



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

NOV 12 2015

REPLY TO THE ATTENTION OF:

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Dominic V. Nardis
Manager, Environmental Health and Safety
TimkenSteel Corporation
1835 Dueber Avenue
Canton, Ohio 44706

Re: Notice of Violation and Finding of Violation
TimkenSteel Corporation, Canton, Ohio

Dear Mr. Nardis:

The U.S. Environmental Protection Agency is issuing the enclosed Notice of Violation and Finding of Violation (NOV/FOV) to TimkenSteel Corporation (Timken or you) under Sections 113(a)(1) and (a)(3) of the Clean Air Act, 42 U.S.C. §§ 7413(a)(1) and (a)(3). We find that Timken is violating conditions of its Title V permits at the Faircrest and Harrison facilities, as well as conditions of a federally enforceable state permit to install at Faircrest. Both facilities are located in Canton, Ohio.

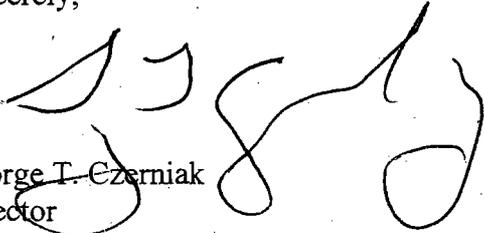
Section 113 of the Clean Air Act gives us several enforcement options. These options include issuing an administrative compliance order, issuing an administrative penalty order, and bringing a judicial civil or criminal action.

We are offering you an opportunity to confer with us about the violations alleged in the NOV/FOV. The conference will give you an opportunity to present information on the specific findings of violation, any efforts you have taken to comply, and the steps you will take to prevent future violations. In order to make the conference more productive, we encourage you to submit information responsive to the NOV/FOV to us prior to the conference date.

Please plan for your technical and management personnel to attend the conference to discuss compliance measures and commitments. You may have an attorney represent you at this conference.

The EPA contact in this matter is Dakota Prentice. You may call him at (312) 886-6761 to request a conference. You should make the request within 10 calendar days following receipt of this letter. We should hold any conference within 30 calendar days following receipt of this letter.

Sincerely,

A handwritten signature in black ink, appearing to read 'G. Czerniak', written over the typed name.

George T. Czerniak
Director
Air and Radiation Division

Enclosure

cc: Robert Hodanbosi, Chief, Division of Air Pollution Control, OEPA
Terri Dzienis, Administrator, Air Pollution Control, Canton City Health Department

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5**

IN THE MATTER OF:

**TimkenSteel Corporation
Canton, Ohio**

Proceedings Pursuant to
the Clean Air Act 42 U.S.C. §§ 7401

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)
) **NOTICE AND FINDING OF
VIOLATION**

) **EPA-5-16-OH-01**
)
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NOTICE AND FINDING OF VIOLATION

The U.S. Environmental Protection Agency (EPA) is issuing this Notice of Violation and Finding of Violation (NOV/FOV) under Sections 113(a)(1) and (a)(3) of the Clean Air Act (the Act), 42 U.S.C. §§ 7413(a)(1) and (a)(3). EPA finds that TimkenSteel Corporation (Timken) is violating conditions of its Title V permits at the Faircrest and Harrison facilities, as well as conditions of a federally enforceable state permit to install at Faircrest as follows:

Statutory and Regulatory Authority

Title V Permit Program

1. Title V of the Act, 42 U.S.C. §§ 7661-7661f, established an operating permit program for major sources of air pollution.
2. In accordance with Section 502(b) of the Act, 42 U.S.C. § 7661a(b), EPA promulgated regulations establishing the minimum elements of a Title V permit program to be administered by any air pollution control agency. *See* 57 Fed. Reg. 32295 (July 21, 1992). Those regulations are codified at 40 C.F.R. Part 70.
3. Section 502(d) of the Act, 42 U.S.C. § 7661a(d), provides that each state must submit to the EPA a permit program meeting the requirements of Title V.
4. On August 15, 1995, EPA approved the State of Ohio's operating permit program with an effective date of October 1, 1995. *See* 40 C.F.R. Part 70, Appendix A.
5. Section 502(a) of the Act, 42 U.S.C. § 7661a(a), and 40 C.F.R. § 70.7(b) provide that, after the effective date of any permit program approved or promulgated under Title V of the Act, no source subject to Title V may operate except in compliance with a Title V permit.
6. 40 C.F.R. § 70.6(b)(1) provides that all terms and conditions in a Title V permit are enforceable by EPA.

