

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5**

IN THE MATTER OF:

Horsehead Corporation
2701 E. 114th Street
Chicago, Illinois 60617

ATTENTION:

John A. Marta
Plant Manager

Request to Provide Information Pursuant to the Clean Air Act

The U.S. Environmental Protection Agency is requiring Horsehead Corporation (Horsehead or you) to submit certain information about the facility at 2701 E. 114th Street, Chicago, Illinois. Appendix A provides the instructions needed to answer this information request, including instructions for electronic submissions. Appendix B specifies the information that you must submit. You must send this information to us within 30 calendar days after you receive this request.

We are issuing this information request under Section 114(a) of the Clean Air Act (the CAA), 42 U.S.C. § 7414(a). Section 114(a) authorizes the Administrator of EPA to require the submission of information. The Administrator has delegated this authority to the Director of the Air and Radiation Division, Region 5.

Horsehead owns and operates an emission source at the Chicago, Illinois facility. We are requesting this information to determine whether your emission source is complying with the CAA and Illinois State Implementation Plan.

Horsehead must send all required information to:

Attn: Compliance Tracker, AE-17J
Air Enforcement and Compliance Assurance Branch
U.S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard
Chicago, Illinois 60604

Horsehead must submit all required information under an authorized signature with the following certification:

I certify under penalty of law that I have examined and am familiar with the information in the enclosed documents, including all attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are, to the best of my knowledge and belief, true and complete. I am aware that there are significant penalties for knowingly submitting false statements and information, including the possibility of fines or imprisonment pursuant to Section 113(c)(2) of the Clean Air Act and 18 U.S.C. §§ 1001 and 1341.

As explained more fully in Appendix C, you may assert a claim of business confidentiality under 40 C.F.R. Part 2, Subpart B for any part of the information you submit to us. Information subject to a business confidentiality claim is available to the public only to the extent, and by means of the procedures, set forth at 40 C.F.R. Part 2, Subpart B. If you do not assert a business confidentiality claim when you submit the information, EPA may make this information available to the public without further notice. You should be aware, moreover, that pursuant to Section 114(c) of the CAA and 40 C.F.R. § 2.301(a) and (f), emissions data, standards and limitations are not entitled to confidential treatment and shall be made available to the public notwithstanding any assertion of a business confidentiality claim. Appendix C provides additional information regarding the meaning and scope of the term "emissions data."

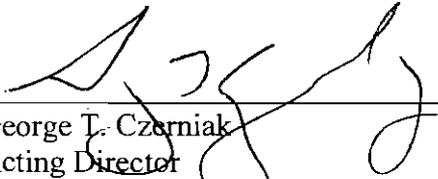
This information request is not subject to the Paperwork Reduction Act, 44 U.S.C. § 3501 *et seq.*, because it seeks collection of information from specific individuals or entities as part of an administrative action or investigation.

We may use any information submitted in response to this request in an administrative, civil or criminal action.

Failure to comply fully with this information request may subject Horsehead to an enforcement action under Section 113 of the CAA, 42 U.S.C. § 7413.

You should direct any questions about this information request to Roshni Brahmhatt at 312.886.6793.

4/19/12
Date


George T. Czerniak
Acting Director
Air and Radiation Division

Appendix A

When providing the information requested in Appendix B, use the following instructions and definitions.

Instructions

1. Provide a separate narrative response to each question and subpart of a question set forth in Appendix B.
2. Precede each answer with the number of the question to which it corresponds and at the end of each answer, identify the person(s) who provided information used or considered in responding to that question, as well as each person consulted in the preparation of that response.
3. Indicate on each document produced, or in some other reasonable manner, the number of the question to which it corresponds.
4. When a response is provided in the form of a number, specify the units of measure of the number in a precise manner.
5. Where information or documents necessary for a response are neither in your possession nor available to you, indicate in your response why the information or documents are not available or in your possession, and identify any source that either possesses or is likely to possess the documents or information.
6. If information not known or not available to you as of the date of submission later becomes known or available to you, you must supplement your response. Moreover, should you find at any time after the submission of your response that any portion of the submitted information is false or incorrect, you must notify EPA as soon as possible.

