



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: March 30, 2012

RE: Amsted Rail Company, Inc. / 089-31440if-00204

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

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

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

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

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

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

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

Enclosures  
FNPER.dot12/03/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

Robert Ribbing  
Amsted Rail Company, Inc.  
1700 Walnut Street  
Granite City, Illinois 62040

March 30, 2012

Re: 089-31440i-00204  
Interim Significant Source Modification to  
Part 70 Renewal No.: T089-23826-00204

Dear Mr. Ribbing:

On February 6, 2012, the Office of Air Quality (OAQ) received an interim Significant Source Modification petition from the Amsted Rail Company located at 4831 Hohman Avenue, Hammond, Indiana 46327-1579, for modification of its Coil Spring Manufacturing Process, consisting of the addition of a fourth manufacturing line (Line 4), rated at 5.25 tons of product per hour and consisting of the following emission units:

- 1) Line 4 Coil Spring Manufacturing Process, with a maximum capacity of 5.25 tons of coil springs manufactured per hour, includes an oil quench tank, identified as 3-4000, approved for construction in 2012, using a fabric filter, identified as 3-4001, to control particulate emissions (oil mists) generated during the quenching operation, and exhausting to Stack 14. This process also includes a natural gas-fired draw furnace, identified as 2-5097A, approved for construction in 2011, with a maximum design capacity of 5.1 MMBtu/hr heat input, used to stress relieve the newly coiled springs after the quench operation.
- 2) Two (2) Coil Spring Coating Dip Tanks for the application of rust preventative coatings, identified as 3-2874A and 3-2874B, approved for construction in 2012.
- 3) One (1) Shot Peener, identified as 3-1826, approved for construction in 2012, with a maximum capacity of 5.25 tons of steel parts per hour, using a baghouse, identified as 3-1826A, for particulate matter control, and exhausting to Stack 26.

A public notice of the interim Significant Source Modification petition was published in The Times in Munster, Indiana on March 3, 2012. The public comment period ended on March 17, 2012.

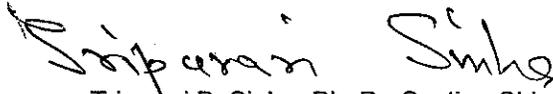
There were no comments received during the public comment period. This interim Significant Source Modification petition is in effect upon issuance and will expire on the effective date of the final Significant Source Modification permit.

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

The interim Significant Source Modification petition is federally enforceable. Detailed construction and operation conditions will be specified in the final Significant Source Modification permit 089-31440i-00204.

If you have any questions regarding this interim Significant Source Modification petition, please contact David Matousek, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for David Matousek or extension 2-8253, or dial (317) 232-8253.

Sincerely,



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

Attachments:  
Interim Petition

DJM

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

**Appendix A to the Technical Support Document (TSD)  
Potential to Emit Summary**

**Company Name:** Amsted Rail Company, Inc.  
**Address:** 4831 Hohman Ave., Hammond, Indiana 46327-1579  
**Permit Number:** Interim SSM 089-31440i-00204  
**Reviewer:** David Matousek  
**Date:** March 23, 2012

Potential to Emit of the Modification (TPY)											
Process / Emission Unit	PM	PM10	PM2.5	SO2	VOC	CO	NOx	Non-Biogenic GHGs (as CO2e)	Biogenic GHGs (as CO2e)	Total HAP	Hexane Worst Single HAP
Line 4 Quench Tank	160.97	160.97	160.97	0	0	0	0	0	0	0	0
Line 3 Draw Furnace	0.04	0.17	0.17	0.01	0.12	1.84	2.19	2,609	0	0.04	0.04
Slot Furnace 2-5201	0.01	0.04	0.04	3.22E-03	0.03	0.45	0.54	640	0	0.01	0.01
Slot Furnace 2-5202	0.01	0.04	0.04	3.22E-03	0.03	0.45	0.54	640	0	0.01	0.01
Holding Furnace	0.02	0.07	0.07	5.15E-03	0.05	0.72	0.86	1,023	0	0.02	0.02
Shot Peener	390.92	390.92	390.92	0	0	0	0	0	0	0	0
Dip Tank 3-2874A	0	0	0	0	2.96	0	0	0	0	0	0
Dip Tank 3-2874B	0	0	0	0	2.96	0	0	0	0	0	0
Total for Modification	551.97	552.21	552.21	0.02	6.15	3.46	4.13	4,912	0	0.08	0.08
Part 70 Major Source Threshold	NA	100	100	100	100	100.00	100	100,000	NA	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA	NA

