



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Eric J. Holcomb**  
Governor

**Bruno Pigott**  
Commissioner

To: Interested Parties

Date: February 17, 2017

From: Matthew Stuckey, Chief  
Permits Branch  
Office of Air Quality

Source Name: Cardinal Ethanol, LLC

Permit Level: Interim Significant Source Modification Petition

Permit Number: 135-38020I-00033

Source Location: 1554 North 600 East Union City IN 47390

Type of Action Taken: Modification at an existing source

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>  
To view the document, select Search option 3, then enter permit 38020I.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201  
100 North Senate Avenue, MC 50-07  
Indianapolis, IN 46204  
Phone: 1-800-451-6027 (ext. 4-0965)  
Fax (317) 232-8659

Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

*(continues on next page)*

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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Commissioner

Jeffrey Painter  
Cardinal Ethanol, LLC  
1554 North 600 Street East  
Union City, IN 47390

February 17, 2017

Re: Interim Significant Source Modification Petition  
Approval  
T0135-38020I-00033

Dear Mr. Painter:

On January 20, 2017, the Office of Air Quality (OAQ) received an interim Significant Source Modification petition from Cardinal Ethanol, LLC, located at 1554 North 600 Street East, in Union City, Indiana for construction of a new grain handling and ethanol recovery units.

A public notice of the interim Significant Source Modification petition was published in The News Gazette on January 25, 2017. The public comment period ended on February 7, 2017.

There were no comments received during the public comment period. This interim Significant Source Modification petition is in effect upon issuance and will expire on the effective date of the final Significant Source Modification permit.

The interim Significant Source Modification petition may be revoked after the effective date upon a written finding by the Indiana Department of Environmental Management (IDEM) that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final Significant Source Modification permit is denied. The IDEM has reviewed this interim Significant Source Modification petition and has not found any such reason. The facilities subject to this approval may not operate until the final Significant Permit Modification is issued by OAQ. Operation of the facilities subject to this approval will be governed by 326 IAC 2-7-12 (b)(7).

The interim Significant Source Modification petition is federally enforceable. Detailed construction and operation conditions will be specified in the final Significant Source Modification permit 135-38020-00033.

If you have any questions regarding this interim Significant Source Modification petition, please contact Sommer Cochran, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Sommer Cochran or extension 4-5376, or dial (317) 234-5376.

Sincerely,

Tripurari P. Sinha, Ph. D., Section Chief  
Permits Branch  
Office of Air Quality

Enclosure: Interim Permit Evaluation (4 pages)

sc

cc: File – Randolph County  
Randolph County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch



## Indiana Department of Environmental Management Office of Air Quality

### Interim Significant Source Modification Evaluation Sheet

<b>Company Name:</b> Cardinal Ethanol, LLC	
<b>Location:</b> 1554 North 600 East, Union City, Indiana 47390	<b>Permit No:</b> 135-38020I-00033
<b>Permit Reviewer:</b> Sommer Cochran	<b>Date Receipt of Application:</b> 1/20/2017
	<b>Date of review:</b> 2/15/2017
<b>Description of the interim construction:</b> One (1) new grain handling facility, including two (2) bins for storage, grain conveyors, screeners, elevators, and grain loadout via truck and rail. One (1) Degas Vessel and one (1) ethanol recovery system to be added to the existing fermentation process.	
<b>Public Notice Period =</b> 1/25/2017 to 2/8/2017	
<b>Public Notice Date + 3 days = 17 days =</b> 2/13/2017	

Interim Petition Applicability: 326 IAC 2-13-1

- (a) Existing Source with valid permit;
- (b) Exemptions:
  - (1) construction of a PSD source or PSD modification;
  - (2) construction or modification in nonattainment area that would emit those pollutants for which the nonattainment designation is based.
  - (3) any modification subject to 326 IAC 2-4.1.
- (c) Public notice comment period is 14 calendar days.

**Instructions: Check (✓) appropriate answers and make a recommendation.**

1. Did the applicant submit a written petition for an interim significant permit revision or significant source modification?

Yes Go to question 2.  
 No Ignore verbal request.

2. Did the applicant pay the applicable interim permit fee? \$625 for TV, FESOP, and SSOA. \$500 for MSOP.

Yes Go to question 3.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(1).

Comments: \_\_\_\_\_

3. Did the applicant state acceptance of federal enforceability of an interim significant permit revision or significant source modification?

Yes Go to question 4.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(D).

4. Did the applicant or its authorized agent sign the application?

Yes Go to question 5.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(E).

5. Did the applicant submit a notarized affidavit stating that the applicant will proceed at its own risk (if the interim significant permit revision or significant source modification is issued), including, but not limited to:

- (a) Financial risk,
- (b) Risk that additional emission controls may be required,
- (c) Risk that the final significant permit revision or significant source modification may be denied.

Yes Go to question 6.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(F).

6. Did the applicant begin construction prior to submitting the interim significant permit revision or significant source modification application?

Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(6).  
 No Go to question 7.

7. What is the type of the interim construction?

New Source Deny the application, pursuant to 326 IAC 2-13-1(a)  
 Modification to an existing source Go to question 8.

8. Did the applicant present data in the interim significant permit revision or significant source modification that is sufficient to determine PSD, NSPS, NESHAP, and state rule compliance?

Yes Go to question 9.  
 No Deny the application pursuant to:  
326 IAC 2-13-1(c)(2)(B), for PSD;  
326 IAC 2-13-1(c)(2)(C), for NSPS or NESHAP;  
326 IAC 2-13-1(c)(2)(C), for state rules.

9. Is the proposed modification to be located in a nonattainment area?

Yes Go to question 10.  
 No Go to question 11.

County: Randolph County

Comments: Attainment for all criteria pollutants

10. Will the proposed modification emit the pollutant for which the area is nonattainment in quantities greater than the significant levels?

Yes Deny the application, pursuant to 326 IAC 2-13-1(a)(2).  
 No Go to question 11.

11. Did the petition include a complete description of the process?

Yes Go to question 12.  
 No Deny the petition, pursuant to 326 IAC 2-13-1(c)(2).

12. Did the interim significant permit revision or significant source modification petition contain conditions accepting either emission controls (baghouse, afterburners, scrubbers, etc.) or enforceable limits or other suitable restriction to avoid PSD applicability; as well as control parameters (incinerator operating temperature, baghouse pressure drop, etc.)? The specific limits must be explicitly spelled out (i.e.: The gas consumption of the boiler shall not exceed 29 million cubic feet per month.) A statement such as that the company agrees to conditions such that PSD rules are not applicable is not acceptable.

Yes Go to question 13.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).

13. Do the emission controls and/or throughput limits prevent PSD applicability?  
 Yes Go to question 14.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).
14. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable New Source Performance Standards (NSPS) (40 CFR 60)?  
 Yes Go to question 15.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
15. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAP)?  
 Yes Go to question 16.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
16. Will the modification, after application of all emission controls and/or throughput limitations, comply with all applicable state rules?  
 Yes Go to question 17.  
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
17. Does the applicant dispute applicability of any applicable state or federal rule?  
 Yes Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).  
 No Go to question 18.
18. Is there good reason to believe that the applicant does not intend to construct in accordance with the interim significant permit revision or significant source modification petition?  
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(1).  
 No Go to question 19.
19. Is there good reason to believe that information in the petition has been falsified?  
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(7).  
 No Approve the interim significant permit revision or significant source modification petition.
20. Has the petition been adequately public noticed? A proof of publication copy is necessary.  
 Yes Go to question 21.  
 No Deny the application, pursuant to 326 IAC 2-13-1(e).
- Newspaper: The News Gazette
- Date of publication: 1/25/2017
21. Were comments received within seventeen (17) days after the public notice of the interim significant permit revision or significant source modification?  
(14 calendar days for comment period + 3 working days for mailing)  
 Yes Evaluate the comments received, and make a recommendation.  
 No Issue the final interim significant permit revision or significant source modification approval.

Comments: \_\_\_\_\_

Recommendation: issue the final interim significant source modification

Date the applicant was informed of the decision: 2/15/2017

Method of informing the applicant: email

**Grain Handling Emissions:**  
**Emission IDs: S200, S210, S220**

- Basal: 135 MM gallons/year Undernatural Ethanol 15 MMbu/yr of Grain Processing
- Grain Handling/Storage is closed system - except bin vents
  - Grain Loadout/Fugitives are double counted in order to provide a flexibility of operations.
  - Grain will be shipped by truck or rail based on market demands.
  - Truck loadout will feature dust suppression hopper with a tested control efficiency of 88% based on an independent study conducted by the Office of Mine Safety and Health Research.