Electronic Submissions

To aid in our electronic recordkeeping efforts, we request that you provide all documents responsive to this information request in an electronic format according to paragraphs 1 through 6, below. These submissions are in lieu of hard copy.

1. Provide all responsive documents in Portable Document Format (PDF) or similar format, unless otherwise requested in specific questions. If the PDFs are scanned images, perform at least Optical Character Recognition (OCR) for "image over text" to allow the document to be searchable. Submitters providing secured PDFs should also provide unsecured versions for EPA use in repurposing text.
2. When specific questions request data in electronic spreadsheet form, provide the data and corresponding information in editable Excel or Lotus format, and not in image format. If Excel or Lotus formats are not available, then the format should

allow for data to be used in calculations by a standard spreadsheet program such as Excel or Lotus.

3. Provide submission on physical media such as compact disk, flash drive or other similar item.
4. Provide a table of contents for each compact disk or flash drive containing electronic documents submitted in response to our request so that each document can be accurately identified in relation to your response to a specific question. *We recommend the use of electronic file folders organized by question number.* In addition, each compact disk or flash drive should be labeled appropriately (e.g., Company Name, Disk 1 of 4 for Information Request Response, Date of Response).
5. Documents claimed as confidential business information (CBI) must be submitted on separate disks/drives apart from the non-confidential information. This will facilitate appropriate records management and appropriate handling and protection of the CBI. Please follow the instructions in Appendix C for designating information as CBI.
6. Certify that the attached files have been scanned for viruses and indicate what program was used.

Definitions

All terms used in this information request have their ordinary meaning unless such terms are defined in the CAA, 42 U.S.C. §§ 7401 *et seq.*

1. The terms “document” and “documents” shall mean any object that records, stores, or presents information, and includes writings, memoranda, records, or information of any kind, formal or informal, whether wholly or partially handwritten or typed, whether in computer format, memory, or storage device, or in hardcopy, including any form or format of these. If in computer format or memory, each such document shall be provided in translation to a form useable and readable by EPA, with all necessary documentation and support. All documents in hard copy should also include attachments to or enclosures with any documents.
2. The terms “relate to” or “pertain to” (or any form thereof) shall mean constituting, reflecting, representing, supporting, contradicting, referring to, stating, describing, recording, noting, embodying, containing, mentioning, studying, analyzing, discussing, evaluating or relevant to.

Appendix B

Information You Are Required to Submit to EPA

Horsehead Corporation must submit the following information pursuant to Section 114(a) of the CAA, 42 U.S.C. § 7414(a) [for the facility located at 2701 E. 114th Street, Chicago, Illinois, within 30 calendar days of receipt of this Request]:

1. Provide a copy of each current air permit issued to Horsehead by the Illinois Environmental Protection Agency (IEPA), including, but not limited to, Construction Permits, Part 70 Operating (Title V) Permits, Federally Enforceable State Operating Permits (FESOP), and Lifetime Operating Permits.
2. Provide complete copies of all air permit applications submitted to IEPA since October 2002, including, but not limited to, the permit application for the original permit and the most recent permit application that has not yet been issued.
3. Provide complete copies, from October 2002 to the date of receipt of this letter, of all written correspondence, determinations, documents, or communications with IEPA concerning the applicability of the following requirements regarding construction and/or modification of all equipment at the Facility:
 - a. Prevention of Significant Deterioration requirements at 40 C.F.R. § 52.21; and
 - b. Major non-attainment New Source requirements.
4. Provide copies of any deviation or noncompliance reports submitted to IEPA since October 2007.
5. Provide copies of all annual compliance reports or equivalent documents submitted to either IEPA or EPA since October 2007.
6. Provide a list and copies of each emissions test conducted at the Facility, for any reason, from October 2002 to the date of receipt of this letter. Emissions testing includes, but is not limited to, compliance testing, engineering testing, and testing for general information. Use the following guidelines for compiling the list and preparing copies of the stack tests:
 - a. **List:** Identify the emissions unit, the date of the test, and the test method(s) used. For each test during which the source was not operating at maximum design capacity, provide an explanation for why production was limited. Indicate whether the report was shared with IEPA.
 - b. **Copies:** Provide full stack test reports, including the summary pages, the section describing the process parameters and production or processing rates at the time of the test, all test runs, and all calculations.