<b>Controlled Potential to Emit of the Modification (TPY)</b>											
<b>Process / Emission Unit</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>VOC</b>	<b>CO</b>	<b>NOx</b>	<b>Non-Biogenic GHGs (as CO2e)</b>	<b>Biogenic GHGs (as CO2e)</b>	<b>Total HAP</b>	<b>Worst Single HAP</b>
Line 4 Quench Tank	0.16	1.61	1.61	0	0	0	0	0	0	0	0
Line 3 Draw Furnace	0.04	0.17	0.17	0.01	0.12	1.84	2.19	2,609	0	0.04	0.04
Slot Furnace 2-5201	0.01	0.04	0.04	3.22E-03	0.03	0.45	0.54	640	0	0.01	0.01
Slot Furnace 2-5202	0.01	0.04	0.04	3.22E-03	0.03	0.45	0.54	640	0	0.01	0.01
Holding Furnace	0.02	0.07	0.07	5.15E-03	0.05	0.72	0.86	1,023	0	0.02	0.02
Shot Peener	0.39	3.91	3.91	0	0	0	0	0	0	0	0
Dip Tank 3-2874A	0	0	0	0	2.96	0	0	0	0	0	0
Dip Tank 3-2874B	0	0	0	0	2.96	0	0	0	0	0	0
Total for Modification	0.63	5.84	5.84	0.02	6.15	3.46	4.13	4,912	0	negl.	negl.
Sourcewide PTE Before Modification	66.71	66.99	42.39	0.18	158.91	11.78	27.68	36,156	0	<25	<10
Sourcewide PTE After Modification	67.34	72.83	48.23	0.20	165.06	15.24	31.81	41,068	0	<25	<10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA	NA

<b>Limited Potential to Emit of the Modification (TPY)</b>											
<b>Process / Emission Unit</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>VOC</b>	<b>CO</b>	<b>NOx</b>	<b>Non-Biogenic GHGs (as CO2e)</b>	<b>Biogenic GHGs (as CO2e)</b>	<b>Total HAP</b>	<b>Worst Single HAP</b>
Line 4 Quench Tank	13.52	13.52	13.52	0	0	0	0	0	0	0	0
Line 3 Draw Furnace	0.04	0.17	0.17	1.00E-02	0.12	1.84	2.19	2,609	0	0.04	0.04
Slot Furnace 2-5201	0.01	0.04	0.04	3.22E-03	0.03	0.45	0.54	640	0	0.01	0.01
Slot Furnace 2-5202	0.01	0.04	0.04	3.22E-03	0.03	0.45	0.54	640	0	0.01	0.01
Holding Furnace	0.02	0.07	0.07	5.15E-03	0.05	0.72	0.86	1,023	0	0.02	0.02
Shot Peener	4.51	4.51	4.51	0	0	0	0	0	0	0	0
Dip Tank 3-2874A	0	0	0	0	Note 1	0	0	0	0	0	0
Dip Tank 3-2874B	0	0	0	0	Note 1	0	0	0	0	0	0
Total for Modification	18.11	18.35	18.35	0.02	0.23	3.46	4.13	4,912	0	Negl.	Negl.
Sourcewide PTE Before Modification	66.71	66.99	42.39	0.18	158.91	11.78	27.68	36,156	0	<25	<10
Sourcewide PTE After Modification	84.82	85.34	60.74	0.20	159.14	15.24	31.81	41,068	0	<25	<10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA	NA

Note 1 - These units are included in an existing VOC limit. Therefore, the units do not add to the potential to emit after issuance.

