



# 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)

**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

To: Interested Parties

Date: December 23, 2014

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

Source Name: POET Biorefining – Cloverdale LLC

Permit Level: Title V Administrative Amendment

Permit Number: 133-35024-00003

Source Location: 2265 E CR 800 S

Type of Action Taken: Changes that are administrative in nature

## Notice of Decision: Approval

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. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

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 number 35024.

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

*(continues on next page)*

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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 from 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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Thomas W. Easterly  
Commissioner

Mr. Luke Logan  
POET Biorefining - Cloverdale, LLC  
2265 East County Road 800 South  
Cloverdale, IN 46120

December 23, 2014

Re: 133-35024-00003  
Administrative Amendment to  
Part 70 133-31145-00003

Dear Mr. Logan,

POET Biorefining - Cloverdale, LLC was issued a Part 70 Permit No. 133-31145-00003 on June 26, 2012 for a stationary ethanol production facility located at 2265 East County Road 800 South, Cloverdale, IN 46120. On October 9, 2014, the Office of Air Quality (OAQ) received an application from the source requesting to increase the maximum throughput rate of the mash, fermentation, and distillation process, but not change the limits established for these processes.

Pursuant to the provisions of 326 IAC 2-7-11(a), the permit is hereby administratively amended as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as amended. The permit references the below listed attachments, since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this amendment:

- Attachment A: Fugitive Particulate Matter Emissions Control Plan
- Attachment B: 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
- Attachment C: 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.
- Attachment D: 40 CFR 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006.
- Attachment E: 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
- Attachment F: 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- Attachment G: 40 CFR 63, Subpart BBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities
- Attachment H: 40 CFR 63, Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

Previously issued approvals for this source containing these attachments are available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: [http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab\\_02.tpl](http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl).

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For



additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

If you have any questions on this matter, please contact Joshua Levering of my staff, at 317-234-6543 or 1-800-451-6027, and ask for extension 4-6543.

Sincerely,



Jenny Acker, Section Chief  
Permits Branch  
Office of Air Quality

Attachment(s): Updated Permit, Technical Support Document and Appendix A

JA/jjl

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



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**Part 70 Operating Permit  
OFFICE OF AIR QUALITY**

**POET Biorefining - Cloverdale, LLC  
2265 East County Road 800 South  
Cloverdale, Indiana 46120**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-2 and 326 IAC 2-7-10.5, applicable to those conditions.

|  |  |
|--|--|
| Operation Permit No.: T133-31145-00003   |  |
| Original Issued/Signed by:<br>Jenny Acker, Section Chief<br>Permits Branch<br>Office of Air Quality  | Issuance Date: June 26, 2012<br><br>Expiration Date: June 26, 2017     |
| Significant Permit Modification No.: 133-34343-00003, issued on July 03, 2014<br>Administrative Amendment No.: 133-34652-00003, issued on August 19, 2014                  |  |
| Administrative Amendment No.: 133-35024-00003  |  |
| Issued by:<br><br>Jenny Acker, Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: December 23, 2014<br><br>Expiration Date: June 26, 2017 |



**TABLE OF CONTENTS**

|                  |   |           |
|------------------|---|-----------|
| <b>SECTION A</b> | <b>SOURCE SUMMARY</b> .....   | <b>8</b>  |
| A.1              | General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)] .....  | 8         |
| A.2              | Emission Units and Pollution Control Equipment Summary<br>[326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)] .....                                      | 8         |
| A.3              | Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)] .....   | 11        |
| A.4              | Part 70 Permit Applicability [326 IAC 2-7-2] .....  | 13        |
| <b>SECTION B</b> | <b>GENERAL CONDITIONS</b> .....   | <b>14</b> |
| B.1              | Definitions [326 IAC 2-7-1] .....   | 14        |
| B.2              | Permit Term<br>[326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)] .....   | 14        |
| B.3              | Term of Conditions [326 IAC 2-1.1-9.5] .....  | 14        |
| B.4              | Enforceability [326 IAC 2-7-7] [IC 13-17-12] .....  | 14        |
| B.5              | Severability [326 IAC 2-7-5(5)] .....   | 14        |
| B.6              | Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)] .....  | 14        |
| B.7              | Duty to Provide Information [326 IAC 2-7-5(6)(E)] .....   | 14        |
| B.8              | Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)] .....   | 14        |
| B.9              | Annual Compliance Certification [326 IAC 2-7-6(5)] .....  | 15        |
| B.10             | Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3] .....  | 16        |
| B.11             | Emergency Provisions [326 IAC 2-7-16] .....   | 16        |
| B.12             | Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12] .....  | 18        |
| B.13             | Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5] .....  | 19        |
| B.14             | Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)] .....  | 19        |
| B.15             | Permit Modification, Reopening, Revocation and Reissuance, or Termination<br>[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9] .....     | 19        |
| B.16             | Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)] .....   | 20        |
| B.17             | Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12] .....   | 20        |
| B.18             | Permit Revision Under Economic Incentives and Other Programs<br>[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)] .....                                | 21        |
| B.19             | Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5] .....  | 21        |
| B.20             | Source Modification Requirement [326 IAC 2-7-10.5] .....  | 22        |
| B.21             | Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2] .....  | 22        |
| B.22             | Transfer of Ownership or Operational Control [326 IAC 2-7-11] .....   | 23        |
| B.23             | Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7] .....   | 23        |
| B.24             | Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6] .....   | 24        |
| <b>SECTION C</b> | <b>SOURCE OPERATION CONDITIONS</b> .....  | <b>25</b> |
|                  | <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....  | <b>25</b> |
| C.1              | Particulate Emission Limitations For Processes with Process Weight Rates Less<br>Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2] ..... | 25        |
| C.2              | Opacity [326 IAC 5-1] .....   | 25        |
| C.3              | Open Burning [326 IAC 4-1] [IC 13-17-9] .....   | 25        |
| C.4              | Incineration [326 IAC 4-2] [326 IAC 9-1-2] .....  | 25        |
| C.5              | Fugitive Dust Emissions [326 IAC 6-4] .....   | 25        |
| C.6              | Fugitive Particulate Matter Emission Limitations [326 IAC 6-5] .....  | 25        |
| C.7              | Stack Height [326 IAC 1-7] .....  | 25        |
| C.8              | Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] .....   | 26        |
|                  | <b>Testing Requirements [326 IAC 2-7-6(1)]</b> .....  | <b>27</b> |
| C.9              | Performance Testing [326 IAC 3-6] .....   | 27        |
|                  | <b>Compliance Requirements [326 IAC 2-1.1-11]</b> .....   | <b>27</b> |
| C.10             | Compliance Requirements [326 IAC 2-1.1-11] .....  | 27        |

|  |           |
|--|-----------|
| <b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....   | <b>27</b> |
| C.11 Compliance Monitoring<br>[326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8] .....   | 27        |
| C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)] .....  | 28        |
| <b>Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]</b> .....  | <b>28</b> |
| C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3] .....   | 28        |
| C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68] .....  | 29        |
| C.15 Response to Excursions or Exceedances [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5]<br>[326 IAC 2-7-6].....                                 | 29        |
| C.16 Actions Related to Noncompliance Demonstrated by a Stack Test<br>[326 IAC 2-7-5][326 IAC 2-7-6] .....                                 | 31        |
| <b>Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....   | <b>32</b> |
| C.17 Emission Statement<br>[326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6] .....                              | 32        |
| C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] .....  | 32        |
| C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]<br>[40 CFR 64][326 IAC 3-8] .....                             | 33        |
| <b>Stratospheric Ozone Protection</b> .....  | <b>34</b> |
| C.20 Compliance with 40 CFR 82 and 326 IAC 22-1 .....  | 34        |
| <b>SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS - Grain and Handling</b>  |           |
| <b>Process</b> .....   | <b>35</b> |
| <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>36</b> |
| D.1.1 PSD Minor Limits [326 IAC 2-2] .....   | 36        |
| D.1.2 Particulate Emission Limitations [326 IAC 6-3-2].....  | 36        |
| D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)] .....  | 37        |
| <b>Compliance Determination Requirements</b> .....   | <b>37</b> |
| D.1.4 Particulate Control.....   | 37        |
| D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11].....  | 37        |
| <b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....   | <b>38</b> |
| D.1.6 Visible Emissions Notations.....   | 38        |
| D.1.7 Baghouse Parametric Monitoring.....  | 38        |
| D.1.8 Broken or Failed Bag Detection .....   | 39        |
| <b>Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....  | <b>39</b> |
| D.1.9 Record Keeping Requirements .....  | 39        |
| <b>SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS - Mash Preparation,<br/>Fermentation, Distillation, and Dehydration Process</b> .....   | <b>40</b> |
| <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>41</b> |
| D.2.1 VOC and HAP Minor Limits [326 IAC 2-2] [326 IAC 2-4.1].....  | 41        |
| D.2.2 VOC Emissions [326 IAC 8-5-6] .....  | 41        |
| D.2.3 National Emission Standards for Hazardous Air Pollutants for Chemical<br>Manufacturing Area Sources [40 CFR 63, Subpart VVVVVV]..... | 42        |
| D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)] .....  | 42        |
| <b>Compliance Determination Requirements</b> .....   | <b>42</b> |
| D.2.5 VOC and HAP Control .....  | 42        |
| D.2.6 Scrubber Failure Detection .....   | 42        |
| D.2.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 8-5-6] .....   | 43        |
| <b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....   | <b>43</b> |
| D.2.8 Parametric Monitoring [326 IAC 8-5-6] .....  | 43        |

|  |           |
|--|-----------|
| <b>Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....                              | <b>44</b> |
| D.2.9 Record Keeping Requirements .....  | 44        |
| <b>SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS - Evaporation Process, DDGS<br/>Dryer and Cooling Process</b> ..... | <b>45</b> |
| <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>45</b> |
| D.3.1 PSD and HAP Minor Limits [326 IAC 2-2] [326 IAC 2-4.1] .....   | 45        |
| D.3.2 VOC Emissions [326 IAC 8-5-6] .....  | 46        |
| D.3.3 Particulate Emission Limitations [326 IAC 6-3-2] .....   | 46        |
| D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)] .....  | 47        |
| <b>Compliance Determination Requirements</b> .....   | <b>47</b> |
| D.3.5 Particulate, VOC, CO and HAP Control .....   | 47        |
| D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 8-5-6] .....                             | 47        |
| <b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....                                   | <b>48</b> |
| D.3.7 Visible Emissions Notations .....  | 48        |
| D.3.8 Baghouse Parametric Monitoring .....   | 48        |
| D.3.9 Broken or Failed Bag Detection .....   | 48        |
| D.3.10 Thermal Oxidation Temperature [326 IAC 8-5-6] .....   | 49        |
| D.3.11 Parametric Monitoring [326 IAC 8-5-6] .....   | 49        |
| <b>Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....                              | <b>49</b> |
| D.3.12 Record Keeping Requirements .....   | 49        |
| <b>SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS - Denatured Ethanol<br/>Loading Racks</b> .....                     | <b>51</b> |
| <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>51</b> |
| D.4.1 PSD Minor Limits [326 IAC 2-2] .....   | 51        |
| D.4.2 VOC Emissions [326 IAC 8-5-6] .....  | 51        |
| D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)] .....  | 52        |
| <b>Compliance Determination Requirements</b> .....   | <b>52</b> |
| D.4.4 VOC Control .....  | 52        |
| D.4.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 8-5-6] .....                             | 52        |
| <b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....                                   | <b>52</b> |
| D.4.6 Visible Emissions Notations .....  | 52        |
| D.4.7 Flare Pilot Flame [326 IAC 8-5-6] .....  | 53        |
| <b>Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....                              | <b>53</b> |
| D.4.8 Record Keeping Requirements .....  | 53        |
| D.4.9 Reporting Requirements .....   | 53        |
| <b>SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS - Natural Gas Fired<br/>Combustion Units</b> .....                  | <b>54</b> |
| <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>54</b> |
| D.5.1 PSD Minor Limits [326 IAC 2-2] .....   | 54        |
| D.5.2 Particulate Emissions [326 IAC 6-2-4] .....  | 54        |
| D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)] .....  | 54        |
| <b>Compliance Determination Requirements</b> .....   | <b>54</b> |
| D.5.4 Continuous Emissions Monitoring [326 IAC 3-5] .....  | 54        |
| <b>Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....                             | <b>55</b> |
| D.5.5 Record Keeping Requirements .....  | 55        |
| D.5.6 Reporting Requirements .....   | 55        |

|                    |  |           |
|--------------------|--|-----------|
| <b>SECTION D.6</b> | <b>EMISSIONS UNIT OPERATION CONDITIONS - Diesel Fired Combustion</b>   |           |
|                    | <b>Units</b> .....   | <b>56</b> |
|                    | <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>56</b> |
| D.6.1              | PSD Minor Limits [326 IAC 2-2] .....   | 56        |
|                    | <b>Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....   | <b>57</b> |
| D.6.2              | Record Keeping Requirements .....  | 57        |
| D.6.3              | Reporting Requirements .....   | 57        |
| <b>SECTION D.7</b> | <b>FACILITY OPERATION CONDITIONS – Storage Tanks and Gasoline Dispensing Operation</b> .....   | <b>58</b> |
|                    | <b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....   | <b>59</b> |
| D.7.1              | Volatile Organic Compounds (VOC) [326 IAC 8-4-3] .....   | 59        |
| D.7.2              | National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources [40 CFR 63, Subpart VVVVVV] .....   | 59        |
| D.7.3              | Volatile Organic Compounds (VOC) [326 IAC 8-4-6] .....   | 59        |
|                    | <b>Compliance Determination Requirements</b> .....   | <b>59</b> |
| D.7.4              | Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11] .....  | 59        |
|                    | <b>Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b> .....  | <b>60</b> |
| D.7.5              | Record Keeping Requirements .....  | 60        |
| D.7.6              | Reporting Requirements .....   | 60        |
| <b>SECTION E.1</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units</b> .....   | <b>61</b> |
|                    | <b>New Source Performance Standard Requirements</b> .....  | <b>61</b> |
| E.1.1              | General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A] .....  | 61        |
| E.1.2              | Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db] [326 IAC 12] .....   | 61        |
| <b>SECTION E.2</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984</b> ..... | <b>62</b> |
|                    | <b>New Source Performance Standard Requirements</b> .....  | <b>62</b> |
| E.2.1              | General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A] .....  | 62        |
| E.2.2              | Standards of Performance for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 [40 CFR 60, Subpart Kb] [326 IAC 12] .....  | 63        |
| <b>SECTION E.3</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006</b> ..... | <b>64</b> |
|                    | <b>New Source Performance Standard Requirements</b> .....  | <b>65</b> |
| E.3.1              | General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A] .....  | 65        |
| E.3.2              | Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry [40 CFR 60, Subpart VVa] [326 IAC 12] .....  | 66        |

|                    |   |           |
|--------------------|---|-----------|
| <b>SECTION E.4</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)</b> .....  | <b>67</b> |
|                    | <b>New Source Performance Standard Requirements</b> .....   | <b>67</b> |
| E.4.1              | General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A].....  | 67        |
| E.4.2              | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII] [326 IAC 12].....  | 67        |
| <b>SECTION E.5</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)</b> .....                      | <b>69</b> |
|                    | <b>National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements</b> .....  | <b>69</b> |
| E.5.1              | General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A] .....  | 69        |
| E.5.2              | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82] .....   | 69        |
| <b>SECTION E.6</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 63, Subpart BBBBBB - National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Bulk Terminals, Bulk Plants, and Pipeline Facilities</b> ..... | <b>70</b> |
|                    | <b>National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements</b> .....  | <b>70</b> |
| E.6.1              | General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A] .....  | 70        |
| E.6.2              | National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline [40 CFR 63, Subpart BBBBBB] .....  | 71        |
| <b>SECTION E.7</b> | <b>FACILITY OPERATION CONDITIONS - 40 CFR 63, Subpart CCCCCC - National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities</b> .....                                | <b>72</b> |
|                    | <b>National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements</b> .....  | <b>72</b> |
| E.7.1              | General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A] .....  | 72        |
| E.7.2              | National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities [40 CFR 63, Subpart CCCCCC] .....  | 72        |