Total Increase	tons	Uncontrolled
PM10	17.44	625.73
PM2.5	8.85	572.13
	8.05	549.11

**PM10-10 Emissions:**

ID	Emission Source	Baghouse Airflow (tph)	Emission Factor (grs/scf)	Hours of Operation (hrs/yr)	Controlled PM10/PM2.5 Emissions (lbs/yr)	Controlled PM10/PM2.5 Emissions (tons/yr)	Uncontrolled PM10/PM2.5 Emissions (tons/yr)	Emission Factor Basis
S200	Grain Receiving Baghouse-South	15,000	0.005	8,760	0.84	2.82	281.57	Engineering Estimate
S210	Grain Conveyance System	2,000	0.005	8,760	0.09	0.38	37.54	Engineering Estimate
S220	Grain Rail Loading Baghouse	12,000	0.005	8,760	0.51	2.25	225.26	Engineering Estimate

**Grain Handling Fugitive Emissions:**

**PM Emissions:**

ID	Emission Source	Throughput (tph)	Emission Factor (lb/ton)	Potential uncontrolled PM10 (tph)	Controlled PM10 Emissions (tons/yr)	Emission Factor Basis
FUG15	Storage Bin 7 & Bean Core Tank	420,000	0.026	5.25	5.25 AP-42 Table 9.9.1-1 (Storage Bin-vent)	
FUG16	Grain Handling/Stor. #2	420,000	0.061	12.81	0.64 AP-42 Table 9.9.1-1 (Headhouse)	
FUG17	Grain Loadout (Rail)	420,000	0.027	5.67	0.28 AP-42 Table 9.9.1-1 (Shipping-Railcar)	
FUG18	Grain Loadout (Truck)	420,000	0.036	18.06	2.17 AP-42 Table 9.9.1-2 (Feed Shipping)	
FUG19	Grain Receiving (Truck)	420,000	0.18	37.80	1.89 AP-42 Table 9.9.1-1 (Receiving-Railcar)	

**PM10 Emissions:**

ID	Emission Source	Throughput (tph)	Emission Factor (lb/ton)	Potential uncontrolled PM10 (tph)	Controlled PM10 Emissions (tons/yr)	Emission Factor Basis
FUG15	Storage Bin 7 & Bean Core Tank	420,000	0.0053	1.32	1.32 AP-42 Table 9.9.1-1 (Storage Bin-vent)	
FUG16	Grain Handling/Stor. #2	420,000	0.034	7.14	0.36 AP-42 Table 9.9.1-1 (Headhouse)	
FUG17	Grain Loadout (Rail)	420,000	0.0022	0.46	0.02 AP-42 Table 9.9.1-1 (Shipping-Railcar)	
FUG18	Grain Loadout (Truck)	420,000	0.029	8.09	0.73 AP-42 Table 9.9.1-2 (Feed Shipping)	
FUG19	Grain Receiving (Truck)	420,000	0.059	12.39	0.62 AP-42 Table 9.9.1-1 (Receiving-Railcar)	

**PM2.5 Emissions:**

ID	Emission Source	Throughput (tph)	Emission Factor (lb/ton)	Potential uncontrolled PM2.5 (tph)	Controlled PM2.5 Emissions (tons/yr)	Emission Factor Basis
FUG15	Storage Bin 7 & Bean Core Tank	420,000	0.0011	0.23	0.23 AP-42 Table 9.9.1-1 (Storage Bin-vent)	
FUG16	Grain Handling/Stor. #2	420,000	0.0058	1.22	0.061 AP-42 Table 9.9.1-1 (Headhouse)	
FUG17	Grain Loadout (Rail)	420,000	0.00037	0.08	0.004 AP-42 Table 9.9.1-1 (Shipping-Railcar)	
FUG18	Grain Loadout (Truck)	420,000	0.0049	1.03	0.12 AP-42 Table 9.9.1-2 (Feed Shipping)	
FUG19	Grain Receiving (Truck)	420,000	0.010	2.10	0.11 AP-42 Table 9.9.1-1 (Receiving-Railcar)	

**Notes:**

- Fugitives are a result of uncaptured PM/PM10
- Assumes ethanol plant will receive and store grain in their on-site storage silos
- Assumes fugitives controlled by choker flow system (~95%) with the exception of bin vents
- Emissions have been calculated using both truck and rail loading at 100% to allow for operational flexibility, and are therefore double counted.



**Ethanol Recovery System**  
**Emission ID: P102 & P103**  
**Vented through CO2 Scrubber S40**

Basis: AP-42 Chapter 7 - Tanks 4.0.3d software (VOC), see attached tank calculations.  
 - Assumes 98% control on VOCs routed to scrubber  
 - Estimated emissions will contribute to total VOC emissions from S40, but is not expected to change permitted VOC emission rate of 14.52 lbs/hr.

Degas Vessel	Uncontrolled VOC		Controlled VOC	
	lbs/yr	(tpy)	lbs/hr	(tpy)
Degas Vessel	49231.36	24.616	984.63	0.492

Fugitive Paved Road Emissions (in plant only):  
 Emission ID: FUG6  
 INSIGNIFICANT SOURCE

**THIS TAB IS INCLUDED FOR INFORMATIONAL PURPOSES SINCE EMISSIONS ARE CONSIDERED INSIGNIFICANT. THEY ARE NOT REQUIRED TO BE INCLUDED IN EMISSION INVENTORY.**

Basis:

100% of grain, DDGS, ethanol, denaturant transport via truck  
 Vehicles travel approximately 1/2 full and 1/2 empty.  
 Grain density = 56 lb/bushel

Tip miles based on 0.75 miles in and 0.75 miles out  
 The below is considered a worst case emission estimate assuming no rail service  
 Additional traffic from employee and visitor vehicles; and delivery trucks were estimated at less than 0.1%, and therefore  
 emissions are considered negligible.  
 Equation based on AP-42 Section 13.2.1 Paved Roads (page 13.2.1-4)  
 $E = k \cdot (SL/2)^{0.66} \cdot (V/M)^{1.5}$

particle size multiplier  $k_{PM-10}$  0.0022 dimensionless  
 $k_{PM-2.5}$  0.0054 dimensionless  
 road surface silt loading SL 0.4 g/m<sup>2</sup>

Emission Unit	Truck Full (tons)	Truck Empty (tons)	Average Truck (tons)	PM Emission Factor (lb/VMT)	PM10 Emission Factor (lb/VMT)	PM2.5 Emission Factor (lb/VMT)	Total VMT	PM Emissions (tons/yr)	PM10 Emissions (tons/yr)	PM2.5 Emissions (tons/yr)	
											In plant paved roads
							Increase	25,200	1.77	0.36	0.09

VMT Calculations	Load Size	Amount/yr	% By Truck		# of Trips	VMT (miles)	Full	Empty
			Truck	Empty				
Denaturant	7500 gal	5,000,000 gal	100%	0%	667	1,000	500	500
Denatured Ethanol	7500 gal	140,000,000 gal	100%	0%	16,667	28,000	14,000	14,000
Grain	25 tons	1,350,000 tons	100%	0%	54,000	81,000	40,500	40,500
DDGS	25 tons	437,693 tons	100%	0%	17,520	26,279	13,140	13,140
Mat DDGS	25 tons	0 tons	0%	0%	0	0	0	0
Add'l Grain	25 tons	420,000 tons	100%	0%	16,800	25,200	12,600	12,600
<b>Weighted Vehicle Average</b>		<b>((Empty %) * (15)) + ((Full %) * (40))</b>				<b>161,479</b>	<b>80,740</b>	<b>80,740</b>
Empty Vehicle	15 Tons							
Full Vehicle	40 tons							
	27.5 tons							

**Note:** - In addition, the facility extracts corn oil which results in an equal decrease in feed tonnage. As such, the anticipated total facility truck traffic will remain unchanged and the above calculations continue to be a conservative estimate for haul roads.  
 - Additional grain can be shipped via truck OR via rail; however, emissions are presented above demonstrate 100% truck to be conservative and allow for flexibility of operations.



### Affidavit of Construction

I, Jeffrey Painter, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in Delaware County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of CEO/General Manager for Cardinal Ethanol, LLC.  
(Title) (Company Name)

3. By virtue of my position with Cardinal Ethanol, LLC, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Cardinal Ethanol, LLC.  
(Company Name)

4. I, the undersigned, have submitted an interim (minor permit revision, significant permit revision, minor source modification, significant source modification) petition to the Office of Air Quality for the construction of equipment that will allow on-site processing of grain for storage and sale and two units on the upstream side of the existing scrubber: a de-gas vessel and an ethanol recovery system.

