_\_\_\_

\_\_\_\_\_

**Category II: All Air Operation Permit Applications Subject to Processing Under Chapter 62-210.300(2)(b), F.A.C.**

This Application for Air Permit is submitted to obtain:

- Initial air operation permit under Chapter 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s): \_\_\_\_\_

- Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed: \_\_\_\_\_

- Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified units.

Operating permit to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_

**Category III: All Air Construction Permit Applications for All Facilities and Emissions Units**

- Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any: \_\_\_\_\_

- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s): \_\_\_\_\_

- Air construction permit for one or more existing, but unpermitted, emissions units.

**Application Processing Fee**

Check one:

Attached - Amount: \$ \$250.00

Not Applicable.

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

Removal of individual fluoride allocations for the two stacks and the imposition of a combined limit for the North Granulation Plant.

2. Date of Commencement of Construction:

NA

3. Projected Date of Completion of Construction:

**Professional Engineer Certification**

1. Professional Engineer Name: UK Custred, P.E.

Registration Number: 8166

2. Professional Engineer Mailing Address:

Organization/Firm: Farmland Hydro, L.P.

Street Address: PO Box 960

City: Bartow

State: FL

Zip Code: 33831

3. Professional Engineer Telephone Numbers:

Telephone: (941) 533-1141

Fax: (941) 533-8793





**Application Contact**

1. Name and Title of Application Contact:			
<b>Charles Jenkins, Manager of Environmental and Safety Services</b>			
2. Application Contact Mailing Address:			
Organization/Firm:	<b>Farmland Hydro, L.P.</b>		
Street Address:	<b>PO Box 960</b>		
City:	<b>Bartow</b>	State:	<b>FL</b> Zip Code: <b>33831</b>
3. Application Contact Telephone Numbers:			
Telephone:	<b>(941) 533 - 1141</b>	Fax:	<b>(941) 533- 8793</b>

**Application Comment**

**Minor modification of existing permit.**

**Change Specific Condition No. 12 From:**

A. <b>MAP Production</b> - Allowable Fluoride Emissions	- Main Stack 1.87 lbs/hr
	- R/G Stack 1.87 lbs/hr
	- Plant Total 3.74 lbs/hr
B. <b>DAP Production</b> - Allowable Fluoride Emissions	- Main Stack 1.60 lbs/hr
	- R/G Stack 1.16 lbs/hr
	- Plant Total 2.76 lbs/hr

**Change Specific Condition No. 12 To:**

A. <b>MAP Production</b> - Allowable Fluoride Emissions	- Plant Total 3.74 lbs/hr
B. <b>DAP Production</b> - Allowable Fluoride Emissions	- Plant Total 2.76 lbs/hr

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: <b>17</b> East (km): <b>409.50</b> North (km): <b>3080.10</b>			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): <b>27° 50' 39"</b> Longitude (DD/MM/SS): <b>81° 56' 26"</b>			
3. Governmental Facility Code:	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>28</b>	6. Facility SIC(s): <b>2874</b>
7. Facility Comment (limit to 500 characters):  <b>Phosphate Fertilizer Manufacturing Plant</b>			