**Attachment A: Fugitive Particulate Matter Emissions Control Plan**

**Attachment B: 40 CFR 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units**

**Attachment C: 40 CFR 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984**

**Attachment D: 40 CFR 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After November 7, 2006**

**Attachment E: 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**Attachment F: 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**Attachment G: 40 CFR 63, Subpart BBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities**

**Attachment H: 40 CFR 63, Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities**

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

---

The Permittee owns and operates a stationary ethanol production facility.

|                              |   |
|------------------------------|---|
| Source Address:              | 2265 East County Road 800 South, Cloverdale, Indiana<br>46120   |
| General Source Phone Number: | (765) 795-3235  |
| SIC Code:                    | 2869 & 2048   |
| County Location:             | Putnam  |
| Source Location Status:      | Attainment for all criteria pollutants  |
| Source Status:               | Part 70 Operating Permit Program<br>Minor Source, under PSD and Emission Offset Rules<br>Minor Source, Section 112 of the Clean Air Act<br>Greenhouse Gas (GHG) potential to emit (PTE) is equal to or more than one hundred thousand (100,000) tons of CO2 equivalent emissions (CO2e) per year<br>Minor Source, Section 112 of the Clean Air Act<br>Nested Source with fossil fuel fired boilers totaling more than two hundred fifty million (250,000,000) British thermal units per hour heat input, as 1 of 28 Source Categories, within a non-listed source |

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

---

This stationary source consists of the following emission units and pollution control devices:

Grain Handling Process:

- (a) Three (3) truck dump pits, collectively identified as EU001, originally constructed in March 2008, obtaining new operation approval in 2010, with a combined maximum throughput rate of 50,000 bushels of corn per hour, using a baghouse (CE001) for particulate control, and exhausting through stack SV001.
- (b) One (1) grain handling operation, originally constructed in March 2008, obtaining new operation approval in 2010, using a baghouse (CE001) for particulate control, exhausting through stack SV001, and consisting of the following:
  - (1) One (1) grain conveyor, identified as EU002, with a maximum throughput rate of 50,000 bushels of grain per hour.
  - (2) One (1) grain elevator, identified as EU003, with a maximum throughput rate of 50,000 bushels of grain per hour.
- (c) Four (4) grain storage silos, with two (2) originally constructed in March 2008 and obtaining new operation approval in 2010, and two (2) approved in 2010 for construction, identified as EU004 through EU007, with a total maximum combined capacity of

2,200,000 bushels, using a baghouse (CE001) for particulate control, and exhausting through stack SV001.

- (d) One (1) scalper, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU008, with a maximum throughput rate of 6,000 bushels of grain per hour, using a baghouse (CE003) for particulate control, and exhausting through stack SV003.
- (e) One (1) conveyor transfer and surge bin, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU009, with a maximum throughput rate of 6,000 bushels of grain per hour, using a baghouse (CE003) for particulate control, and exhausting through stack SV003.
- (f) Seven (7) hammermills, approved in 2010 for construction, identified as EU010 through EU016, each with a maximum throughput rate of 23 tons per hour, using baghouses (CE004 through CE010) for particulate control, respectively, and exhausting through stacks SV004 through SV010, respectively.
- (g) One (1) DDGS truck loadout process, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU041, with a maximum throughput rate of 400 tons of DDGS per hour, using a baghouse (CE001) for particulate control, and exhausting to stack SV001.
- (h) One (1) DDGS rail loadout process, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU042, with a maximum throughput rate of 400 tons of DDGS per hour, using a baghouse (CE001) for particulate control, and exhausting to stack SV001.

Mash Preparation, Fermentation, Distillation, and Dehydration Process:

- (i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of 96,360 gallons per hour, using a wet scrubber (CE011) for VOC/HAP control, exhausting through stack SV011, and consisting of the following:

- (1) One (1) slurry tank, identified as EU017.
- (2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of 96,360 gallons per hour, using a wet scrubber (CE012) for VOC/HAP control, exhausting through stack SV012. During wet scrubber downtime, emissions from the fermentation process are vented directly to regenerative thermal oxidizers (CE015 & CE016) through a scrubber bypass. This process consists of the following:

- (1) Six (6) fermenters, identified as EU019 through EU024.
- (2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of 83,640 gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

- (1) One degas column, identified as EU027.
- (2) One (1) beer stripper, identified as EU028.
- (3) One (1) rectifier column, identified as EU029.
- (4) One (1) side stripper, identified as EU030.
- (5) One (1) set of three (3) molecular sieve, identified as EU031.
- (6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

Evaporation Process, DDGS Dryer, & Cooling Process:

- (l) One (1) stillage process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum DDGS production of 376,445 tons per year, using two (2) 30 MMBtu/hr regenerative thermal oxidizers (CE015 & CE016) for VOC/HAP control, approved in 2010 for construction, exhausting through stack SV014, and consisting of the following:

- (1) One (1) set of four (4) centrifuges, identified as EU033, originally constructed in March 2008.
- (2) Two (2) natural gas fired DDGS dryers, identified as EU034 and EU035, originally constructed in March 2008, each with a maximum heat input rate of 83 MMBtu/hr, and each with a total maximum throughput rate of 25 tons of DDGS per hour.

- (m) One (1) DDGS fluid bed cooler, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU038, with a maximum throughput rate of 40 tons of DDGS per hour, using a baghouse (CE014) for particulate control, with emissions vented to and controlled by RTOs (CE015 & CE016), and exhausting to stack SV014.

Note: The RTO must occasionally be temporarily shut down for maintenance or other operational reasons. In this event, the DDGS dryers and fluid bed cooler will be shut down.

- (n) One (1) DDGS storage building/flat storage, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU039, using a baghouse (CE017) for particulate control, and exhausting to stack SV017.

#### Denatured Ethanol Storage and Loadout Racks:

- (o) One (1) ethanol loadout rack (one rail loadouts utilizing top loading only and two truck loadout utilizing submerged loading only), originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU043, with a maximum throughput rate of 118.25 million gallons per year. The loadout process is controlled by an enclosed flare (CE018), which is fueled by natural gas and has a maximum heat input capacity of 6.8 MMBtu per hour, and exhausting through stack SV018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

#### Natural Gas Fired Combustion Units:

- (p) Two (2) natural gas fired boilers, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU036 and EU037, each with a rated heat capacity of 145.3 MMBtu/hr, exhausting to stacks SV015 and SV016.

Under NSPS, 40 CFR 60, Subpart Db, these units are considered affected facilities.

#### Diesel Fired Combustion Unit:

- (q) One (1) diesel generator, approved in 2010 for construction, identified as EU044, with a rated capacity of 2,000 KW, exhausting to SV019.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

### A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including space heaters with a combined heat input capacity not to exceed 2.5 million (2,500,000) Btu per hour.
- (b) Other emission units, not regulated by a NESHAP, with PM<sub>10</sub>, NO<sub>x</sub>, and SO<sub>2</sub> emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

- (1) One (1) denaturant storage tank, identified as T001, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 180,000 gallons of denaturant.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBBBB, this unit is considered a new affected source.

- (2) One (1) 200 proof ethanol shift tank, identified as T002, originally constructed in March 2008, obtaining new operation approval in 2010, with a capacity of 180,000 gallons.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this tank are considered to be affected facilities.

- (3) Two (2) 200 proof ethanol storage tanks, identified as T003 and T004, originally constructed in March 2008, obtaining new operation approval in 2010, each with a maximum capacity of 1,000,000 gallons of denatured ethanol.

Under NSPS, Subpart Kb, these units are considered affected facilities.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of these tanks are considered to be affected facilities.

- (4) One (1) denaturant storage tank, identified as T005, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 60,000 gallons of denatured gasoline.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBBBB, this unit is considered a new affected source.

- (c) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (d) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (e) Replacement or repair of bags in baghouses and filters in other air filtration equipment.
- (f) Underground conveyors, including underground grain and product transfer conveyors.
- (g) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (h) Stationary fire pumps, including one (1) diesel fire pump, identified as EU045, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum power output rate of 600 horsepower, and exhausting to stack SV020.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

- (i) Paved roads and parking lots with public access. [326 IAC 6-4]

- (j) A gasoline dispensing operation for plant vehicles with a 300 gallon capacity storage tank, installed in 2007, and with an estimated annual throughput of 3,600 gallons per year.

Under NESHAP, Subpart CCCCCC, this is considered a new affected source.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-7-1]

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

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- (a) This permit, T133-31145-00003, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-7-5(5)]

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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This permit does not convey any property rights of any sort or any exclusive privilege.

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

### B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

---

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
  - (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

**B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the

affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

- (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
- (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T133-31145-00003 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.

- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

**B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]**

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.18 Permit Revision Under Economic Incentives and Other Programs**  
[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

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- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

**B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]**

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)

77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as

such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C SOURCE OPERATION CONDITIONS

### Entire Source

#### Emission Limitations and Standards [326 IAC 2-7-5(1)]

- C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]  
Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.
- C.2 Opacity [326 IAC 5-1]  
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]  
The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]  
The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.
- C.5 Fugitive Dust Emissions [326 IAC 6-4]  
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.
- C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]  
Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A. The provisions of 326 IAC 6-5 are not federally enforceable.
- C.7 Stack Height [326 IAC 1-7]  
The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
- (A) Asbestos removal or demolition start date;
- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

**Testing Requirements [326 IAC 2-7-6(1)]**

**C.9 Performance Testing [326 IAC 3-6]**

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:
- Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

**Compliance Requirements [326 IAC 2-1.1-11]**

**C.10 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

**Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]**

**C.11 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]**

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- (a) For new units:  
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:  
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may

extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

**C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]**

**C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than ninety (90) days after the date of issuance of this permit.

The ERP does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5]  
[326 IAC 2-7-6]

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- (l) Upon detecting an excursion where a response step is required by the D Section, or an exceedance of a limitation, not subject to CAM, in this permit:
  - (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
  - (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
    - (1) initial inspection and evaluation;
    - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
    - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.

- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
    - (1) monitoring results;
    - (2) review of operation and maintenance procedures and records; and/or
    - (3) inspection of the control device, associated capture system, and the process.
  - (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
  - (e) The Permittee shall record the reasonable response steps taken.
- (II)
- (a) *CAM Response to excursions or exceedances.*
    - (1) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
    - (2) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
  - (b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
  - (c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a QIP. The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.

