



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

## **NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT**

Preliminary Findings Regarding a  
Significant Modification to a  
Part 70 Operating Permit

for Central Teaming Company in Lake County

Significant Permit Modification No.: 089-40590-00172

The Indiana Department of Environmental Management (IDEM) has received an application from Central Teaming Company, located at One North Broadway, Gary, Indiana 46402, for a significant modification of its Part 70 Operating Permit issued on July 14, 2016. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Central Teaming Company to make certain changes at its existing source. Central Teaming Company has applied to replace a screening plant used for flue dust and sludge, identified as 861. This unit was constructed in 2007, and the source is replacing this unit with a replacement screening plant. The new unit, identified as 866, is a screening plant originally manufactured in 2005, and is also powered by a 70 hp non-road internal combustion engine. This replacement is being permitted under the provisions of 326 IAC 2-7-10.5(c), allowing the repair or replacement of an emissions unit without prior approval.

The applicant has constructed and intends to operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g. changes that add or modify synthetic minor emission limits). IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Gary Public Main Library  
220 West 5th Avenue  
Gary, IN 46402

and

IDEM Northwest Regional Office  
330 W. US Highway 30, Suites E & F  
Valparaiso, IN 46385

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

A copy of the preliminary findings is also available via IDEM's Virtual File Cabinet (VFC.) Please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

### **How can you participate in this process?**

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30<sup>th</sup> day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SPM 089-40590-00172 in all correspondence.

**Comments should be sent to:**

Thomas Uher  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(800) 451-6027, ask for Thomas Uher or (317) 233-1782  
Or dial directly: (317) 233-1782  
Fax: (317) 232-6749 attn: Thomas Uher  
E-mail: Tuher@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**What will happen after IDEM makes a decision?**

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, at the IDEM Regional Office indicated above, and the IDEM public file room on the 12<sup>th</sup> floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Thomas Uher or my staff at the above address.

A handwritten signature in black ink, appearing to read 'Brian Williams', is positioned above the printed text.

Brian Williams, Section Chief  
Permits Branch  
Office of Air Quality



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

## DRAFT

Steven Sieracki  
Central Teaming Company  
104 W 78th Avenue  
Merrillville, IN 46410

Re: 089-40590-00172  
Significant Permit Modification

Dear Steven Sieracki:

Central Teaming Company was issued Part 70 Operating Permit Renewal No. T089-36399-00172 on July 14, 2016 for a stationary slag, ore, and pet coke screening and blending operation located at One North Broadway, Gary, Indiana 46402. An application requesting changes to this permit was received on October 9, 2018. Pursuant to the provisions of 326 IAC 2-7-12, a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachment(s). 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 modification:

- Attachment A: Fugitive Dust Control Plan
- Attachment B: 40 CFR 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- Attachment C: 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

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

Previously issued approvals for this source are also available via IDEM's Virtual File Cabinet (VFC.) Please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

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/>. A copy of the permit is also available via IDEM's Virtual File Cabinet (VFC.) Please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.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.

## DRAFT

If you have any questions regarding this matter, please contact Thomas Uher, 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) 233-1782 or (800) 451-6027, and ask for Thomas Uher or (317) 233-1782.

Sincerely,

Brian Williams, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Modified Permit and Technical Support Document

cc: File - Lake County  
Lake County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch  
IDEM Northwest Regional Office



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

Eric J. Holcomb  
Governor

DRAFT

Bruno L. Pigott  
Commissioner

## Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Central Teaming Company, Inc.  
One North Broadway  
Gary, Indiana 46402**

(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.

Operation Permit No.: T089-36399-00172 Master Agency Interest ID.: 19872	
Issued by: Original signed by: Jenny Acker, Section Chief Permits Branch, Office of Air Quality	Issuance Date: July 14, 2016  Expiration Date: July 14, 2021

Significant Permit Modification No.: 089-40590-00172	
Issued by:  Brian Williams, Section Chief Permits Branch Office of Air Quality	Issuance Date:  Expiration Date: July 14, 2021

DRAFT

## TABLE OF CONTENTS

<b>SECTION A</b>	<b>SOURCE SUMMARY .....</b>	<b>5</b>
A.1	General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]	
A.2	Part 70 Source Definition [326 IAC 2-7-1(22)]	
A.3	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]	
A.4	Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]	
A.5	Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]	
A.6	Part 70 Permit Applicability [326 IAC 2-7-2]	
<b>SECTION B</b>	<b>GENERAL CONDITIONS .....</b>	<b>11</b>
B.1	Definitions [326 IAC 2-7-1]	
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)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-7-7][IC 13-17-12]	
B.5	Severability [326 IAC 2-7-5(5)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]	
B.7	Duty to Provide Information [326 IAC 2-7-5(6)(E)]	
B.8	Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]	
B.9	Annual Compliance Certification [326 IAC 2-7-6(5)]	
B.10	Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]	
B.11	Emergency Provisions [326 IAC 2-7-16]	
B.12	Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]	
B.14	Termination of Right to Operate [326 IAC 2-7-10][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]	
B.16	Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]	
B.17	Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]	
B.18	Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]	
B.19	Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]	
B.20	Source Modification Requirement [326 IAC 2-7-10.5]	
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]	
B.22	Transfer of Ownership or Operational Control [326 IAC 2-7-11]	
B.23	Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]	
B.24	Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]	
<b>SECTION C</b>	<b>SOURCE OPERATION CONDITIONS.....</b>	<b>22</b>
	<b>Emission Limitations and Standards [326 IAC 2-7-5(1)] .....</b>	<b>22</b>
C.1	Opacity [326 IAC 5-1]	
C.2	Open Burning [326 IAC 4-1][IC 13-17-9]	
C.3	Incineration [326 IAC 4-2][326 IAC 9-1-2]	
C.4	Fugitive Dust Emissions [326 IAC 6-4]	
C.5	Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]	
C.6	Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]	
	<b>Testing Requirements [326 IAC 2-7-6(1)].....</b>	<b>25</b>
C.7	Performance Testing [326 IAC 3-6]	

DRAFT

<b>Compliance Requirements [326 IAC 2-1.1-11]</b> .....	<b>25</b>
C.8 Compliance Requirements [326 IAC 2-1.1-11]	
<b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....	<b>25</b>
C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]	
C.10 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]	
<b>Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]</b> .....	<b>26</b>
C.11 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]	
C.12 Risk Management Plan [326 IAC 2-7-5(11)][40 CFR 68]	
C.13 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]	
C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]	
<b>Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]</b> .....	<b>28</b>
C.15 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]	
C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6][326 IAC 2-2][326 IAC 2-3]	
C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11][326 IAC 2-2][326 IAC 2-3]	
<b>Stratospheric Ozone Protection</b> .....	<b>31</b>
C.18 Compliance with 40 CFR 82 and 326 IAC 22-1	
<b>SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS</b> .....	<b>32</b>
<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....	<b>32</b>
D.1.1 Particulate Matter (PM) [326 IAC 6.8-1-2]	
D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]	
<b>Compliance Determination Requirements [326 IAC 2-7-5(1)]</b> .....	<b>33</b>
D.1.3 Fugitive Dust Control	
<b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....	<b>33</b>
D.1.4 Visible Emissions Notations	
<b>Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]</b> .....	<b>33</b>
D.1.5 Record Keeping Requirements	
<b>SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS</b> .....	<b>34</b>
<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b> .....	<b>36</b>
D.2.1 Particulate Matter (PM) [326 IAC 6.8-1-2]	
D.2.2 NOx Minor Limit [326 IAC 2-2][326 IAC 2-3]	
D.2.3 Minor Limits [326 IAC 2-7-10.5(f)][326 IAC 2-2][326 IAC 2-3]	
D.2.4 PSD Minor Limits PM, PM <sub>10</sub> , and PM <sub>2.5</sub> [326 IAC 2-2]	
D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]	
<b>Compliance Determination Requirements [326 IAC 2-7-5(1)]</b> .....	<b>37</b>
D.2.6 Fugitive Dust Control	
<b>Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]</b> .....	<b>38</b>
D.2.7 Visible Emissions Notations	
<b>Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]</b> .....	<b>38</b>
D.2.8 Record Keeping Requirements	
D.2.9 Reporting Requirements	

DRAFT

<b>SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS .....</b>	<b>40</b>
<b>Emission Limitations and Standards [326 IAC 2-7-5(1)] .....</b>	<b>41</b>
D.3.1 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]	
<b>SECTION E.1 NSPS .....</b>	<b>42</b>
<b>New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)].....</b>	<b>42</b>
E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1][40 CFR Part 60, Subpart A]	
E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines NSPS [326 IAC 12][40 CFR Part 60, Subpart III]	
<b>SECTION E.2 NESHAP .....</b>	<b>44</b>
<b>National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)].....</b>	<b>44</b>
E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]	
E.2.2 National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ][326 IAC 20-82]	
<b>CERTIFICATION .....</b>	<b>45</b>
<b>EMERGENCY OCCURRENCE REPORT .....</b>	<b>46</b>
<b>Part 70 Quarterly Report.....</b>	<b>48</b>
<b>Part 70 Quarterly Report.....</b>	<b>49</b>
<b>Part 70 Quarterly Report.....</b>	<b>50</b>
<b>Part 70 Quarterly Report.....</b>	<b>51</b>
<b>QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT .....</b>	<b>52</b>
<b>Attachment A: Fugitive Dust Control Plan</b>	
<b>Attachment B: 40 CFR 60, Subpart III: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines</b>	
<b>Attachment C: 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines</b>	

DRAFT

## 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 slag, ore and pet coke screening and blending operation.

Source Address:	One North Broadway, Gary, Indiana 46402
General Source Phone Number:	(219) 886-7112
SIC Code:	3312 (Steel Works, Blast Furnaces (including Coke Ovens), and Rolling Mills), 3295 (Minerals and Earths, Ground or Otherwise Treated)
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

### A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

US Steel - Gary Works is an integrated steel mill that includes the primary operation, U.S. Steel - Gary Works (Source ID 089-00121), at One North Broadway, Gary, Indiana, collocated with on-site contractors:

	Company Name	Source ID	Operation Description
1	U.S. Steel - Gary Works	089-00121	integrated steel mill
	<b>On-Site Contractors</b>		
2	Tube City IMS LLC	089-00132	slag processing/metal recovery
3	South Shore Slag LLC	089-00133	slag crushing, screening and conveying
4	Tube City IMS, LLC	089-00170	iron ore screening operation
5	Central Teaming Company Inc	089-00172	material handling
6	Mid-Continent Coal & Coke	089-00173	coke screening operation
7	Tube City IMS LLC	089-00174	scrap metal processing
8	AKJ Industries, Inc.	089-00505	coal tar sludge processing
9	J.L Smith Services	089-00509	slag crushing and recycling
10	Fritz Enterprises, Inc.	089-00578	iron and slag processing operation
11	Crister Companies	089-05333	slag crushing and screening operation

A Part 70 permit has been issued to U.S. Steel - Gary Works (Source ID 089-00121). Separate Administrative Part 70 permits will be issued to each of the on-site contractors, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

DRAFT

A.3 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:

**Miscellaneous Material Handling and Material Blending**

- (a) One (1) miscellaneous material handling operation, constructed in 1961, with a maximum capacity of 375 tons per hour, for loading/unloading barges and with a maximum capacity of 1,000 tons per hour loading ships by using tracked backhoes and large rubber tire front-end loaders for use by US Steel, and using the following conveyors:
  - (1) One (1) miscellaneous material stacker conveyor with feeder hopper, identified as 183 and 182, each with a maximum capacity of 500 tons per hour, powered by a nonroad engine-driven generator, constructed in October 1999, and exhausting to the atmosphere.
  - (2) One (1) miscellaneous material stacker conveyor with feeder hopper, identified as MCC130 and 572, each with a maximum capacity of 500 tons per hour, powered by a nonroad engine-driven generator, constructed in April 1985, and exhausting to the atmosphere.
- (b) One (1) miscellaneous material handling operation, with a maximum capacity of 835 tons per hour, for handling miscellaneous material by bulldozer into piles for use by US Steel, constructed in 1961, and exhausting to the atmosphere.
- (c) One (1) petroleum coke handling operation, with a maximum capacity of 40 tons per hour, for blending with the flue dust, sludge, coke, scale, scrap and granulated slag by bulldozer into piles for use by US Steel, constructed in 1961, and exhausting to the atmosphere.
- (d) One (1) "A" Pile Blend handling operation, with a maximum capacity of 1,475 tons per hour, in which various stockpiles of granulated slag, ore pellets, pet coke, flue dust, sludge, coke, scale, scrap and other materials that are used in the sinter cake are loaded by front end loaders into scrapers, constructed in 1961, and exhausting to the atmosphere. The scrapers transport the various materials to the "A" Pile Blend area and spread the various materials into layers.
- (e) One (1) transfer operation of loading materials from the "A" Pile into scrapers for transportation to the "B" Pile, with a maximum capacity of 1,725 tons per hour, operating since 1961, and exhausting to the atmosphere.
- (f) One (1) material hauling operation that uses 18-wheel vehicles on paved and unpaved roads to transport materials for screening and blending, constructed in 1961, and exhausting to the atmosphere. The materials are loaded by front end loaders into 18-wheel vehicles and driven to various locations designated by U.S. Steel.