5. Cardinal Ethanol, LLC recognizes the following risks:  
(Company Name)  
(a) own financial risk, (b) that IDEM may require additional or different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and  
(d) any additional air permitting requirements.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature: Jeffrey Painter

Printed Name: Jeffrey Painter

Phone No.: 765-964-3137

Date: January 19, 2017

STATE OF INDIANA )SS  
COUNTY OF Randolph )

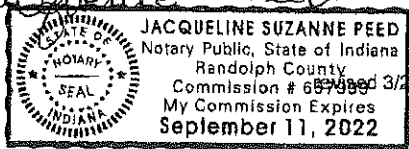
Subscribed and sworn to me, a notary public in and for Randolph County and

State of Indiana on this 19 day of January, 20 17.

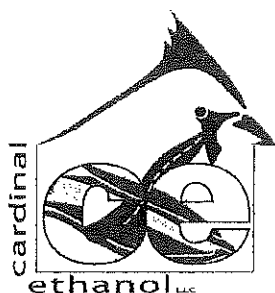
My Commission expires: September 11, 2022

Signature: Jacqueline S. Peed

Printed Name: Jacqueline S. Peed



135 - 38020I - 00033



**VIA OVERNIGHT DELIVERY**

January 19, 2017

IDEM Air Permits Administration  
ATTN: Incoming Application  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

RE: **Interim Petition Package**  
**Cardinal Ethanol, LLC, Union City, IN**

To Whom It May Concern:

Enclosed please find an Interim Petition Package for the Cardinal Ethanol, LLC (Cardinal) denatured ethanol manufacturing facility located at 1554 North 600 East in Union City, Randolph County, Indiana. This Interim Petition Package shall replace the package previously submitted to Indiana Department of Environmental Management (IDEM) on January 18, 2017. The facility operates under Air Permit ID# 135-35095-00033. The facility is requesting permission to begin construction on the proposed units requested to be installed and operated as part of the Air Permit Modification submitted to the IDEM Office of Air Quality (OAQ) on December 20, 2016.

Cardinal is requesting permission to install equipment that will allow on-site processing of grain for storage and sale. The maximum amount of grain processed for sale will not exceed 420,000 tons during each consecutive 12-month period. The design incorporates various grain receiving and unloading equipment, including two new bins for grain storage, grain conveyors, screeners and elevators. The facility will also incorporate new equipment for grain loadout via both truck and rail. In addition, Cardinal plans to add two units on the upstream side of the existing scrubber: a de-gas vessel and an ethanol recovery system (ERS). Details regarding proposed operations have been included in the original application package.

*1554 N. 600 E, Union City, IN 47390; Phone: (765)964-3137; Fax: (765)964-3349*

Received  
State of Indiana  
JAN 20 2017  
CNO-9  
Dept of Environmental Management  
Office of Air Quality

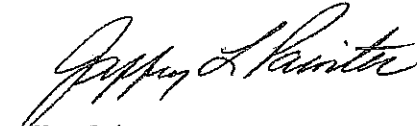
As part of this Interim Petition Package, Cardinal has included the following items:

1. Petition for Interim Significant Permit Revision, Significant Source Modification, Minor Permit Revision, or Minor Source Modification
2. Public Notice (14-day comment period)
3. Affidavit of Construction
4. Questions & Answers
5. Interim Petition Checklist
6. Copy of the rule 326 IAC 2-13-1.

If you have any questions regarding this matter, please don't hesitate to contact me at 765-964-3137 or by email at [JPainter@cardinaethanol.com](mailto:JPainter@cardinaethanol.com). Thank you in advance for your assistance with this matter. We look forward to working with you during this process.

Sincerely,

**CARDINAL ETHANOL, LLC**



Jeffrey Painter

CEO/General Manager

cc: Sommer Cochran, IDEM OAQ  
Jeremey Herlyn, Cardinal Ethanol, LLC  
Deanne Sweeney, Cardinal Ethanol, LLC  
Jessica Buckley, RTP Environmental Associates, Inc.

*1554 N. 600 E, Union City, IN 47390; Phone: (765)964-3137; Fax: (765)964-3349*

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**PETITION FOR INTERIM SIGNIFICANT PERMIT REVISION, SIGNIFICANT SOURCE  
MODIFICATION, MINOR PERMIT REVISION, OR MINOR SOURCE MODIFICATION**

Source Name: Cardinal Ethanol, LLC  
Source Address: 1554 North 600 Street East, Union City, IN 47390  
Mailing Address: 1554 North 600 Street East, Union City, IN 47390  
SIC/NAICS Code: 2869/325193

**Description of the Operation or Equipment:**

Write the detailed description of the operation or equipment, including the maximum capacity of the process: units/hour or maximum rating of the equipment such as heating input/hour. Also indicate if there is an air pollution control device, and its operating specifications (i.e.: % efficiency).

**Potential to Emit:**

The (pollutant) potential to emit are ? tons/year. Show the methodology and calculations of the potential to emit before and after control in detail.

**PSD Requirements:**

Write the conditions, limits, and/or restrictions that will be in effect to ensure that the construction does not qualify as a major PSD source or major PSD modification.

*Examples:*

- (a) If the potential to emit is less than the PSD significant level, then use the following recommended sentence:
- The potential to emit is less than the PSD Significant levels, therefore, PSD rules and requirements do not apply.
- (b) If the company wants to limit the emissions, then such restriction should be stated in this interim petition, such as:
- (i) the amount of raw material consumed on a daily or monthly rolled basis,
  - (ii) the amount of fuel combusted on a daily or monthly rolled basis,
  - (ii) a specification of the control device being used.
- (c) If the company needs to use the netting process, then the following information should be specified:
- (i) any corresponding shutdown of equipment being replaced,
  - (ii) a condition related to any limitation on the new equipment=s operation,
  - (iii) information on the actual contemporaneous increases and decreases.

**NSPS Requirements:**

Write the conditions, limits, and/or restrictions that will be in effect to ensure that the construction complies with applicable NSPS rules.

*Examples:*

- (a) If the operation or equipment is not subject to any NSPS rules, then use the following recommended sentence:

There is no applicable NSPS rule applicable to this operation or equipment.

- (b) If the operation or equipment is subject to NSPS, conditions listing those specific limits and/or requirements should be indicated.

**NESHAP Requirements:**

Write the conditions, limits, and/or restrictions that will be in effect to ensure that the construction complies with applicable NESHAP rules.

*Examples:*

- (a) If the operation or equipment is not subject to any NESHAP rules, then use the following recommended sentence:

There is no applicable NESHAP rule applicable to this operation or equipment.

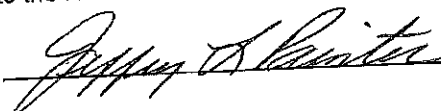
- (b) If the operation or equipment is subject to NESHAP, conditions listing those specific limits and/or requirements should be indicated.

**State Rules & Requirements:**

Write all the applicable state rules and requirements: such as opacity, PM limits, VOC content.

**Federal Enforceability:**

The company consents to the federal enforceability of this interim petition.

Signature:   
Printed Name: Jeffrey Painter  
Title or Position: CEO/General Manager  
Phone Number: 765-964-3137  
Date: January 19, 2017



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**Petition for Interim Significant Permit Revision/  
Significant Source Modification**  
**Cardinal Ethanol, LLC**

**Description of the Operation of Equipment**

Cardinal Ethanol, LLC (Cardinal) owns and operates a denatured ethanol manufacturing facility located at 1554 North 600 East in Union City, Randolph County, Indiana. As part of a permit modification, Cardinal is requesting permission to install equipment that will allow on-site processing of grain for storage and sale. The maximum amount of grain processed for sale will not exceed 420,000 tons during each consecutive 12-month period. The facility anticipates processing mostly soybeans, but for the purposes of this application grain shall include all "grain" that meets the definition in 40 CFR Part 60, Subpart DD.

The design incorporates various grain receiving and unloading equipment, including two new bins for grain storage, grain conveyors, screeners and elevators. The facility will also incorporate new equipment for grain loadout via both truck and rail. Well-designed ventilation systems coupled with two (2) new baghouse systems and a cartridge filter to control bulk material receiving, loading and handling & storage particulate emissions by 99% will act as control. Additionally, Cardinal plans to install a dust suppression spout at the Truck Loadout, which has been estimated to control emissions by 88%. Details regarding proposed operations have been included in the application package previously submitted to the Indiana Department of Environmental Management (IDEM) Office of Air Quality (OAQ).