- (d) Elements of a QIP:  
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).
- (e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:
  - (1) Failed to address the cause of the control device performance problems;  
or
  - (2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.
- (h) CAM recordkeeping requirements.
  - (1) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to paragraph (II)(a)(2) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.
  - (2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]  
Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(33) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]  
(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]  
[40 CFR 64][326 IAC 3-8]

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

- (1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- (2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- (3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C-Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

- (b) The address for report submittal is:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **Stratospheric Ozone Protection**

#### **C.20 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS - Grain and Handling Process

### Emissions Unit Description:

#### Grain Handling Process:

- (a) Three (3) truck dump pits, collectively identified as EU001, originally constructed in March 2008, obtaining new operation approval in 2010, with a combined maximum throughput rate of 50,000 bushels of corn per hour, using a baghouse (CE001) for particulate control, and exhausting through stack SV001.
- (b) One (1) grain handling operation, originally constructed in March 2008, obtaining new operation approval in 2010, using a baghouse (CE001) for particulate control, exhausting through stack SV001, and consisting of the following:
  - (1) One (1) grain conveyor, identified as EU002, with a maximum throughput rate of 50,000 bushels of grain per hour.
  - (2) One (1) grain elevator, identified as EU003, with a maximum throughput rate of 50,000 bushels of grain per hour.
- (c) Four (4) grain storage silos, with two (2) originally constructed in March 2008 and obtaining new operation approval in 2010, and two (2) approved in 2010 for construction, identified as EU004 through EU007, with a total maximum combined capacity of 2,200,000 bushels, using a baghouse (CE002) for particulate control, and exhausting through stack SV002.
- (d) One (1) scalper, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU008, with a maximum throughput rate of 6,000 bushels of grain per hour, using a baghouse (CE003) for particulate control, and exhausting through stack SV003.
- (e) One (1) conveyor transfer and surge bin, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU009, with a maximum throughput rate of 6,000 bushels of grain per hour, using a baghouse (CE003) for particulate control, and exhausting through stack SV003.
- (f) Seven (7) hammermills, approved in 2010 for construction, identified as EU010 through EU016, each with a maximum throughput rate of 23 tons per hour, using baghouses (CE004 through CE010) for particulate control, respectively, and exhausting through stacks SV004 through SV010, respectively.
- (g) One (1) DDGS truck loadout process, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU041, with a maximum throughput rate of 400 tons of DDGS per hour, using a baghouse (CE001) for particulate control, and exhausting to stack SV001.
- (h) One (1) DDGS rail loadout process, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU042, with a maximum throughput rate of 400 tons of DDGS per hour, using a baghouse (CE001) for particulate control, and exhausting to stack SV001.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.1.1 PSD Minor Limits [326 IAC 2-2]**

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, PM, PM10, and PM2.5 emissions from the following units shall not exceed the emission limits listed in the table below:

| Unit ID                     | Stack ID | Unit Description  | Baghouse ID | PM Emission Limit (lb/hr) | PM10 Emission Limit (lb/hr) | PM2.5 Emission Limit (lb/hr) |
|-----------------------------|----------|---|-------------|---------------------------|-----------------------------|------------------------------|
| EU001 - EU007, EU041, EU042 | SV001    | Grain Receiving, Grain Handling, Grain Storage & DDGS Loading | CE001       | 3.41 (Combined)           | 3.60 (Combined)             | 0.92 (Combined)              |
| EU008, EU009                | SV003    | Scalper and Conveyor Transfer / Surge Bin                     | CE003       | 0.72 (Combined)           | 0.76 (Combined)             | 0.20 (Combined)              |
| EU010                       | SV004    | Hammermill #1   | CE004       | 1.23                      | 1.29                        | 0.34                         |
| EU011                       | SV005    | Hammermill #2   | CE005       | 1.23                      | 1.29                        | 0.34                         |
| EU012                       | SV006    | Hammermill #3   | CE006       | 1.23                      | 1.29                        | 0.34                         |
| EU013                       | SV007    | Hammermill #4   | CE007       | 1.23                      | 1.29                        | 0.34                         |
| EU014                       | SV008    | Hammermill #5   | CE008       | 1.23                      | 1.29                        | 0.34                         |
| EU015                       | SV009    | Hammermill #6   | CE009       | 1.23                      | 1.29                        | 0.34                         |
| EU016                       | SV010    | Hammermill #7   | CE010       | 1.23                      | 1.29                        | 0.34                         |

Compliance with these limits, combined with the limits in Condition D.3.1 and the potential to emit of PM, PM10, and PM2.5 from other units at the source, shall limit the PM, PM10, and PM2.5 emissions from the entire source to less than two hundred fifty (250) tons per twelve (12) consecutive month period each and render the requirements of 326 IAC 2-2 (PSD) not applicable.

**D.1.2 Particulate Emission Limitations [326 IAC 6-3-2]**

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limitations listed in the table below when operating at the maximum process weight rates listed below:

| Stack ID | Unit ID     | Unit Description                 | Max. Process Weight Rate (ton/hr) | Particulate Emission Limit (lb/hr) |
|----------|-------------|----------------------------------|-----------------------------------|------------------------------------|
| SV001    | EU001       | Three (3) Truck Dump Pits        | 1,400                             | 82.02                              |
|          | EU002       | Grain Conveyor                   | 1,400                             | 82.02                              |
|          | EU003       | Grain Elevator                   |                                   |                                    |
|          | EU004-EU007 | Storage: (4) Grain Storage Silos | 1,400                             | 82.02                              |
|          | EU041       | DDGS Truck Loading               | 400                               | 66.31                              |
|          | EU042       | DDGS Rail Loading                | 400                               | 66.31                              |
| SV003    | EU008       | Scalper                          | 168                               | 56.64                              |
|          | EU009       | Conveyor Transfer / Surge Bin    |                                   |                                    |
| SV004    | EU010       | Hammermill #1                    | 23                                | 33.51                              |
| SV005    | EU011       | Hammermill #2                    | 23                                | 33.51                              |
| SV006    | EU012       | Hammermill #3                    | 23                                | 33.51                              |
| SV007    | EU013       | Hammermill #4                    | 23                                | 33.51                              |
| SV008    | EU014       | Hammermill #5                    | 23                                | 33.51                              |
| SV009    | EU015       | Hammermill #6                    | 23                                | 33.51                              |
| SV010    | EU016       | Hammermill #7                    | 23                                | 33.51                              |

The pounds per hour limitations were calculated using the following equations:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

- (b) Pursuant to 326 IAC 6-3-2(e)(3), when the process weight exceeds 200 tons per hour, the maximum allowable emission may exceed the emission limits shown in the table above, provided the concentration of particulate matter in the gas discharged to the atmosphere is less than 0.10 pounds per 1,000 pounds of gases.

**D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]**

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the plan required by this condition.

**Compliance Determination Requirements**

**D.1.4 Particulate Control**

- (a) In order to ensure compliance with Conditions D.1.1 and D.1.2, the baghouses for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below:

| Unit ID                        | Unit Description   | Baghouse ID |
|--------------------------------|--|-------------|
| EU001 - EU007,<br>EU041, EU042 | Grain Receiving, Grain Handling,<br>Grain Storage & DDGS Loading | CE001       |
| EU008, EU009                   | Scalper and Conveyor Transfer /<br>Surge Bin                     | CE003       |
| EU010                          | Hammermill #1  | CE004       |
| EU011                          | Hammermill #2  | CE005       |
| EU012                          | Hammermill #3  | CE006       |
| EU013                          | Hammermill #4  | CE007       |
| EU014                          | Hammermill #5  | CE008       |
| EU015                          | Hammermill #6  | CE009       |
| EU016                          | Hammermill #7  | CE010       |

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

**D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM, PM10, and PM2.5 testing for the units listed below at least once every five (5) years from the date of the most recent valid compliance demonstration utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6

(Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 include filterable and condensable particulate combined.

- (a) Baghouse CE001, controlling emissions from the grain receiving and handling, (EU001 through EU003), Grain Storage (EU004 through EU007), and DDGS loading (EU041 and EU042).
- (b) Baghouse CE003, controlling emissions from the scalper and conveyor transfer (EU008) and surge bin (EU009).
- (c) One baghouse from group CE004 through CE010, controlling emissions from the respective hammermills (EU010 through EU016). A different representative hammermill stack shall be tested during each compliance testing demonstration until such time that all hammermill baghouse exhausts have been tested. The testing cycle shall then begin again with the first hammermill baghouse tested.

### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]**

#### **D.1.6 Visible Emissions Notations**

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- (a) Visible emission notations of the baghouse stack exhausts (stacks SV001 through SV010) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

#### **D.1.7 Baghouse Parametric Monitoring**

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The Permittee shall record the pressure drop across the baghouses (CE001 and CE003 through CE010) used in conjunction with the grain receiving, handling, DDGS loading operations (EU001 through EU003, EU041, and EU042), the grain storage silos (EU004 through EU007), scalper and conveyor transfer / surge bin (EU008 and EU009), and hammermills (EU010 through EU016), at least once per day when these units are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range, the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 0.5 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

#### D.1.8 Broken or Failed Bag Detection

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed units has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.1.9 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.1.6, the Permittee shall maintain records of once per day visible emission notations of the baghouse stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Condition D.1.7, the Permittee shall maintain once per day records of the pressure drop across the baghouses. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of the pressure drop reading (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the response steps required by this condition.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS - Mash Preparation, Fermentation, Distillation, and Dehydration Process

### Emissions Unit Description:

Mash Preparation, Fermentation, Distillation, and Dehydration Process:

- (i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of 93,360 gallons per hour, using a wet scrubber (CE011) for VOC/HAP controls, exhausting through stack SV011, and consisting of the following:

- (1) One (1) slurry tank, identified as EU017.
- (2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of 96,360 gallons per hour, using a wet scrubber (CE012) for VOC/HAP controls, exhausting through stack SV012. During wet scrubber downtime, emissions from the fermentation process are vented directly to regenerative thermal oxidizer (CE015 & CE016) through a scrubber bypass. This process consists of the following:

- (1) Six (6) fermenters, identified as EU019 through EU024.
- (2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of 83,640 gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

- (1) One degas column, identified as EU027.
- (2) One (1) beer stripper, identified as EU028.
- (3) One (1) rectifier column, identified as EU029.
- (4) One (1) side stripper, identified as EU030.
- (5) One (1) set of three (3) molecular sieve, identified as EU031.
- (6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

(The information describing the process contained in this facility description box is descriptive information

and does not constitute enforceable conditions.)

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

#### **D.2.1 VOC and HAP Minor Limits [326 IAC 2-2] [326 IAC 2-4.1]**

In order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable, the Permittee shall comply with the following:

- (a) Mash Preparation Process:
  - (1) VOC emissions from scrubber CE011 shall not exceed 3.87 lb/hr.
  - (2) Combined HAP emissions from scrubber CE011 shall not exceed 0.15 lb/hr.
  - (3) Acetaldehyde emissions from scrubber CE011 shall not exceed 0.05 lb/hr.
- (b) Fermentation Process:
  - (1) VOC emissions from scrubber CE012 shall not exceed 25.64 lb/hr.
  - (2) Combined HAP emissions from scrubber CE012 shall not exceed 0.99 lb/hr.
  - (3) Acetaldehyde emissions from scrubber CE012 shall not exceed 0.70 lb/hr.
- (c) Distillation and Dehydration Process:
  - (1) VOC emissions from scrubber CE013 shall not exceed 2.39 lb/hr.
  - (2) Combined HAP emissions from scrubber CE013 shall not exceed 0.75 lb/hr.
  - (3) Acetaldehyde emissions from scrubber CE013 shall not exceed 0.45 lb/hr.

Compliance with these limits, combined with Conditions D.3.1 and D.4.1 and the potential to emit VOC and HAP from other units, shall limit the VOC emissions from the entire source to less than two hundred fifty (250) tons per twelve (12) consecutive month period, and shall limit the HAP emissions from the entire source to less than ten (10) tons per twelve (12) consecutive month period for any single HAP and to less than twenty-five (25) tons per twelve (12) consecutive month period for any combination of HAPs. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) are not applicable.

#### **D.2.2 VOC Emissions [326 IAC 8-5-6]**

Pursuant to 326 IAC 8-5-6 (Fuel Grade Ethanol Production at Dry Mills), the Permittee shall comply with the following:

- (a) The VOC emissions from the mash preparation process shall be controlled at all times by wet scrubber CE011.
- (b) The overall control efficiency for the mash preparation wet scrubber (CE011) (including the capture efficiency and adsorption efficiency) shall be at least 98%, or the VOC outlet concentration shall not exceed 20 ppmv.
- (c) The VOC emissions from the fermentation process shall be controlled at all times by wet scrubber CE012. During wet scrubber downtime, emissions from the fermentation process are vented directly to regenerative thermal oxidizer (CE015 & CE016) through a scrubber bypass.

- (d) The overall control efficiency for the fermentation wet scrubber (CE012) (including the capture efficiency and adsorption efficiency) shall be at least 98%, or the VOC outlet concentration shall not exceed 20 ppmv.
- (e) The VOC emissions from the distillation and dehydration process shall be controlled by wet scrubber CE013.
- (f) The overall control efficiency for the distillation and dehydration wet scrubber (CE013) (including the capture efficiency and adsorption efficiency) shall be at least 98%, or the VOC outlet concentration shall not exceed 20 ppmv.

**D.2.3 National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources [40 CFR 63, Subpart VVVVVV]**

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In order to render the requirements of the NESHAP for Chemical Manufacturing Area Sources, 40 CFR Part 63, Subpart VVVVVV, not applicable, the Permittee shall comply with the following at CE012 and at EU025 and EU026:

Any HAP listed in Table 1 of 40 CFR 63, Subpart VVVVVV, that is generated or produced in the chemical manufacturing process unit (CMPU) and is present in process fluid shall be less than 0.1 percent for carcinogens, as defined by the Occupational Safety and Health Administration at 29 CFR 1910.1200(d)(4), and less than 1.0 percent for noncarcinogens.

Compliance with this limit, in conjunction with the limit in Condition D.7.2, shall render the requirements of 40 CFR Part 63, Subpart VVVVVV (National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources) not applicable.

**D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]**

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A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the plan required by this condition.

**Compliance Determination Requirements**

**D.2.5 VOC and HAP Control**

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In order to ensure compliance with Conditions D.2.1 and D.2.2, the following shall apply:

- (a) The wet scrubber CE011 shall be in operation and control emissions from the mash preparation process at all times that this process is in operation.
- (b) The wet scrubber CE012 shall be in operation and control emissions from the fermentation process at all times that this process is in operation.
- (c) The wet scrubber CE013 shall be in operation and control emissions from the distillation and dehydration process at all times that this process is in operation.

**D.2.6 Scrubber Failure Detection**

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In the event that a scrubber malfunction has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

**D.2.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 8-5-6]**

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- (a) In order to demonstrate compliance with Conditions D.2.1 and D.2.2, the Permittee shall perform VOC (including emission rate, destruction efficiency, and capture efficiency) and acetaldehyde testing for scrubbers CE011, CE012, and CE013 at least once every five (5) years from the date of the most recent valid compliance demonstration utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
  
- (b) In order to demonstrate compliance with Condition D.2.3, and to verify that the Acetaldehyde is present in process fluid at less than 0.1 percent, the Permittee shall perform Acetaldehyde testing of the process fluid from one of the beer wells, identified as EU025 or EU026, from the process fluid from the bottom of the scrubber, identified as CE012, and from the process fluid from the bottom of the beer stripper, identified as EU028, not later than 180 days after the issuance date of this Part 70 Operating Permit No. T133-31145-00003 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

**Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]**

**D.2.8 Parametric Monitoring [326 IAC 8-5-6]**

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- (a) The Permittee shall monitor and record the flow rate of scrubbers CE011, CE012, and CE013 at least once per day when the associated processes are in operation.
  - (1) From the date of startup until the latest valid stack test results are available, the Permittee shall maintain the flow rate at or above the minimum values below. If the flow rate falls below the minimum values below, the Permittee shall take a reasonable response.

| Scrubber ID | Associated Process         | Minimum Flow Rate      |
|-------------|----------------------------|------------------------|
| CE011       | Mash Preparation           | 3 gallons per minute   |
| CE012       | Fermentation               | 100 gallons per minute |
| CE013       | Distillation & Dehydration | 10 gallons per minute  |

- (2) The Permittee shall determine the minimum flow rate from the latest valid stack test that demonstrates compliance with the limits in Conditions D.2.1 and D.2.2.
  - (3) On and after the date the stack test results are available, the Permittee shall maintain a flow rate at or above the minimum rate as observed during the latest compliant stack test. If the flow rate falls below the level observed during the latest compliant stack test, the Permittee shall take a reasonable response.
  