**Screening and Conveying Operations**

- (g) One (1) flue dust or sludge screening plant, identified as 866 (CEC-Screen-It), approved for construction in 2018, powered by a 70 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, when screening flue dust, and 100 tons per hour when screening sludge, and using the following conveyor:
  - (1) One (1) flue dust or sludge conveyor stacker, identified as 168, with a maximum of 100 tons per hour, when conveying flue dust, and 100 tons per hour when

DRAFT

conveying sludge, constructed in March 1995, and exhausting to the atmosphere.

- (h) One (1) coke screening plant, identified as 166, powered by a 215 Hp diesel engine, with a maximum capacity of 350 tons per hour, constructed in July 1961 and rebuilt in June 1996 and again in December 2013, and exhausting to the atmosphere.

Under the NSPS 40 CFR 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

Under the NESHAP 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

- (i) One (1) miscellaneous screening portable screener, identified as 174, powered by a 49 Hp nonroad diesel engine, with a maximum capacity of 75 tons per hour, constructed in May 1996, and exhausting to the atmosphere.
- (j) One (1) miscellaneous portable screening plant, identified as 177, powered by a 49 Hp nonroad diesel engine, with a maximum capacity of 75 tons per hour, constructed in September 1997, and exhausting to the atmosphere.
- (k) One (1) backup scale screening plant, identified as 163, powered by a 130 Hp nonroad diesel engine, with a maximum capacity of 150 tons per hour, constructed in June 1976, modified in 2015, and using the following conveyors:
  - (1) One (1) scale screening conveyor, identified as 562, with a maximum capacity of 150 tons per hour, constructed in March 1984, and exhausting to the atmosphere.
  - (2) One (1) scale screening conveyor, identified as 573, with a maximum capacity of 150 tons per hour, constructed in April 1985, and exhausting to the atmosphere.
  - (3) One (1) scale screening stacker conveyor, identified as 185, with a capacity of 150 tons per hour, constructed in April 2000, and exhausting to the atmosphere.
- (l) One (1) scrap screening radial stacker conveyor, identified as 178, with a maximum capacity of 75 tons per hour, and used as a spare, constructed in May 1999, and exhausting to the atmosphere.
- (m) One (1) Oversize Screen plant, identified as 175, powered by a 130 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour constructed in July 1996, and using the following conveyors:
  - (1) One (1) oversize screening magnetic head pulley conveyor, identified as 558, with a maximum capacity of 100 tons per hour, constructed in May 1990, and exhausting to the atmosphere.
  - (2) One (1) oversize screening conveyor, identified as 181, with a maximum capacity of 100 tons per hour, and used as a spare, constructed in August 1981, and exhausting to the atmosphere.

DRAFT

- (n) One (1) miscellaneous material portable screening plant, identified as 164, powered by a nonroad engine-driven generator, with a maximum capacity of 150 tons per hour, constructed in March 2005, modified in 2015, and using the following conveyors:
  - (1) One miscellaneous portable stacker conveyor, identified as 176, with a maximum capacity of 150 tons per hour, constructed in July 1996, modified in 2015, and exhausting to the atmosphere.
  - (2) One (1) scale screening magnetic head pulley, identified as 561, with a capacity of 150 tons per hour, constructed in December 1975, modified in 2015, and exhausting to the atmosphere.
  - (3) One (1) scale screening conveyor, identified as 574, with a maximum capacity of 150 tons per hour, constructed in April 1985, modified in 2015, and exhausting to the atmosphere.
- (o) One (1) miscellaneous portable screener, identified as 179, powered by a 48 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, constructed in September 2006, and exhausting to the atmosphere.
- (p) One (1) miscellaneous material portable stacker conveyor, identified as 865, powered by a 83 Hp nonroad diesel engine, with a maximum capacity of 700 tons per hour, constructed in 2009, and exhausting to the atmosphere.

A.4 Specifically Regulated 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 which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Propane or liquefied petroleum gas or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.
  - (1) Three (3) Radiant Tank Top Heaters, identified as RTH1, RTH2, and RTH3, with a combined maximum heat input capacity of 15,000 Btu/hr, and exhausting to the atmosphere.
- (b) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing equal to or less than five-tenths percent (0.5%) sulfur by weight.
  - (1) Two (2) portable forced air heaters, identified as KH1 and KH2, fueled with kerosene, each with a maximum heat input capacity of 600,000 Btu/hr, KH1 installed in June 2002, and KH2 installed prior to 2002, and exhausting to the atmosphere.
  - (2) One (1) portable forced air heater, identified as KH3, fueled with kerosene, with a maximum heat input capacity of 375,000 Btu/hr, installed prior to 2002, and exhausting to the atmosphere.
- (c) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment.
  - (1) One (1) gasoline aboveground double-walled steel storage tank, identified as R3,

DRAFT

with a maximum storage capacity of 1,050 gallons, installed in June 1997, and exhausting to the atmosphere.

- (d) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.
  - (1) One (1) diesel fuel aboveground storage tank, identified as R4, with a maximum storage capacity of 10,000 gallons, a steel tank inside an enclosed containment system, installed in June 1997, and exhausting to the atmosphere.
  - (2) One (1) diesel fuel aboveground storage tank, identified as T18, with a maximum storage capacity of 2,000 gallons, a steel tank inside an enclosed containment system, installed in December 1997, and exhausting to the atmosphere.
- (e) The following stationary VOC and HAP storage containers: vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids, as follows:
  - (1) One (1) Anti-Freeze storage tank, identified as T-2, with a maximum storage capacity of 440 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (2) One (1) Anti-Freeze storage tank, identified as T-3, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (3) One (1) Hydraulic Oil storage tank, identified as T-4, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (4) One (1) Transmission Oil storage tank, identified as T-10, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (5) One (1) 15W/40 Motor Oil, identified as T-11, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (6) One (1) Hydraulic Oil storage tank, identified as T-12, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (7) One (1) Heating Oil storage tank, identified as T-13, with a maximum storage capacity of 285 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (8) One (1) Used Oil storage tank, identified as T-5, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (9) One (1) Used Oil storage tank, identified as T-6, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (10) One (1) Used Oil storage tank, identified as T-7, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.

DRAFT

atmosphere.

- (11) One (1) Used Oil storage tank, identified as T-8, with a maximum storage capacity of 285 gallons, installed prior to 1997, and exhausting to the atmosphere.
- (12) One (1) Used Antifreeze storage tank, identified as T-9, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.

#### A.5 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, as defined in 326 IAC 2-7-1(21):

- (a) The following mobile VOC and HAP storage containers inside the lube truck that draws from the stationary VOC and HAP storage containers as follows:
  - (1) One (1) mobile Hydraulic Oil storage tank, identified as LTT1, with a maximum storage capacity of 225 gallons, installed in May 2010, and exhausting to the atmosphere.
  - (2) One (1) mobile Used Oil storage tank, identified as LTT2, with a maximum storage capacity of 225 gallons, installed in May 2010, and exhausting to the atmosphere.
  - (3) One (1) mobile 15W/40 Motor Oil storage tank, identified as LTT3, with a maximum storage capacity of 225 gallons, installed in May 2010, and exhausting to the atmosphere.
  - (4) One (1) mobile Transmission Oil storage tank, identified as LTT4, with a maximum storage capacity of 120 gallons, installed in May 2010, and exhausting to the atmosphere.
  - (5) One (1) mobile 90 Wt. Oil storage tank, identified as LTT5, with a maximum storage capacity of 120 gallons, installed in May 2010, and exhausting to the atmosphere.
  - (6) One (1) mobile Used Antifreeze storage tank, identified as LTT6, with a maximum storage capacity of 120 gallons, installed in May 2010, and exhausting to the atmosphere.
  - (7) One (1) mobile (Spare) storage tank, identified as LTT7, with a maximum storage capacity of 120 gallons, installed in May 2010, and exhausting to the atmosphere.

#### A.6 Part 70 Permit Applicability [326 IAC 2-7-2]

---

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).

DRAFT

## SECTION B GENERAL CONDITIONS

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

---

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)]

---

- (a) This permit, T089-36399-00172, 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]

---

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]

---

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)]

---

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)]

---

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)]

---

- (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.

DRAFT

**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)]**

---

- (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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 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

DRAFT

- (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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, 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.

- (c) 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

DRAFT

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).

- (d) 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 or Northwest Regional Office 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  
Northwest Regional Office phone: (219) 464-0233; fax: (219) 464-0553.

- (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;

DRAFT

(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

DRAFT

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 T089-36399-00172 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 permit, all previous registrations and permits are superseded by this 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).

DRAFT

**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)]**

---

- (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

DRAFT

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]**

---

- (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)]**

---

- (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]**

---

- (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;

DRAFT

- (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).

DRAFT

- (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

DRAFT

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.

DRAFT

## SECTION C

## SOURCE OPERATION CONDITIONS

### Entire Source

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

##### C.1 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 twenty percent (20%) 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.2 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.3 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.4 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.5 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

DRAFT

- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
  - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
  - (2) The PM<sub>10</sub> emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (3) The PM<sub>10</sub> stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
  - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
  - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
  - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
  - (3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
    - (A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
    - (B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the attached Fugitive Dust Control Plan.

DRAFT

C.6 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.

DRAFT

- (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.7 Performance Testing [326 IAC 3-6]

---

- (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.8 Compliance Requirements [326 IAC 2-1.1-11]

---

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.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

---

- (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.

DRAFT

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

---

- (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.11 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]**

---

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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.12 Risk Management Plan [326 IAC 2-7-5(11)][40 CFR 68]**

---

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.13 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]**

---

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

DRAFT

- (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.

**C.14 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).

DRAFT

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

### C.15 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]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:
- (1) starting in 2004 and every three (3) years thereafter, and
  - (2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.
- (b) 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.16 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6][326 IAC 2-2][326 IAC 2-3]

- (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.

DRAFT

- (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) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
- (i) Baseline actual emissions;
- (ii) Projected actual emissions;
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(2)(A)(iii); and
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

DRAFT

- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11][326 IAC 2-2][326 IAC 2-3]

- 
- (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.
  - (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) 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.
  - (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (oo) and/or 326 IAC 2-3-1 (jj)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
    - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (ww) and/or 326 IAC 2-3-1 (pp), for that regulated NSR pollutant, and

DRAFT

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:
  - (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part 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

- (g) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

### **Stratospheric Ozone Protection**

#### **C.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

---

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.

DRAFT

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Miscellaneous Material Handling and Material Blending

- (a) One (1) miscellaneous material handling operation, constructed in 1961, with a maximum capacity of 375 tons per hour, for loading/unloading barges and with a maximum capacity of 1,000 tons per hour loading ships by using tracked backhoes and large rubber tire front-end loaders for use by US Steel, and using the following conveyors:
  - (1) One (1) miscellaneous material stacker conveyor with feeder hopper, identified as 183 and 182, each with a maximum capacity of 500 tons per hour, powered by a nonroad engine-driven generator, constructed in October 1999, and exhausting to the atmosphere.
  - (2) One (1) miscellaneous material stacker conveyor with feeder hopper, identified as MCC130 and 572, each with a maximum capacity of 500 tons per hour, powered by a nonroad engine-driven generator, constructed in April 1985, and exhausting to the atmosphere.
- (b) One (1) miscellaneous material handling operation, with a maximum capacity of 835 tons per hour, for handling miscellaneous material by bulldozer into piles for use by US Steel, constructed in 1961, and exhausting to the atmosphere.
- (c) One (1) petroleum coke handling operation, with a maximum capacity of 40 tons per hour, for blending with the flue dust, sludge, coke, scale, scrap and granulated slag by bulldozer into piles for use by US Steel, constructed in 1961, and exhausting to the atmosphere.
- (d) One (1) "A" Pile Blend handling operation, with a maximum capacity of 1,475 tons per hour, in which various stockpiles of granulated slag, ore pellets, pet coke, flue dust, sludge, coke, scale, scrap and other materials that are used in the sinter cake are loaded by front end loaders into scrapers, constructed in 1961, and exhausting to the atmosphere. The scrapers transport the various materials to the "A" Pile Blend area and spread the various materials into layers.
- (e) One (1) transfer operation of loading materials from the "A" Pile into scrapers for transportation to the "B" Pile, with a maximum capacity of 1,725 tons per hour, operating since 1961, and exhausting to the atmosphere.
- (f) One (1) material hauling operation that uses 18-wheel vehicles on paved and unpaved roads to transport materials for screening and blending, constructed in 1961, and exhausting to the atmosphere. The materials are loaded by front end loaders into 18-wheel vehicles and driven to various locations designated by U.S. Steel.