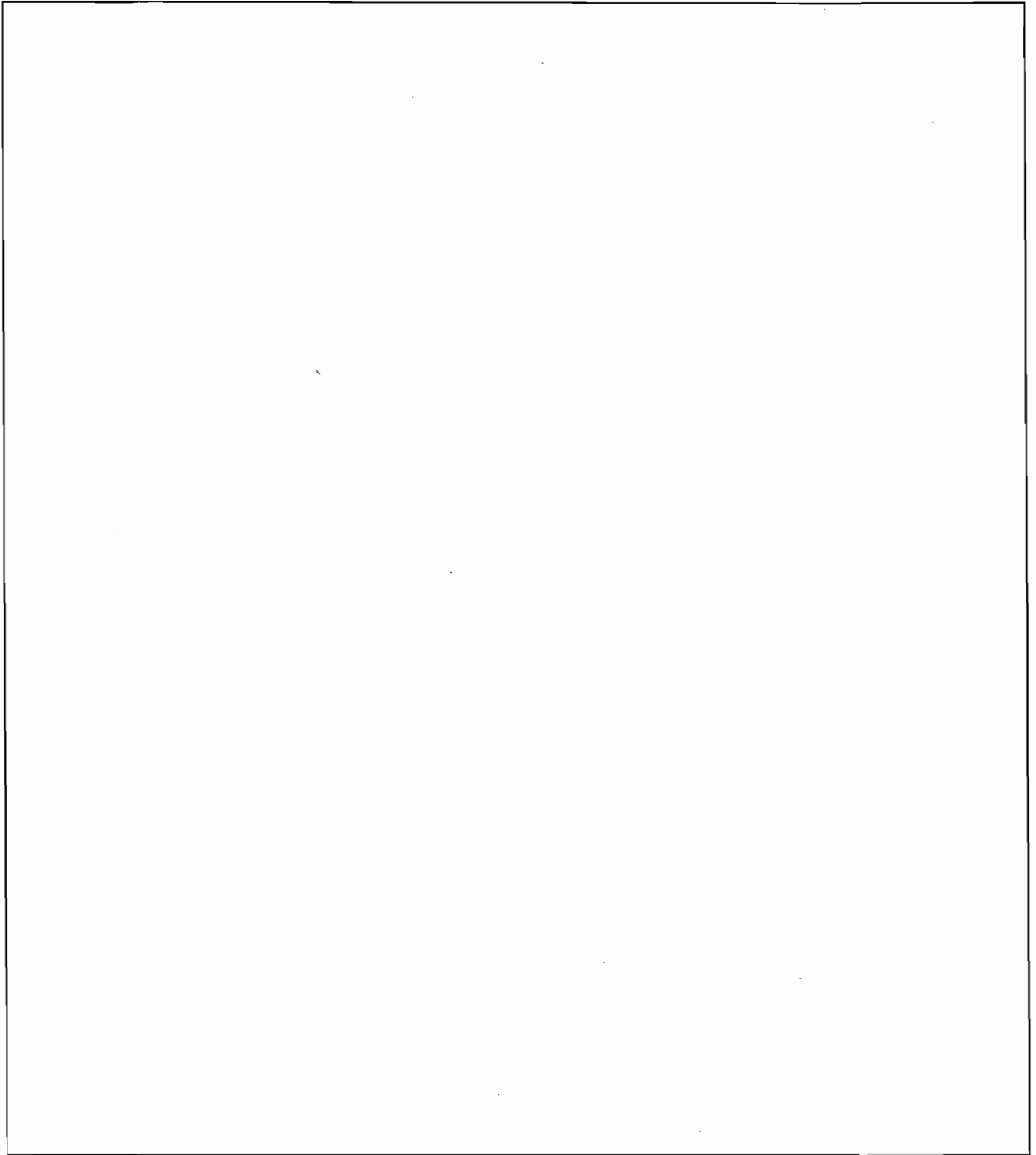
#### Facility Contact

1. Name and Title of Facility Contact: <b>Charles Jenkins, Manager of Environmental &amp; Safety Servs.</b>			
2. Facility Contact Mailing Address: Organization/Firm: <b>Farmland Hydro, L.P., Green Bay Plant</b> Street Address: <b>PO Box 960</b> City: <b>Bartow</b> State: <b>FL</b> Zip Code: <b>33831</b>			
3. Facility Contact Telephone Numbers: Telephone: <b>(941) 533-1141</b> Fax: <b>(941) 533-8793</b>			

**Facility Regulatory Classifications**

1. Small Business Stationary Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
2. Title V Source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Synthetic Non-Title V Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Synthetic Minor Source of Pollutants Other than HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Major Source of Hazardous Air Pollutants (HAPs)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Possible
7. Synthetic Minor Source of HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. One or More Emissions Units Subject to NSPS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9. One or More Emissions Units Subject to NESHAP? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10. Title V Source by EPA Designation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. Facility Regulatory Classification Comment:

**Rule Applicability Analysis** (Required for Category II applications and Category III applications involving non Title-V sources. See instructions.)