In addition, Cardinal plans to add two units on the upstream side of the existing scrubber (C40): a de-gas vessel (P101) and an ethanol recovery system (ERS) (P102). The de-gas vessel will provide a wide spot in the line to allow gases to separate from heated, pressurized beer. Liberated gases will be routed back to the system. The ERS will use water from C40 to condense and collect the ethanol vapors before C40. Condensed ethanol vapors will be routed back to the system. Cardinal Ethanol has not finalized any design for these units; therefore, this information is subject to change and possible dismissal, but has been included for completeness.

**Potential to Emit:**

The potential to emit provided in support of the original application has been attached for your review. The controlled, potential emissions of Particulate Matter (PM) related to the proposed project are 17.44 tons per year (tpy) of controlled emissions (625.73 tpy uncontrolled). The facility will also have the potential to emit PM10 at 572.13 tpy uncontrolled (8.85 tpy controlled) and PM2.5 tpy at 549.11 tpy uncontrolled (6.05 controlled). The addition of the degas vessel and the ERS are

*Petition for Interim Significant Permit Revision/ Significant Source Modification  
Cardinal Ethanol, LLC*

not expected to increase permitted emissions at the fermentation scrubber; however, uncontrolled emissions from this process are projected to be approximately 24.616 (0.49 tpy controlled).

**PSD Requirements:**

The potential to emit is less than the PSD significant levels, therefore PSD rules and requirements do not apply.

**NSPS Requirements:**

The facility is subject to NSPS Subpart DD under the definition of "grain terminal elevator" and the proposed equipment shall comply with all requirements with this subpart. However, Subpart DD is not applicable as a "grain storage elevator". A "grain storage elevator" is defined as having a permanent storage capacity in excess of 1.0 million bushels at any dry corn mill (human consumption). Since the majority of the grain elevators associated with the Cardinal plant grain storage system are not used for human consumption grain activities, they are not applicable to the "grain storage elevator" definition.

**NESHAP Requirements:**

There is no NESHAP rule that is applicable to these operations or equipment.

**State Rules & Requirements:**

326 IAC 2-7-5(1): PM/PM10/PM2.5 emission limit

326 IAC 2-7-5-1: VOC emission limit

326 IAC 6-3-2(e)(3): Particulate emission limit for manufacturing processes

326 IAC 2-7-4(9): Preventative Maintenance Plan (PMP)

326 IAC 2-7-5, 326 IAC 2-7-6(1)(1): Opacity Limit

326 IAC 8-1-6: Capture and destruction efficiency of scrubber

326 IAC 2-7-5(3)(c): Deviation reporting and triennial emissions statement

IC 13-16-2-1: Fee Determination

**Grain Handling Emissions:**  
**Emission IDs: S200, S210, S220**

- Basis: 135 MM gallons/year Undenatured Ethanol  
 15 MMbu/yr of Grain Processing
- Grain Handling/Storage is closed system - except bin vents
  - Grain Loadout fugitives are double counted in order to provide a flexibility of operations.
  - Grain will be shipped by truck or rail based on market demands.
  - Truck loadout will feature dust suppression hopper with a tested control efficiency of 88% based on an independent study conducted by the Office of Mine Safety and Health Research.

	tons	Uncontrolled
Total Increase	17.44	625.73
PM10	8.85	572.13
PM2.5	6.05	549.11

**PM10/PM2.5 Emissions:**

ID	Emission Source	Baghouse Airflow (acfm)	Emission Factor (gr/scf)	Hours of Operation (hrs/yr)	Controlled PM10/PM2.5 Emissions (tons/yr)	Controlled PM10/PM2.5 Emissions (lbs/hr)	Uncontrolled PM10/PM2.5 Emissions (tons/yr)	Emission Factor Basis
S200	Grain Receiving Baghouse- South	15,000	0.005	2,760	0.64	2.82	281.57	Engineering Estimate
S210	Grain Conveyance System	2,000	0.005	8,760	0.09	0.38	37.54	Engineering Estimate
S220	Grain Rail Loading Baghouse	12,000	0.005	8,760	0.51	2.25	225.26	Engineering Estimate

5.44 tpy increase

**Grain Handling Fugitive Emissions:**

**PM Emissions:**

ID	Emission Source	Throughput (tpy)	Emission Factor (lb/ton)	Potential uncontrolled PM10 (tpy)	Controlled PM Emissions (tons/yr)	Emission Factor Basis
FUG15	Storage Bin 7 & Bean Core Tank	420,000	0.025	5.25	5.25 AP-42 Table 9.9.1-1 (Storage Bin-vent)	
FUG16	Grain Handling/Str. #2	420,000	0.051	12.81	0.64 AP-42 Table 9.9.1-1 (Headhouse)	
FUG17	Grain Loadout (Rail)	420,000	0.027	5.67	0.25 AP-42 Table 9.9.1-1 (Shipping-Railcar)	
FUG18	Grain Loadout (Truck)	420,000	0.065	18.06	2.17 AP-42 Table 9.9.1-2 (Feed Shipping)	
FUG19	Grain Receiving (Truck)	420,000	0.18	37.50	1.89 AP-42 Table 9.9.1-1 (Receiving-Railcar)	

19.23 tpy increase

**PM10 Emissions:**

ID	Emission Source	Throughput (tpy)	Emission Factor (lb/ton)	Potential uncontrolled PM10 (tpy)	Controlled PM10 Emissions (tons/yr)	Emission Factor Basis
FUG15	Storage Bin 7 & Bean Core Tank	420,000	0.0055	1.32	1.32 AP-42 Table 9.9.1-1 (Storage Bin-vent)	
FUG16	Grain Handling/Str. #2	420,000	0.034	7.14	0.36 AP-42 Table 9.9.1-1 (Headhouse)	
FUG17	Grain Loadout (Rail)	420,000	0.0022	0.46	0.02 AP-42 Table 9.9.1-1 (Shipping-Railcar)	
FUG18	Grain Loadout (Truck)	420,000	0.029	6.09	0.73 AP-42 Table 9.9.1-2 (Feed Shipping)	
FUG19	Grain Receiving (Truck)	420,000	0.059	12.39	0.82 AP-42 Table 9.9.1-1 (Receiving-Railcar)	

3.05 tpy increase

**PM2.5 Emissions:**

ID	Emission Source	Throughput (tpy)	Emission Factor (lb/ton)	Potential uncontrolled PM2.5 (tpy)	Controlled PM2.5 Emissions (tons/yr)	Emission Factor Basis
FUG15	Storage Bin 7 & Bean Core Tank	420,000	0.0011	0.23	0.23 AP-42 Table 9.9.1-1 (Storage Bin-vent)	
FUG16	Grain Handling/Str. #2	420,000	0.0058	1.22	0.061 AP-42 Table 9.9.1-1 (Headhouse)	
FUG17	Grain Loadout (Rail)	420,000	0.00037	0.08	0.004 AP-42 Table 9.9.1-1 (Shipping-Railcar)	
FUG18	Grain Loadout (Truck)	420,000	0.0049	1.03	0.12 AP-42 Table 9.9.1-2 (Feed Shipping)	
FUG19	Grain Receiving (Truck)	420,000	0.010	2.10	0.11 AP-42 Table 9.9.1-1 (Receiving-Railcar)	

0.52 tpy increase

**Notes:**

- Fugitives are a result of uncaptured PM/PM10
- Assumes ethanol plant will receive and store grain in their on-site storage silos
- Assumes fugitives controlled by choked flow system (~95%) with the exception of bin vents
- Emissions have been calculated using both truck and rail loading at 100% to allow for operational flexibility, and are therefore double counted.

**Ethanol Recovery System  
Emission ID: P102 & P103  
Vented through CO2 Scrubber S40**

Basis: AP-42 Chapter 7 - Tanks 4.0.9d software (VOC), see attached tank calculations.  
 - Assumes 98% control on VOCs routed to scrubber  
 - Estimated emissions will contribute to total VOC emissions from S40, but is not expected to change permitted VOC emission rate of 14.52 lbs/hr.