(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 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations For Lake County), particulate matter (PM) emissions from the screeners and conveyors shall be limited to 0.03 grain per dry

DRAFT

standard cubic foot of exhaust air.

#### **D.1.2 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 preventive maintenance plan required by this condition.

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

##### **D.1.3 Fugitive Dust Control**

The dust suppression used as control for the fugitive particulate emissions from the screening, conveying, blending and transferring shall be applied as necessary to control fugitive dust, according to the attached Fugitive Dust Control Plan.

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

##### **D.1.4 Visible Emissions Notations**

- (a) Visible emission notations of the screening, conveying, blending and transferring points shall be performed once per day during normal daylight operations. 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 and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

##### **D.1.5 Record Keeping Requirements**

- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain records of daily visible emission notations of the screening, conveying, blending and transferring points. 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) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

DRAFT

## SECTION D.2

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Screening and Conveying Operations

- (g) One (1) flue dust or sludge screening plant, identified as 866 (CEC-Screen-It), approved for construction in 2018, powered by a 70 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, when screening flue dust, and 100 tons per hour when screening sludge, and using the following conveyor:
  - (1) One (1) flue dust or sludge conveyor stacker, identified as 168, with a maximum of 100 tons per hour, when conveying flue dust, and 100 tons per hour when conveying sludge, constructed in March 1995, and exhausting to the atmosphere.
- (h) One (1) coke screening plant, identified as 166, powered by a 215 Hp diesel engine, with a maximum capacity of 350 tons per hour, constructed in July 1961 and rebuilt in June 1996 and again in December 2013, and exhausting to the atmosphere.

Under the NSPS 40 CFR 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

Under the NESHAP 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.
- (i) One (1) miscellaneous screening portable screener, identified as 174, powered by a 49 Hp nonroad diesel engine, with a maximum capacity of 75 tons per hour, constructed in May 1996, and exhausting to the atmosphere.
- (j) One (1) miscellaneous portable screening plant, identified as 177, powered by a 49 Hp nonroad diesel engine, with a maximum capacity of 75 tons per hour, constructed in September 1997, and exhausting to the atmosphere.
- (k) One (1) backup scale screening plant, identified as 163, powered by a 130 Hp nonroad diesel engine, with a maximum capacity of 150 tons per hour, constructed in June 1976, modified in 2015, and using the following conveyors:
  - (1) One (1) scale screening conveyor, identified as 562, with a maximum capacity of 150 tons per hour, constructed in March 1984, and exhausting to the atmosphere.
  - (2) One (1) scale screening conveyor, identified as 573, with a maximum capacity of 150 tons per hour, constructed in April 1985, and exhausting to the atmosphere.
  - (3) One (1) scale screening stacker conveyor, identified as 185, with a capacity of 150 tons per hour, constructed in April 2000, and exhausting to the atmosphere.
- (l) One (1) scrap screening radial stacker conveyor, identified as 178, with a maximum capacity of 75 tons per hour, and used as a spare, constructed in May 1999, and exhausting to the atmosphere.
- (m) One (1) Oversize Screen plant, identified as 175, powered by a 130 Hp nonroad diesel engine,

DRAFT

with a maximum capacity of 100 tons per hour constructed in July 1996, and using the following conveyors:

- (1) One (1) oversize screening magnetic head pulley conveyor, identified as 558, with a maximum capacity of 100 tons per hour, constructed in May 1990, and exhausting to the atmosphere.
- (2) One (1) oversize screening conveyor, identified as 181, with a maximum capacity of 100 tons per hour, and used as a spare, constructed in August 1981, and exhausting to the atmosphere.
- (n) One (1) miscellaneous material portable screening plant, identified as 164, powered by a nonroad engine-driven generator, with a maximum capacity of 150 tons per hour, constructed in March 2005, modified in 2015, and using the following conveyors:
  - (1) One miscellaneous portable stacker conveyor, identified as 176, with a maximum capacity of 150 tons per hour, constructed in July 1996, modified in 2015, and exhausting to the atmosphere.
  - (2) One (1) scale screening magnetic head pulley, identified as 561, with a capacity of 150 tons per hour, constructed in December 1975, modified in 2015, and exhausting to the atmosphere.
  - (3) One (1) scale screening conveyor, identified as 574, with a maximum capacity of 150 tons per hour, constructed in April 1985, modified in 2015, and exhausting to the atmosphere.
- (o) One (1) miscellaneous portable screener, identified as 179, powered by a 48 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, constructed in September 2006, and exhausting to the atmosphere.
- (p) One (1) miscellaneous material portable stacker conveyor, identified as 865, powered by a 83 Hp nonroad diesel engine, with a maximum capacity of 700 tons per hour, constructed in 2009, and exhausting to the atmosphere.

**Insignificant Activities:**

- (a) Propane or liquefied petroleum gas or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.
  - (1) Three (3) Radiant Tank Top Heaters, identified as RTH1, RTH2, and RTH3, with a combined maximum heat input capacity of 15,000 Btu/hr, and exhausting to the atmosphere.
- (b) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing equal to or less than five-tenths percent (0.5%) sulfur by weight.
  - (1) Two (2) portable forced air heaters, identified as KH1 and KH2, fueled with kerosene, each with a maximum heat input capacity of 600,000 Btu/hr, KH1 installed in June 2002, and KH2 installed prior to 2002, and exhausting to the atmosphere.
  - (2) One (1) portable forced air heater, identified as KH3, fueled with kerosene, with a maximum heat input capacity of 375,000 Btu/hr, installed prior to 2002, and exhausting

DRAFT

to the atmosphere.

(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.2.1 Particulate Matter (PM) [326 IAC 6.8-1-2]**

- (a) Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations For Lake County), particulate matter (PM) emissions from the screeners and conveyors shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.
- (b) Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) emissions from the stationary internal combustion engine shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.
- (c) Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) emissions from the radiant tank top heaters, identified as RTH1, RTH2, and RTH3 and the three (3) portable forced air heater, identified as KH1, KH2, and KH3 shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.

#### **D.2.2 NO<sub>x</sub> Minor Limit [326 IAC 2-2][326 IAC 2-3]**

In order to render the requirements of 326 IAC 2-2 and 326 IAC 2-3 not applicable, the Permittee shall comply with the following:

- (a) The emissions for NO<sub>x</sub> shall not exceed 0.0310 pound/horsepower-hour in the Coke Screening 166 diesel engine, the Miscellaneous Screening Portable Plant 174 diesel engine and the Oversize Screen Plant 175 diesel engine.
- (b) The usage of diesel fuel in the Coke Screening 166 diesel engine, the Miscellaneous Screening Portable Plant 174 diesel engine and the Oversize Screen Plant 175 diesel engine shall be less than 129,000 gallons of diesel fuel combined per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall limit the potential to emit NO<sub>x</sub> to less than forty (40) tons twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

#### **D.2.3 Minor Limits [326 IAC 2-7-10.5(f)][326 IAC 2-2][326 IAC 2-3]**

In order to render the requirements of 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), and 326 IAC 2-7-10.5(f)(4) not applicable, the Permittee shall comply with the following:

- (a) The emissions for PM shall not exceed 0.01729 pound/Ton of material for the one (1) miscellaneous material portable stacker conveyor, identified as 865.
- (b) The emissions for PM<sub>10</sub> shall not exceed 0.00818 pound/Ton of material for the one (1) miscellaneous material portable stacker conveyor, identified as 865.
- (c) The emissions for PM<sub>2.5</sub> shall not exceed 0.00257 pound/Ton of material for the one (1) miscellaneous material portable stacker conveyor, identified as 865.
- (d) The operation for the one (1) miscellaneous material portable stacker conveyor, identified as 865, shall not exceed 3,400 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

DRAFT

Compliance with the above limits shall limit the PM emissions to less than twenty-five (25) tons per twelve (12) consecutive month period, the PM<sub>10</sub> emissions to less than fifteen (15) tons per twelve (12) consecutive month period, and the PM<sub>2.5</sub> emissions to less than ten (10) tons per twelve (12) consecutive month period. Therefore, compliance with the above limits shall render the requirements of 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset) , and 326 IAC 2-7-10.5(f) (Significant Source Modifications) not applicable.

#### D.2.4 PSD Minor Limits PM, PM<sub>10</sub>, and PM<sub>2.5</sub> [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:

- (a) PM emissions from the one (1) miscellaneous material portable screening plant, identified as 164, shall not exceed 0.025 pound/ton of material.
- (b) PM<sub>10</sub> emissions from the one (1) miscellaneous material portable screening plant, identified as 164, shall not exceed 0.0087 pound/ton of material.
- (c) PM<sub>2.5</sub> emissions from the one (1) miscellaneous material portable screening plant, identified as 164, shall not exceed 0.0087 pound/ton of material.
- (d) PM emissions from the one (1) miscellaneous portable stacker conveyor, identified as 176, shall not exceed 0.01729 pound/ton of material.
- (e) PM<sub>10</sub> emissions from the one (1) miscellaneous portable stacker conveyor, identified as 176, shall not exceed 0.00818 pound/ton of material.
- (f) PM<sub>2.5</sub> emissions from the one (1) miscellaneous portable stacker conveyor, identified as 176, shall not exceed 0.00124 pound/ton of material.
- (g) The hours of operation for the one (1) miscellaneous material portable screening plant, identified as 164 shall not exceed 7,300 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (h) The hours of operation for the one (1) miscellaneous portable stacker conveyor, identified as 176, shall not exceed 7,300 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these emissions limits will ensure that the potential to emit from Significant Source Modification No. 089-36991-00172 is less than twenty-five (25) tons of PM, fifteen (15) tons of PM<sub>10</sub>, and ten (10) tons of PM<sub>2.5</sub> per twelve (12) consecutive month period and therefore will render the requirements of 326 IAC 2-2 not applicable.

#### D.2.5 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 preventive maintenance plan required by this condition.

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

#### D.2.6 Fugitive Dust Control

---

The dust suppression used as control for the fugitive particulate emissions from the screening and conveying shall be applied as often as needed to control fugitive dust, according to the attached Fugitive Dust Control Plan.

DRAFT

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

### **D.2.7 Visible Emissions Notations**

---

- (a) Visible emission notations of the flue dust, coke, miscellaneous, scale, scrap and oversize screens, screeners, stackers and conveyors shall be performed once per day during normal daylight operations. 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 and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

### **D.2.8 Record Keeping Requirements**

---

- (a) To document the compliance status with Condition D.2.2, the Permittee shall maintain records of the monthly usage of diesel fuel in the Coke Screening 166 diesel engine, the Miscellaneous Screening Portable Plant 174 diesel engine and the Oversize Screen Plant 175 diesel engine.
- (b) To document the compliance status with Condition D.2.3, the Permittee shall maintain monthly records of the hours of operation of the one (1) miscellaneous material portable stacker conveyor identified as 865.
- (c) To document the compliance status with Condition D.2.4, the Permittee shall maintain monthly records of the hours of operation of the one (1) miscellaneous material portable screening plant, identified as 164 and the one (1) miscellaneous portable stacker conveyor, identified as 176.
- (d) To document the compliance status with Condition D.2.7, the Permittee shall maintain records of daily visible emission notations of the screening, conveying, blending and transferring points. 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).
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

### **D.2.9 Reporting Requirements**

---

A quarterly summary of the information to document the compliance status with Conditions D.2.2, D.2.3, and D.2.4 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

DRAFT

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).

DRAFT

## SECTION D.3

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Insignificant Activities

- (c) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment.
  - (1) One (1) gasoline aboveground double-walled steel storage tank, identified as R3, with a maximum storage capacity of 1,050 gallons, installed in June 1997, and exhausting to the atmosphere.
- (d) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.
  - (1) One (1) diesel fuel aboveground storage tank, identified as R4, with a maximum storage capacity of 10,000 gallons, a steel tank inside an enclosed containment system, installed in June 1997, and exhausting to the atmosphere.
  - (2) One (1) diesel fuel aboveground storage tank, identified as T18, with a maximum storage capacity of 2,000 gallons, a steel tank inside an enclosed containment system, installed in December 1997, and exhausting to the atmosphere.
- (e) The following stationary VOC and HAP storage containers: vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids, as follows:
  - (1) One (1) Anti-Freeze storage tank, identified as T-2, with a maximum storage capacity of 440 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (2) One (1) Anti-Freeze storage tank, identified as T-3, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (3) One (1) Hydraulic Oil storage tank, identified as T-4, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (4) One (1) Transmission Oil storage tank, identified as T-10, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (5) One (1) 15W/40 Motor Oil, identified as T-11, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (6) One (1) Hydraulic Oil storage tank, identified as T-12, with a maximum storage capacity of 560 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (7) One (1) Heating Oil storage tank, identified as T-13, with a maximum storage capacity of 285 gallons, installed prior to 1997, and exhausting to the atmosphere.
  - (8) One (1) Used Oil storage tank, identified as T-5, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.