**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See instructions.)

<b>FDEP Core List</b>	

**Facility Pollutant Information**

1. Pollutant Emitted	2. Pollutant Classification
N/A	

**D. FACILITY POLLUTANT DETAIL INFORMATION**

**Facility Pollutant Detail Information:** Pollutant \_\_\_\_\_ of \_\_\_\_\_

1. Pollutant Emitted: <b>N/A</b>
2. Requested Emissions Cap: _____ (lb/hour) _____ (tons/year)
3. Basis for Emissions Cap Code:
4. Facility Pollutant Comment (limit to 400 characters):

**Facility Pollutant Detail Information:** Pollutant \_\_\_\_\_ of \_\_\_\_\_

1. Pollutant Emitted: <b>N/A</b>
2. Requested Emissions Cap: _____ (lb/hour) _____ (tons/year)
3. Basis for Emissions Cap Code:
4. Facility Pollutant Comment (limit to 400 characters):



## E. FACILITY SUPPLEMENTAL INFORMATION

### Supplemental Requirements for Applications

1.	Area Map Showing Facility Location:	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
2.	Facility Plot Plan:	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
3.	Process Flow Diagram(s):	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested
5.	Fugitive Emissions Identification:	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested
6.	Supplemental Information for Construction Permit Application:	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested

### Additional Supplemental Requirements for Category I Applications Only

7.	List of Proposed Exempt Activities:	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
8.	List of Equipment/Activities Regulated under Title V:	<input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable	
9.	Alternative Methods of Operation:	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable
10.	Alternative Modes of Operation (Emissions Trading):	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable

<p>11. Identification of Additional Requirements:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>12. Compliance Assurance Monitoring Plan:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>13. Risk Management Plan Verification:</p> <p><input type="checkbox"/> Plan Submitted to Implementing Agency - Verification Attached, Document ID: _____</p> <p><input type="checkbox"/> Plan to be Submitted to Implementing Agency by Required Date</p> <p><input type="checkbox"/> Not Applicable</p>
<p>14. Compliance Report and Plan:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>15. Compliance Certification (Hard-copy Required):</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>

### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for submitted as part of this application.

#### A. TYPE OF EMISSION UNIT (Regulated and Unregulated Emissions Units)

##### Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

- This emissions unit addresses in this Emissions Unit Information Section is a regulated emissions unit.
- This emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group Process, or Fugitive Only? Check one:

- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

**B. GENERAL EMISSIONS UNIT INFORMATION  
(Regulated and Unregulated Emissions Units)**

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>North Granulation Plant</b>		
2. Emissions Unit Identification Number: <b>029</b> [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? [ ] Yes [ <b>X</b> ] No	5. Emissions Unit Major Group SIC Code: <b>28</b>
6. Emissions Unit Comment (limit to 500 characters):		

**Emissions Unit Control Equipment**

**A.**

1. Description (limit to 200 characters):  <b>Dry cyclonic separators for the particulate gas streams.</b>
2. Control Device or Method Code: <b>008</b>

**B.**

1. Description (limit to 200 characters):  <b>Venturi style scrubbers for the reactor/granulator and cooler gases.</b>
2. Control Device or Method Code: <b>053</b>

**C.**

1. Description (limit to 200 characters):  <b>Cross-flow scrubber for the dryer and the screening/milling gasses.</b>
2. Control Device or Method Code: <b>013</b>

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

**Emissions Unit Details**

1. Initial Startup Date: <b>September, 1992</b>		
2. Long-term Reserve Shutdown Date: <b>NA</b>		
3. Package Unit: <b>NA</b>		
Manufacturer:	Model Number:	
4. Generator Nameplate Rating: <b>NA</b>	<b>MW</b>	
5. Incinerator Information: <b>NA</b>		
Dwell Temperature:	°F	
Dwell Time:	seconds	
Incinerator Afterburner Temperature:	°F	

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	mmBtu/hr	<b>50</b>
2. Maximum Incineration Rate: <b>NA</b>	lb/hr	tons/day
3. Maximum Process or Throughput Rate: <b>NA</b>		
4. Maximum Production Rate: <b>100 Metric Tons Per Hour of DAP and 120 TPH of MAP</b>		
5. Operating Capacity Comment (limit to 200 characters):		

**Emissions Unit Operating Schedule**

Requested Maximum Operating Schedule:			
<b>24</b>	hours/day	<b>7</b>	days/week
<b>52</b>	weeks/year	<b>8,760</b>	hours/year

**D. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**Rule Applicability Analysis** (Required for Category II applications and Category III applications involving non Title-V sources. See instructions.)