7. Provide copies of all annual emissions reports submitted to IEPA for the years 2001 through 2010, inclusive. Provide a narrative describing the method used for annual emissions calculations for each pollutant, including the basis of any emission factors used and any documents outlining procedures for calculating emission factors.
8. Provide copies of the emissions calculations for manganese submitted to the Toxic Release Inventory database for the years 2001 through 2011, inclusive. Provide a narrative describing the method used for emissions calculations for manganese, including the basis of any emission factors used and any documents outlining procedures for calculating the emission factors.
9. Provide copies of the "emissions calculation template excel file" or any other calculations and documentation used internally to track operating data used in the annual emissions report for operating years 2002 to the 2011. These excel files should include, but are not limited to:
 - a. Annual Electric Arc Furnace (EAF) dust and coke throughput;
 - b. Annual operating hours for each kiln;
 - c. Total Iron Rich Material (IRM) produced;
 - d. Total IRM shipped by barge;
 - e. Total IRM moved other than by barge;
 - f. Number of pile disturbances; and
 - g. Operating hours of IRM handling.
10. Provide monthly data from October 2007 to the date of the receipt of this letter for the EAF dust and coke throughput, monthly operating hours for each kiln, total IRM produced, and total IRM shipped by barge.
11. Provide the following information for each Bag Collector and Product Collector (dust collector or baghouse) at the Facility:
 - a. A list of all Bag Collectors and Product Collectors in operation at the Facility with the following information for each:
 - i. Bag Collector/Product Collector type (e.g., pulse jet);
 - ii. Fabric filter material used and manufacturer specifications;
 - iii. Bag Collector/Product Collector capacity;
 - iv. Fan type and capacity; and
 - v. Dates of installation of all improvements and modifications.

- b. A list of all emissions units connected to each Bag Collector and Product Collector and a detailed explanation of how emissions are routed to it with diagrams, including a description of any capture mechanism;
 - c. Narratives describing what Bag Collector and Product Collector parameters are monitored to determine whether inspection, maintenance, or repair is needed. For each parameter, provide:
 - i. Set point or operating parameter limits;
 - ii. Method used to establish each operating parameter limit; and
 - iii. Effective date of the operating limits.
 - d. All records of the differential pressure readings taken at each Bag Collector and Product Collector in an Excel Workbook or other compatible format, including the date and time of the readings, from October 2007 to the date of the receipt of this letter;
 - e. All records of inlet volumetric flow rates (scf/min) taken at each Bag Collector and Product Collector in an Excel Workbook or other compatible format, from October 2007 to the date of the receipt of this letter;
 - f. All records of other parameters identified in response to Question #11(c) for each Bag Collector and Product Collector in an Excel Workbook or other compatible format, including the date and time of the readings, from October 2007 to the date of the receipt of this letter;
 - g. All inspection, maintenance, and repair logs, from October 2007 to the date of the receipt of this letter;
 - h. Documentation of how emissions factors, including capture efficiencies, were derived and the maximum hourly emission rates used by the Facility to determine emissions from each Bag Collector and Product Collector; and
 - i. A list of periods when an emission source was in operation, but the process Bag Collector and Product Collector was down from October 2002 to the date of the receipt of this letter. Provide this information in an Excel Workbook or other compatible format.
12. Provide copies of all visible emissions (e.g., opacity) readings performed at the Facility using EPA Method 9, from October 2007 to the date of receipt of this letter. For each opacity exceedance or a group of exceedances, provide an explanation as to the cause of any such exceedance(s), and any corrective action(s) taken to address the exceedance(s).
13. From January 12, 2011 until the date of receipt of this letter, provide a list of all 6-minute average opacity exceedances recorded by the Continuous Opacity Monitoring System that are operated on the exhaust of Product Collector 3 and 10. For each opacity

exceedance or a group of exceedances, provide an explanation as to the cause of any such exceedance(s), and any corrective action(s) taken to address the exceedance(s).