DRAFT

- (9) One (1) Used Oil storage tank, identified as T-6, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.
- (10) One (1) Used Oil storage tank, identified as T-7, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.
- (11) One (1) Used Oil storage tank, identified as T-8, with a maximum storage capacity of 285 gallons, installed prior to 1997, and exhausting to the atmosphere.
- (12) One (1) Used Antifreeze storage tank, identified as T-9, with a maximum storage capacity of 275 gallons, installed prior to 1997, and exhausting to the atmosphere.

(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.3.1 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]**

- (a) Pursuant to 326 IAC 8-9-1(a) and (b) (Volatile Organic Liquid Storage Vessels), on and after October 1, 1995, stationary vessels used to store volatile organic liquids (VOL) that are located in Clark, Floyd, Lake or Porter County with a capacity of less than thirty-nine thousand (39,000) gallons are subject to the reporting and record keeping requirements of 326 IAC 8-9-6(a) and (b) and are exempt from all other provisions of 326 IAC 8-9.
- (b) Pursuant to 326 IAC 8-9-6(a) and (b), the Permittee shall maintain the following records of each volatile organic liquid storage vessel to which 326 IAC 8-9 applies for the life of the stationary storage vessels and submit a report to IDEM, OAQ containing the following information for each vessel:
  - (1) The vessel identification number.
  - (2) The vessel dimensions.
  - (3) The vessel capacity.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

DRAFT

## SECTION E.1

## NSPS

### Emissions Unit Description:

- (h) One (1) coke screening plant, identified as 166, powered by a 215 Hp diesel engine, with a maximum capacity of 350 tons per hour, constructed in July 1961 and rebuilt in June 1996 and again in December 2013, and exhausting to the atmosphere.

Under the NSPS 40 CFR 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

Under the NESHAP 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

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

### New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

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

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit listed above, except as otherwise specified in 40 CFR Part 60, Subpart IIII.
- (b) Pursuant to 40 CFR 60.4, 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.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines NSPS [326 IAC 12][40 CFR Part 60, Subpart IIII]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit listed above:

- (1) 40 CFR 60.4200(a)(3)
- (2) 40 CFR 60.4204(a)
- (3) 40 CFR 60.4204(e)
- (4) 40 CFR 60.4206
- (5) 40 CFR 60.4207(b)
- (6) 40 CFR 60.4208(i)
- (7) 40 CFR 60.4209
- (8) 40 CFR 60.4211(a)
- (9) 40 CFR 60.4211(b)
- (10) 40 CFR 60.4211(e)
- (11) 40 CFR 60.4211(g)

DRAFT

- (12) 40 CFR 60.4212
- (13) 40 CFR 60.4214
- (14) 40 CFR 60.4218
- (15) 40 CFR 60.4219
- (16) Table 1 to Subpart IIII of Part 60
- (17) Table 8 to Subpart IIII of Part 60

DRAFT

## SECTION E.2

## NESHAP

### Emissions Unit Description:

- (h) One (1) coke screening plant, identified as 166, powered by a 215 Hp diesel engine, with a maximum capacity of 350 tons per hour, constructed in July 1961 and rebuilt in June 1996 and again in December 2013, and exhausting to the atmosphere.

Under the NSPS 40 CFR 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

Under the NESHAP 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, the 215 Hp diesel engine listed above is considered an affected facility.

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

### National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

#### E.2.1 General Provisions Relating to National Emission 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 63.1 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, for the emission units listed above, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

- (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.2.2 National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ][326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 20-82, for the emission unit(s) listed above:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585(a)
- (3) 40 CFR 63.6585(b)
- (4) 40 CFR 63.6590(a)(3)(ii)
- (5) 40 CFR 63.6590(c)(7)

DRAFT

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

Source Name: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172

**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:

DRAFT

**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: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172

**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) daytime 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:

DRAFT

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: \_\_\_\_\_

DRAFT

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

**Part 70 Quarterly Report**

Source Name: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172  
Facility: Three diesel engines: Plant 166, Plant 174 and Plant 175  
Parameter: Diesel fuel usage  
Limit: 129,000 gallons per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this quarter.

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

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

DRAFT

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

**Part 70 Quarterly Report**

Source Name: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172  
Facility: One (1) miscellaneous material portable stacker conveyor, identified as 865  
Parameter: Hours of operation  
Limit: 3,400 hours per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: \_\_\_\_\_

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

Signature: \_\_\_\_\_

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

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

DRAFT

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

**Part 70 Quarterly Report**

Source Name: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172  
Facility: One (1) miscellaneous material portable screening plant, identified as 164  
Parameter: Hours of operation  
Limit: 7,300 hours per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this quarter.

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

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

DRAFT

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

**Part 70 Quarterly Report**

Source Name: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172  
Facility: One (1) miscellaneous portable stacker conveyor, identified as 176  
Parameter: Hours of operation  
Limit: 7,300 hours per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this quarter.

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

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

DRAFT

**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: Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-36399-00172

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

Page 1 of 2

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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

DRAFT

Page 2 of 2

<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 Minor Source  
Modification and Significant Permit Modification**

**Source Description and Location**

<b>Source Name:</b>	<b>Central Teaming Company, Inc.</b>
<b>Source Location:</b>	<b>One North Broadway, Gary, Indiana 46402</b>
<b>County:</b>	<b>Lake (North Township)</b>
<b>SIC Code:</b>	<b>3312 (Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills), 3295 (Minerals and Earths, Ground or Otherwise Treated)</b>
<b>Operation Permit No.:</b>	<b>T089-36399-00172</b>
<b>Operation Permit Issuance Date:</b>	<b>July 14, 2016</b>
<b>Minor Source Modification No.:</b>	<b>089-40584-00172</b>
<b>Significant Permit Modification No.:</b>	<b>089-40590-00172</b>
<b>Permit Reviewer:</b>	<b>Thomas Uher</b>

**Source Definition**

US Steel - Gary Works is an integrated steel mill that includes the primary operation, U.S. Steel – Gary Works (Source ID 089-00121), at One North Broadway, Gary, Indiana, collocated with on-site contractors:

	<b>Company Name</b>	<b>Source ID</b>	<b>Operation Description</b>
1	U.S. Steel - Gary Works	089-00121	integrated steel mill
	<b><i>On-Site Contractors</i></b>		
2	Tube City IMS LLC	089-00132	slag processing/metal recovery
3	South Shore Slag LLC	089-00133	slag crushing, screening and conveying
4	Tube City IMS, LLC	089-00170	iron ore screening operation
5	Central Teaming Company Inc.	089-00172	material handling
6	Mid-Continent Coal & Coke	089-00173	coke screening operation
7	Tube City IMS LLC	089-00174	scrap metal processing
8	AKJ Industries, Inc.	089-00505	coal tar sludge processing
9	J.L Smith Services	089-00509	slag crushing and recycling
10	Fritz Enterprises, Inc.	089-00578	iron and slag processing operation
11	Crister Companies	089-05333	slag crushing and screening operation

A Part 70 permit has been issued to U.S. Steel – Gary Works (Source ID 089-00121). Separate Administrative Part 70 permits will be issued to each of the on-site contractors, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

**Existing Approvals**

The source was issued Part 70 Operating Permit Renewal No. T089-36399-00172 on July 14, 2016. There have been no subsequent approvals issued.

**County Attainment Status**

The source is located in Lake County, North Township. The following attainment status designations are applicable to Lake County:

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 <sup>th</sup> Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O <sub>3</sub>	Moderate nonattainment effective June 3, 2016, for the 2008 8-hour ozone standard. <sup>1</sup>
O <sub>3</sub>	Nonattainment effective August 3, 2018, for the 2015 8-hour ozone standard for Calumet, Hobart, North, Ross, and St. John townships. Unclassifiable or attainment effective August 3, 2018, for the 2015 8-hour ozone standard for the remainder of the county. <sup>1</sup>
PM <sub>2.5</sub>	Unclassifiable effective April 15, 2015, for the 2012 annual PM <sub>2.5</sub> standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM <sub>2.5</sub> standard.
PM <sub>10</sub>	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO <sub>2</sub>	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO <sub>2</sub> standard.
Pb	Unclassifiable or attainment effective December 31, 2011 for the 2008 lead standard.

<sup>1</sup>Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard, which was revoked effective June 15, 2005. The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3 for the 1-hour standard.

- (a) Ozone Standards  
U.S. EPA, in the Federal Register Notice 77 FR 34228 dated June 11, 2012, designated Lake County, North Township as nonattainment for the 2008 8-hour ozone standard. On August 1, 2012, the air pollution control board issued an emergency rule adopting the U.S. EPA's designation. This rule became effective August 9, 2012. IDEM does not agree with U.S. EPA's designation of nonattainment. IDEM filed a suit against U.S. EPA in the U.S. Court of Appeals for the DC Circuit on July 19, 2012. However, in order to assure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's designation. 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. Therefore, VOC and NO<sub>x</sub> emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (b) PM<sub>2.5</sub>  
Lake 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  
Lake County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### Fugitive Emissions

Since this source is classified as an iron and steel mill, it is considered one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B). Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

### Greenhouse Gas (GHG) Emissions

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 GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

### Source Status - Existing Source

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

Process / Emission Unit	Source-Wide Emissions Before Modification (ton/year)								
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP*	Combined HAPs
Total for Source	>100	>100	>100	>100	>100	>100	>100	>10	>25
PSD Major Source Thresholds	100	100	100	100	--	--	100	--	--
Emission Offset Major Source Thresholds	--	--	--	--	100	100	--	--	--

\*Single highest source-wide HAP.

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant, PM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and CO, is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because NO<sub>x</sub> and VOC, a nonattainment regulated pollutant, is emitted at a rate of 100 tons per year or more.
- (c) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are equal to or greater than ten (10) tons per year for a single HAP and equal to or greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).
- (d) These emissions are based on the TSD of Renewal No.: 089-36399-00172, issued on June 28, 2018.

### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Central Teaming Company on October 9, 2018, relating to the replacement of a screening plant used for flue dust and sludge, identified as 861. This unit was constructed in 2007, and the source is replacing this unit with a replacement screening plant. The new unit, identified as 866, is a screening plant originally manufactured in 2005, and is also powered by a 70 hp non-road internal combustion engine.

The source has requested that the replacement of unit 861 with 866 be permitted under the provisions of 326 IAC 2-7-10.5(c). Pursuant to 326 IAC 2-7-10.5(c), the owner or operator of a source may repair or replace an emissions unit without prior approval if the repair or replacement:

- (1) results in a potential to emit for each regulated pollutant that is less than or equal to the potential to emit of the equipment or the affected emissions unit that was repaired or replaced;
- (2) is not a major modification under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-4.1; and
- (3) returns the emissions unit, process, or control equipment to normal operation after an upset, malfunction, or mechanical failure or prevents impending and imminent failure of the emissions unit, process, or control equipment.

If the repair or replacement qualifies as a reconstruction or is a complete replacement of an emissions unit or air pollution control equipment and would require a modification approval or operating permit modification under a provision of this rule, the owner or operator of the source must submit an application for a permit or permit modification to the commissioner not later than thirty (30) calendar days after initiating the repair or replacement.

The screening plant, unit 861, was replaced by a unit, 866, that meets the above criteria. Unit 866 was installed on September 28, 2018. This application was received on October 9, 2018. Therefore, the owner/operator has satisfied the requirement to submit an application for a modification approval and permit modification not later than thirty (30) days after initiating the repair/ replacement.

The following is a list of the modified emission unit:

- (g) One (1) flue dust or sludge screening plant, identified as 866 (CEC-Screen-It), approved for construction in 2018, powered by a 70 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, when screening flue dust, and 100 tons per hour when screening sludge, and using the following conveyor:
  - (1) One (1) flue dust or sludge conveyor stacker, identified as 168, with a maximum of 100 tons per hour, when conveying flue dust, and 100 tons per hour when conveying sludge, constructed in March 1995, and exhausting to the atmosphere.

The parts of this operation that are being replaced include the screening plant (CEC-Screen-It) and the 70-hp non-road engine. The conveyor stacker is not being replaced. This portable screening operation works independent of other operations performed by Central Teaming Company at US Steel. Therefore, there are no up or downstream processes impacted by the replacement of this screening plant.

#### **Enforcement Issues**

There are no pending enforcement actions related to this modification.

#### **Emission Calculations**

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

#### **Permit Level Determination – Part 70 Modification to an Existing Source**

Pursuant to 326 IAC 2-1.1-1(12), 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 and 326 IAC 2-7-11. 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.

Process / Emission Unit	PTE Before Controls of the New Emission Units (ton/year)								
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP	Combined HAPs
Unit 866 <sup>1</sup>	10.95	3.81	3.81	--	--	--	--	--	--
<b>Total PTE:</b>	<b>10.95</b>	<b>3.81</b>	<b>3.81</b>	--	--	--	--	--	--

<sup>1</sup>Emissions do not include emissions from the 70 hp internal combustion engine. This engine was determined to be a non-road engine.