	Uncontrolled VOC		Controlled VOC	
	lbs/yr	(tpy)	lbs/hr	(tpy)
Degas Vessel	49231.36	24.616	984.63	0.11
				0.492

**Fugitive Paved Road Emissions (in plant only):**  
**Emission ID: FUG6**  
**INSIGNIFICANT SOURCE**

**THIS TAB IS INCLUDED FOR INFORMATIONAL PURPOSES SINCE EMISSIONS ARE CONSIDERED INSIGNIFICANT. THEY ARE NOT REQUIRED TO BE INCLUDED IN EMISSION INVENTORY.**

**Basis:**  
 100% of grain, DDGS, ethanol, denaturant transport via truck  
 Vehicles travel approximately 1/2 full and 1/2 empty.  
 Grain density = 56 lb/bushel  
 Trip miles based on 0.75 miles in and 0.75 miles out  
 The below is considered a worst case emission estimate assuming no rail service  
 Additional traffic from employee and visitor vehicles; and delivery trucks were estimated at less than 0.1%, and therefore emissions are considered negligible.  
 Equation based on AP-42 Section 13.2.1 Paved Roads (page 13.2.1-4)

lbs/VMT Equation:  $E = k \cdot (s/L)^2 \cdot 0.65 \cdot (W/S)^{1.3}$

$k_{PM}$  0.011 dimensionless  
 $k_{PM-10}$  0.0022 dimensionless  
 $k_{PM-2.5}$  0.00054 dimensionless  
 $sL$  0.4 g/m<sup>2</sup>

particle size multiplier  
 road surface silt loading

Emission Unit	Truck Full (tons)	Truck Empty (tons)	Average Truck (tons)	PM Emission Factor (lb/VMT)	PM 10 Emission Factor (lb/VMT)	PM 2.5 Emission Factor (lb/VMT)	Total VMT	PM Emissions (tons/yr)	PM10 Emissions (tons/yr)	PM2.5 Emissions (tons/yr)
In plant paved roads	40.00	15.00	27.50	0.14	0.028	0.007	161,479	11.34	2.27	0.56
						<i>Increase</i>	25,200	1.77	0.35	0.09

VMT Calculations	Load Size	Amount/yr	% by truck	
			# of Trips	VMT (miles)
Denaturant	7500 gal	5,000,000 gal	100%	667
Denaturated Ethanol	7500 gal	140,000,000 gal	100%	18,667
Grain	25 tons	1,350,000 tons	100%	54,000
DDGS	25 tons	437,989 tons	100%	17,520
Wet DGS	25 tons	0 tons	0	0
Add'l Grain	25 tons	420,000 tons	100%	16,800
				25,200
				161,479
				1,000
				28,000
				81,000
				26,279
				13,140
				25,200
				161,479
				500
				14,000
				40,500
				13,140
				12,600
				80,740
				50.0%
				50.0%

Weighted Vehicle Average  
 $((\text{Empty \%}) \cdot (15)) + ((\text{Full \%}) \cdot (40))$

Empty Vehicle 15 Tons  
 Full Vehicle 40 tons  
 27.5 tons

**Note:** - In addition, the facility extracts corn oil which results in an equal decrease in feed tonnage. As such, the anticipated total facility truck traffic will remain unchanged and the above calculations continue to be a conservative estimate for haul roads.

- Additional grain can be shipped via truck OR via rail; however, emissions are presented above demonstrate 100% truck to be conservative and allow for flexibility of operations.

**NOTICE OF 14-DAY PERIOD  
FOR PUBLIC COMMENT**

Proposed Approval of Interim Significant Permit Revision/Significant Source Modification  
for **Cardinal Ethanol, LLC**  
in **Randolph County**

Notice is hereby given that the above company located at 1554 North 600 East in Union City, Randolph County, Indiana, has made application to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for an interim permit to construct additional grain processing equipment (P87 through P100) with baghouse controls (C200- C220) and a degas vessel on the fermentation process with the existing Fermentation Scrubber (C40) as air pollution control. Based on 8,760 hours per year of operation, the uncontrolled Particulate and uncontrolled VOC emissions are 625.73 and 24.62 tons per year, respectively. *Emissions are from this proposed project only. Controlled emissions of particulate and VOC emissions from the proposed operations shall be 17.44 tons per year and 0.49 tons per year, respectively.*

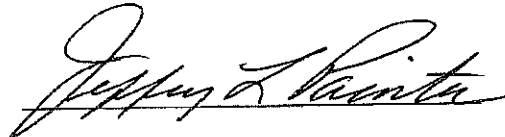
The company has submitted an application for a significant permit revision / significant source modification. The OAQ shall review the application in accordance with the Permit Review Rules. Operation of the source cannot commence until a valid operating permit is issued. The construction of the proposed project is entirely at the applicant's own risk.

Notice is hereby given that there will be a period of 14 days from the date of publication of this notice during which any interested person may comment on why this interim permit should or should not be issued. Appropriate comments should be related to air quality issues, interpretation of the applicable state and federal rules, calculations made, technical issues, or the effect that the operation of this facility would have on any aggrieved individuals. A copy of the application and staff review is available for examination at the **Union City Public Library, 408 North Columbia Street, Union City, Indiana, 47390**. All comments, along with supporting documentation, should be submitted in writing to the IDEM, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251.

Persons not wishing to comment at this time, but wishing to receive notice of future proceedings conducted related to this action, must submit a written request to the Office of Air Quality (OAQ), at the above address. All interested parties of record will receive a notice of the decision on this matter and will then have 15 days after receipt of the Notice of Decision to file a petition for administrative review. Procedures for filing such a petition will be enclosed with the Notice.

Questions should be directed to OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 or (317) 233-0178.

Company Official's Signature:



Company Official's Printed Name:

Jeffrey Painter

Company Name:

Cardinal Ethanol, LLC

# LEGALS

## NOTICE OF 14-DAY PERIOD FOR PUBLIC COMMENT

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Questions should be directed to OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 or (317) 233-0178.

Company Official's Signature:  
Company Official's Printed Name: Jeffrey Painter  
Company Name: Cardinal Ethanol, LLC

LEGAL 10564, 1T, 1/25/2017  
HSAPLXP

Cardinal Ethanol, of Union City, IN

To: The News Gazette

P.O. Box 429

Winchester, IN 47394

Randolph County, Indiana

10564

PUBLISHER'S CLAIM

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LINE COUNT

Display Master (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) -- number of equivalent lines

Head -- number of lines

Body -- number of lines

Tail -- number of lines

Total number of lines in notice

100

100

COMPUTATION OF CHARGES

<u>50</u> lines	<u>2</u> columns wide equals	<u>100</u> equivalent lines at	<u>.85</u>	
	cents per line			<u>\$85.00</u>
Additional charges for notices containing rule or tabular work (50 per cent of above amount)				
Charge for extra proofs of publication (\$1.00 for each proof in excess of two)				
<b>TOTAL AMOUNT OF CLAIM</b>				<u>\$85.00</u>

DATA FOR COMPUTING COST

Width of single column in picas

9.67

Size of type

7 point

Number of insertions

1

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper 1 time(s). The dates of publication being as follows:

January 25, 2017

Additionally, the statement checked below is true and correct:

- Newspaper does not have a Web site.
- Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper.
- Newspaper has a Web site, but due to technical problem or error, public notice was posted on .....
- Newspaper has a Web site but refuses to post the public notice.

Date

1/19/2017

Title: Legal Manager





# RTP ENVIRONMENTAL ASSOCIATES, INC.

AIR • WATER • SOLID WASTE CONSULTANTS

400 Post Avenue  
Westbury, New York 11590  
(www.rtpenv.com)

(516) 333-4526  
Fax: (516) 333-4571

## VIA OVERNIGHT DELIVERY

January 19, 2017

Ms. Paige Yoder  
Union City Library  
408 North Columbia Street  
Union City, IN 47390

RE: **Air Permit Interim Petition Package**  
**Cardinal Ethanol, LLC, Union City, IN**

Ms. Yoder:

In accordance with 326 IAC 2-13-1, RTP Environmental Associates, Inc. (RTP), on behalf of Cardinal Ethanol, LLC, is providing Union City Library with this Interim Petition Package to be available for public review. Cardinal Ethanol, LLC is a denatured ethanol manufacturing facility located at 1554 North 600 East in Union City, Randolph County, Indiana. A notice has been published requesting comment on the proposed petition in the local newspaper. All comments should be directed to the Indiana Department of Environmental Management (IDEM), in accordance with instructions published with the notice.

If you have any questions regarding this matter, please don't hesitate to contact me at 516-333-4526 or by email at [buckley@rtpenv.com](mailto:buckley@rtpenv.com). If you could also please sign and return the attached "Acknowledgement of Receipt" for our files it would be greatly appreciated. Thank you in advance for your assistance with this matter.