14. Pursuant to Title V Permit No. 96030189 Permit Condition 5.2.3, provide copies of the Fugitive Particulate Matter Operating Program and previous amendments submitted to the IEPA since October 2007.
 15. Identify and describe, in a chronologically organized table, all capital expenditures greater than \$25,000 commenced at the emission units, from January 1, 2000 to the date of receipt of this letter. This list must contain the approximate date each project (including maintenance projects and modifications) commenced, the date each project was completed or implemented, a brief description of each project, a list of expenses for each project, and the fixed capital cost of each project in nominal dollars. This should include, but not be limited to capital expenditures associated with changes in fuel type, fuel feed operations, raw material feed rates, production rates, emission rates, and/or air pollution control equipment.
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16. For each project identified in Question #15 which cost greater than \$100,000, provide copies of all capital appropriation requests, financial justifications, and authorizations, including attachments and addenda, generated by or prepared on behalf of the facility or its predecessors concerning that project.
 17. If not identified in Question #15, provide a list of all projects associated with replacing portions of kiln shell on each kiln, from January 1, 2000 to the date of receipt of this letter. This list must contain the approximate date each project (including maintenance projects and modifications) commenced, the date each project was completed or implemented, a brief description of each project, a list of expenses for each project, and the fixed capital cost of each project in nominal dollars.
 18. Provide monthly composite sheets from September 2002 to September 2012 for both Kiln #1 and Kiln #2, including:
 - a. Iron Rich Material (IRM);
 - b. Waelz Kiln Feed (Electric Arc Furnace Dust and Coke); and
 - c. Zinc Oxide.

Appendix C

Confidential Business and Personal Privacy Information

Assertion Requirements

You may assert a business confidentiality claim covering any parts of the information requested in the attached Appendix B, as provided in 40 C.F.R. § 2.203(b).

Emission data provided under Section 114 of the CAA, 42 U.S.C. § 7414, is not entitled to confidential treatment under 40 C.F.R. Part 2.

“Emission data” means, with reference to any source of emissions of any substance into the air:

Information necessary to determine the identity, amount, frequency, concentration or other characteristics (to the extent related to air quality) of any emission which has been emitted by the source (or of any pollutant resulting from any emission by the source), or any combination of the foregoing;

Information necessary to determine the identity, amount, frequency, concentration or other characteristics (to the extent related to air quality) of the emissions which, under an applicable standard or limitation, the source was authorized to emit (including to the extent necessary for such purposes, a description of the manner and rate of operation of the source); and

A general description of the location and/or nature of the source to the extent necessary to identify the source and to distinguish it from other sources (including, to the extent necessary for such purposes, a description of the device, installation, or operation constituting the source).

40 C.F.R. § 2.301(a)(2)(i)(A),(B) and (C).

To make a confidentiality claim, submit the requested information and indicate that you are making a claim of confidentiality. Any document for which you make a claim of confidentiality should be marked by attaching a cover sheet stamped or typed with a caption or other suitable form of notice to indicate the intent to claim confidentiality. The stamped or typed caption or other suitable form of notice should employ language such as “trade secret” or “proprietary” or “company confidential” and indicate a date, if any, when the information should no longer be treated as confidential. Information covered by such a claim will be disclosed by EPA only to the extent permitted and by means of the procedures set forth at Section 114(c) of the CAA and 40 C.F.R Part 2. Allegedly confidential portions of otherwise non-confidential documents should be clearly identified. EPA will construe the failure to furnish a confidentiality claim with your response to the Request to Provide Information as a waiver of that claim, and the information may be made available to the public without further notice to you.