Federally Enforceable State Permits to Install

7. On January 22, 2003, EPA approved OAC Rule 3745-31-05 as part of the federally-enforceable Ohio State Implementation Plan (SIP) with an effective date of March 10, 2003. 68 Fed. Reg. 2909.
8. OAC Rule 3734-31-05 authorizes the Ohio Environmental Protection Agency (OEPA) to, among other things, issue federally-enforceable Permits-to-Install (PTI) with such terms and conditions as are necessary to ensure compliance with applicable laws and to ensure adequate protection of environmental quality.

Relevant Factual Background

9. Timken owns and operates three steel plants in Canton, Ohio, and is headquartered at 1835 Dueber Avenue, Canton, Ohio.
10. The three plants, Faircrest Steel Plant (Faircrest), Harrison Steel Plant (Harrison), and Gambrinus Steel Plant, operate under three separate Title V permits, but are considered one source by the OEPA pursuant to Ohio Administrative Code (OAC) rule 3745-77-01(Q). The violations alleged in this NOV/FOV pertain to Faircrest and Harrison.
11. EPA conducted an inspection of the three plants on August 14, 2012, to assist in determining compliance with the Clean Air Act, the Ohio SIP and the facilities' Title V Permits.
12. EPA issued an information request to Timken under Section 114 of the Act on January 30, 2013. Timken submitted responses on April 9, 2013, and May 30, 2013.
13. EPA issued a second information request to Timken under Section 114 of the Act on January 30, 2014. Timken provided all requested information in multiple responses in April, May, and June of 2014.
14. On August 5, 2014, EPA issued an NOV/FOV to Timken alleging, among other things, that Timken exceeded emission limits at Faircrest and failed to conduct performance tests at or near maximum production at Harrison.
15. On October 9, 2014, representatives of EPA and Timken met to discuss the violations alleged in the August 5, 2014 NOV/FOV.
16. EPA issued a third information request to Timken under Section 114 of the Act on December 23, 2014 (Third Information Request). This information request required performance testing at Faircrest and Harrison.
17. In March and April of 2015, Timken conducted performance testing at Faircrest and Harrison (2015 Performance Test). This test was conducted to satisfy the Third Information Request.

Faircrest Permits

- 18. Faircrest operates under a Title V Permit issued by OEPA, effective on April 20, 2004 (Faircrest Title V Permit). OEPA issued a Permit-to-Install on December 29, 2010 (Faircrest 2010 PTI), allowing several modifications to the facility and adjusting some emissions limitations.

Faircrest Mercury Emissions

- 19. Condition P102-A.I.1. of the Faircrest Title V Permit states that emissions of mercury from the electric arc furnace (EAF) shall not exceed 0.0037 lb/hr.
- 20. Condition P102-1.b)(1)f. of the Faircrest Title 2010 PTI states that emissions of mercury from the EAF shall not exceed 0.0037 lb/hr.

Harrison Permit

- 21. Harrison currently operates under a Title V Permit issued by OEPA on October 15, 2013, with an effective date of November 5, 2013 (Harrison Title V Permit).

Harrison Particulate Matter (PM) Emission Compliance with Tire Burning

- 22. Compliance with PM₁₀/PM_{2.5} emission limits expressed as pounds PM₁₀/PM_{2.5} per ton of steel produced (lbs/ton) at EAF #2 and EAF #9 is demonstrated by comparing the cumulative PM₁₀/PM_{2.5} emissions at Baghouse #4 and #5 to the sum of the emissions shown at Condition P258, P292-6.f)(2)f.ii. of the Harrison Title V Permit. The table is summarized below:

Emission Unit	lbs PM₁₀/PM_{2.5}/ton Steel
P292 (EAF #2)	0.052
P282 (#1 Ladle Furnace)	0.00003
P258 (EAF #9)	0.043
P222 (Caster)	0.00009
Total	0.095

Harrison PM Emission Limit Compliance without Tire Burning

- 23. Timken has never burned tires at Harrison.
- 24. The Harrison Title V Permit describes the PM₁₀/PM_{2.5} emission limit for P292 (EAF #2) of 0.052 lbs/ton as a "post project" limit to allow for tire burning.
- 25. The Harrison Title V Permit identified a PM emission limit for P292 (EAF #2) without tire burning of 0.034 lbs/ton, established in a prior permit identified as PTI 15-01475.
- 26. The Harrison Title V Permit describes the PM₁₀/PM_{2.5} emission limit for P258 (EAF #9) of 0.043 lbs/ton as a "post project" limit to allow for tire burning.