Sincerely,  
**RTP ENVIRONMENTAL ASSOCIATES, INC.**

Jessica Buckley  
Senior Environmental Scientist

Enclosures

cc: Jeff Painter, Cardinal Ethanol, LLC  
Jeremy Herlyn, Cardinal Ethanol, LLC  
Deanne Sweeney, Cardinal Ethanol, LLC  
RTP Project File



**Shipment Receipt**

**Transaction Date:** 19 Jan 2017

**Tracking Number:**

1ZF07R960199478646

<b>1 Address Information</b>		
<b>Ship To:</b> UNION CITY LIBRARY PAIGE YODER 408 NORTH COLUMBIA STREET UNION CITY IN 473901404 Telephone:7659644748	<b>Ship From:</b> RTP ENVIRONMENTAL ASSOCIATES, INC. RONNIE ZAGLIN 400 POST AVENUE SUITE 405 WESTBURY NY 11590 Telephone:5163334526	<b>Return Address:</b> RTP ENVIRONMENTAL ASSOCIATES, INC. RONNIE ZAGLIN 400 POST AVENUE SUITE 405 WESTBURY NY 11590 Telephone:5163334526

<b>2 Package Information</b>			
Weight	Dimensions / Packaging	Declared Value	Reference Numbers
1. Letter (Letter billable)	UPS Letter		Reference#1 - CARDINAL - INTERIM PKGE

<b>3 UPS Shipping Service and Shipping Options</b>	
<b>Service:</b> UPS Next Day Air <b>Guaranteed By:</b> 12:00 PM Friday, Jan 20, 2017	
<b>Shipping Fees Subtotal:</b>	<b>37.80 USD</b>
<b>Transportation</b>	33.71 USD
<b>Fuel Surcharge</b>	1.54 USD
<b>Delivery Area Surcharge- Extended</b>	
Package 1	2.55 USD
<b>Additional Shipping Options</b>	
Quantum View Notify E-mail Notifications: 1 buckley@rtpenv.com: Exception, Delivery	No Charge

<b>4 Payment Information</b>	
<b>Bill Shipping Charges to:</b>	Shipper's Account F07R96
<b>Shipping Charges:</b>	<b>37.80 USD</b>
<b>Negotiated rates were applied to this shipment.</b>	
<b>Negotiated Charges:</b>	<b>29.37 USD</b>
<b>Subtotal Shipping Charges:</b>	<b>29.37 USD</b>
<b>Total Charges:</b>	<b>29.37 USD</b>

Note: This document is not an Invoice. Your final invoice may vary from the displayed reference rates.

\* For delivery and guarantee information, see the UPS Service Guide. To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

**Responsibility for Loss or Damage**

UPS's liability for loss or damage to each domestic package or international shipment is limited to \$100 without a declaration of value. Unless a greater value is recorded in the declared value field of the UPS shipping system used, the shipper agrees that the released value of each package covered by this receipt is no greater than \$100, which is a reasonable value under the circumstances surrounding the transportation. To increase UPS's limit of liability for loss or damage, a shipper may declare a higher value and pay an additional charge. See the UPS Tariff/Terms and Conditions of Service ("UPS Terms") at www.ups.com for UPS's liability limits, maximum declared values, and other terms of service. UPS does not accept for transportation and shippers are prohibited from shipping, packages with a value of more than \$50,000. The only exception to the \$50,000 per package limit is for a package eligible for the Enhanced Maximum Declared Value of \$70,000 per package, as set forth in the UPS Terms. A package is eligible only if it meets the following requirements. The package must be (i) a domestic shipment; (ii) tendered pursuant to shipper's Scheduled Pickup Service; (iii) a UPS Next Day Air(R) delivery service is the service level selected; (iv) processed for shipment using a UPS Shipping System (declarations of value on paper Source Documents are not eligible for Enhanced Maximum Declared Value); and (v) does

**Affidavit of Construction**

I, Jeffrey Painter, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in Delaware County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of CEO/General Manager for Cardinal Ethanol, LLC.  
(Title) (Company Name)
3. By virtue of my position with Cardinal Ethanol, LLC, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Cardinal Ethanol, LLC.  
(Company Name)
4. I, the undersigned, have submitted an interim (minor permit revision, significant permit revision, minor source modification, significant source modification) petition to the Office of Air Quality for the construction of equipment that will allow on-site processing of grain for storage and sale and two units on the upstream side of the existing scrubber: a de-gas vessel and an ethanol recovery system.
5. Cardinal Ethanol, LLC recognizes the following risks:  
(Company Name)  
(a) own financial risk, (b) that IDEM may require additional or different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and  
(d) any additional air permitting requirements.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature: Jeffrey Painter

Printed Name: Jeffrey Painter

Phone No.: 765-964-3137

Date: January 19, 2017

STATE OF INDIANA )  
 COUNTY OF Randolph )SS  
 Subscribed and sworn to me, a notary public in and for Randolph County and  
 State of Indiana on this 19 day of January, 20 17.  
 My Commission expires: September 11, 2022

Signature: Jacqueline S. Peed

Printed Name: Jacqueline S. Peed



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**Interim Significant Permit Revision, Significant Source Modification, Minor Permit  
Revision or Minor Source Modification Questions & Answers**

1. Question: Who can petition for an interim petition?

Answer: Any person who:

- (a) operates an existing source,
- (b) has a valid air operating permit, and
- (c) is located in an area that is designated either attainment or unclassified for all criteria pollutants (PM-10, SO<sub>2</sub>, NO<sub>x</sub>, ozone, CO and Pb)

may petition for an interim (but not to operate) for a modification that can be shown to not constitute a major PSD source or modification.

2. Question: If my source is located in a nonattainment designated area, can an interim petition be submitted?

Answer: Yes, as long as the pollutant which the nonattainment designation is based, is not going to be emitted.

3. Question: Can I petition for an interim minor permit revision or an interim minor source modification?

Answer: Yes.

- (a) The process and application for an interim for either a minor permit revision or a minor source modification is identical to that for an interim significant permit revision or significant source modification.
- (b) Likewise, the forms to be completed, the submission procedure and the fees are the same as those for a significant permit revision or significant source modification.
- (c) The only difference is that a minor permit revision or minor source modification does not have a 14 day public notice period.
- (d) The interim minor permit revision or minor source modification will be approved or denied within 19 days after the receipt of the petition for the interim.

4. Question: What do I have to include in the interim petition?

Answer: A written petition (verbal request is not sufficient) must include the following:

- (a) Completed, signed and dated Interim petition.
- (b) A completed and signed Public Notice (this is not necessary for a minor permit revision or a minor source modification).
- (c) A signed, dated, and notarized Affidavit of Construction.
- (d) Completed Interim Petition Checklist.
- (e) A non-refundable filing and review fee.

Permit Level	Fee
Title V	\$625
FESOP	\$625
SSOA	\$625
MSOP	\$500

5. Question: What time frame can be expected for action on an interim significant permit revision or significant source modification petition?

Answer: The sequence of events is as follows:

- (a) The company will publish a public notice in the newspaper of largest circulation where the source is located noting that there is a fourteen (14) calendar period for interested parties to provide comments.
- (b) Receipt of the petition:
  - (i) All interim petitions should be submitted to OAQ.
  - (ii) The interim petition is stamped received by the OAQ.
- (c) The company will submit the proof of publication related to the public notice.
- (d) No Comments received:  
If no comments are received during the comment period, the interim decision (either approval or denial) will be made by the 17th day after the publication of the public notice or the 19<sup>th</sup> day after receipt of the petition for the interim, whichever is the later date.
- (e) Comments received:  
If comments are received, the OAQ will evaluate, answer the comments and make a decision (either approval or denial) within 31 days after the publication of the public notice or within 19 days after the receipt of the petition for the interim, whichever is the later date.
- (f) Denial of the petition:
  - (i) The OAQ will inform (by letter) the applicant that the petition has been denied, stating in the letter the reason(s) for the denial.

6. Question: What time frame can be expected for action on an interim minor permit revision or minor source modification petition?

Answer: The OAQ will issue or deny the interim minor permit revision or minor source modification within nineteen (19) days of the receipt of the petition.

The interim minor permit revision or minor source modification approval or denial is in effect on the issuance date of the decision.