- (b) The Permittee shall monitor and record the pressure drop across the scrubbers CE011, CE012, and CE013 at least once per day when the associated processes are in operation. When for any one reading, the pressure drop across a scrubber is outside the normal range, the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 1.0 and 12.0 inches of water. A pressure reading that is outside the above mentioned range is not a deviation from this permit.
  
- (c) Section C - Response to Excursions or Exceedances contains the Permittee's obligation

with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

The instruments used for determining the pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### **D.2.9 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.2.8, the Permittee shall maintain once per day records of the flow rate and pressure drop for scrubbers CE011, CE012, and CE013 during normal operation. The Permittee shall include in its daily record when a flow rate reading or pressure drop reading is not taken and the reason for the lack of flow rate reading or pressure drop reading (e.g. the process did not operate that day).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the record keeping required by this condition.

### SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS - Evaporation Process, DDGS Dryer and Cooling Process

#### Emissions Unit Description:

Evaporation Process, DDGS Dryer, & Cooling Process:

- (l) One (1) stillage process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum DDGS production of 376,445 tons per year, using two (2) 30 MMBtu/hr regenerative thermal oxidizers (CE015 & CE016) for VOC/HAP control, approved in 2010 for construction, exhausting through stack SV014, and consisting of the following:
  - (1) One (1) set of four (4) centrifuges, identified as EU033, originally constructed in March 2008.
  - (2) Two (2) natural gas fired DDGS dryers, identified as EU034 and EU035, originally constructed in March 2008, each with a maximum heat input rate of 83 MMBtu/hr, and each with a total maximum throughput rate of 25 tons of DDGS per hour.
- (m) One (1) DDGS fluid bed cooler, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU038, with a maximum throughput rate of 40 tons of DDGS per hour, using a baghouse (CE014) for particulate control, with emissions vented to and controlled by RTOs (CE015 & CE016), and exhausting to stack SV014.

Note: The RTO must occasionally be temporarily shut down for maintenance or other operational reasons. In this event, the DDGS dryers and fluid bed cooler will be shut down.
- (n) One (1) DDGS storage building/flat storage, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU039, using a baghouse (CE017) for particulate control, and exhausting to stack SV017.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-7-5(1)]

##### D.3.1 PSD and HAP Minor Limits [326 IAC 2-2] [326 IAC 2-4.1]

- (a) In order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants) not applicable, PM, PM10, PM2.5, VOC, NOx, CO, Acetaldehyde, Acrolein, Methanol, and Total HAP emissions from stack SV014 for the RTOs (CE015 and CE016), which are used to control emissions from the DDGS dryers (EU034 and EU035), the DDGS fluid bed cooler (EU038), the set of centrifuges (EU033), and shall not exceed the emission limits listed in the table below:

| Pollutant    | Emission Limit (lb/hr) |
|--------------|------------------------|
| PM           | 33.6                   |
| PM10         | 31.3                   |
| PM2.5        | 40.9                   |
| VOC          | 11.0                   |
| NOx          | 28.0                   |
| CO           | 24.4                   |
| Acetaldehyde | 0.99                   |
| Acrolein     | 0.68                   |
| Methanol     | 0.87                   |
| Total HAPs   | 2.0                    |

- (b) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, PM, PM10, and PM2.5 emissions from the DDGS Storage Building/Flat Storage (EU039) shall not exceed the emission limits listed in the table below:

| Unit  | Stack ID | Unit Description                  | Control ID | PM Emission Limit (lb/hr) | PM10 Emission Limit (lb/hr) | PM2.5 Emission Limit (lb/hr) |
|-------|----------|-----------------------------------|------------|---------------------------|-----------------------------|------------------------------|
| EU039 | SV017    | DDGS Storage Bldg. / Flat Storage | CE017      | 0.42                      | 0.44                        | 0.67                         |

Compliance with these limits, combined with the limits in Conditions D.1.1, D.2.1, D.4.1, D.5.1, and D.6.1 and the potential to emit of PM, PM10, PM2.5, VOC, NOx, and CO from other units at the source, shall limit the PM, PM10, PM2.5, VOC, NOx, and CO emissions from the entire source to less than two hundred fifty (250) tons per twelve (12) consecutive month period each and render the requirements of 326 IAC 2-2 (PSD) not applicable.

Compliance with these limits, combined with the limits in Condition D.2.1 and the potential to emit of acetaldehyde, methanol, and acrolein from other units at the source, shall limit the acetaldehyde, methanol, and acrolein emissions from the entire source to less than ten (10) tons per twelve (12) consecutive month period each and to less than twenty-five (25) tons per twelve (12) consecutive month period for any combination of HAPs and render the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants) not applicable.

**D.3.2 VOC Emissions [326 IAC 8-5-6]**

Pursuant to 326 IAC 8-5-6 (Fuel Grade Ethanol Production at Dry Mills), the Permittee shall comply with the following:

- (a) The VOC emissions from the DDGS Dryers (EU034 and EU035), shall be controlled by the RTOs identified as CE015 and CE016 at all times.
- (b) The overall control efficiency, including the capture efficiency and destruction efficiency, of RTOs CE015 and CE016 shall each be at least 98%, or the VOC outlet concentration shall not exceed 10 ppmv.

**D.3.3 Particulate Emission Limitations [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

| Stack ID | Unit ID | Unit Description                  | Max. Process Weight Rate (ton/hr) | Particulate Emission Limit (lb/hr) |
|----------|---------|-----------------------------------|-----------------------------------|------------------------------------|
| SV014    | EU034   | DDGS Dryer                        | 25                                | 35.43                              |
|          | EU035   | DDGS Dryer                        |                                   |                                    |
|          | EU038   | DDGS Cooler                       | 40                                | 42.53                              |
| SV017    | EU039   | DDGS Storage Bldg. / Flat Storage | 40                                | 42.53                              |

The pounds per hour limitations were calculated using the following equations:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

#### D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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A Preventive Maintenance Plan is required for these facilities and any control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the plan required by this condition.

### Compliance Determination Requirements

#### D.3.5 Particulate, VOC, CO and HAP Control

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- (a) In order to ensure compliance with Conditions D.3.1(a), D.3.2 and D.3.3, the thermal oxidizers CE015 and CE016 shall be in operation and control particulate, VOC, CO, and HAP emissions from the DDGS dryers (EU034 and EU035) and the DDGS fluid bed cooler (EU038), at all times that these units are in operation.
- (b) In order to ensure compliance with Conditions D.3.1(a) and D.3.3, the baghouse (CE014) for particulate control shall be in operation and control emissions from the DDGS cooler (EU038) at all times that the DDGS cooler (EU038) is in operation.
- (c) In order to ensure compliance with the Conditions in D.3.1(b) and D.3.3, the baghouse (CE017) for particulate control shall be in operation and control particulate emissions from DDGS Storage Building / Flat Storage (EU039) at all times this unit is in operation.
- (d) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

#### D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 8-5-6]

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In order to demonstrate compliance with Conditions D.3.1, D.3.2, and D.3.3, the Permittee shall perform:

- (a) PM, PM10, PM2.5, VOC (including emission rate, destruction efficiency, and capture efficiency), NOx, CO, and Acetaldehyde testing for the RTO common stack (SV014) at least once every five (5) years from the date of the most recent valid compliance demonstration utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 include filterable and condensable particulate combined.

- (b) PM, PM10, and PM2.5 testing for the DDGS Storage Building / Flat Storage (EU039) at least once every five (5) years from the date of the most recent valid compliance demonstration utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 include filterable and condensable particulate combined.

### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]**

#### **D.3.7 Visible Emissions Notations**

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- (a) Visible emission notations of the stack exhausts from SV014 and SV017, shall be performed once per day during normal daylight operations. A trained employee or a trained contractor shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee or contractor is a person who has worked or trained at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

#### **D.3.8 Baghouse Parametric Monitoring**

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The Permittee shall record the pressure drop across the baghouses CE014 and CE017 used in conjunction with the DDGS cooling operation (EU038) and DDGS Storage Building / Flat Storage (EU039) at least once per day when the emissions units are in operation. When for any one reading, the pressure drops across the baghouses are outside the normal range, the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 0.5 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

#### **D.3.9 Broken or Failed Bag Detection**

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed units has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed

to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

#### D.3.10 Thermal Oxidation Temperature [326 IAC 8-5-6]

- (a) A continuous monitoring system shall be calibrated, maintained, and operated on both RTOs (CE015 and CE016) for measuring operating temperature. For the purpose of this condition, continuous means no less than once per fifteen (15) minutes. The output of this system shall be recorded as 3-hour average.
- (b) The Permittee shall determine the 3-hour average temperatures from the latest valid stack test that demonstrates compliance with limits in Conditions D.3.1 and D.3.2.
- (c) On and after the date the stack test results are available, the Permittee shall operate both RTOs (CE015 and CE016) at or above the 3-hour average temperatures as observed during the latest compliant stack test. If the 3-hour average temperature falls below the level observed during the latest compliant stack test, the Permittee shall take a reasonable response.
- (d) Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

#### D.3.11 Parametric Monitoring [326 IAC 8-5-6]

- (a) The Permittee shall determine the appropriate 3-hour average duct pressure or fan amperage range from the latest valid stack test that demonstrates compliance with limits in Conditions D.3.1 and D.3.2.
- (b) The 3-hour average duct pressure or fan amperage shall be observed at least once per day when the RTOs are in operation. On and after the date the approved stack test results are available, the duct pressure or fan amperage shall be maintained within the normal range as established in latest compliant stack test.
- (c) When for any one reading, the duct pressure or fan amperage falls outside of the appropriate range, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.3.12 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.8, the Permittee shall maintain records of once per day visible emission notations of stacks SV014 and SV017. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

- (b) To document the compliance status with Condition D.3.9, the Permittee shall maintain once per day records of the pressure drop across the baghouses CE014 and CE017. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of the pressure drop reading (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.3.11, the Permittee shall maintain continuous temperature records for the RTOs (CE015 and CE016) (on a 3-hour average basis) used to demonstrate compliance during the most recent compliant stack test. The Permittee shall include in its daily record when a temperature reading is not taken and the reason for the lack of temperature reading (e.g. the RTO was not in operation).
- (d) To document the compliance status with Condition D.3.12, the Permittee shall maintain daily records of the duct pressure or fan amperage for the RTOs (CE015 and CE016). The Permittee shall include in its daily record when a duct pressure reading or fan amperage reading is not taken and the reason for the lack of a duct pressure reading or fan amperage reading (e.g. the process did not operate that day).
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the record keeping required by this condition.

## SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS - Denatured Ethanol Loading Racks

### Emissions Unit Description:

Denatured Ethanol Storage and Loadout Racks:

- (o) One (1) ethanol loadout rack (one rail loadouts utilizing top loading only and two truck loadout utilizing submerged loading only), originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU043, with a maximum throughput rate of 118.25 million gallons per year. The loadout process is controlled by an enclosed flare (CE018), which is fueled by natural gas and has a maximum heat input capacity of 6.8 MMBtu per hour, and exhausting through stack SV018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.4.1 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following emission limits for the ethanol loading rack (EU043):

- (a) The total combined load-out rate of denatured ethanol and E-85 associated with the ethanol loading rack (EU043) shall not exceed 118,250,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The E-85 load-out rate associated with the ethanol loading rack (EU043) shall not exceed 14,300,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) VOC emissions associated with the loading rack (EU043) shall not exceed 0.38 pounds per thousand gallons.
- (d) The NO<sub>x</sub> emissions associated with the ethanol loading rack (EU043) shall not exceed 0.076 pounds per thousand gallons.
- (e) The CO emissions associated with the ethanol loading rack (EU043) shall not exceed 0.137 pounds per thousand gallons.

Compliance with these limits, combined with the limits in Conditions D.2.1, D.3.1, D.5.1, and D.6.1 and the potential to emit VOC, CO, and NO<sub>x</sub> from other units at the source, shall limit the VOC, CO, and NO<sub>x</sub> emissions from the entire source to less than two hundred fifty (250) tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 (PSD) not applicable.

#### D.4.2 VOC Emissions [326 IAC 8-5-6]

Pursuant to 326 IAC 8-5-6 (Fuel Grade Ethanol Production at Dry Mills), the Permittee shall comply with the following:

- (a) The Permittee shall use flare CE018 to control the emissions from the ethanol loading rack (EU043) when loading denatured ethanol and/or E-85 to trucks.
- (b) The Permittee shall use flare CE018 to control emissions from the ethanol loading rack (EU043) when loading denatured ethanol and/or E-85 to railcars.
- (c) The overall control efficiency, including the capture efficiency and destruction efficiency, for the enclosed flare (CE018) shall be at least 98%.

#### D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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A Preventive Maintenance Plan is required for these facilities and any control devices. Section B – Preventive Maintenance Plan contains the Permittee’s obligation with regard to the plan required by this condition.

### Compliance Determination Requirements

#### D.4.4 VOC Control

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In order to ensure compliance with Conditions D.4.1 and D.4.2, the enclosed flare CE018 shall be in operation and control emissions from the ethanol loading rack (EU043) at all times when denatured ethanol and/or E-85 is being loaded to trucks or railcars.