Appendix A of this TSD reflects the potential emissions of the modification in detail.

(a) Approval to Construct

Pursuant to 326 IAC 2-7-10.5(e)(1)(A), a Minor Source Modification is required because this modification has the potential to emit PM that is less than twenty-five (25) tons per year and equal to or greater than five (5) tons per year.

(b) Approval to Operate

Pursuant to 326 IAC 2-7-12(d)(1), this change to the permit is being made through a Significant Permit Modification because this modification makes a significant change to existing monitoring conditions.

**Permit Level Determination – PSD Actual to Projected Actual Test**

(a) Actual to Projected Actual (ATPA) Applicability Test

The source opted to use the Actual to Projected Actual (ATPA) test, specified in 326 IAC 2-2-2(d)(3), to demonstrate that the modification is not subject to PSD major review.

The source has provided information and emission calculations as part of the application for this ATPA test. IDEM, OAQ reviewed the emission calculations provided by the source to verify the emissions factors and methodology used, but has not made any determination regarding the validity and accuracy of certain information such as actual throughput, actual usage and actual hours of operation.

The source will be required to keep records and report in accordance with the requirements of 326 IAC 2-2-8 (Prevention of Significant Deterioration (PSD) Requirements: Source Obligation).

(b) Existing Emissions Units Affected by the Modification Only

This project involves existing emission units affected by the modification only. The following emissions units will be considered existing for the purpose of ATPA:

- (1) The new emission units, which are replacing existing emissions units, which are nearly equal capacity that serves the same purpose without increasing the emissions. A replacement emissions unit is an existing emissions unit. [326 IAC 2-2-1(t)(2)].
- (2) Modified emissions units.
- (3) Emissions Units that will not be modified; however, they will experience increased or decreased utilization as part of this project.

There are no new emissions units involved in this applicability test.

The following emissions unit(s) will be considered as existing emissions units for this evaluation.

- (1) One (1) flue dust or sludge screening plant, identified as 866 (CEC-Screen-It), originally constructed in March 2007 (identified as unit 861) and replaced in 2018, powered by a 70 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, when

screening flue dust, and 100 tons per hour when screening sludge

(c) Baseline Actual Emissions

The baseline actual emissions from the existing emission units involved in this ATPA applicability test are based on their emissions from 2013 through 2014.

(d) Actual to Projected Actual (ATPA) Summary

Since this project only involves existing emissions units, an Actual to Projected Actual (ATPA) applicability test has been conducted. The emissions increase of the project is the sum of the difference between the projected actual emissions and the baseline emissions for **each existing emissions unit**.

$$\text{ATPA}_{(\text{existing unit})} = \text{Projected Actual Emissions} - \text{Baseline Emissions}$$

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

Existing Emissions Unit ATPA (tons/year)							
Process/Emission Unit	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Unit 866							
Projected Actual Emissions	1.22	0.42	0.42	-	-	-	-
Baseline Actual Emissions	1.13	0.39	0.39	-	-	-	-
<b>ATPA</b>	<b>0.09</b>	<b>0.03</b>	<b>0.03</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Project Emissions (ton/year)							
Process/Emission Unit	PM	PM <sub>10</sub>	PM <sub>2.5</sub> *	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Unit 866 (ATPA)	0.09	0.03	0.03	0	0	0	0
<b>Project Emissions</b>	<b>0.09</b>	<b>0.03</b>	<b>0.03</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Significant Levels	25	15	10	40	40	40	100
*PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> .							

(e) Conclusion

Based on this applicability test, this proposed modification is not subject to PSD major review under 326 IAC 2-2-1, because the project emissions are less than the significance levels (i.e., the modification does not cause a significant emissions increase).

**Federal Rule Applicability Determination**

Due to the modification at this source, federal rule applicability has been reviewed as follows:

**New Source Performance Standards (NSPS):**

(a) 40 CFR 60, Subpart LL

The requirements of the New Source Performance Standard for Metallic Mineral Processing Plants, 40 CFR 60, Subpart LL, are not included in the permit for the source. The operations at the source do not produce metallic mineral concentrates from ore. In addition, none of the slag crushing and/or screening operations are performed in open-pit mines. Therefore, unit 866 is not subject to 40 CFR 60, Subpart LL.

(b) 40 CFR 60, Subpart OOO

The requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO, are not included in the permit for the source. Slag, ore and pet

coke do not conform to the definition of "nonmetallic mineral"; therefore, Central Teaming Company, Inc. is not subject to 40 CFR 60, Subpart OOO.

- (c) 40 CFR 60, Subpart IIII  
The engine used to power unit 866 is a nonroad engine as defined at 40 CFR 1068.30. Nonroad engines are excluded from the definition of stationary internal combustion engine at 40 CFR 60.4219. Therefore, nonroad engines are not subject to 40 CFR 60, Subpart IIII.
- (d) 40 CFR 60, Subpart JJJJ  
The requirements of the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ, are not included in the permit for unit 866. This unit does not have any stationary spark ignition internal combustion engines; therefore, Central Teaming Company, Inc. is not subject to 40 CFR 60, Subpart JJJJ.
- (e) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this proposed modification.

**NESHAP:**

- (f) 40 CFR 60, Subpart ZZZZ  
The engine used to power unit 866 is a nonroad engine as defined at 40 CFR 1068.30. Nonroad engines are excluded from the definition of stationary internal combustion engine at 40 CFR 63.6675. Therefore, nonroad engines are not subject to 40 CFR 60, Subpart ZZZZ.
- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (40 CFR Part 63, 326 IAC 14, and 326 IAC 20) included in the permit for this proposed modification.

**Compliance Assurance Monitoring (CAM):**

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
  - (1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;
  - (2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and
  - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.
- (b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.
- (c) Pursuant to 40 CFR 64.2(b)(1)(iii), Acid Rain requirements pursuant to Sections 404, 405, 406, 407(a), 407(b), or 410 of the Clean Air Act are exempt emission limitations or standards. Therefore, CAM was not evaluated for emission limitations or standards for SO<sub>2</sub> and NO<sub>x</sub> under the Acid Rain Program.
- (d) Pursuant to 40 CFR 64.3(d), if a continuous emission monitoring system (CEMS) is required pursuant to other federal or state authority, the owner or operator shall use the CEMS to satisfy the requirements of CAM according to the criteria contained in 40 CFR 64.3(d).

None of the units at the source use a control device to comply with an emission limitation. Emissions are controlled using a fugitive dust control plan. Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the existing units as part of this Part 70 permit renewal.

### State Rule Applicability Determination

Due to the modification at this source, state rule applicability has been reviewed as follows:

#### **326 IAC 2-2 (PSD) and 2-3 (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 unit 866 will not emit HAPs. Therefore, 326 IAC 2-4.1 does not apply.

#### **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 certifications 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.

#### **326 IAC 5-1 (Opacity Limitations)**

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2).

#### **326 IAC 6.5 PM (Limitations Except Lake County)**

This source is not subject to 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

#### **326 IAC 6.8 PM (Limitations for Lake County)**

This source is subject to 326 IAC 6.8 because it is located in Lake County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.8-2. Therefore, 326 IAC 6.8-1-2 applies as follows:

- (a) Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) emissions from the screener, unit 866, shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.

#### **326 IAC 6.8-8 (Continuous Compliance Plan)**

IDEM has determined that the requirements of 326 IAC 6.8-8 are applicable to the primary source and will not be included in administrative permits issued to on-site contractors.

#### **326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)**

Pursuant to 326 IAC 6.8-10, the screening unit, 866, is subject to this rule because it is located in Lake County and has the potential to emit more than five (5) tons of fugitive particulate matter per year due to wind erosion from storage piles and exposed areas, and material transportation activities.

Pursuant to 326 IAC 6.8-10-3, the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of

storage piles shall not exceed ten percent (10%) on a three (3) minute average.

- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the inplant transportation requirement.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
  - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
  - (2) The PM<sub>10</sub> emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (3) The PM<sub>10</sub> stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
  - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
  - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
  - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan.

### **326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to 326 IAC 6-3-1(c)(3), the requirements of 326 IAC 6-3 are not applicable to Central Teaming Company, Inc. because particulate limitations that are as stringent as or more stringent than limitations under 326 IAC 6-3 are established in 326 IAC 6.8.

<b>Compliance Determination and Monitoring Requirements</b>
---

Permits issued under 326 IAC 2-7 are required to assure 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.

(a) The Compliance Determination Requirements applicable to this modification are as follows:

The dust suppression used as control for the fugitive particulate emissions from the screening, conveying, blending and transferring shall be applied as necessary to control fugitive dust, according to the attached Fugitive Dust Control Plan.

(b) The Compliance Monitoring Requirements applicable to this proposed modification are as follows:

Emission Unit	Parameter	Frequency	Range	Excursions and Exceedances
Unit 866	Visible Emissions	Daily	Normal-Abnormal	Response Steps

These monitoring conditions are necessary for ensure Unit 866 is operating properly to assure compliance with 326 IAC 6.8-1-2 (PM Limitations for Lake County) and 326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter). This is a new requirement to the permit since this screening plant has not received construction or operation approval.

#### Proposed Changes

The following changes listed below are due to the proposed modification. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

- (1) The unit description for Unit 861 was updated to reflect its replacement with unit 866 in Section A.3 and all applicable following sections.

#### Additional Changes

IDEM, OAQ made additional changes to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

- (1) The header for the permit was updated in order to be consistent with our most current model.
- (2) For this Title V permit, IDEM, OAQ has included IDEM's Master Agency Interest Identification (ID) number of 19872 in the permit cover page signature box.

The permit has been modified as follows:



## Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

Michael R. Pence

Carol S. Comer

Governor

Commissioner



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

Eric J. Holcomb  
Governor

Bruno L. Pigott  
Commissioner

\*\*\*

Operating Permit No.: 089-36399-00172 <b>Master Agency Interest ID.: 19872</b>	
Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 14, 2016  Expiration Date: July 14, 2021

\*\*\*

A.3 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:

\*\*\*

Screening and Conveying Operations

- (g) One (1) flue dust or sludge screening plant, identified as 8664 (CEC-Screen-It), **approved for construction in 2018**, powered by a 70 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, when screening flue dust, and 100 tons per hour when screening sludge, ~~constructed in March 2007~~, and using the following conveyor:
- (1) One (1) flue dust or sludge conveyor stacker, identified as 168, with a maximum of 100 tons per hour, when conveying flue dust, and 100 tons per hour when conveying sludge, constructed in March 1995, and exhausting to the atmosphere.

\*\*\*

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Screening and Conveying Operations

- (g) One (1) flue dust or sludge screening plant, identified as 8664 (CEC-Screen-It), **approved for construction in 2018**, powered by a 70 Hp nonroad diesel engine, with a maximum capacity of 100 tons per hour, when screening flue dust, and 100 tons per hour when screening sludge, ~~constructed in March 2007~~, and using the following conveyor:

- (1) One (1) flue dust or sludge conveyor stacker, identified as 168, with a maximum of 100 tons per hour, when conveying flue dust, and 100 tons per hour when conveying sludge, constructed in March 1995, and exhausting to the atmosphere.

\*\*\*

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

### Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 9, 2018. Additional information was received on November 2, 2018.

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 089-40584-00172. The operation of this proposed modification shall be subject to the conditions of the attached Significant Permit Modification No. 089-40590-00172.

The staff recommends to the Commissioner that the Part 70 Minor Source Modification and Significant Permit Modification be approved.

### IDEM Contact

- (a) If you have any questions regarding this permit, please contact Thomas Uher, 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) 233-1782 or (800) 451-6027, and ask for Thomas Uher or (317) 233-1782.
- (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 Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations  
PTE Summary**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

Uncontrolled Potential to Emit (tons/yr)								
Emission Unit	PM	PM10	PM2.5 *	SO <sub>2</sub>	NOx	VOC	CO	Total HAPs
Screening	120.45	41.92	41.92	-	-	-	-	-
Conveying	39.09	14.33	14.33	-	-	-	-	-
Aggregate Handling	300.29	142.03	21.51	-	-	-	-	-
Internal Combustion Engines	3.80	3.80	3.80	3.54	53.50	4.34	11.53	4.68E-02
Propane - Heaters	1.44E-04	5.03E-04	5.03E-04	7.18E-03	9.33E-03	7.18E-04	5.39E-03	-
Kerosene - Heaters	0.10	0.12	0.10	3.50	0.99	0.02	0.25	3.38E-04
Storage Tanks	-	-	-	-	-	0.17	-	7.98E-03
<b>Subtotal</b>	<b>463.72</b>	<b>202.19</b>	<b>81.66</b>	<b>7.04</b>	<b>54.49</b>	<b>4.53</b>	<b>11.78</b>	<b>0.06</b>
US Steel Sourcewide Emissions	>100	>100	>100	>100	>100	>100	>100	>25
<b>Total</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;25</b>

\* PM2.5 listed is direct PM2.5

Potential to Emit after Issuance (tons/yr)								
Emission Unit	PM	PM10	PM2.5 *	SO <sub>2</sub>	NOx	VOC	CO	Total HAPs
Screening	23.54	8.19	8.19	-	-	-	-	-
Conveying	29.57	10.84	10.84	-	-	-	-	-
Aggregate Handling	265.95	125.79	19.05	-	-	-	-	-
Internal Combustion Engines	2.84	2.84	2.84	2.64	39.99	3.24	8.62	3.50E-02
Propane - Heaters	1.44E-04	5.03E-04	5.03E-04	7.18E-03	9.33E-03	7.18E-04	5.39E-03	-
Kerosene - Heaters	0.10	0.12	0.10	3.50	0.99	0.02	0.25	3.38E-04
Storage Tanks	-	-	-	-	-	0.17	-	7.98E-03
<b>Subtotal</b>	<b>322.00</b>	<b>147.78</b>	<b>41.02</b>	<b>6.15</b>	<b>40.98</b>	<b>3.43</b>	<b>8.87</b>	<b>0.04</b>
US Steel Sourcewide Emissions	>100	>100	>100	>100	>100	>100	>100	>25
<b>Total</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;100</b>	<b>&gt;25</b>

\* PM2.5 listed is direct PM2.5

Note: The shaded cells indicate where limits are included.