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See instructions.)

<b>FDEP Core List</b>	



E. EMISSIONS POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: <b>North Granulation Plant Dryer/Cooler/Screens &amp; Mills Stack and Reactor/Granulator Stack</b>	
2. Emissions Point Type Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Description of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):          	
4. ID Numbers or Description of Emissions Units with this Emission Point in Common: <b>N/A</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>128 / 116.5</b> feet
7. Exit Diameter:	<b>7.5 / 5.5</b> feet
8. Exit Temperature:	<b>117 / 120</b> °F

9. Actual Volumetric Flow Rate:	<b>170,000 / 65,000</b>	acfm
10. Percent Water Vapor:	<b>8 / 72</b>	%
11. Maximum Dry Standard Flow Rate:	<b>148,500 / 18,200</b>	dscfm
12. Nonstack Emission Point Height:	N/A	feet
13. Emission Point UTM Coordinates:		
Zone:	East (km):	North (km):
14. Emission Point Comment (limit to 200 characters):		

Emissions Unit Information Section 1 of 1

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

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process Fuel Type and Associated Operating Method/Mode) <b>DAP/MAP production utilizing a natural gas fired drying burner which can be fired using # 2 diesel fuel oil or propane if needed.</b>	
2. Source Classification Code (SCC) <b>3-01-030-01</b>	
3. SCC Units: <b>Tons Produced or Manufactured</b>	
4. Maximum Hourly Rate: <b>100 tons/hour DAP or 120 tons hour MAP</b>	5. Maximum Annual Rate: <b>876,000 tons DAP / 1,051,200 tons MAP</b>
6. Estimated Annual Activity Factor: <b>NA</b>	
7. Maximum Percent Sulfur: <b>NA</b>	8. Maximum Percent Ash: <b>NA</b>
9. Million Btu Per SCC Unit: <b>NA</b>	
10. Segment Comment (limit to 200 characters):	

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters) <p style="text-align: center;">N/A</p>	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu Per SCC Unit:	
10. Segment Comment (limit to 200 characters):	



**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION  
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

**Pollutant Detail Information: Pollutant 1 of 3**

1. Pollutant Emitted:	<b>PM</b>				
2. Total Percent Efficiency of Control:	<b>90+</b> %				
3. Potential Emissions:	<table style="width:100%; border: none;"> <tr> <td style="width:50%; text-align: center;">lb/hour</td> <td style="width:50%; text-align: center;">tons/year</td> </tr> <tr> <td style="text-align: center;"><b>16.1 / 22.5</b></td> <td style="text-align: center;"><b>70.5 / 98.6</b></td> </tr> </table>	lb/hour	tons/year	<b>16.1 / 22.5</b>	<b>70.5 / 98.6</b>
lb/hour	tons/year				
<b>16.1 / 22.5</b>	<b>70.5 / 98.6</b>				
4. Synthetically Limited?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Range of Estimated Fugitive/Other Emissions:	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/year				
6. Emission Factor:	<b>0.161 lb PM/ton DAP &amp; 0.1875 lb PM/ton MAP</b>				
Reference:	<b>Permit</b>				
7. Emissions Method Code:	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5				
8. Calculation of Emissions (limit to 600 characters):	<p><b>PM for DAP = 0.161 lb PM/ton DAP x 100 tph DAP = 16.1 lbs/hr</b>  <b>x 8760 hrs/year x ton/2,000 lbs = 70.5 tpy</b></p> <p><b>PM for MAP = 0.1875 lb PM/ton DAP x 120 tph MAP = 22.5 lbs/hr</b>  <b>x 8760 hrs/year x ton/2,000 lbs = 98.6 tpy</b></p>				
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	<p><b>The above emissions represent the combined emissions from the reactor/granulator system as well as dryer/cooler/screens/mills system (ref. Permit AO53-250142).</b></p>				