#### D.4.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 8-5-6]

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In order to demonstrate compliance with Conditions D.4.1(c), (d), and (e) and D.4.2(c) associated with the ethanol loading rack (EU043), the Permittee shall perform VOC (including emission rate, destruction efficiency, and capture efficiency), CO, and NOx testing for enclosed flare CE018 at least once every five (5) years from the date of the most recent valid compliance demonstration utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

### Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

#### D.4.6 Visible Emissions Notations

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- (a) Visible emission notations of the flare (CE018) stack exhaust (SV018) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions or Exceedances contains the Permittee’s obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

#### D.4.7 Flare Pilot Flame [326 IAC 8-5-6]

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In order to comply with Conditions D.4.1 and D.4.2, the Permittee shall monitor the presence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame when the ethanol loading rack (EU043) is in operation and loading denatured ethanol and/or E-85 to trucks or railcars. If a condition exists which should result in a response step, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

#### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.4.8 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.4.1(a), the Permittee shall maintain monthly records of the amount of denatured ethanol and E-85 loaded out by truck and rail at the ethanol loading rack (EU043).
- (b) To document the compliance status with Condition D.4.1(b), the Permittee shall maintain monthly records of the amount of E-85 loaded out by truck and rail at the ethanol loading rack (EU043).
- (c) To document the compliance status with Condition D.4.6, the Permittee shall maintain records of once per day visible emission notations of stack SV018. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) To document the compliance status with Condition D.4.7, the Permittee shall maintain records of temperature or other parameters sufficient to demonstrate the presence of a pilot flame when the ethanol loading rack is in operation.
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the record keeping required by this condition.

#### D.4.9 Reporting Requirements

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A quarterly summary of the information to document the compliance status with Conditions D.4.1(a) and (b) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C – General Reporting Requirements contains the Permittee's obligation with regard to the reports required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS - Natural Gas Fired Combustion Units

### Emissions Unit Description:

Natural Gas Fired Combustion Units:

- (p) Two (2) natural gas fired boilers, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU036 and EU037, each with a rated heat capacity of 145.3 MMBtu/hr, exhausting to stacks SV015 and SV016.

Under NSPS, 40 CFR 60, Subpart Db, these units are considered affected facilities.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.5.1 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the NOx emissions from the boilers (EU036 and EU037) shall not exceed 86.5 tons per twelve (12) consecutive month period total, with compliance determined at the end of each month.

Compliance with this limit, combined with Conditions D.3.1, D.4.1, and D.6.1 and the potential to emit of NOx from other units at the source, shall limit the NOx emissions from the entire source to less than two hundred fifty (250) tons per twelve (12) consecutive month period and render 326 IAC 2-2 (PSD) not applicable.

#### D.5.2 Particulate Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission Limitations for facilities specified in 326 IAC 6-2-1(d)), the PM emissions from the boilers EU036 and EU037 shall not exceed 0.249 pounds per million Btu heat input (lb/MMBtu) each.

#### D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the plan required by this condition.

### Compliance Determination Requirements

#### D.5.4 Continuous Emissions Monitoring [326 IAC 3-5]

- (a) Pursuant to 326 IAC 3-5, and in order to ensure compliance with Condition D.1.1 and the requirements of 40 CFR 60, Subpart Db as specified in Section E.1, continuous emission monitoring systems (CEMS) for Boilers EU36 and EU37 shall be installed, calibrated, maintained, operated, and certified for measuring NOx and O2 or CO2 which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

- (d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 and 40 CFR Part 60.

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### **D.5.5 Record Keeping Requirements**

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- (a) In order to document the compliance status with Condition D.5.1, the Permittee shall maintain records of all NO<sub>x</sub> and O<sub>2</sub> or CO<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6. Records shall be complete and sufficient to establish compliance with the NO<sub>x</sub> limit as required in Condition D.5.1 and the requirements of 326 IAC 3-5-6.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

#### **D.5.6 Reporting Requirements**

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- (a) A quarterly summary of the information to document the compliance status with Condition D.5.1 shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification the meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The Permittee shall submit reports in accordance 326 IAC 3-5-7.

## SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS - Diesel Fired Combustion Units

### Emissions Unit Description:

- (q) One (1) diesel generator, approved in 2010 for construction, identified as EU044, with a rated capacity of 2,000 KW, exhausting to SV019.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

### Insignificant Activities:

- (h) Stationary fire pumps, including one (1) diesel fire pump, identified as EU045, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum power output rate of 600 horsepower, and exhausting to stack SV020.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.6.1 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following emission limits:

- (a) The diesel generator (EU044) shall not exceed 250 operating hours per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The diesel fire pump (EU045) shall not exceed 250 operating hours per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The NOx and CO emissions from EU044 and EU045 shall not exceed the limits as specified in the table below:

| Unit                     | NOx Emission Limit (lb/hr) | CO Emission limit (lb/hr) |
|--------------------------|----------------------------|---------------------------|
| Diesel Generator (EU044) | 64.40                      | 17.11                     |
| Diesel Fire Pump (EU045) | 18.60                      | 4.01                      |

Compliance with these limits, combined Conditions D.3.1, D.4.1, and D.5.1 and the potential to emit of NOx and CO from other units at the source, shall limit the NOx and CO emissions from the entire source to less than two hundred fifty (250) tons per twelve (12) consecutive month period each and render 326 IAC 2-2 (PSD) not applicable.

## **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

### **D.6.2 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.6.1(a), the Permittee shall maintain records of the number of hours that the diesel generator (EU044) operates each month.
- (b) To document the compliance status with Condition D.6.1(b), the Permittee shall maintain records of the number of hours that the diesel fire pump (EU045) operates each month.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

### **D.6.3 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Conditions D.6.1(a) and D.6.1(b) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.7 FACILITY OPERATION CONDITIONS – Storage Tanks and Gasoline Dispensing Operation

### Emissions Unit Description:

#### Insignificant Activities

- (b)(1) One (1) denaturant storage tank, identified as T001, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 180,000 gallons of denaturant.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

- (b)(2) One (1) 200 proof ethanol shift tank, identified as T002, originally constructed in March 2008, obtaining new operation approval in 2010, with a capacity of 180,000 gallons.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this tank are considered to be affected facilities.

- (b)(3) Two (2) 200 proof ethanol storage tanks, identified as T003 and T004, originally constructed in March 2008, obtaining new operation approval in 2010, each with a maximum capacity of 1,000,000 gallons of denatured ethanol.

Under NSPS, Subpart Kb, these units are considered affected facilities.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of these tanks are considered to be affected facilities.

- (b)(4) One (1) denaturant storage tank, identified as T005, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 60,000 gallons of denatured gasoline.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

- (j) A gasoline dispensing operation for plant vehicles with a 300 gallon capacity storage tank, installed in 2007, and with an estimated annual throughput of 3,600 gallons per year.

Under NESHAP, Subpart CCCCC, this is considered a new affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

## **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

### **D.7.1 Volatile Organic Compounds (VOC) [326 IAC 8-4-3]**

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- (a) Pursuant to 326 IAC 8-4-3(b)(1)(B), storage tanks T001 and T005 shall be maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.
- (b) Pursuant to 326 IAC 8-4-3(b)(1)(C), all openings, except stub drains, are equipped with covers, lids, or seals such that:
  - (1) The cover, lid or seal in the closed position at all times except when in actual use;
  - (2) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;
  - (3) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.

### **D.7.2 National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources [40 CFR 63, Subpart VVVVVV]**

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In order to render the requirements of the NESHAP for Chemical Manufacturing Area Sources, 40 CFR Part 63, Subpart VVVVVV, not applicable, the Permittee shall comply with the following at tanks T002-T004:

Any HAP listed in Table 1 of 40 CFR 63, Subpart VVVVVV, that is generated or produced in the chemical manufacturing process unit (CMPU) and is present in process fluid shall be less than 0.1 percent for carcinogens, as defined by the Occupational Safety and Health Administration at 29 CFR 1910.1200(d)(4), and less than 1.0 percent for noncarcinogens.

Compliance with this limit, in conjunction with the limit in Condition D.2.3, shall render the requirements of 40 CFR Part 63, Subpart VVVVVV (National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources) not applicable.

### **D.7.3 Volatile Organic Compounds (VOC) [326 IAC 8-4-6]**

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In order to render the requirements of 326 IAC 8-4-6 not applicable for the 300 gallon gasoline dispensing operation storage tank, the Permittee shall comply with the following:

The monthly gasoline throughput from the 300 gallon gasoline dispensing operation storage tank shall be less than 10,000 gallons per month, with compliance determined at the end of each month.

Compliance with this limit shall render the requirements of 326 IAC 8-4-6 (Gasoline Dispensing Facilities) not applicable.

## **Compliance Determination Requirements**

### **D.7.4 Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11]**

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In order to demonstrate compliance with Condition D.7.2, and to verify that the Acetaldehyde is present in process fluid at less than 0.1 percent, the Permittee shall perform Acetaldehyde testing of the process fluid from one (1) of the 200-Proof ethanol tanks, identified as T002, T003, or T004, not later than 180 days after the issuance date of Part 70 Operating Permit Renewal No. T133-31145-00003 utilizing methods as approved by the Commissioner. The Permittee shall repeat this testing at least once every five (5) years from the date of the most recent valid compliance demonstration. The Permittee shall alternate the tank to be tested every five (5) years and testing on a tank shall not be repeated until each tank has been tested. Testing shall

be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### **D.7.5 Record Keeping Requirements**

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- (a) Pursuant to 326 IAC 8-4-3(d) and to document the compliance status with Condition D.7.1, the Permittee shall maintain the following records for tanks T001 and T005:
  - (1) The types of volatile petroleum liquid stored;
  - (2) The maximum true vapor pressure of the liquids as stored; and
  - (3) The results of the inspections performed on the storage vessels.
- (b) To document the compliance status with Condition D.7.3, the Permittee shall maintain monthly records of the gasoline throughput for the 300 gallon gasoline dispensing operation storage tank.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

#### **D.7.6 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Condition D.7.3 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(34).

## SECTION E.1 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

### Emissions Unit Description:

- (p) Two (2) natural gas fired boilers, originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU036 and EU037, each with a rated heat capacity of 145.3 MMBtu/hr, exhausting to stacks SV015 and SV016.

Under NSPS, 40 CFR 60, Subpart Db, these units are considered affected facilities.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### New Source Performance Standard Requirements

#### E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a) The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the Industrial-Commercial-Institutional Steam Generating Units, as specified in 40 CFR 60, Subpart Db in accordance with the schedule in 40 CFR 60, Subpart Db.

- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Ave.  
MC61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

#### E.1.2 Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db] [326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Db (included in its entirety as Attachment B), which are incorporated by reference as 326 IAC 12, for the Industrial-Commercial-Institutional Steam Generating Units:

- (1) 40 CFR 60.40b (a), (g), and (j)
- (2) 40 CFR 60.41b
- (3) 40 CFR 60.44b (a)(1), (h), (i), and (l)
- (4) 40 CFR 60.46b (c), (e)(1), and (e)(4)
- (5) 40 CFR 60.48b (b)(1), (c), (d), (e)(2), (e)(3), (f), and (g)
- (6) 40 CFR 60.49b (a)(1), (a)(3), (b), (c), (d), (g), (i), (o), (v) and (w)

**SECTION E.2 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984**

**Emissions Unit Description:**

Insignificant Activities:

- (b)(1) One (1) denaturant storage tank, identified as T001, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 180,000 gallons of denaturant.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

- (b)(2) One (1) 200 proof ethanol shift tank, identified as T002, originally constructed in March 2008, obtaining new operation approval in 2010, with a capacity of 180,000 gallons.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this tank are considered to be affected facilities.

- (b)(3) Two (2) 200 proof ethanol storage tanks, identified as T003 and T004, originally constructed in March 2008, obtaining new operation approval in 2010, each with a maximum capacity of 1,000,000 gallons of denatured ethanol.

Under NSPS, Subpart Kb, these units are considered affected facilities.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of these tanks are considered to be affected facilities.

- (b)(4) One (1) denaturant storage tank, identified as T005, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 60,000 gallons of denatured gasoline.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**New Source Performance Standard Requirements**

**E.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]**

- (a) The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification

Commenced after July 23, 1984, as specified in 40 CFR 60, Subpart Kb in accordance with the schedule in 40 CFR 60, Subpart Kb.

- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Ave.  
MC61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

E.2.2 Standards of Performance for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 [40 CFR 60, Subpart Kb] [326 IAC 12]

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The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Kb (included in its entirety as Attachment C), which are incorporated by reference as 326 IAC 12, for the Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984:

- (1) 40 CFR 60.110b (a), (e)(1)(i), (e)(2) and (e)(3)
- (2) 40 CFR 60.111b
- (3) 40 CFR 60.112b (a)(1)
- (4) 40 CFR 60.113b (a)
- (5) 40 CFR 60.115b (a)
- (6) 40 CFR 60.116b (a) through (e)
- (7) 40 CFR 60.117b

**SECTION E.3 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006**

**Emissions Unit Description:**

- (i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of 96,360 gallons per hour, using a wet scrubber (CE011) for VOC/HAP controls, exhausting through stack SV011, and consisting of the following:

- (1) One (1) slurry tank, identified as EU017.
- (2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of 96,360 gallons per hour, using a wet scrubber (CE012) for VOC/HAP controls, exhausting through stack SV012, and consisting of the following:

- (1) Six (6) fermenters, identified as EU019 through EU24.
- (2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of 83,640 gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

- (1) One degas column, identified as EU027.
- (2) One (1) beer stripper, identified as EU028.
- (3) One (1) rectifier column, identified as EU029.
- (4) One (1) side stripper, identified as EU030.
- (5) One (1) set of three (3) molecular sieve, identified as EU031.
- (6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (o) One (1) ethanol loadout rack (one rail loadouts utilizing top loading only and two truck loadout utilizing submerged loading only), originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU043, with a maximum throughput rate of 118.25 million gallons per year. The loadout process is controlled by an enclosed flare (CE018), which is fueled by natural gas and has a maximum heat input capacity of 6.8 MMBtu per hour, and exhausting through stack SV018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

Under NESHAP, Subpart BBBB, this unit is considered a new affected source.

**Insignificant Activities:**

- (b)(2) One (1) 200 proof ethanol shift tank, identified as T002, originally constructed in March 2008, obtaining new operation approval in 2010, with a capacity of 180,000 gallons.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this tank are considered to be affected facilities.

- (b)(3) Two (2) 200 proof ethanol storage tanks, identified as T003 and T004, originally constructed in March 2008, obtaining new operation approval in 2010, each with a maximum capacity of 1,000,000 gallons of denatured ethanol.

Under NSPS, Subpart Kb, these units are considered affected facilities.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of these tanks are considered to be affected facilities.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**New Source Performance Standard Requirements**

E.3.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a) The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the sources of equipment leaks of VOC, as specified in 40 CFR 60, Subpart VVa in accordance with the schedule in 40 CFR 60, Subpart VVa.

- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Ave.  
MC61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

E.3.2 Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry [40 CFR 60, Subpart VVa] [326 IAC 12]

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The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart VVa (included in its entirety as Attachment D), which are incorporated by reference as 326 IAC 12, for the sources of equipment leaks of VOC:

- (1) 40 CFR 60.480a
- (2) 40 CFR 60.481a
- (3) 40 CFR 60.482-1a
- (4) 40 CFR 60.482-2a
- (5) 40 CFR 60.482-3a
- (6) 40 CFR 60.482-4a
- (7) 40 CFR 60.482-5a
- (8) 40 CFR 60.482-6a
- (9) 40 CFR 60.482-7a
- (10) 40 CFR 60.482-8a
- (11) 40 CFR 60.482-9a
- (12) 40 CFR 60.482-10a
- (13) 40 CFR 60.482-11a
- (14) 40 CFR 60.483-1a
- (15) 40 CFR 60.483-2a
- (16) 40 CFR 60.484a
- (17) 40 CFR 60.485a
- (18) 40 CFR 60.486a
- (19) 40 CFR 60.487a
- (20) 40 CFR 60.488a
- (21) 40 CFR 60.489a

## SECTION E.4 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)

### Emissions Unit Description:

#### Emission Units:

- (q) One (1) diesel generator, approved in 2010 for construction, identified as EU044, with a rated capacity of 2,000 KW, exhausting to SV019.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

#### Insignificant Activities:

- (h) Stationary fire pumps, including one (1) diesel fire pump, identified as EU045, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum power output rate of 600 horsepower, and exhausting to stack SV020.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### New Source Performance Standard Requirements

#### E.4.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a) The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the stationary compression ignition internal combustion engines, as specified in 40 CFR 60, Subpart IIII in accordance with the schedule in 40 CFR 60, Subpart IIII.

- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

#### E.4.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII] [326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included in its entirety as Attachment E), which are incorporated by reference as 326 IAC 12, for the stationary compression ignition (CI) internal combustion engines (ICE) EU044 and EU045:

- (a) EU044 is subject to the following portions of 40 CFR 60, Subpart IIII:

- (1) 40 CFR 60.4200 (a)(2)(i), (a)(4)
- (2) 40 CFR 60.4205 (b)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207 (b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209
- (7) 40 CFR 60.4211 (a), (c), (f), (g)(3)
- (8) 40 CFR 60.4212
- (9) 40 CFR 60.4214 (b), (c)
- (10) 40 CFR 60.4218
- (11) 40 CFR 60.4219
- (12) Table 8 to Subpart IIII of Part 60

(b) EU045 is subject to the following portions of 40 CFR 60, Subpart IIII:

- (1) 40 CFR 60.4200 (a)(2)(ii), (a)(4),
- (2) 40 CFR 60.4205 (c)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207 (b)
- (5) 40 CFR 60.4209
- (6) 40 CFR 60.4211 (a), (c), (f), (g)(3)
- (7) 40 CFR 60.4212
- (8) 40 CFR 60.4214 (b), (c)
- (9) 40 CFR 60.4218
- (10) 40 CFR 60.4219
- (11) Table 4 to Subpart IIII of Part 60
- (12) Table 8 to Subpart IIII of Part 60

## SECTION E.5 FACILITY OPERATION CONDITIONS - 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)

### Emissions Unit Description:

#### Emission Units:

- (r) One (1) diesel generator, approved in 2010 for construction, identified as EU044, with a rated capacity of 2,000 KW, exhausting to SV019.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

#### Insignificant Activities:

- (h) Stationary fire pumps, including one (1) diesel fire pump, identified as EU045, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum power output rate of 600 horsepower, and exhausting to stack SV020.

Under NSPS, Subpart IIII, this unit is considered an affected source.

Under NESHAP, Subpart ZZZZ, this unit is considered an affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements

- E.5.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

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Pursuant to 40 CFR 63.6590(c)(1) and 40 CFR 63.6665, the Permittee is not required to comply with the provisions of 40 CFR 63, Subpart A - General Provisions.

- E.5.2 National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

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The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included in its entirety as Attachment F), which are incorporated by reference as 326 IAC 20-82, for the reciprocating internal combustion engines EU044 and EU045:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585 (a), (c)
- (3) 40 CFR 63.6590 (a)(2)(iii), (c)(1)
- (4) 40 CFR 63.6595 (a)(7), (b)
- (5) 40 CFR 63.6665
- (6) 40 CFR 63.6670
- (7) 40 CFR 63.6675

**SECTION E.6 FACILITY OPERATION CONDITIONS - 40 CFR 63, Subpart BBBBBB - National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Bulk Terminals, Bulk Plants, and Pipeline Facilities**

**Emissions Unit Description:**

**Emission Units:**

- (o) One (1) ethanol loadout rack (one rail loadouts utilizing top loading only and two truck loadout utilizing submerged loading only), originally constructed in March 2008, obtaining new operation approval in 2010, identified as EU043, with a maximum throughput rate of 118.25 million gallons per year. The loadout process is controlled by an enclosed flare (CE018), which is fueled by natural gas and has a maximum heat input capacity of 6.8 MMBtu per hour, and exhausting through stack SV018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

Under NESHAP, Subpart BBBBBB, this unit is considered a new affected source.

**Insignificant Activities:**

- (b)(1) One (1) denaturant storage tank, identified as T001, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 180,000 gallons of denaturant.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBBBB, this unit is considered a new affected source.

- (b)(4) One (1) denaturant storage tank, identified as T005, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum capacity of 60,000 gallons of denatured gasoline.

Under NSPS, Subpart Kb, this unit is considered an affected facility.

Under NESHAP, Subpart BBBBBB, this unit is considered a new affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements**

**E.6.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

- (a) Pursuant to 40 CFR 63.11098, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, as specified in Table 3 of 40 CFR 63, Subpart BBBBBB in accordance with the schedule in 40 CFR 63, Subpart BBBBBB.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

E.6.2 National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline [40 CFR 63, Subpart BBBBBB]

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The Permittee shall comply with the following provisions of 40 CFR 63, Subpart BBBBBB (included in its entirety as Attachment G), for the gasoline storage tanks, the vapor collection-equipped gasoline cargo tanks, and the loading rack when processing gasoline, as defined in 40 CFR 63.11100:

- (1) 40 CFR 63.11080
- (2) 40 CFR 63.11081 (a)(1), (c), (f), (g), (h), (i), (j)
- (3) 40 CFR 63.11082 (a), (b)
- (4) 40 CFR 63.11083 (a)(2)
- (5) 40 CFR 63.11085
- (6) 40 CFR 63.11087 (f)
- (7) 40 CFR 63.11088
- (8) 40 CFR 63.11089
- (9) 40 CFR 63.11092 (f), (g)
- (10) 40 CFR 63.11093
- (11) 40 CFR 63.11094
- (12) 40 CFR 63.11095 (a), (d)
- (13) 40 CFR 63.11098
- (14) 40 CFR 63.11099
- (15) 40 CFR 63.11100
- (16) Table 1 to Subpart BBBBBB of Part 63, Item 2(b) and (d)
- (17) Table 2 to Subpart BBBBBB of Part 63, Item 2
- (18) Table 3 to Subpart BBBBBB of Part 63

**SECTION E.7 FACILITY OPERATION CONDITIONS - 40 CFR 63, Subpart CCCCCC - National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities**

**Emissions Unit Description:**

**Insignificant Activities:**

- (j) A gasoline dispensing operation for plant vehicles with a 300 gallon capacity storage tank, installed in 2007, and with an estimated annual throughput of 3,600 gallons per year.

Under NESHAP, Subpart CCCCCC, this is considered a new affected source.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements**

**E.7.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

- (a) Pursuant to 40 CFR 63.11131, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, as specified in Table 3 of 40 CFR 63, Subpart CCCCCC in accordance with the schedule in 40 CFR 63, Subpart CCCCCC.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:
- Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

**E.7.2 National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities [40 CFR 63, Subpart CCCCCC]**

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart CCCCCC (included in its entirety as Attachment H), for the gasoline dispensing operation:

- (1) 40 CFR 63.11110
- (2) 40 CFR 63.11111 (a), (b), (e), (h), (i), (j)
- (3) 40 CFR 63.11112 (a), (b)
- (4) 40 CFR 63.11113 (a)(1), (e)(1)
- (5) 40 CFR 63.11115
- (6) 40 CFR 63.11116
- (7) 40 CFR 63.11125(d)
- (8) 40 CFR 63.11130
- (9) 40 CFR 63.11131
- (10) 40 CFR 63.11132
- (11) Table 3 to Subpart CCCCCC of Part 63

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: POET Biorefining - Cloverdale, LLC  
Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
Part 70 Permit No.: T133-31145-00003

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**100 North Senate Avenue**  
**MC 61-53 IGCN 1003**  
**Indianapolis, Indiana 46204-2251**  
**Phone: (317) 233-0178**  
**Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT**  
**EMERGENCY OCCURRENCE REPORT**

Source Name: POET Biorefining - Cloverdale, LLC  
Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
Part 70 Permit No.: T133-31145-00003

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

|   |
|---|
| Facility/Equipment/Operation:                       |
| Control Equipment:                                  |
| Permit Condition or Operation Limitation in Permit: |
| Description of the Emergency:                       |
| Describe the cause of the Emergency:                |

If any of the following are not applicable, mark N/A

**Page 2 of 2**

|                                    |
|------------------------------------|
| Date/Time Emergency started:       |
| Date/Time Emergency was corrected: |

|   |
|---|
| Was the facility being properly operated at the time of the emergency?    Y    N  |
| Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:   |
| Estimated amount of pollutant(s) emitted during emergency:  |
| Describe the steps taken to mitigate the problem:   |
| Describe the corrective actions/response steps taken:   |
| Describe the measures taken to minimize emissions:  |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: POET Biorefining - Cloverdale, LLC  
Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
Part 70 Permit No.: T133-31145-00003  
Facility: Ethanol Loadout Rack (EU043)

Parameter: Total Denatured Ethanol and E-85 Loaded  
 Limit: The total combined load-out rate of denatured ethanol and E-85 associated with the ethanol loading rack (EU043) shall not exceed 118,250,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER : YEAR:

| Month   | Gallons Denatured Ethanol and E-85 | Gallons Denatured Ethanol and E-85 | Gallons Denatured Ethanol and E-85 |
|---------|------------------------------------|------------------------------------|------------------------------------|
|         | This Month                         | Previous 11 Months                 | 12 Month Total                     |
| Month 1 |                                    |                                    |                                    |
| Month 2 |                                    |                                    |                                    |
| Month 3 |                                    |                                    |                                    |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
 Deviation has been reported on:

Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: POET Biorefining - Cloverdale, LLC  
 Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
 Part 70 Permit No.: T133-31145-00003  
 Facility: Ethanol Loadout Rack (EU043)  
 Parameter: Total E-85 Loaded  
 Limit: The E-85 load-out rate associated with the ethanol loading rack (EU043) shall not exceed 14,300,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER : YEAR:

|  |              |              |              |
|--|--------------|--------------|--------------|
|  | Gallons E-85 | Gallons E-85 | Gallons E-85 |
|--|--------------|--------------|--------------|



|         |  |  |  |
|---------|--|--|--|
|         |  |  |  |
| Month 3 |  |  |  |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.  
 Deviation has been reported on:

Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: POET Biorefining - Cloverdale, LLC  
 Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
 Part 70 Permit No.: T133-31145-00003  
 Facility: Diesel Generator (EU044)  
 Parameter: Hours of Operation  
 Limit: Shall not exceed 250 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER : \_\_\_\_\_ YEAR: \_\_\_\_\_

| Month   | Hours of Operation | Hours of Operation | Hours of Operation |
|---------|--------------------|--------------------|--------------------|
|         | This Month         | Previous 11 Months | 12 Month Total     |
| Month 1 |                    |                    |                    |
| Month 2 |                    |                    |                    |
| Month 3 |                    |                    |                    |

No deviation occurred in this quarter.

- Deviation/s occurred in this quarter.  
    Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH

**Part 70 Quarterly Report**

Source Name: POET Biorefining - Cloverdale, LLC  
Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
Part 70 Permit No.: T133-31145-00003  
Facility: Fire Pump (EU045)  
Parameter: Hours of Operation  
Limit: Shall not exceed 250 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER : YEAR:

| Month   | Hours of Operation | Hours of Operation | Hours of Operation |
|---------|--------------------|--------------------|--------------------|
|         | This Month         | Previous 11 Months | 12 Month Total     |
| Month 1 |                    |                    |                    |
| Month 2 |                    |                    |                    |
| Month 3 |                    |                    |                    |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: POET Biorefining - Cloverdale, LLC  
Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120  
Part 70 Permit No.: T133-31145-00003  
Facility: Gasoline Dispensing Operation  
Parameter: Gasoline Throughput  
Limit: Shall be less than 10,000 gallons per month, with compliance determined at the end of each month.