**Appendix A to the Technical Support Document (TSD)  
Potential to Emit - Line 3 Draw Furnace - Natural Gas Combustion**

**Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012**

<b>Heat Input Rate and Natural Gas Usage</b>
--

Maximum Heat Input Rate                      5.1                      MMBtu/hr                      and                      43.8                      MMCF/yr

Pollutant	Emission Factor	PTE (TPY)	Comments
PM	1.9 lb/MMCF	0.04	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM10	7.6 lb/MMCF	0.17	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM2.5	7.6 lb/MMCF	0.17	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
SO2	0.6 lb/MMCF	0.01	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
VOC	5.5 lb/MMCF	0.12	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
CO	84 lb/MMCF	1.84	AP-42, Chapter 1.4, Table 1.4-1, 7/1998
NOx	100 lb/MMCF	2.19	AP-42, Chapter 1.4, Table 1.4-1, 7/1998

<b>Greenhouse Gas Emissions (TPY as CO2e)</b>
---

Pollutant	Emission Factor	PTE (TPY)	GWP	PTE as CO2e (TPY)	Comments
CO2	53.02 kg/MMBtu	2,606	1	2,606	40 CFR 98, Subpart C, Table C-1
CH4	1.00E-03 kg/MMBtu	0.0500	21	1.05	40 CFR 98, Subpart C, Table C-2
N2O	1.00E-04 kg/MMBtu	0.0049	310	1.52	40 CFR 98, Subpart C, Table C-2
	Total	2,606	Total	2,609	

<b>HAP Emissions (TPY)</b>
----------------------------

Pollutant	Emission Factor	PTE (TPY)	Comments
Benzene	2.10E-03 lb/MMCF	4.60E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Dichlorobenzene	1.20E-03 lb/MMCF	2.63E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Formaldehyde	7.50E-02 lb/MMCF	0.0016	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
<b>Hexane</b>	1.8 lb/MMCF	<b>0.04</b>	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Toluene	3.40E-03 lb/MMCF	7.45E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Lead	5.00E-04 lb/MMCF	1.10E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Cadmium	1.10E-03 lb/MMCF	2.41E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Chromium	1.40E-03 lb/MMCF	3.07E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Manganese	3.80E-04 lb/MMCF	8.32E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Nickel	2.10E-03 lb/MMCF	4.60E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998

Total HAP (TPY)                      0.04

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/MMCF) x Usage (MMCF/yr) x 1 ton / 2,000 lb
- 2) PTE (TPY) = Emission Factor (Kg/MMBtu) x 2.2 lb/Kg x Input Rate (MMBtu/hr) x 4.38 Ton-Hr/lb-yr
- 3) PTE (TPY as CO2e) = Emission Rate CO2 (TPY) + Emission Rate CH4 (TPY) x GWP CH4 + Emission Rate N2O (TPY) x GWP CH4
- 4) Gas Usage (MMCF/yr) = Heat Input (MMBtu/hr) x 1 MMCF/ 1,020 MMBtu x 8,760 hr/yr

**Appendix A to the Technical Support Document (TSD)  
Potential to Emit - Slot Furnace (2-5201) - Natural Gas Combustion**

**Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012**

<b>Heat Input Rate and Natural Gas Usage</b>
--

Maximum Heat Input Rate      1.25                      MMBtu/hr                      and                      10.74                      MMCF/yr

Pollutant	Emission Factor	PTE (TPY)	Comments
PM	1.9 lb/MMCF	0.01	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM10	7.6 lb/MMCF	0.04	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM2.5	7.6 lb/MMCF	0.04	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
SO2	0.6 lb/MMCF	3.22E-03	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
VOC	5.5 lb/MMCF	0.03	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
CO	84 lb/MMCF	0.45	AP-42, Chapter 1.4, Table 1.4-1, 7/1998
NOx	100 lb/MMCF	0.54	AP-42, Chapter 1.4, Table 1.4-1, 7/1998