**Allowable Emissions** (Pollutant identified on front of page)

**A.**

1. Basis for Allowable Emissions Code:	<b>Rule</b>	
2. Future Effective Date of Allowable Emissions:	<b>N/A</b>	
3. Requested Allowable Emissions and Units:	<b>16.1 / 22.5 lbs/hour</b>	
4. Equivalent Allowable Emissions:	lb/hour <b>16.1 / 22.5</b>	tons/year <b>70.5 / 98.6</b>
5. Method of Compliance (limit to 60 characters):	<b>EPA Method 5</b>	
6. Pollutant Allowable Emissions Comment (Desc. Of Related Operating Method/Mode) (limit to 200 characters):	<b>Rule 62-296.705(2)(a), F.A.C.</b>	

**B.**

1. Basis for Allowable Emissions Code:	<b>N/A</b>	
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. Of Related Operating Method/Mode) (limit to 200 characters):		

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION  
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

**Pollutant Detail Information: Pollutant 2 of 3**

1. Pollutant Emitted:	<b>PM<sub>10</sub></b>		
2. Total Percent Efficiency of Control:	<b>90+</b>		%
3. Potential Emissions:	lb/hour	tons/year	
	<b>16.1 / 22.5</b>	<b>70.5 / 98.6</b>	
4. Synthetically Limited?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:			
<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3      _____ to _____ tons/year			
6. Emission Factor: <b>0.161 lb PM/ton DAP &amp; 0.1875 lb PM/ton MAP</b>			
Reference: <b>Permit</b>			
7. Emissions Method Code:			
<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5			
8. Calculation of Emissions (limit to 600 characters):			
<b>PM<sub>10</sub> is assumed the same as PM</b>			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):			
<b>The above emissions represent the combined emissions from the reactor/granulator system as well as dryer/cooler/screens/mills system (ref. Permit AO53-250142).</b>			



**Allowable Emissions** (Pollutant identified on front of page)

**A.**

1. Basis for Allowable Emissions Code:	N/A	
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. Of Related Operating Method/Mode) (limit to 200 characters):		

**B.**

1. Basis for Allowable Emissions Code:	N/A	
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. Of Related Operating Method/Mode) (limit to 200 characters):		

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
 (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

**Pollutant Detail Information: Pollutant 3 of 3**

1. Pollutant Emitted:	<b>Fluoride</b>		
2. Total Percent Efficiency of Control:	99+	%	
3. Potential Emissions:	2.76 / 3.74	lb/hour	12.09 / 16.38 tons/year
4. Synthetically Limited?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3     _____ to _____ tons/year		
6. Emission Factor:	0.06 lb F/ton P <sub>2</sub> O <sub>5</sub>		
Reference:	Permit		
7. Emissions Method Code:	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5		
8. Calculation of Emissions (limit to 600 characters):	<p><b>F for DAP = 0.06 lb F/ton P<sub>2</sub>O<sub>5</sub> x 46 tph DAP = 2.76 lbs/hr</b>  <b>x 8760 hrs/year x ton/2,000 lbs = 12.09 tpy</b></p> <p><b>F for MAP = 0.06 lb F/ton P<sub>2</sub>O<sub>5</sub> x 62.4 tph DAP = 3.74 lbs/hr</b>  <b>x 8760 hrs/year x ton/2,000 lbs = 16.38 tpy</b></p>		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	<p><b>The above emissions represent the combined emissions from the reactor/granulator system as well as dryer/cooler/screens/mills system (ref. Permit AO53-250142).</b></p>		

**Allowable Emissions** (Pollutant identified on front of page)

**A.**

1. Basis for Allowable Emissions Code:	<b>Rule</b>	
2. Future Effective Date of Allowable Emissions:	<b>N/A</b>	
3. Requested Allowable Emissions and Units:	<b>0.06 lb/ton of P<sub>2</sub>O<sub>5</sub></b>	
4. Equivalent Allowable Emissions:	lb/hour	tons/year
	<b>2.76 / 3.74</b>	<b>12.09 / 16.38</b>
5. Method of Compliance (limit to 60 characters):	<b>EPA Method 13B</b>	
6. Pollutant Allowable Emissions Comment (Desc. Of Related Operating Method/Mode) (limit to 200 characters):	<b>Rule 62-296.403(2), F.A.C.</b>	