**Appendix A: Emission Calculations  
ATA Analysis**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

**1. Existing Emissions Units**

Existing Emissions Units ATPA (ton/yr)							
Process/Emission Unit	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
<b>Screening Operation</b>							
Projected Actual Emissions	1.22	0.42	0.42	-	-	-	-
Baseline Actual Emissions <sup>1)</sup>	1.13	0.39	0.39	-	-	-	-
<b>ATPA</b>	<b>0.09</b>	<b>0.03</b>	<b>0.03</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<sup>1)</sup> Baseline actual emissions are based on the emissions from 2013-2014

Baseline and projected actual emissions were calculated using AP-42 emission factors, and using actual operating hours and actual throughputs. See "40584Screening". Uncontrolled emissions are used in calculating actual emissions to achieve a more conservative estimate.

**2. Project Emissions**

Project Emissions (tpy)							
Process/Emission Unit	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
<b>Project Emissions Increase</b>	0.09	0.03	0.03	0	0	0	0
<b>Significant Levels</b>	<b>25</b>	<b>15</b>	<b>10</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>100</b>

**Appendix A: Emission Calculations  
Source Modification Summary**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

Uncontrolled Potential to Emit (tons/yr)								
Emission Unit	PM	PM10	PM2.5 *	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs
Screening unit 866	10.95	3.81	3.81	-	-	-	-	-
Subtotal	<b>10.95</b>	<b>3.81</b>	<b>3.81</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
70 hp Nonroad Engine**	0.67	0.67	0.67	0.63	9.50	0.77	2.05	3.61E-04
<b>Total</b>	<b>10.95</b>	<b>3.81</b>	<b>3.81</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

\* PM2.5 listed is direct PM2.5

\*\* The 70 hp nonroad engine is replacing the nonroad engine of equal capacity for unit 861 and will serve the same function. This is a nonroad engine as it is defined in 40 CFR 89.2. IDEM, OAQ does not regulate nonroad engines, and therefore the emissions are not counted toward PTE. This unit is listed for informational purposes only.

**Appendix A: Emission Calculations**  
**Screener 866**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

**1. PTE**

Maximum Capacity (tons/hr)      100      Hours of Operation (hrs/yr)      8760

ID	Process	Maximum Capacity (tons/hr)	PM Emission Factor <sup>1</sup> (lb/ton)	PM Potential Emissions (tpy)	PM <sub>10</sub> Emission Factor <sup>1</sup>	PM <sub>10</sub> Potential Emissions (tpy)	PM <sub>2.5</sub> Emission Factor <sup>1</sup>	PM <sub>2.5</sub> Potential Emissions (tpy)
866 Unlimited/Uncontrolled	Screening	100	0.02500	10.950	0.00870	3.811	0.00870	3.811
866 Controlled	<sup>2</sup> Screening	100	0.02500	2.190	0.00870	0.762	0.00870	0.762

**2. Actual Emissions**

2013 Actual Capacity (tons/hr)      48.7      2013 Hours of Operation (hrs/yr)      1954  
2014 Actual Capacity (tons/hr)      44.2      2014 Hours of Operation (hrs/yr)      1954

ID	Process	Average 2 yr Capacity (tons/hr)	PM Emission Factor <sup>1</sup> (lb/ton)	PM Potential Emissions (tpy)	PM <sub>10</sub> Emission Factor <sup>1</sup>	PM <sub>10</sub> Potential Emissions (tpy)	PM <sub>2.5</sub> Emission Factor <sup>1</sup>	PM <sub>2.5</sub> Potential Emissions (tpy)
866 Unlimited/Uncontrolled	Screening	46.45	0.02500	1.135	0.00870	0.395	0.00870	0.395
866 Controlled	<sup>2</sup> Screening	46.45	0.02500	0.227	0.00870	0.079	0.00870	0.079

**3. Projected Emissions**

2018 Projected Capacity (tons/hr)      50      2018 Hours of Operation (hrs/yr)      1954.000

ID	Process	Average 2 yr Capacity (tons/hr)	PM Emission Factor <sup>1</sup> (lb/ton)	PM Potential Emissions (tpy)	PM <sub>10</sub> Emission Factor <sup>1</sup>	PM <sub>10</sub> Potential Emissions (tpy)	PM <sub>2.5</sub> Emission Factor <sup>1</sup>	PM <sub>2.5</sub> Potential Emissions (tpy)
866 Unlimited/Uncontrolled	Screening	50	0.02500	1.221	0.00870	0.425	0.00870	0.425
866 Controlled	<sup>2</sup> Screening	50	0.02500	0.244	0.00870	0.085	0.00870	0.085

<sup>1</sup> Emission factors from US EPA AP-42, Ch. 11.19.2-2, SCC 3-05-020-02, 03 (Screening) SCC 3-05-020-06 (Conveyor Transfer Point)

<sup>2</sup> Per 326 IAC 6.8-10, screening operations are required to have a Fugitive Dust Plan. This Source's Fugitive Dust Plan reduces emissions from screening by 80%.

**Methodology**

Potential Emissions = Maximum Capacity \* Emission Factor \* Hours of Operation \* (1/2000)

**Appendix A: Emission Calculations**  
**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**Output Rating (<=600 HP)**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

Emission Unit	Hp
866	70
Total	70

**Emissions calculated based on output rating (hp)**

Output Horsepower Rating (hp)	70.0
Maximum Hours Operated per Year	8760
2013 Actual Hours Operated per Year	1954
2014 Actual Hours Operated per Year	2233
Projected 2018 Actual Hours Operated per Year	2500
Uncontrolled, Unlimited Potential Throughput (hp-hr/yr)	613,200
Average Actual Throughput (hp-hr/yr)	146,528
Projected 2018 Actual Throughput (hp-hr/yr)	175,000

	Pollutant						
	PM*	PM <sub>10</sub> *	PM <sub>2.5</sub> *	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Uncontrolled, Unlimited Potential Emission (tons/yr)	0.67	0.67	0.67	0.63	9.50	0.77	2.05
Average Actual Emissions (tons/yr)	0.16	0.16	0.16	0.15	2.27	0.18	0.49
Projected Actual Emissions (tons/yr)	0.19	0.19	0.19	0.18	2.71	0.22	0.58

\*PM and PM<sub>2.5</sub> emission factors are assumed to be equivalent to PM<sub>10</sub> emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM<sub>10</sub> which is condensable.

**Hazardous Air Pollutants (HAPs)**

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Uncontrolled, Unlimited Potential Emission (tons/yr)	2.00E-03	8.78E-04	6.12E-04	8.39E-05	2.53E-03	1.65E-03	1.99E-04	3.61E-04
Average Actual Emissions (tons/yr)	4.78E-04	2.10E-04	1.46E-04	2.01E-05	6.05E-04	3.93E-04	4.74E-05	8.62E-05
Projected Actual Emissions (tons/yr)	5.71E-04	2.51E-04	1.75E-04	2.39E-05	7.23E-04	4.70E-04	5.67E-05	1.03E-04

\*\*\*PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

\*\*\*\*Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	8.31E-03
Average Actual Emission of Total HAPs (tons/yr)	1.99E-03
Projected Actual Emission of Total HAPs (tons/yr)	2.37E-03

**Methodology**

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] \* [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] \* [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Actual and Projected Actual Throughputs Provided by the Source

**Appendix A: Emission Calculations**  
**Screeners, Conveyors and Aggregate Handling**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

**1. Unlimited**

ID	Process	Maximum Capacity (tons/hr)	PM Emission Factor (lb/ton)	PM Potential Emissions (tons/yr)	PM <sub>10</sub> Emission Factor (lb/ton)	PM <sub>10</sub> Potential Emissions (tons/yr)	PM <sub>2.5</sub> Emission Factor (lb/ton)	PM <sub>2.5</sub> Potential Emissions (tons/yr)
866	Screening <sup>1</sup>	100	0.025	10.95	0.0087	3.81	0.0087	3.81
166	Screening <sup>1</sup>	350	0.025	38.33	0.0087	13.34	0.0087	13.34
174	Screening <sup>1</sup>	75	0.025	8.21	0.0087	2.86	0.0087	2.86
177	Screening <sup>1</sup>	75	0.025	8.21	0.0087	2.86	0.0087	2.86
163	Screening <sup>1</sup>	150	0.025	16.43	0.0087	5.72	0.0087	5.72
175	Screening <sup>1</sup>	100	0.025	10.95	0.0087	3.81	0.0087	3.81
164	Screening <sup>1</sup>	150	0.025	16.43	0.0087	5.72	0.0087	5.72
179	Screening <sup>1</sup>	100	0.025	10.95	0.0087	3.81	0.0087	3.81
<b>Screening Total</b>				<b>120.45</b>		<b>41.92</b>		<b>41.92</b>
183 and 182	Conveyor <sup>1</sup>	500	0.003	6.57	0.0011	2.41	0.0011	2.41
MCC 130 and 572	Conveyor <sup>1</sup>	500	0.003	6.57	0.0011	2.41	0.0011	2.41
168	Conveyor <sup>1</sup>	100	0.003	1.31	0.0011	0.48	0.0011	0.48
561	Conveyor <sup>1</sup>	150	0.003	1.97	0.0011	0.72	0.0011	0.72
562	Conveyor <sup>1</sup>	150	0.003	1.97	0.0011	0.72	0.0011	0.72
573	Conveyor <sup>1</sup>	150	0.003	1.97	0.0011	0.72	0.0011	0.72
574	Conveyor <sup>1</sup>	150	0.003	1.97	0.0011	0.72	0.0011	0.72
185	Conveyor <sup>1</sup>	150	0.003	1.97	0.0011	0.72	0.0011	0.72
178	Conveyor <sup>1</sup>	75	0.003	0.99	0.0011	0.36	0.0011	0.36
558	Conveyor <sup>1</sup>	100	0.003	1.31	0.0011	0.48	0.0011	0.48
181	Conveyor <sup>1</sup>	100	0.003	1.31	0.0011	0.48	0.0011	0.48
176	Conveyor <sup>1</sup>	150	0.003	1.97	0.0011	0.72	0.0011	0.72
865	Conveyor <sup>1</sup>	700	0.003	9.20	0.0011	3.37	0.0011	3.37
<b>Conveying Total</b>				<b>39.09</b>		<b>14.33</b>		<b>14.33</b>
183 and 182	Aggregate Handling <sup>2</sup>	500	0.01729	37.87	0.00818	17.91	0.00124	2.71
MCC 130 and 572	Aggregate Handling <sup>2</sup>	500	0.01729	37.87	0.00818	17.91	0.00124	2.71
micellaneous material handling	Aggregate Handling <sup>2</sup>	835	0.01729	63.24	0.00818	29.91	0.00124	4.53
petroleum coke handling	Aggregate Handling <sup>2</sup>	40	0.01729	3.03	0.00818	1.43	0.00124	0.22
"A" Pile Blend handling	Aggregate Handling <sup>2</sup>	1475	0.00062	4.00	0.00029	1.89	0.00004	0.29
Loading of "A" pile to transfer from "A" to "B" pile	Aggregate Handling <sup>2</sup>	1725	0.00062	4.68	0.00029	2.21	0.00004	0.34
168	Aggregate Handling <sup>2</sup>	100	0.01729	7.57	0.00818	3.58	0.00124	0.54
561	Aggregate Handling <sup>2</sup>	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
562	Aggregate Handling <sup>2</sup>	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
573	Aggregate Handling <sup>2</sup>	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
574	Aggregate Handling <sup>2</sup>	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
185	Aggregate Handling <sup>2</sup>	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
178	Aggregate Handling <sup>2</sup>	75	0.01729	5.68	0.00818	2.69	0.00124	0.41
558	Aggregate Handling <sup>2</sup>	100	0.01729	7.57	0.00818	3.58	0.00124	0.54
181	Aggregate Handling <sup>2</sup>	100	0.01729	7.57	0.00818	3.58	0.00124	0.54
176	Aggregate Handling <sup>2</sup>	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
865	Aggregate Handling <sup>2</sup>	700	0.01729	53.02	0.00818	25.08	0.00124	3.80
<b>Aggregate Handling Total</b>				<b>300.29</b>		<b>142.03</b>		<b>21.51</b>
<b>Source Total</b>				<b>459.83</b>		<b>198.28</b>		<b>77.76</b>