<b>Greenhouse Gas Emissions (TPY as CO2e)</b>
---

Pollutant	Emission Factor	PTE (TPY)	GWP	PTE as CO2e (TPY)	Comments
CO2	53.02 kg/MMBtu	639	1	639	40 CFR 98, Subpart C, Table C-1
CH4	1.00E-03 kg/MMBtu	0.0100	21	0.21	40 CFR 98, Subpart C, Table C-2
N2O	1.00E-04 kg/MMBtu	0.0012	310	0.37	40 CFR 98, Subpart C, Table C-2
	Total	639	Total	640	

<b>HAP Emissions (TPY)</b>
----------------------------

Pollutant	Emission Factor	PTE (TPY)	Comments
Benzene	2.10E-03 lb/MMCF	1.13E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Dichlorobenzene	1.20E-03 lb/MMCF	6.44E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Formaldehyde	7.50E-02 lb/MMCF	0.0004	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
<b>Hexane</b>	1.8 lb/MMCF	<b>0.01</b>	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Toluene	3.40E-03 lb/MMCF	1.83E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Lead	5.00E-04 lb/MMCF	2.69E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Cadmium	1.10E-03 lb/MMCF	5.91E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Chromium	1.40E-03 lb/MMCF	7.52E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Manganese	3.80E-04 lb/MMCF	2.04E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Nickel	2.10E-03 lb/MMCF	1.13E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998

Total HAP (TPY)                      0.01

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/MMCF) x Usage (MMCF/yr) x 1 ton / 2,000 lb
- 2) PTE (TPY) = Emission Factor (Kg/MMBtu) x 2.2 lb/Kg x Input Rate (MMBtu/hr) x 4.38 Ton-Hr/lb-yr
- 3) PTE (TPY as CO2e) = Emission Rate CO2 (TPY) + Emission Rate CH4 (TPY) x GWP CH4 + Emission Rate N2O (TPY) x GWP CH4
- 4) Gas Usage (MMCF/yr) = Heat Input (MMBtu/hr) x 1 MMCF/ 1,020 MMBtu x 8,760 hr/yr

**Appendix A to the Technical Support Document (TSD)  
Potential to Emit - Slot Furnace (2-5202) - Natural Gas Combustion**

**Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012**

**Heat Input Rate and Natural Gas Usage**

**Maximum Heat Input Rate            1.25                            MMBtu/hr                            and                            10.74                            MMCF/yr**

Pollutant	Emission Factor	PTE (TPY)	Comments
PM	1.9 lb/MMCF	0.01	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM10	7.6 lb/MMCF	0.04	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM2.5	7.6 lb/MMCF	0.04	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
SO2	0.6 lb/MMCF	3.22E-03	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
VOC	5.5 lb/MMCF	0.03	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
CO	84 lb/MMCF	0.45	AP-42, Chapter 1.4, Table 1.4-1, 7/1998
NOx	100 lb/MMCF	0.54	AP-42, Chapter 1.4, Table 1.4-1, 7/1998

**Greenhouse Gas Emissions (TPY as CO2e)**

Pollutant	Emission Factor	PTE (TPY)	GWP	PTE as CO2e (TPY)	Comments
CO2	53.02 kg/MMBtu	639	1	639	40 CFR 98, Subpart C, Table C-1
CH4	1.00E-03 kg/MMBtu	0.0100	21	0.21	40 CFR 98, Subpart C, Table C-2
N2O	1.00E-04 kg/MMBtu	0.0012	310	0.37	40 CFR 98, Subpart C, Table C-2
	<b>Total</b>	<b>639</b>	<b>Total</b>	<b>640</b>	