27. The Harrison Title V Permit identified a PM emission limit for P258 (EAF #9) without tire burning of 0.022 lbs/ton, established in a prior permit identified as PTI 15-01475.
28. As documented in Conditions P258, P292-6.f)(1)a. and P258, P292-6.f)(1)b. of the Harrison Title V Permit, a conversion factor of 0.76 can be used to convert PM data to PM₁₀ data¹.
29. Conditions P258, P292-6.f)(1)a., and P258, P292-6.f)(1)b. of the Harrison Title V Permit state that PM₁₀ is used as a surrogate for PM_{2.5}.
30. The PM₁₀/PM_{2.5} emission limit at P292 (EAF #2) without tire burning is 0.026 lbs/ton.
31. The PM₁₀/PM_{2.5} emission limit at P258 (EAF #9) without tire burning is 0.017 lbs/ton.
32. Based on the information in Paragraphs 23 to 31, compliance with the PM₁₀/PM_{2.5} limit at Harrison during the 2015 Performance Test should be based on the cumulative emissions at Baghouse #4 and #5 as compared to the following:

Emission Unit	lbs PM₁₀/PM_{2.5}/ton Steel
P292 (EAF #2)	0.026
P282 (#1 Ladle Furnace)	0.00003
P258 (EAF #9)	0.017
P222 (Caster)	0.00009
Total	0.043

2015 Performance Test

33. The 2015 Performance Test identified a mercury emission rate at the Faircrest EAF of 0.00835 lbs/hr.
34. Timken did not burn tires during the 2015 Performance Test at Harrison.
35. The 2015 Performance Test identified a PM₁₀/PM_{2.5} emission rate at Harrison Baghouse #4 of 0.068 lbs/ton.
36. The 2015 Performance Test identified a PM₁₀/PM_{2.5} emission rate at Harrison Baghouse #5 of 0.054 lbs/ton.
37. The combined PM₁₀/PM_{2.5} emission rate from Baghouse #4 and #5 during the 2015 Performance Test was 0.122 lbs/ton

¹ AP-42, Table 12.5-2

Alleged Violations

Faircrest EAF Emissions

38. Mercury emissions from the Faircrest EAF have exceeded 0.0037 lbs/hr from April 16, 2015, to the present, in violation of Condition P102-A.I.1. of the Faircrest Title V Permit and Condition P102-1.b)(1)f. of the Faircrest 2010 PTI.

Harrison EAF PM Emissions

39. The PM₁₀/PM_{2.5} emissions exiting Harrison's Baghouse #4 and Baghouse #5 have exceeded and continue to exceed the cumulative PM₁₀/PM_{2.5} emission limit.

Environmental Impact of Violations

40. These violations have resulted in excess emissions of mercury and PM:

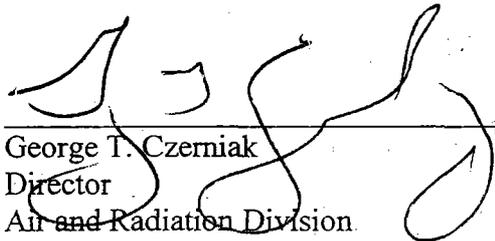
Mercury: High human exposures to mercury may result in damage to the gastrointestinal tract, the nervous system, and the kidneys.

Particulate Matter: Particulate matter, especially fine particulates contains microscopic solids or liquid droplets, which can get deep into the lungs and cause serious health problems. Particulate matter exposure contributes to:

- irritation of the airways, coughing, and difficulty breathing;
- decreased lung function;
- aggravated asthma;
- chronic bronchitis;
- irregular heartbeat;
- nonfatal heart attacks; and
- premature death in people with heart or lung disease.

Date

10/29/15


George T. Czerniak
Director
Air and Radiation Division

CERTIFICATE OF MAILING

I, Chyma Hampton, certify that I sent a Notice of Violation and Finding of Violation, No. EPA-5-16-OH-01, by Certified Mail, Return Receipt Requested, to:

Mr. Dominic V. Nardis
Manager, Environmental Health and Safety
Timken Steel Corporation
1835 Dueber Avenue
Canton, Ohio 44706

I also certify that I sent copies of the Notice of Violation and Finding of Violation by first-class mail to:

Terri Dzienis
Administrator, Air Pollution Control
Canton City Health Department
420 Market Avenue North
Canton, OH 44702

Robert Hodanbosi
Chief, Division of Air Pollution Control
Ohio Environmental Protection Agency
50 West Town Street, Suite 700,
Columbus, OH 43215

On the 2nd day of October 2015.



Loretta Shaffer
AECAB, PAS

CERTIFIED MAIL RECEIPT NUMBER: 7014 2870 0001 9581 3536