**Appendix A: Emission Calculations**  
**Screeners, Conveyors and Aggregate Handling**

Page 7 of 12, TSD App. A

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

**2. Controlled<sup>4</sup>**

ID	Process	Operating Hours (hr/yr)	Maximum Capacity (tons/hr)	PM Emission Factor (lb/ton)	PM Potential Emissions (tons/yr)	PM <sub>10</sub> Emission Factor (lb/ton)	PM <sub>10</sub> Potential Emissions (tons/yr)	PM <sub>2.5</sub> Emission Factor (lb/ton)	PM <sub>2.5</sub> Potential Emissions (tons/yr)
866	Screening <sup>4</sup>	8760	100	0.025	2.19	0.0087	0.76	0.0087	0.76
166	Screening <sup>4</sup>	8760	350	0.025	7.67	0.0087	2.67	0.0087	2.67
174	Screening <sup>4</sup>	8760	75	0.025	1.64	0.0087	0.57	0.0087	0.57
177	Screening <sup>4</sup>	8760	75	0.025	1.64	0.0087	0.57	0.0087	0.57
163	Screening <sup>4</sup>	8760	150	0.025	3.29	0.0087	1.14	0.0087	1.14
175	Screening <sup>4</sup>	8760	100	0.025	2.19	0.0087	0.76	0.0087	0.76
179	Screening <sup>4</sup>	8760	100	0.025	2.19	0.0087	0.76	0.0087	0.76
<b>Screening Total</b>					<b>20.81</b>		<b>7.24</b>		<b>7.24</b>
183 and 182	Conveyor <sup>1</sup>	8760	500	0.003	6.57	0.0011	2.41	0.0011	2.41
MCC 130 and 572	Conveyor <sup>1</sup>	8760	500	0.003	6.57	0.0011	2.41	0.0011	2.41
168	Conveyor <sup>1</sup>	8760	100	0.003	1.31	0.0011	0.48	0.0011	0.48
561	Conveyor <sup>1</sup>	8760	150	0.003	1.97	0.0011	0.72	0.0011	0.72
562	Conveyor <sup>1</sup>	8760	150	0.003	1.97	0.0011	0.72	0.0011	0.72
573	Conveyor <sup>1</sup>	8760	150	0.003	1.97	0.0011	0.72	0.0011	0.72
574	Conveyor <sup>1</sup>	8760	150	0.003	1.97	0.0011	0.72	0.0011	0.72
185	Conveyor <sup>1</sup>	8760	150	0.003	1.97	0.0011	0.72	0.0011	0.72
178	Conveyor <sup>1</sup>	8760	75	0.003	0.99	0.0011	0.36	0.0011	0.36
558	Conveyor <sup>1</sup>	8760	100	0.003	1.31	0.0011	0.48	0.0011	0.48
181	Conveyor <sup>1</sup>	8760	100	0.003	1.31	0.0011	0.48	0.0011	0.48
<b>Conveying Subtotal</b>					<b>27.92</b>		<b>10.24</b>		<b>10.24</b>
183 and 182	Aggregate Handling <sup>2</sup>	8760	500	0.01729	37.87	0.00818	17.91	0.00124	2.71
MCC 130 and 572	Aggregate Handling <sup>2</sup>	8760	500	0.01729	37.87	0.00818	17.91	0.00124	2.71
micellaneous material handling	Aggregate Handling <sup>2</sup>	8760	835	0.01729	63.24	0.00818	29.91	0.00124	4.53
petroleum coke handling	Aggregate Handling <sup>2</sup>	8760	40	0.01729	3.03	0.00818	1.43	0.00124	0.22
"A" Pile Blend handling	Aggregate Handling <sup>2</sup>	8760	1475	0.00062	4.00	0.00029	1.89	0.00004	0.29
Loading of "A" pile to transfer from "A" to "B" pile	Aggregate Handling <sup>2</sup>	8760	1725	0.00062	4.68	0.00029	2.21	0.00004	0.34
168	Aggregate Handling <sup>2</sup>	8760	100	0.01729	7.57	0.00818	3.58	0.00124	0.54
561	Aggregate Handling <sup>2</sup>	8760	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
562	Aggregate Handling <sup>2</sup>	8760	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
573	Aggregate Handling <sup>2</sup>	8760	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
574	Aggregate Handling <sup>2</sup>	8760	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
185	Aggregate Handling <sup>2</sup>	8760	150	0.01729	11.36	0.00818	5.37	0.00124	0.81
178	Aggregate Handling <sup>2</sup>	8760	75	0.01729	5.68	0.00818	2.69	0.00124	0.41
558	Aggregate Handling <sup>2</sup>	8760	100	0.01729	7.57	0.00818	3.58	0.00124	0.54
181	Aggregate Handling <sup>2</sup>	8760	100	0.01729	7.57	0.00818	3.58	0.00124	0.54
<b>Aggregate Handling Subtotal</b>					<b>235.91</b>		<b>111.58</b>		<b>16.90</b>

**3. Limited<sup>3,5</sup>**

$$E = k(0.0032) \left( \left( \frac{U}{S} \right)^{1.3} + \left( \frac{M}{2} \right)^{1.4} \right)$$

ID	Process	Operating Hours (hr/yr)	Maximum Capacity (tons/hr)	PM Emission Factor (lb/ton)	PM Potential Emissions (tons/yr)	PM <sub>10</sub> Emission Factor (lb/ton)	PM <sub>10</sub> Potential Emissions (tons/yr)	PM <sub>2.5</sub> Emission Factor (lb/ton)	PM <sub>2.5</sub> Potential Emissions (tons/yr)
865 <sup>3</sup>	Conveyor <sup>1</sup>	3400	700	0.003	3.57	0.0011	1.31	0.0011	1.31
865 <sup>3</sup>	Aggregate Handling <sup>2</sup>	3400	700	0.01729	20.58	0.00818	9.73	0.00124	1.47
<b>Limited total, stacker 865</b>					<b>24.15</b>		<b>11.04</b>		<b>2.78</b>

ID	Process	Operating Hours (hr/yr)	Maximum Capacity (tons/hr)	PM Emission Factor (lb/ton)	PM Potential Emissions (tons/yr)	PM <sub>10</sub> Emission Factor (lb/ton)	PM <sub>10</sub> Potential Emissions (tons/yr)	PM <sub>2.5</sub> Emission Factor (lb/ton)	PM <sub>2.5</sub> Potential Emissions (tons/yr)
164 <sup>5</sup>	Screening <sup>4</sup>	7300	150	0.025	2.74	0.0087	0.95	0.0087	0.95
176 <sup>5</sup>	Conveyor <sup>1</sup>	7300	150	0.003	1.64	0.0011	0.60	0.0011	0.60
176 <sup>5</sup>	Aggregate Handling <sup>2</sup>	7300	150	0.01729	9.47	0.00818	4.48	0.00124	0.68
<b>Limited total, screener 164 and conveyor 176</b>					<b>13.85</b>		<b>6.03</b>		<b>2.23</b>

**Appendix A: Emission Calculations**  
**Screeners, Conveyors and Aggregate Handling**

Page 8 of 12, TSD App. A

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

**4. PTE after Issuance (Section 2 + Section 3)**

	PM (tons/yr)		PM <sub>10</sub> (tons/yr)		PM <sub>2.5</sub> (tons/yr)
Screening	23.54		8.19		8.19
Conveying	29.57		10.84		10.84
Aggregate Handling	265.95		125.79		19.05

**Notes**

1. Emission factors from US EPA AP-42, Ch. 11.19.2-2, SCC 3-05-020-02, 03 (Screening) SCC 3-05-020-06 (Conveyor Transfer Point)
2. Worst-case emission factor as determined below.
3. Pursuant to MPM 089-28211-00172, issued on October 2, 2009 and 326 IAC 2-7-10.5(d)(4), the operation for the one (1) miscellaneous material portable stacker conveyor shall not exceed 3,400 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.
4. Per 326 IAC 6.8-10, screening operations are required to have a Fugitive Dust Plan. This Source's Fugitive Dust Plan reduces emissions from screening by 80%.
5. Pursuant to Part 70 Operating Permit Renewal no. 087-36399-00172, hours of operation for the screening operation identified as 164 and conveyor 176 shall not exceed 7,300 hours per twelve (12) consecutive month period

**Methodology**

Potential Emissions = Maximum Capacity \* Emission Factor \* Hours of Operation \* (1/2000)

Aggregate Handling Equation (US EPA AP-42 Ch. 13.2.4, Equation 1)

where:

E = emission factor (lb/ton)  
k = particle size multiplier  
U = mean wind speed (mph)  
M = mean material moisture content (%)

PM:	Slag E =	0.01729	where	k =	0.74
	Coal E =	0.00171		U =	10
	Coke Breeze E =	0.00087		Slag M =	0.92
				Coal M =	4.80
				Coke Breeze M =	7.80
PM <sub>10</sub> :	Slag E =	0.00818	where	k =	0.35
	Coal E =	0.00081		U =	10
	Coke Breeze E =	0.00041		Slag M =	0.92
				Coal M =	4.80
				Coke Breeze M =	7.80
PM <sub>2.5</sub> :	Slag E =	0.00124	where	k =	0.053
	Coal E =	0.00012		U =	10
	Coke Breeze E =	0.00006		Slag M =	0.92
				Coal M =	4.80
				Coke Breeze M =	7.80
PM:	A Pile =	0.00062	where	k =	0.74
				U =	10
				A Pile Weighted Average	9.92
PM <sub>10</sub> :	A Pile =	0.00029	where	k =	0.35
				U =	10
				A Pile Weighted Average	9.92
PM <sub>2.5</sub> :	A Pile =	0.00004	where	k =	0.053
				U =	10
				A Pile Weighted Average	9.92

**Appendix A: Emission Calculations**  
**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**Output Rating (<=600 HP)**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

Includes:

Description	ID	Engine Rating (HP)
coke screening <sup>1</sup>	166	215
portable screener <sup>1</sup>	174	49
Oversize Screen <sup>1</sup>	175	130
<b>Total</b>		<b>394</b>

	Uncontrolled	Throughput After Issuance (hp-hr/yr)
		Units
		166, 174, & 175
		MMBtu/yr
		18,060
		BTU/hp-hr
		7,000
Output Horsepower Rating (hp)	394.0	
Maximum Hours Operated per Year	8760	
Potential Throughput (hp-hr/yr)	3,451,440	
		<b>2,580,000</b>

	Pollutant						
	PM <sup>2</sup>	PM10 <sup>2</sup>	direct PM2.5 <sup>2</sup>	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	3.80	3.80	3.80	3.54	53.50	4.34	11.53
Limited Emissions in tons/yr	2.84	2.84	2.84	2.64	39.99	3.24	8.62

**Hazardous Air Pollutants (HAPs)**

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs <sup>3</sup>
Emission Factor in lb/hp-hr <sup>4</sup>	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	1.13E-02	4.94E-03	3.44E-03	4.72E-04	1.43E-02	9.27E-03	1.12E-03	2.03E-03
Limited Emissions in tons/yr	8.42E-03	3.69E-03	2.57E-03	3.53E-04	1.07E-02	6.93E-03	8.35E-04	1.52E-03

<b>Potential Emission of Total HAPs (tons/yr)</b>	<b>4.68E-02</b>
<b>Limited Emission of Total HAPs (tons/yr)</b>	<b>3.50E-02</b>

**Notes**

1. 166, 174, & 175 limited to a total of 129,000 gal of diesel fuel per 12 month period
2. PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.
3. PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
4. Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**Methodology**

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1, 3.4-2, 3.4-3, and 3.4-4.  
Units 166, 174, & 175 MMBtu/yr = 129,000 (gal/yr) x 140,000 (Btu/gal) / 1,000,000 (Btu/MMBtu)  
Units 166, 174, & 175 Throughput (hp-hr/yr) = Units 166, 174, & 175 MMBtu/yr / 7,000 (Btu/hp-hr, BSFC) x 1,000,000 (Btu/MMBtu)  
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] \* [Maximum Hours Operated per Year] units other than 166, 174, & 175  
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] \* [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

**Appendix A: Emission Calculations**  
**LPG-Propane - Industrial Boilers**  
**(Heat input capacity: > 10 MMBtu/hr and < 100 MMBtu/hr)**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	SO <sub>2</sub> Emission factor = 0.10 x S S = Sulfur Content =	100.00 grains/100ft <sup>3</sup>
0.015	1.44		

	Pollutant						
	PM*	PM10*	direct PM2.5**	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/kgal	0.2	0.7	0.7	10.0 (0.10S)	13.0	1.0 **TOC value	7.5
Potential Emission in tons/yr	1.44E-04	5.03E-04	5.03E-04	7.18E-03	9.33E-03	7.18E-04	5.39E-03

\*PM emission factor is filterable PM only. PM emissions are stated to be all less than 10 microns in aerodynamic equivalent diameter, footnote in Table 1.5-1, therefore PM10 is based on the filterable and condensable PM emission factors.