**B.**

1. Basis for Allowable Emissions Code:	<b>N/A</b>	
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. Of Related Operating Method/Mode) (limit to 200 characters):		

**I. VISIBLE EMISSIONS INFORMATION  
(Regulated Emissions Units Only)**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype:	<b>VE</b>		
2. Basis for Allowable Opacity:	<input checked="" type="checkbox"/> Rule	<input type="checkbox"/> Other	
3. Requested Allowable Opacity:			
Normal Conditions:	<b>20</b> %	Exceptional Conditions:	%
Maximum Period of Excess Opacity Allowed:			min/hour
4. Method of Compliance:	<b>EPA Method 9</b>		
5. Visible Emissions Comment (limit to 200 characters):			

**Visible Emissions Limitation:** Visible Emissions Limitation \_\_\_\_\_ of \_\_\_\_\_

1. Visible Emissions Subtype:	N/A		
2. Basis for Allowable Opacity:	<input type="checkbox"/> Rule	<input type="checkbox"/> Other	
3. Requested Allowable Opacity:			
Normal Conditions:	%	Exceptional Conditions:	%
Maximum Period of Excess Opacity Allowed:			min/hour
4. Method of Compliance:			
5. Visible Emissions Comment (limit to 200 characters):			

**J. CONTINUOUS MONITOR INFORMATION  
(Regulated Emissions Units Only)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: N/A	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: N/A	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip the remaining statements.

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment..
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming Dioxide?

If the emissions unit addressed in this section emits nitrous oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check the first statement, if any, that applies and skip the remaining statements.

- The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[ ] C	[ ] E	[ ] Unknown
SO <sub>2</sub>	[ ] C	[ ] E	[ ] Unknown
NO <sub>2</sub>	[ ] C	[ ] E	[ ] Unknown
2. Baseline Emissions:			
PM	lb/hour	tons/year	
SO <sub>2</sub>	lb/hour	tons/year	
NO <sub>2</sub>	lb/hour	tons/year	
5. PSD Comment (limit to 200 character):			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1. Process Flow Diagram	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Waiver Requested
5. Compliance Test Report	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Previously submitted, Date: <u>April 17, 1997</u>	<input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	
7. Operation and Maintenance Plan	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	
8. Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	
9. Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	



**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
14. Acid Rain Application (Hard-copy Required)  <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____  <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____  <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____  <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____  <input type="checkbox"/> Not Applicable

VENDOR NO.

101890

VENDOR NAME

Farmland Hydro, L.P.  
Post Office Box 960 Bartow, Florida 33831

FHL  
NBCDA  
FHAP

CODE	CHECK NO.
IO	0000000158
DATE	PAGE
05/16/1997	1 of 1

0000000158

FLORIDA DEPT OF ENVIRONMENTAL  
FARMLAND HYDRO, L.P. ACCOUNTS PAYABLE CHECK DETAIL

B.A.	DATE	INVOICE NO.	DOCUMENT NO.	GROSS	DISCOUNT	NET
FHL Return to Joan	05/16/1997	51497	100000564	\$250.00		\$250.00
<b>RECEIVED</b> MAY 21 1997 BUREAU OF AIR REGULATION						
**Total**				\$250.00		\$250.00

DETACH VOUCHER BEFORE DEPOSITING



Farmland Hydro, L.P.  
Post Office Box 960 Bartow, Florida 33831



NationsBank, N.A. (South)  
Atlanta, Dekalb County, Georgia  
64-1278/611

NO. 0000000158

DATE	CHECK NO.
05/14/1997	0000000158

AMOUNT VOID AFTER 180 DAYS

AMOUNT
*****\$250.00

PAY EXACTLY \*\*\*\*\*250 DOLLARS AND 00 CENTS

TO  
THE  
ORDER  
OF

FARMLAND HYDRO, L.P. ACCOUNTS PAYABLE

FLORIDA DEPT OF ENVIRONMENTAL  
PROTECTION  
BUREAU OF AIR REGULATIONS  
2600 BLAIRSTONE RD  
TALLAHASSEE, FL 32399

*CM Harris*  
*Joan Redden*