7. Question: What happens if the OAQ does not issue or deny the interim petition within the specified time?

Answer: (a) The interim minor permit revision or minor source modification is automatically in effect if no decision has been made by OAQ after the 19<sup>th</sup> working day after the stamped receipt date of the interim petition.

1. The interim significant permit revision or significant source modification is automatically in effect if no decision has been made by OAQ after either the 17<sup>th</sup> day after the publication of the public notice if no comments were submitted or the 31<sup>st</sup> day after the publication of the public notice if comments were submitted or the 19<sup>th</sup> day after the stamped receipt date of the interim petition, whichever is the later date.

8. Question: What information is included in the public notice?

Answer: The following information should be specified in the public notice:

- (a) Name of the Company and complete address of the source.
- (b) Detailed description of the proposed construction.
- (c) Calculated potential to emit of the proposed construction.
- (d) Name of the public library where copies of the petition can be found.
- (e) The public comment period consists of fourteen (14) calendar days and three (3) additional working days to allow delivery of mailed comments.
- (f) The applicant may not operate the modification until a valid operating permit is issued.
- (g) Construction, even if an interim significant permit revision or significant source modification is issued, is undertaken entirely at the applicants' risk.

9. Question: Why would a petition for an interim be denied?

Answer: An interim petition may be denied because of one of the following reasons:

- (a) A written petition was not submitted. A verbal petition is not valid.
- (b) The written petition was not signed and dated.

- (c) The Affidavit of Construction was not submitted.
- (d) The submitted Affidavit of Construction was not either signed, dated or notarized.
- (e) Statement of acceptability of federal enforceability was not included in the petition.
- (f) A petition for construction of a new source was submitted.
- (g) A petition was submitted without sufficient conditions, limitations, and/or restrictions to prevent the applicability of PSD rules.
- (h) A petition was submitted without sufficient conditions, limitations, and/or restrictions to indicate compliance with NSPS, NESHAP, and all applicable state rules.
- (i) The OAQ has determined that the applicant does not intent to construct according to the petition.
- (j) Construction has commenced prior to the issuance of the interim significant permit revision, significant source modification, minor permit revision, or minor source modification.
- (k) The interim petition was falsified in any way.
- (l) The public was not properly notified.

10. Question: Why would an interim petition be revoked after it is issued?

Answer: An issued interim petition may be revoked because:

- (a) Full review of the proposed project shows that it will cause a degradation of air quality.
- (b) Full review shows that the proposed construction does not in fact comply with all state or federal rules.
- (c) Full review shows that PSD rules do indeed apply to the construction.
- (d) The OAQ determines that any of the reasons for denial mentioned in Answer No.9 becomes valid.

11. Question: If an interim petition is issued and later revoked, is the construction progress done between those events illegal?

Answer: No.

- (a) You must immediately cease all construction activity upon revocation of an interim petition.
- (b) Any subsequent construction would constitute a violation of 326 IAC 2-5 or 326 IAC 2-6.1 and possibly a violation of the PSD rules, too.

(c) State and federal compliance officials will be notified of the revocation.

12. Question: What forms and guidance should I use for petition for an interim minor permit revision or interim minor source modification?

Answer: The same guidance and forms apply to both the interim significant permit revision, significant source modification, minor permit revision, or minor source modification. The only form not applicable to interim minor permit revision or minor source modification is the public notice, because an interim for these does not need to be public noticed.

13. Question: If my petition is denied, will I be given reasons why?

Answer: Yes.

14. Question: If my petition is denied, can I simply rectify the deficiencies and re-activate the petition?

Answer: Yes, but if you wish to petition again, you must submit another petition with appropriate filing fee.

15. Question: If an interim petition is issued, can I operate my equipment?

Answer: No. For the interim minor permit revision or minor source modification, the associated minor permit revision or minor source modification document is required before operation commences. For the interim significant permit revision or significant source modification, the associated administrative amendment must be issued before operation can commence. Testing and debugging of equipment is considered to be operation.



**Indiana Department of Environmental Management  
Office of Air Quality**

<b>Interim Petition Checklist</b>	
Instructions: (a) Please answer yes or no. (b) Enclosed this checklist with the completed interim petition package.	
Company Name: Cardinal Ethanol, LLC	
Location: 1554 North 600 East in Union City, Randolph County, Indiana	
YES	1. Is the written interim petition prepared?
YES	2. Is the written petition signed and dated?
YES	3. Is the public notice drafted?
YES	4. Is the filing and review fee enclosed? \$625 for TV, FESOP, and SSOA. \$500 for MSOP.
YES	5. Is the account number written on the check or money order?
YES	6. Is the Affidavit of Construction signed, dated, and notarized?
YES	7. Is the proposed modification/revision described in detail?
YES	8. Is the proposed modification/revision a modification or addition to an existing source?
YES	9. Is the proposed modification/revision located in an attainment area for all the criteria pollutants?
NO	10. Is the proposed modification/revision located in a nonattainment area? If yes, answer No. 11.
---	11. Is the pollutant, which the nonattainment designation is based on, going to be emitted in this proposed modification/revision?
YES	12. Are potential emissions calculated?
YES	13. Is federal enforceability consent specifically indicated?
YES	14. Are specific conditions, limitations, and/or restrictions included that preclude applicability of PSD?
NO	15. Are specific conditions, limitations, and/or restrictions included that preclude applicability of NSPS?
NO	16. Are specific conditions, limitations, and/or restrictions included that preclude applicability of NESHAP?
YES	17. Are specific conditions, limitations, and/or restrictions included that assure compliance with all applicable state air pollution rules?
YES	18. Has a regular modification/revision permit application been submitted to OAQ?
NO	19. Has the proposed modification/revision commenced prior to the submission of the interim permit petition?
	20. The interim petition comment period has been decided to be: <u>14 calendar days</u>
Additional Comments:	

## PERMIT REVIEW RULES

(B) The legal notice shall be published as follows:

- (i) In newspapers of general circulation in a minimum of twelve (12) locations throughout the state.
- (ii) In the Indiana Register.

(b) The commissioner may issue a general permit to an emission unit, process, operation, or source within the class of emission units, processes, operations, or sources for which a general permit was established. An applicant for a general permit shall do the following:

- (1) Apply to the commissioner for coverage by the general permit under terms of the general permit or submit an application for a general permit under this section. The application for a general permit shall include all information necessary to determine qualification for, and assure compliance with, the general permit.
- (2) Request authorization to operate under a general permit and meet the conditions and terms of the general permit. The commissioner may grant authorization to operate subject to the terms and conditions of the general permit.
- (3) The notice provisions of 326 IAC 2-1.1-6 are not applicable to a decision by the commissioner on a source's request for authorization to operate under a general permit. This subdivision is not intended to affect applicability of IC 4-21.5.
- (4) Upon billing, submit an application fee in accordance with 326 IAC 2-1.1-7(k).
- (5) Pay an annual operating fee in accordance with 326 IAC 2-1.1-7(k). Fees shall be paid:
  - (A) by mail or in person; and
  - (B) upon billing by check or money order, payable to "Cashier, Indiana Department of Environmental Management" no later than thirty (30) calendar days after receipt of billing.

Nonpayment shall result in revocation of the permit.

(c) The commissioner shall not issue more than two (2) general permits to any one (1) source in any twelve (12) month period. (*Air Pollution Control Division; 326 IAC 2-12-1; filed Nov 25, 1998, 12:13 p.m.: 22 IR 1063; filed Sep 28, 2011, 10:56 a.m.: 20111026-IR-326070286FRA*)

### Rule 13. Interim Approvals

#### 326 IAC 2-13-1 Interim operating permit revision approvals

Authority: IC 13-14-8; IC 13-15-2; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15-5; IC 13-17

Sec. 1. (a) This section applies to any person who operates an existing source under valid operating permits issued by the commissioner and who proposes to modify a source or construct a new emission unit at the existing source and the modification or construction requires an operating permit revision or other approval by the commissioner in accordance with this article, excluding the following:

- (1) Construction of a major PSD source or major PSD modification as defined in 326 IAC 2-2.
- (2) A modification in a nonattainment area that has the potential to emit a pollutant for which the nonattainment designation is based in an amount exceeding the levels of emissions that require a permit revision for that pollutant.
- (3) Any modification that is subject to 326 IAC 2-4.1.

(b) At the time a permit revision application is submitted, or at any time thereafter, any person meeting the requirements of subsection (a) may separately petition the commissioner for an interim approval that would allow construction of the proposed modification to commence while the permit revision application is being reviewed.