QUARTER :

YEAR:

| Month   | Gallons of Throughput |
|---------|-----------------------|
|         | This Month            |
| Month 1 |                       |
| Month 2 |                       |
| Month 3 |                       |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: POET Biorefining - Cloverdale, LLC  
Source Address: 2265 East County Road 800 South, Cloverdale, Indiana 46120

Part 70 Permit No.: T133-31145-00003

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

Page 1 of 2

|  |                               |
|--|-------------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B – Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p> |                               |
| <input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.   |                               |
| <input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD   |                               |
| <b>Permit Requirement</b> (specify permit condition #)   |                               |
| <b>Date of Deviation:</b>  | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>   |                               |
| <b>Probable Cause of Deviation:</b>  |                               |
| <b>Response Steps Taken:</b>   |                               |
| <b>Permit Requirement</b> (specify permit condition #)   |                               |
| <b>Date of Deviation:</b>  | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>   |                               |
| <b>Probable Cause of Deviation:</b>  |                               |
| <b>Response Steps Taken:</b>   |                               |

|  |                               |
|--|-------------------------------|
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

**Technical Support Document (TSD) for a  
Part 70 Administrative Amendment**

**Source Description and Location**

|                                 |  |
|---------------------------------|--|
| Source Name:                    | POET Biorefining - Cloverdale, LLC   |
| Source Location:                | 2265 East County Road 800 South, Cloverdale,<br>IN 46120   |
| County:                         | Putnam   |
| SIC Code:                       | 2869 (Industrial Organic Chemicals, Not<br>Elsewhere Classified) and 2048 (Prepared Feed<br>and Feed Ingredients for Animals and Fowls,<br>except Dogs and Cats) |
| Operation Permit No.:           | T133-31145-00003   |
| Operation Permit Issuance Date: | June 26, 2012  |
| Administrative Amendment No.:   | 133-35024-00003  |
| Permit Reviewer:                | Joshua Levering  |

**Existing Approvals**

The source was issued Part 70 Operating Permit No. 133-31145-00003 on June 26, 2012. The source has since received the following approvals:

| Permit Type                     | Permit Number   | Issuance Date   |
|---------------------------------|-----------------|-----------------|
| Significant Permit Modification | 133-34343-00003 | July 3, 2014    |
| Administrative Amendment        | 133-34652-00003 | August 19, 2014 |

**County Attainment Status**

The source is located in Putnam County.

| Pollutant         | Designation  |
|-------------------|--|
| SO <sub>2</sub>   | Better than national standards.  |
| CO                | Unclassifiable or attainment effective November 15, 1990.  |
| O <sub>3</sub>    | Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. <sup>1</sup> |
| PM <sub>2.5</sub> | Unclassifiable or attainment effective April 5, 2005, for the annual PM <sub>2.5</sub> standard.       |
| PM <sub>2.5</sub> | Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM <sub>2.5</sub> standard.  |
| PM <sub>10</sub>  | Unclassifiable effective November 15, 1990.  |
| NO <sub>2</sub>   | Cannot be classified or better than national standards.  |
| Pb                | Unclassifiable or attainment effective December 31, 2011..   |

<sup>1</sup>Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

- (a) **Ozone Standards**  
Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Putnam County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM<sub>2.5</sub>**  
 Putnam County has been classified as attainment for PM<sub>2.5</sub>. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**  
 Putnam County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

The source includes a stationary ethanol production operation and boilers supporting the ethanol plant with a total heat input rating of greater than 250 million British thermal units per hour (MMBtu/hr).

- (1) EPA published a final rule in the Federal Register on May 1, 2007, that excluded ethanol production facilities that produce ethanol through natural fermentation, from the major source category "Chemical Process Plants". Therefore, the fugitive emissions from ethanol production facilities are no longer counted toward determination of PSD, Emission Offset, and Part 70 Permit applicability.
- (2) The grain elevator at the source does not meet the definition of a grain storage elevator or a grain terminal elevator, as defined in 40 CFR 60.301. Therefore, the source is not subject to 40 CFR 60, Subpart DD. Since this source does not meet the source category applicability in 40 CFR 60, Subpart DD, it is not considered a source category which, as of August 7, 1980, is regulated under Section 111 or 112 of the Clean Air Act; and therefore, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.
- (3) The boilers, with a total heat input rating of greater than 250 MMBtu/hr are considered one of the 28 listed source categories, based on the EPA guidance for "nesting activities". Therefore, any fugitive emissions from these boilers are counted toward PSD, Emission Offset, and Part 70 Permit applicability.

**Source Status - Existing Source**

The table below summarizes the potential to emit of the entire source, prior to the proposed administrative amendment, after consideration of all enforceable limits established in the effective permits:

| <b>Pollutant</b>  | <b>Emissions (ton/yr)</b>       |
|-------------------|---------------------------------|
| PM                | Greater than 100, Less than 250 |
| PM <sub>10</sub>  | Greater than 100, Less than 250 |
| PM <sub>2.5</sub> | Greater than 100, Less than 250 |
| SO <sub>2</sub>   | Less than 100                   |
| NO <sub>x</sub>   | Greater than 100, Less than 250 |
| VOC               | Greater than 100, Less than 250 |
| CO                | Greater than 100, Less than 250 |
| Single HAPs       | Less than 10                    |
| Total HAPs        | Less than 25                    |

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at [http://www.supremecourt.gov/opinions/13pdf/12-1146\\_4g18.pdf](http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf)) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases

(GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant, excluding GHGs, is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).
- (c) These emission are based upon AA 133-34652-00003, issued August 19, 2014.

|  |
|--|
| <b>Description of Proposed Amendment</b> |
|--|

The Office of Air Quality (OAQ) has reviewed administrative amendment application, submitted by POET Biorefining - Cloverdale, LLC on October 9, 2014, requesting to increase the maximum throughput of the Mash, Fermentation, and Distillation Processes based on recent stack tests. The requested changes in throughput will not result in emissions exceeding the permitted limits for these specific units. The following is a list of the amended emission units and pollution control device(s):

Mash Preparation, Fermentation, Distillation, and Dehydration Process:

- (i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE011) for VOC/HAP control, exhausting through stack SV011, and consisting of the following:

- (1) One (1) slurry tank, identified as EU017.
- (2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE012) for VOC/HAP control, exhausting through stack SV012. During wet scrubber downtime, emissions from the fermentation process are vented directly to regenerative thermal oxidizers (CE015 & CE016) through a scrubber bypass. This process consists of the following:

- (1) Six (6) fermenters, identified as EU019 through EU024.

- (2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of ~~72,000~~ **83,640** gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

- (1) One degas column, identified as EU027.
- (2) One (1) beer stripper, identified as EU028.
- (3) One (1) rectifier column, identified as EU029.
- (4) One (1) side stripper, identified as EU030.
- (5) One (1) set of three (3) molecular sieve, identified as EU031.
- (6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

#### Enforcement Issues

There are no pending enforcement actions related to this amendment.

#### Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

#### Permit Level Determination – Part 70 Amendment to an Existing Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Appendix A of this TSD reflects the unrestricted potential emissions of the administrative amendment.

#### PTE Change of the Amended Process

| Pollutant         | PTE Before Amendment (ton/yr) | PTE After Amendment (ton/yr) | Increase from Amendment (ton/yr) |
|-------------------|-------------------------------|------------------------------|----------------------------------|
| PM                | 0.00                          | 0.00                         | 0.00                             |
| PM <sub>10</sub>  | 0.00                          | 0.00                         | 0.00                             |
| PM <sub>2.5</sub> | 0.00                          | 0.00                         | 0.00                             |
| SO <sub>2</sub>   | 0.00                          | 0.00                         | 0.00                             |
| VOC               | 139.72                        | 139.72                       | 0.00                             |
| CO                | 0.00                          | 0.00                         | 0.00                             |
| NO <sub>x</sub>   | 0.00                          | 0.00                         | 0.00                             |
| HAPs              | 8.28                          | 8.28                         | 0.00                             |

There is no increase in the potential to emit of any regulated pollutants associated with this administrative amendment. This administrative amendment is not subject to the source modification requirements under 326 IAC 2-7-10.5. The changes will be incorporated into the permit as an Administrative Amendment under 326 IAC 2-7-11, because the amendment is revising descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

**Permit Level Determination – PSD**

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 Administrative Amendment, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

| Process / Emission Unit            | Project Emissions (ton/yr) |                  |                        |                 |                 |      |      |
|------------------------------------|----------------------------|------------------|------------------------|-----------------|-----------------|------|------|
|                                    | PM                         | PM <sub>10</sub> | PM <sub>2.5</sub><br>* | SO <sub>2</sub> | NO <sub>x</sub> | VOC  | CO   |
| Mash Process                       | 0.00                       | 0.00             | 0.00                   | 0.00            | 0.00            | 0.00 | 0.00 |
| Fermentation Process               | 0.00                       | 0.00             | 0.00                   | 0.00            | 0.00            | 0.00 | 0.00 |
| Distillation Process               | 0.00                       | 0.00             | 0.00                   | 0.00            | 0.00            | 0.00 | 0.00 |
| Total for Administrative Amendment | 0.00                       | 0.00             | 0.00                   | 0.00            | 0.00            | 0.00 | 0.00 |
| PSD Major Source Thresholds        | 250                        | 250              | 250                    | 250             | 250             | 250  | 250  |

\*PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at [http://www.supremecourt.gov/opinions/13pdf/12-1146\\_4g18.pdf](http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf)) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court’s decision. U.S. EPA’s guidance states that U.S. EPA will no longer require PSD or Title V permits for sources “previously classified as ‘Major’ based solely on greenhouse gas emissions.”

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

This administrative amendment to an existing minor PSD stationary source is not major because the emissions increase of each PSD regulated pollutant are less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

|   |
|---|
| <b>Federal Rule Applicability Determination</b> |
|---|

The following federal rules are applicable to the source due to this administrative amendment:

**NSPS:**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this administrative amendment.

**NESHAP:**

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this administrative amendment.
- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
- (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
  - (2) is subject to an emission limitation or standard for that pollutant; and
  - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

| <b>CAM Applicability Analysis</b>                |                     |                           |                           |                         |   |                      |                  |
|--|---------------------|---------------------------|---------------------------|-------------------------|---|----------------------|------------------|
| Emission Unit                                    | Control Device Used | Emission Limitation (Y/N) | Uncontrolled PTE (ton/yr) | Controlled PTE (ton/yr) | Part 70 Major Source Threshold (ton/yr) | CAM Applicable (Y/N) | Large Unit (Y/N) |
| Mash Process (EU017 & EU018) (VOC)               | Y                   | Y                         | 373.5                     | 7.47                    | 100                                     | Y                    | N                |
| Fermentation Process (EU019 through EU026) (VOC) | Y                   | Y                         | 2482.1                    | 49.64                   | 100                                     | Y                    | N                |
| Distillation Process (EU027 through EU032) (VOC) | Y                   | Y                         | 206.9                     | 4.14                    | 100                                     | Y                    | N                |

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to Mash Process (EU017 & EU018), Fermentation Process (EU019 through EU026), and Distillation Process (EU027 through EU032) for VOC upon issuance of the Title V Renewal. A CAM plan must be submitted as part of the Renewal application.

### State Rule Applicability Determination

The following state rules are applicable to the source due to the administrative amendment:

#### **326 IAC 2-1.1-5 (Nonattainment New Source Review)**

Nonattainment New Source Review applicability is discussed under the Permit Level Determination – PSD and Emission Offset section.

#### **326 IAC 2-2 and 2-3 (PSD and Emission Offset)**

PSD and Emission Offset applicability is discussed under the Permit Level Determination – PSD and Emission Offset section.

#### **326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))**

The operation of Mash Process (EU017 & EU018), Fermentation Process (EU019 through EU026), and Distillation Process (EU027 through EU032) will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

#### **326 IAC 2-6 (Emission Reporting)**

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2014, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

#### **326 IAC 2-7-6(5) (Annual Compliance Certification)**

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certification that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

No state rules will change as a result of this administrative amendment.

### Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

No compliance determination, compliance monitoring, or testing requirements will change as a result of this administrative amendment.

|                         |
|-------------------------|
| <b>Proposed Changes</b> |
|-------------------------|

The changes listed below have been made to Part 70 Operating Permit No. 133-31145-00003. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

A.2 Emission Units and Pollution Control Equipment Summary

~~[326 IAC 2-7-4(c)(3)]~~**[326 IAC 2-7-5(14)]**

This stationary source consists of the following emission units and pollution control devices:

\*\*\*

Mash Preparation, Fermentation, Distillation, and Dehydration Process:

- (i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE011) for VOC/HAP control, exhausting through stack SV011, and consisting of the following:

- (1) One (1) slurry tank, identified as EU017.
- (2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE012) for VOC/HAP control, exhausting through stack SV012. During wet scrubber downtime, emissions from the fermentation process are vented directly to regenerative thermal oxidizers (CE015 & CE016) through a scrubber bypass. This process consists of the following:

- (1) Six (6) fermenters, identified as EU019 through EU024.
- (2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

- (k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of ~~72,000~~ **83,640** gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

- (1) One degas column, identified as EU027.
- (2) One (1) beer stripper, identified as EU028.
- (3) One (1) rectifier column, identified as EU029.
- (4) One (1) side stripper, identified as EU030.

(5) One (1) set of three (3) molecular sieve, identified as EU031.

(6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

\*\*\*

#### SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS - Mash Preparation, Fermentation, Distillation, and Dehydration Process

##### Emissions Unit Description:

##### Mash Preparation, Fermentation, Distillation, and Dehydration Process:

(i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE011) for VOC/HAP controls, exhausting through stack SV011, and consisting of the following:

(1) One (1) slurry tank, identified as EU017.

(2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

(j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE012) for VOC/HAP controls, exhausting through stack SV012. During wet scrubber downtime, emissions from the fermentation process are vented directly to regenerative thermal oxidizer (CE015 & CE016) through a scrubber bypass. This process consists of the following:

(1) Six (6) fermenters, identified as EU019 through EU024.

(2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

(k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of ~~72,000~~ **83,640** gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

(1) One degas column, identified as EU027.

(2) One (1) beer stripper, identified as EU028.

(3) One (1) rectifier column, identified as EU029.

(4) One (1) side stripper, identified as EU030.

(5) One (1) set of three (3) molecular sieve, identified as EU031.

(6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

\*\*\*

SECTION E.3 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Emissions Unit Description:

(i) One (1) mash preparation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE011) for VOC/HAP controls, exhausting through stack SV011, and consisting of the following:

(1) One (1) slurry tank, identified as EU017.

(2) One (1) yeast propagation tank, identified as EU018.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

(j) One (1) fermentation process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum throughput rate of ~~73,900~~ **96,360** gallons per hour, using a wet scrubber (CE012) for VOC/HAP controls, exhausting through stack SV012, and consisting of the following:

(1) Six (6) fermenters, identified as EU019 through EU024.

(2) Two (2) beer wells, identified as EU025 and EU026.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

(k) One (1) distillation and dehydration process, originally constructed in March 2008, obtaining new operation approval in 2010, with a maximum ethanol production of ~~72,000~~ **83,640** gallons per hour, using a wet scrubber (CE013) for VOC control, exhausting through stack SV013, and consisting of the following:

(1) One degas column, identified as EU027.

(2) One (1) beer stripper, identified as EU028.

(3) One (1) rectifier column, identified as EU029.

- (4) One (1) side stripper, identified as EU030.
- (5) One (1) set of three (3) molecular sieve, identified as EU031.
- (6) One (1) set of three (3) evaporators, identified as EU032.

Under NSPS, Subpart VVa, the pumps, compressors, pressure relief devices in gas/vapor service, sampling connection systems, open-ended valves or lines, valves, and flanges or other connectors in VOC service of this process are considered to be affected facilities.