Determining Whether the Information is Entitled to Confidential Treatment

All confidentiality claims are subject to EPA verification and must be made in accordance with 40 C.F.R. § 2.208, which provides in part that you must satisfactorily show that you have taken reasonable measures to protect the confidentiality of the information and that you intend to continue to do so; that the information is not and has not been reasonably obtainable by legitimate means without your consent and that disclosure of the information is likely to cause substantial harm to your business's competitive position.

Pursuant to 40 C.F.R. Part 2, Subpart B, EPA may at any time send you a letter asking that you support your confidential business information (CBI) claim. If you receive such a letter, you must respond within the number of days specified by EPA. Failure to submit your comments within that time would be regarded as a waiver of your confidentiality claim or claims, and EPA may release the information. If you receive such a letter, EPA will ask you to specify which portions of the information you consider confidential **by page, paragraph, and sentence**. Any information not specifically identified as subject to a confidentiality claim may be disclosed to the requestor without further notice to you. For each item or class of information that you identify as being CBI, EPA will ask that you answer the following questions, giving as much detail as possible:

1. For what period of time do you request that the information be maintained as confidential, e.g., until a certain date, until the occurrence of a special event, or permanently? If the occurrence of a specific event will eliminate the need for confidentiality, please specify that event.
2. Information submitted to EPA becomes stale over time. Why should the information you claim as confidential be protected for the time period specified in your answer to question number 1?
3. What measures have you taken to protect the information claimed as confidential? Have you disclosed the information to anyone other than a governmental body or someone who is bound by an agreement not to disclose the information further? If so, why should the information still be considered confidential?
4. Is the information contained in any publicly available databases, promotional publications, annual reports or articles? Is there any means by which a member of the public could obtain access to the information? Is the information of a kind that you would customarily not release to the public?
5. Has any governmental body made a determination as to confidentiality of the information? If so, please attach a copy of the determination.
6. For each category of information claimed as confidential, **explain with specificity** why release of the information is likely to cause substantial harm to your competitive position. Explain the specific nature of those harmful effects, why they should be viewed as substantial and the causal relationship between disclosure and such harmful effects. How could your competitors make use of this information to your detriment?

7. Do you assert that the information is submitted on a voluntary or a mandatory basis? Please explain the reason for your assertion. If you assert that the information is voluntarily submitted information, explain whether and why disclosure of the information would tend to lessen the availability to EPA of similar information in the future.
8. Is there any other information you deem relevant to EPA's determination regarding your claim of business confidentiality?

If you receive a request for a substantiation letter from the EPA, **you bear the burden of substantiating your confidentiality claim.** Conclusory allegations will be given little or no weight in the determination. In substantiating your CBI claim(s), you must bracket all text so claimed and mark it "CBI." Information so designated will be disclosed by EPA only to the extent allowed by and by means of the procedures set forth in 40 C.F.R. Part 2, Subpart B. If you fail to claim the information as confidential, it may be made available to the public without further notice to you.

Personal Privacy Information

Please segregate any personnel, medical and similar files from your responses and include that information on a separate sheet(s) marked as "Personal Privacy Information." Disclosure of such information to the general public may constitute an invasion of privacy.

CERTIFICATE OF MAILING

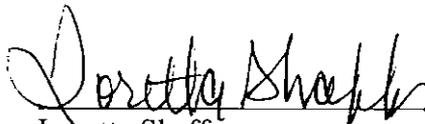
I, Loretta Shaffer, certify that I sent a Request to Provide Information Pursuant to the Clean Air Act by Certified Mail, Return Receipt Requested, to:

John A. Marta
Horsehead Corporation
2701 E. 114th Street
Chicago, Illinois 60617

I also certify that I sent a copy of the Request to Provide Information Pursuant to the Clean Air Act by First-Class Mail to:

Joseph N. Kotas
9511 Harrison Street, 3rd Floor
Des Plaines, Illinois 60016

On the 16 day of November 2012.



Loretta Shaffer
AECAB, Planning and Administration Section

CERTIFIED MAIL RECEIPT NUMBER: 7009 1680 0000 7670 1952