\*\* No direct PM2.5 emission factor was given. Direct PM2.5 is a subset of PM10. If one assumes all PM10 to be all direct PM2.5, then a worst case assumption of direct PM2.5 can be made.

\*\*The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

#### Methodology

1 gallon of LPG has a heating value of 94,000 Btu

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

(Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (7/08), Table 1.5-1 (SCC #1-02-010-02)

Propane Emission Factors shown. Please see AP-42 for butane.

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton

See Page 2 for Greenhouse Gas calculations.

	Greenhouse Gas		
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
Emission Factor in lb/kgal	12,500	0.2	0.9
Potential Emission in tons/yr	9	1.44E-04	6.46E-04
Summed Potential Emissions in tons/yr	9		
CO <sub>2</sub> e Total in tons/yr	9		

#### Methodology

The CO<sub>2</sub> Emission Factor for Propane is 12500. The CO<sub>2</sub> Emission Factor for Butane is 14300.

Emission Factors are from AP 42 (7/08), Table 1.5-1 (SCC #1-02-010-02)

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

CO<sub>2</sub>e (tons/yr) based on 11/29/2013 federal GWPs= CO<sub>2</sub> Potential Emission ton/yr x CO<sub>2</sub> GWP (1) + CH<sub>4</sub> Potential

CO<sub>2</sub>e (tons/yr) based on 10/30/2009 federal GWPs = CO<sub>2</sub> Potential Emission ton/yr x CO<sub>2</sub> GWP (1) + CH<sub>4</sub> Potential

**Appendix A: Emissions Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)**  
**#1 and #2 Fuel Oil**

Page 11 of 12, TSD App. A

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

Heat Input Capacity                      Potential Throughput                      S = Weight % Sulfur  
MMBtu/hr                                      kgals/year                                      0.5

1.575                                      98.55  
Three (3) portable forced air heaters, two (2) 600,000 Btu/hr units and one (1) 375,000 Btu/hr unit.

	Pollutant						
Emission Factor in lb/kgal	PM*	PM10	direct PM2.5	SO2	NOx	VOC	CO
	2.0	2.4	2.1	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.1	0.1	0.1	3.5	1.0	0.0	0.2

	HAPs - Metals				
Emission Factor in lb/mmBtu	Arsenic	Beryllium	Cadmium	Chromium	Lead
	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	2.76E-05	2.07E-05	2.07E-05	2.07E-05	6.21E-05

	HAPs - Metals (continued)				Total HAPs
Emission Factor in lb/mmBtu	Mercury	Manganese	Nickel	Selenium	3.38E-04
	3.0E-06	6.0E-06	3.0E-06	1.5E-05	
Potential Emission in tons/yr	2.07E-05	4.14E-05	2.07E-05	1.03E-04	

	Greenhouse Gas		
Emission Factor in lb/kgal	CO2	CH4	N2O
	21,500	0.216	0.26
Potential Emission in tons/yr	1,059	0.0	0.0
Summed Potential Emissions in tons/yr	1,059		
CO2e Total in tons/yr	1,063		

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu  
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal per 1000 gallon x 1 gal per 0.140 MM Btu  
Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)  
\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.  
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton  
No data was available in AP-42 for organic HAPs.  
Potential Emissions (tons/year) = Throughput (mmBtu/hr)\*Emission Factor (lb/mmBtu)\*8,760 hrs/yr / 2,000 lb/ton  
The CO2 Emission Factor for #1 Fuel Oil is 21500. The CO2 Emission Factor for #2 Fuel Oil is 22300.  
Emission Factors are from AP 42, Tables 1.3-3, 1.3-8, and 1.3-12 (SCC 1-03-005-01/02/03) Supplement E 9/99 (see erata file)  
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.  
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton  
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

**Appendix A: Emissions Calculations**  
**Storage Tanks**

**Company Name:** Central Teaming Company, Inc. an on-site Contractor of US Steel - Gary Works  
**Source Address:** One North Broadway, Gary, Indiana 46402  
**Significant Permit Modification No.:** 089-40590-00172  
**Minor Source Modification No.:** T089-40584-00172  
**Reviewer:** Thomas Uher  
**Date:** 10/9/2018

**1. VOC**

Stationary Storage Tanks

Tank ID	Capacity (gallons)	Liquid Stored	VOC Emissions (ton/yr)
gasoline aboveground storage tank	1,050	Gasoline	0.17
diesel aboveground storage tank	10,000	Diesel Fuel	5.06E-03
diesel aboveground storage tank	2,000	Diesel Fuel	5.85E-04
T-2	440	Anti-Freeze	N/A
T-3	560	Anti-Freeze	N/A
T-4	560	Hydraulic Oil	7.40E-04
T-10	560	Transmission Oil	N/A
T-11	560	15W/40 Motor Oil	N/A
T-12	560	Hydraulic Oil	N/A
T-13	285	Heating Oil	N/A
T-5	275	Used Oil	N/A
T-6	275	Used Oil	N/A
T-7	275	Used Oil	N/A
T-8	285	Used Oil	N/A
T-9	275	Used Anti-Freeze	N/A
Total			0.17

Mobile Storage Tanks inside the Lube Truck that draws from the stationary storage tanks

Tank ID	Capacity (gallons)	Liquid Stored	VOC Emissions (ton/yr)
Tank	225	Hydraulic Oil	N/A
Tank	225	Used Oil	N/A
Tank	225	15W/40 Motor Oil	N/A
Tank	120	Transmission Oil	N/A
Tank	120	90 Wt. Oil	N/A
Tank	120	Used Anti-Freeze	N/A
Tank	120	Empty	N/A
Total			N/A

<b>Total at source</b>	<b>0.17</b>
------------------------	-------------

**Methodology**

Emissions from the 1,050 gal gasoline storage tank, 10,000 gal diesel fuel storage tank, 2,000 gal diesel fuel storage tank were calculated by the Permittee using EPA TANKS software (version 4.09d) and have been verified. The Permittee stated that the remaining above ground storage tanks each yielded VOC emissions of less than one pound per day. Therefore, a conservative assumption is that there is less than 1.0 tons per year of VOC emissions from all of the above ground storage tanks combined.

**B. HAPs**

HAP emissions from gasoline storage tank only. HAP emissions from diesel fuel and hydraulic oil tanks are considered negligible.

HAP	HAP/VOC wt%	PTE (TPY)
Benzene	0.9	1.50E-03
Cumene	0.1	1.66E-04
Ethylbenzene	0.1	1.66E-04
n-Hexane	1.6	2.66E-03
Naphthalene	0.5	8.31E-04
Toluene	1.3	2.16E-03
2,2,4-Trimethylpentane	0.8	1.33E-03
Xylenes	0.5	8.31E-04
Total HAPs	4.8	7.98E-03

Source: Tbl 3-2 Gasoline HAP Vapor Profile, Technical Guidance-Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities, Vol. I: Chapters, EPA 450/3-91-022a, Nov 1991  
Total HAPs do not equal the sum of components because of rounding in the source document.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

November 26, 2018

Mr. Steven Sieracki  
Central Teaming Company  
104 West 78<sup>th</sup> Avenue  
Merrillville, IN 46410

Re: Public Notice  
Central Teaming Company  
Permit Level: Title V Significant Permit Modification  
Permit Number: 089-40590-00172

Dear Mr. Sieracki:

Enclosed is a copy of your draft Title V Significant Permit Modification, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Post Tribune in Merrillville, Indiana and The Times in Munster, Indiana publish the abbreviated version of the public notice no later than November 27, 2018. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Gary Public Main Library, 220 West 5<sup>th</sup> Avenue in Gary, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Thomas Uher, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension (317) 233-1782 or dial (317) 233-1782.

Sincerely,

*Vivian Haun*

Vivian Haun  
Permits Branch  
Office of Air Quality

Enclosures  
PN Applicant Cover Letter 1/9/2017



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

### ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

November 21, 2018

The Post Tribune  
1433 E. 83<sup>rd</sup> Avenue  
Merrillville, IN 46410

BILLED ACCOUNT NUMBER: CU00411904

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Central Teaming Company, Lake County Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than November 27, 2018.

Please send the invoice, notarized form, clippings showing the date of publication to Bo Liu, at the Indiana Department of Environmental Management, Accounting, Room N1340, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

**To ensure proper payment, please reference account # 100174737.**

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Vivian Haun at 800-451-6027 and ask for extension 317-233-6878 or dial 317-233-6878.

Sincerely,

*Vivian Haun*

Vivian Haun  
Permit Branch  
Office of Air Quality

Permit Level: Title V Significant Permit Modification  
Permit Number: 089-40590-00172

Enclosure  
PN Newspaper.dot 1/9/2017



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Eric J. Holcomb**  
*Governor*

**Bruno L. Pigott**  
*Commissioner*

### **ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING**

November 21, 2018

The Times  
601 West 45<sup>th</sup> Avenue  
Munster, IN 46321

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Central Teaming Company, Lake County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than November 27, 2018.

Please send the invoice, notarized form, clippings showing the date of publication to Bo Liu, at the Indiana Department of Environmental Management, Accounting, Room N1340, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

**To ensure proper payment, please reference account # 100174737.**

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Vivian Haun at 800-451-6027 and ask for extension 317-233-6878 or dial 317-233-6878.

Sincerely,

*Vivian Haun*

Vivian Haun  
Permit Branch  
Office of Air Quality

Permit Level: Title V Significant Permit Modification  
Permit Number: 089-40590-00172

Enclosure  
PN Newspaper.dot 1/9/2017



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

Eric J. Holcomb  
Governor

Bruno L. Pigott  
Commissioner

November 26, 2018

To: Gary Public Main Library

From: Jenny Acker, Branch Chief  
Permits Branch  
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

**Applicant Name: Central Teaming Company**  
**Permit Number: 089-40590-00172**

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures  
PN Library 1/9/2017



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

### Notice of Public Comment

**November 26, 2018**  
**Central Teaming Company**  
**089-40590-00172**

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

**Please Note:** *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at [PPEAR@IDEM.IN.GOV](mailto:PPEAR@IDEM.IN.GOV). If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure  
PN AAA Cover Letter 1/9/2017



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

### AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

November 26, 2018

A 30-day public comment period has been initiated for:

**Permit Number:** 089-40590-00172  
**Applicant Name:** Central Teaming Company  
**Location:** Gary, Lake County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>


Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management  
Office of Air Quality, Permits Branch  
100 North Senate Avenue  
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at [chammack@idem.IN.gov](mailto:chammack@idem.IN.gov) or (317) 233-2414.

Affected States Notification 1/9/2017


# Mail Code 61-53

IDEM Staff	VHAUN 11/26/2018 Page 1 of 2 CENTRAL TEAMING COMPANY INC 089-40590-00172 DRAFT			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Steven Sieracki CENTRAL TEAMING COMPANY INC 104 W 78th Ave Merrillville IN 46410 (Source RM)										
2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
3		Gary Mayors Office 401 Broadway # 203 Gary IN 46402 (Local Official)										
4		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
5		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
6		Lowell Town Council and Town Manager PO Box 157, 501 East Main Street Lowell IN 46356 (Local Official)										
7		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
8		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
9		Northwestern In Regional Planning Com (NIRPC) 6100 Southport Road Portage IN 46368 (Affected Party)										
10		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
11		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
12		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
13		General Manager US Steel One North Broadway Gary IN 46402 (Source ? addl contact)										
14		Ms. Karen Kroccek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
15		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										

Total number of pieces Listed by Sender  <b>15</b>	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
--	--	--	--

# Mail Code 61-53

IDEM Staff	VHAUN 11/26/2018 Page 2 of 2 CENTRAL TEAMING COMPANY INC 089-40590-00172 DRAFT			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

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	Remarks
1		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
2		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
3		Gary Public Library - Main Branch 220 West 5th Avenue Gary IN 46402 (Library)										
4		Ryan Dave 939 Cornwallis Munster IN 46321 (Affected Party)										
5		Mark Coleman PO Box 85 Beverly Shores IN 46301-0085 (Affected Party)										
6		Ralph Mora Industrial & Environmental Services, LLC 7550 E. Melton Road Gary IN 46403 (Consultant)										
7		Jeff Mayes News-Dispatch 422 Franklin St Michigan City IN 46360 (Affected Party)										
8												
9												
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender  <b>7</b>	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
---	--	--	--