\*\*\*

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

\*\*\*

#### **Conclusion and Recommendation**

The operation of this administrative amendment shall be subject to the conditions of the attached proposed Part 70 Administrative Amendment No. 133-35024-00003.

#### **IDEM Contact**

- (a) Questions regarding this proposed permit can be directed to Joshua Levering at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6543 or toll free at 1-800-451-6027 extension 4-6543.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emissions Calculations  
Administrative Amendment Summary**

Company Name: POET Biorefining - Cloverdale, LLC  
 Address: 2265 East County Road 800 South, Cloverdale, IN 46120  
 Part 70 Operating Permit No.: T133-31145-00003  
 Administrative Amendment No.: 133-35024-00003  
 Reviewer: Joshua Levering  
 Date: December 2014

| Uncontrolled Potential to Emit (ton/year) |               |                |              |                 |             |              |              |
|---|---------------|----------------|--------------|-----------------|-------------|--------------|--------------|
|   | Emission Unit | VOC            | Acetaldehyde | Propionaldehyde | Methanol    | Formaldehyde | Total HAPs   |
| Existing                                  | Mash          | 286.44         | 1.15         | 0.08            | 0.04        | 0.04         | 1.30         |
|   | Fermentation  | 1903.56        | 7.65         | 0.51            | 0.25        | 0.25         | 8.67         |
|   | Distillation  | 178.08         | 5.40         | 0.39            | 0.39        | 0.39         | 6.57         |
|   | <b>Totals</b> | <b>2368.08</b> | <b>14.20</b> | <b>0.98</b>     | <b>0.68</b> | <b>0.68</b>  | <b>16.54</b> |
| New                                       | Mash          | 373.50         | 1.50         | 0.10            | 0.05        | 0.05         | 1.70         |
|   | Fermentation  | 2482.10        | 9.97         | 0.66            | 0.33        | 0.33         | 11.30        |
|   | Distillation  | 206.87         | 6.27         | 0.46            | 0.46        | 0.46         | 7.64         |
|   | <b>Total</b>  | <b>3062.46</b> | <b>17.74</b> | <b>1.22</b>     | <b>0.84</b> | <b>0.84</b>  | <b>20.64</b> |
|   | Difference*   | 694.38         | 3.55         | 0.24            | 0.15        | 0.15         | 4.09         |

\*The difference represents an increased throughput rate for these emission units based on recent stack test results.

**Appendix A: Emissions Calculations**  
**Mash Prep (EU017, EU018), Fermentation (EU019-EU026), Distillation (EU027-EU032)**

**Company Name: POET Biorefining - Cloverdale, LLC**  
**Address: 2265 East County Road 800 South, Cloverdale, IN 46120**  
**Part 70 Operating Permit No.: T133-31145-00003**  
**Administrative Amendment No.: 133-35024-00003**  
**Reviewer: Joshua Levering**  
**Date: December 2014**

**1. Process Description:**

POET Biorefining - Cloverdale has three wet scrubbers controlling three different processes. These include the fermentation process, mash preparation process, and distillation and dehydration process.

**2. Potential to Emit (PTE) of VOC and HAP from the scrubber @ existing maximum throughputs from TV Permit #31145**

Scrubber VOC Control Efficiency = 98.00%  
 Scrubber HAP Control Efficiency = 50.00%

|                               | Mash Prep Scrubber (CE011) |             | Fermentation Scrubber (CE012) |             | Distillation Scrubber (CE013) |             |
|-------------------------------|----------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                               | lb/hr                      | ton/yr      | lb/hr                         | ton/yr      | lb/hr                         | ton/yr      |
| <b>Uncontrolled PTE</b>       |                            |             |                               |             |                               |             |
| <b>VOC</b>                    | 65.40                      | 286.44      | 434.60                        | 1903.56     | 40.66                         | 178.08      |
| Acetaldehyde                  | 0.26                       | 1.15        | 1.75                          | 7.65        | 1.23                          | 5.40        |
| Propionaldehyde               | 0.02                       | 0.08        | 0.12                          | 0.51        | 0.09                          | 0.39        |
| Methanol                      | 0.01                       | 0.04        | 0.06                          | 0.25        | 0.09                          | 0.39        |
| Formaldehyde                  | 0.01                       | 0.04        | 0.06                          | 0.25        | 0.09                          | 0.39        |
| <b>Total Uncontrolled HAP</b> | <b>0.30</b>                | <b>1.30</b> | <b>1.98</b>                   | <b>8.67</b> | <b>1.50</b>                   | <b>6.57</b> |

The uncontrolled emission rates were back-calculated from controlled emission rates and assumed scrubber control efficiencies.

|                             | Mash Prep Scrubber (CE011) |             | Fermentation Scrubber (CE012) |             | Distillation Scrubber (CE013) |             |
|-----------------------------|----------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                             | lb/hr                      | ton/yr      | lb/hr                         | ton/yr      | lb/hr                         | ton/yr      |
| <b>Controlled PTE</b>       |                            |             |                               |             |                               |             |
| <b>VOC</b>                  | 1.31                       | 5.73        | 8.69                          | 38.07       | 0.81                          | 3.56        |
| Acetaldehyde                | 0.131                      | 0.58        | 0.87                          | 3.82        | 0.62                          | 2.70        |
| Propionaldehyde             | 0.009                      | 0.04        | 0.06                          | 0.25        | 0.04                          | 0.20        |
| Methanol                    | 0.004                      | 0.02        | 0.03                          | 0.13        | 0.04                          | 0.20        |
| Formaldehyde                | 0.004                      | 0.02        | 0.03                          | 0.13        | 0.04                          | 0.20        |
| <b>Total Controlled HAP</b> | <b>0.15</b>                | <b>0.65</b> | <b>0.99</b>                   | <b>4.33</b> | <b>0.75</b>                   | <b>3.29</b> |

Note: Controlled VOC and HAP emission rates based on performance tests at similar facilities and provided by source. Performance testing conducted in August-September 2011 resulted in emissions less than those assumed in these calculations. As a conservative approach, the higher emission rates will be maintained for purposes of calculating PTE.

|                          | Mash Prep Scrubber (CE011) |             | Fermentation Scrubber (CE012) |             | Distillation Scrubber (CE013) |             |
|--------------------------|----------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                          | lb/hr                      | ton/yr      | lb/hr                         | ton/yr      | lb/hr                         | ton/yr      |
| <b>Limited PTE</b>       |                            |             |                               |             |                               |             |
| <b>VOC</b>               | 3.87                       | 16.95       | 25.64                         | 112.30      | 2.39                          | 10.47       |
| Acetaldehyde             | 0.05                       | 0.22        | 0.70                          | 3.07        | 0.45                          | 1.97        |
| <b>Total Limited HAP</b> | <b>0.15</b>                | <b>0.66</b> | <b>0.99</b>                   | <b>4.34</b> | <b>0.75</b>                   | <b>3.29</b> |

**Methodology:**

Uncontrolled (lb/hr) = Controlled (lb/hr) / (100% - Control Efficiency)

Uncontrolled (ton/yr) = Controlled (ton/yr) / (100% - Control Efficiency)

Controlled (lb/hr) = Provided Emission Rate based on performance tests at similar facilities

Controlled (ton/yr) = Controlled (lb/hr) \* 8,760 hours / 2,000 lbs

**3. Potential to Emit (PTE) of VOC and HAP from the scrubber @ new maximum throughputs due to TV-AA #35024**

Scrubber VOC Control Efficiency = 98.00%  
 Scrubber HAP Control Efficiency = 50.00%

|                               | Mash Prep Scrubber (CE011) |             | Fermentation Scrubber (CE012) |              | Distillation Scrubber (CE013) |             |
|-------------------------------|----------------------------|-------------|-------------------------------|--------------|-------------------------------|-------------|
|                               | lb/hr                      | ton/yr      | lb/hr                         | ton/yr       | lb/hr                         | ton/yr      |
| <b>Uncontrolled PTE</b>       |                            |             |                               |              |                               |             |
| <b>VOC</b>                    | 85.3                       | 373.5       | 566.7                         | 2482.1       | 47.2                          | 206.9       |
| Acetaldehyde                  | 0.34                       | 1.50        | 2.28                          | 9.97         | 1.43                          | 6.3         |
| Propionaldehyde               | 0.02                       | 0.10        | 0.15                          | 0.66         | 0.10                          | 0.5         |
| Methanol                      | 0.01                       | 0.05        | 0.08                          | 0.33         | 0.10                          | 0.5         |
| Formaldehyde                  | 0.01                       | 0.05        | 0.08                          | 0.33         | 0.10                          | 0.5         |
| <b>Total Uncontrolled HAP</b> | <b>0.39</b>                | <b>1.70</b> | <b>2.58</b>                   | <b>11.30</b> | <b>1.74</b>                   | <b>7.64</b> |

The uncontrolled emission rates were back-calculated from controlled emission rates and assumed scrubber control efficiencies.

|                             | Mash Prep Scrubber (CE011) |             | Fermentation Scrubber (CE012) |             | Distillation Scrubber (CE013) |             |
|-----------------------------|----------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                             | lb/hr                      | ton/yr      | lb/hr                         | ton/yr      | lb/hr                         | ton/yr      |
| <b>Controlled PTE</b>       |                            |             |                               |             |                               |             |
| <b>VOC</b>                  | 1.71                       | 7.47        | 11.33                         | 49.64       | 0.94                          | 4.14        |
| Acetaldehyde                | 0.171                      | 0.75        | 1.14                          | 4.99        | 0.72                          | 3.13        |
| Propionaldehyde             | 0.011                      | 0.05        | 0.08                          | 0.33        | 0.05                          | 0.23        |
| Methanol                    | 0.006                      | 0.02        | 0.04                          | 0.17        | 0.05                          | 0.23        |
| Formaldehyde                | 0.006                      | 0.02        | 0.04                          | 0.17        | 0.05                          | 0.23        |
| <b>Total Controlled HAP</b> | <b>0.19</b>                | <b>0.85</b> | <b>1.29</b>                   | <b>5.65</b> | <b>0.87</b>                   | <b>3.82</b> |

Note: Controlled VOC and HAP emission rates based on performance tests at similar facilities and provided by source. Performance testing conducted in August-September 2011 resulted in emissions less than those assumed in these calculations. As a conservative approach, the higher emission rates will be maintained for purposes of calculating PTE.

|                          | Mash Prep Scrubber (CE011) |             | Fermentation Scrubber (CE012) |             | Distillation Scrubber (CE013) |             |
|--------------------------|----------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                          | lb/hr                      | ton/yr      | lb/hr                         | ton/yr      | lb/hr                         | ton/yr      |
| <b>Limited PTE</b>       |                            |             |                               |             |                               |             |
| <b>VOC</b>               | 3.87                       | 16.95       | 25.64                         | 112.30      | 2.39                          | 10.47       |
| Acetaldehyde             | 0.05                       | 0.22        | 0.70                          | 3.07        | 0.45                          | 1.97        |
| <b>Total Limited HAP</b> | <b>0.15</b>                | <b>0.66</b> | <b>0.99</b>                   | <b>4.34</b> | <b>0.75</b>                   | <b>3.29</b> |

**Methodology:**

Uncontrolled (lb/hr) = Controlled (lb/hr) / (100% - Control Efficiency)

Uncontrolled (ton/yr) = Controlled (ton/yr) / (100% - Control Efficiency)

Controlled (lb/hr) = Provided Emission Rate based on performance tests at similar facilities

Controlled (ton/yr) = Controlled (lb/hr) \* 8,760 hours / 2,000 lbs



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

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

TO: Luke Logan  
POET Biorefining- Cloverdale, LLC  
2265 E County Road 800 S  
Cloverdale, IN 46120

DATE: December 23, 2014

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

SUBJECT: Final Decision  
Title V Administrative Amendment  
133-35024-00003

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:

«Resp\_Off\_If\_applicable»  
«Consultant\_if\_applicable»  
«Other\_persons»

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 6/13/2013

# Mail Code 61-53

|                            |   |   |  |
|----------------------------|---|---|--|
| IDEM Staff                 | CDENNY 12/23/2014<br>POET Biorefining- Cloverdale, LLC 133-35024-00003 (final)    |   | AFFIX STAMP<br>HERE IF<br>USED AS<br>CERTIFICATE<br>OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 |  |

| Line | Article Number | Name, Address, Street and Post Office Address  | Postage | Handling Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee |
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|      |                |  |         |                  |                            |               |                 |          |          |          | Remarks        |
| 1    |                | Luke Logan POET Biorefining- Cloverdale, LLC 2265 E County Road 800 S Cloverdale IN 46120 (Source CAATS) VIA CERTIFIED MAIL USPS |         |                  |                            |               |                 |          |          |          |                |
| 2    |                | Cloverdale Town Council P.O. Box 222 Cloverdale IN 46120 (Local Official)  |         |                  |                            |               |                 |          |          |          |                |
| 3    |                | Putnam County Commissioners One West Washington Street Greencastle IN 46135 (Local Official)                                     |         |                  |                            |               |                 |          |          |          |                |
| 4    |                | Putnam County Health Department P.O. Box 507 Greencastle IN 46135-0507 (Health Department)                                       |         |                  |                            |               |                 |          |          |          |                |
| 5    |                | Mr. Richard Monday 545 E. Margaret Dr. Terre Haute IN 47801 (Affected Party)   |         |                  |                            |               |                 |          |          |          |                |
| 6    |                | J.P. Roehm PO Box 303 Clinton IN 47842 (Affected Party)  |         |                  |                            |               |                 |          |          |          |                |
| 7    |                | Chris Peterson POET Design and Construction 4615 N Lewis Avenue Sioux Falls SD 57104 (Source – addl contact)                     |         |                  |                            |               |                 |          |          |          |                |
| 8    |                |  |         |                  |                            |               |                 |          |          |          |                |
| 9    |                |  |         |                  |                            |               |                 |          |          |          |                |
| 10   |                |  |         |                  |                            |               |                 |          |          |          |                |
| 11   |                |  |         |                  |                            |               |                 |          |          |          |                |
| 12   |                |  |         |                  |                            |               |                 |          |          |          |                |
| 13   |                |  |         |                  |                            |               |                 |          |          |          |                |
| 14   |                |  |         |                  |                            |               |                 |          |          |          |                |
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