(c) To petition for an interim approval, the applicant shall submit the following:

(1) A nonrefundable fee in accordance with 326 IAC 2-1.1-7(l) by check or money order payable to "Cashier, Indiana Department of Environmental Management". This fee is in addition to all other fees required by 326 IAC 2-1.1-7.

(2) A written petition containing the following:

- (A) Identification of the type of operating permit revision that would be required under this article.
- (B) All necessary conditions, limits, or restrictions that will be in effect to ensure the construction does not qualify as a major PSD source or major PSD modification or a major new source or reconstructed source of hazardous air pollutants. Limits must be stated as conditions that can be enforced independently of one another, and the time period over which the limits extend should be as short as possible and should generally not exceed one (1) month. In special

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PERMIT REVIEW RULES

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situations, an annual limit may be acceptable, if approved by the commissioner. Limits on the following shall be considered acceptable:

- (i) Raw material consumed.
- (ii) Fuel combusted.
- (iii) Hours of operation.
- (iv) Conditions that specify that the source must install and maintain controls that reduce emissions to a specified emission rate or to a specified efficiency level.

(C) All conditions necessary to meet the requirements of any new source performance standards, national emission standards for hazardous air pollutants, and any state rules that would apply.

(D) A statement that the applicant consents to federal enforceability of an interim approval.

(E) The applicant's or its authorized agent's signature.

(F) A notarized affidavit that the applicant will proceed with any project approved under this section at its own risk to include, but not be limited to, the following:

- (i) Financial risk.
- (ii) The risk that the commissioner will require additional or different control technologies in order for a final approval to be issued under applicable law.
- (iii) The risk that the commissioner might deny issuance of the final approval.

(d) The commissioner shall approve or deny the petition for an interim approval for a modification that meets the criteria for a minor permit revision, as described under 326 IAC 2-6.1-6(g) or 326 IAC 2-8-11.1(d) or a modification approval described under 326 IAC 2-7-10.5(e), in writing within nineteen (19) days of receipt of the petition. Notwithstanding IC 13-15-5, the commissioner's decision shall be effective immediately.

(e) Upon submission of an application, the applicant proposing a modification that requires a significant permit revision, as described under 326 IAC 2-6.1-6(i) or 326 IAC 2-8-11.1(f) or a modification approval described under 326 IAC 2-7-10.5(g), shall notify the public of such petition by publishing a notice in a minimum of one (1) newspaper of general circulation in the county where the project will occur. The notice shall include notification of the following:

- (1) Submittal to the commissioner of a petition for an interim approval.
- (2) That the public comment period consists of fourteen (14) calendar days from the date of publication of the public notice to submit written comments to the commissioner. No public hearing is available under this section. The opportunity for a public hearing exists during issuance of the final permit revision under 326 IAC 2-6.1-6, 326 IAC 2-7-10.5, 326 IAC 2-7-12, or 326 IAC 2-8-11.1.
- (3) That the applicant has submitted an application for a permit revision for the project, and the commissioner shall review the application in accordance with 326 IAC 2-6.1-6, 326 IAC 2-7-10.5, 326 IAC 2-7-12, or 326 IAC 2-8-11.1.
- (4) That operation of the source cannot commence until the existing operating permit is revised.
- (5) That if the interim petition is approved, modification is entirely at the applicant's own risk.
- (6) That a copy of the petition and any accompanying materials are available for inspection in a convenient public office such as the public library or local agency in the area to be affected by the proposed construction (to be identified in the notice by the applicant).

(f) The applicant shall notify the commissioner of the date the public notice was published and submit a copy of the proof of publication from the newspaper to the office of air management prior to the end of the fourteen (14) day public comment period.

(g) The applicant shall keep a proof of publication from the newspaper concerning the public notice for as long as the interim permit is effective.

(h) The commissioner may deny the petition for an interim approval if the commissioner determines any of the following:

- (1) The source does not intend to modify the source in accordance with its petition.
- (2) Construction of a major PSD source or major PSD modification may occur.
- (3) The applicability requirements of subsection (a) are not met.
- (4) The information contained in the petition is insufficient for the commissioner to determine whether there will be construction of a major PSD source or a major PSD modification.
- (5) The petition proposes construction of an emissions unit that, as proposed, will not comply with applicable rules.
- (6) The applicant began construction on the modification prior to receiving an interim approval.

## PERMIT REVIEW RULES

(7) The applicant falsified any information contained in its petition or application.

(i) The commissioner shall take final action on a petition for interim approval meeting the criteria for a significant permit revision, as described under 326 IAC 2-6.1-6(i) or 326 IAC 2-8-11.1(f) or a modification approval described under 326 IAC 2-7-10.5(g), by the later of the following dates:

(1) Seventeen (17) days after publication of the public notice if no comments are submitted within the public comment period.

(2) Thirty-one (31) days after publication of the public notice if comments are submitted within the public comment period.

(3) Nineteen (19) days after receipt of the petition for interim approval.

The commissioner shall not approve a petition for interim approval prior to the dates established in subdivisions (1) and (2), as applicable. The commissioner may deny a petition for interim approval at any time within the time periods established by this subsection. Notwithstanding IC 13-15-5, the commissioner's decision shall be effective immediately.

(j) The following provisions apply to all interim approvals:

(1) An interim approval expires on the effective date of the final permit revision approval or denial.

(2) An interim approval shall contain all conditions, restrictions, or limits that guarantee construction of a major PSD source or major PSD modification or a major new source or reconstructed source of hazardous air pollutants does not occur.

(3) All interim approvals are federally enforceable.

(4) An interim approval may be revoked after its effective date upon a written finding by the commissioner that any of the reasons for denial in subsection (h) exists or if the modification is denied.

*(Air Pollution Control Division; 326 IAC 2-13-1; filed Nov 25, 1998, 12:13 p.m.: 22 IR 1064; filed Sep 28, 2011, 10:56 a.m.: 20111026-IR-326070286FRA; errata filed Jan 2, 2013, 2:19 p.m.: 20130123-IR-326130002ACA)*

### Rule 14. Portable Sources

#### 326 IAC 2-14-1 Exemptions

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1. A portable source meeting the criteria for an exemption under 326 IAC 2-1.1-3 shall not be subject to the requirements of this rule. *(Air Pollution Control Division; 326 IAC 2-14-1; filed Nov 25, 1998, 12:13 p.m.: 22 IR 1066)*

#### 326 IAC 2-14-2 Applicability

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 2. (a) This rule applies to any person who proposes any of the following:

(1) Construction of a new stationary source consisting of a portable source, operation, process, or emissions unit.

(2) Modification to an existing source and such modification consists of a portable source, operation, process, or emissions unit, except for a relocation at an existing source that meets the criteria of 326 IAC 2-1.1-3(h)(2).

(3) Relocation of a portable source, operation, process, or emissions unit.

(4) Modification of a portable source, operation, process, or emissions unit at a source operating under a valid operating permit.

(b) For the purposes of this rule, a source may divide the operation into like units, processes, or operations for the purposes of relocation or anticipated relocation. This division must be done as part of the initial application review process. *(Air Pollution Control Division; 326 IAC 2-14-2; filed Nov 25, 1998, 12:13 p.m.: 22 IR 1066; errata filed Jul 23, 2007, 4:19 p.m.: 20070815-IR-326070466ACA)*

#### 326 IAC 2-14-3 Approvals

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

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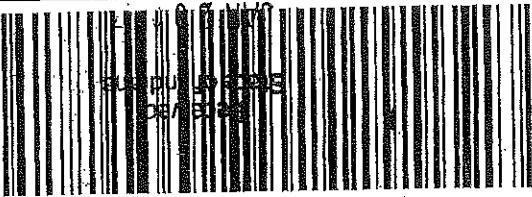
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Dept of Environmental Management  
Office of Air Quality

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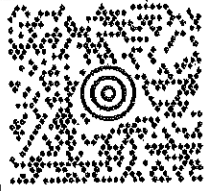


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765-964-3137  
CARDINAL ETHANOL, LLC  
1554 N. 600 E.  
UNION CITY IN 47390

1.0 LBS LTR 1 OF 1

Dept of Environmental Management  
Office of Air Quality

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# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Eric J. Holcomb**  
*Governor*

**Bruno L. Pigott**  
*Commissioner*

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jeffrey Painter  
Cardinal Ethanol, LLC  
1554 N 600 E  
Union City, IN 47390

DATE: February 17, 2017

FROM: Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

SUBJECT: Final Decision  
Interim Significant Source Modification  
135-38020I-00033

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 1/9/2017

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