**HAP Emissions (TPY)**

Pollutant	Emission Factor	PTE (TPY)	Comments
Benzene	2.10E-03 lb/MMCF	1.13E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Dichlorobenzene	1.20E-03 lb/MMCF	6.44E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Formaldehyde	7.50E-02 lb/MMCF	0.0004	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
<b>Hexane</b>	1.8 lb/MMCF	<b>0.01</b>	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Toluene	3.40E-03 lb/MMCF	1.83E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Lead	5.00E-04 lb/MMCF	2.69E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Cadmium	1.10E-03 lb/MMCF	5.91E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Chromium	1.40E-03 lb/MMCF	7.52E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Manganese	3.80E-04 lb/MMCF	2.04E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Nickel	2.10E-03 lb/MMCF	1.13E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998

Total HAP (TPY)                            0.01

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/MMCF) x Usage (MMCF/yr) x 1 ton / 2,000 lb
- 2) PTE (TPY) = Emission Factor (Kg/MMBtu) x 2.2 lb/Kg x Input Rate (MMBtu/hr) x 4.38 Ton-Hr/lb-yr
- 3) PTE (TPY as CO2e) = Emission Rate CO2 (TPY) + Emission Rate CH4 (TPY) x GWP CH4 + Emission Rate N2O (TPY) x GWP CH4
- 4) Gas Usage (MMCF/yr) = Heat Input (MMBtu/hr) x 1 MMCF/ 1,020 MMBtu x 8,760 hr/yr

**Appendix A to the Technical Support Document (TSD)  
Potential to Emit - Holding Furnace (2-5203) - Natural Gas Combustion**

Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012

**Heat Input Rate and Natural Gas Usage**

Maximum Heat Input Rate                    2                    MMBtu/hr                    and                    17.18                    MMCF/yr

Pollutant	Emission Factor	PTE (TPY)	Comments
PM	1.9 lb/MMCF	0.02	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM10	7.6 lb/MMCF	0.07	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
PM2.5	7.6 lb/MMCF	0.07	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
SO2	0.6 lb/MMCF	5.15E-03	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
VOC	5.5 lb/MMCF	0.05	AP-42, Chapter 1.4, Table 1.4-2, 7/1998
CO	84 lb/MMCF	0.72	AP-42, Chapter 1.4, Table 1.4-1, 7/1998
NOx	100 lb/MMCF	0.86	AP-42, Chapter 1.4, Table 1.4-1, 7/1998

**Greenhouse Gas Emissions (TPY as CO2e)**

Pollutant	Emission Factor	PTE (TPY)	GWP	PTE as CO2e (TPY)	Comments
CO2	53.02 kg/MMBtu	1,022	1	1,022	40 CFR 98, Subpart C, Table C-1
CH4	1.00E-03 kg/MMBtu	0.0200	21	0.42	40 CFR 98, Subpart C, Table C-2
N2O	1.00E-04 kg/MMBtu	0.0019	310	0.59	40 CFR 98, Subpart C, Table C-2
	Total	1,022	Total	1,023	

**HAP Emissions (TPY)**

Pollutant	Emission Factor	PTE (TPY)	Comments
Benzene	2.10E-03 lb/MMCF	1.80E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Dichlorobenzene	1.20E-03 lb/MMCF	1.03E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Formaldehyde	7.50E-02 lb/MMCF	0.0006	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
<b>Hexane</b>	1.8 lb/MMCF	<b>0.02</b>	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Toluene	3.40E-03 lb/MMCF	2.92E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Lead	5.00E-04 lb/MMCF	4.30E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Cadmium	1.10E-03 lb/MMCF	9.45E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Chromium	1.40E-03 lb/MMCF	1.20E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Manganese	3.80E-04 lb/MMCF	3.26E-06	AP-42, Chapter 1.4, Table 1.4-3, 7/1998
Nickel	2.10E-03 lb/MMCF	1.80E-05	AP-42, Chapter 1.4, Table 1.4-3, 7/1998

Total HAP (TPY)                    0.02

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/MMCF) x Usage (MMCF/yr) x 1 ton / 2,000 lb
- 2) PTE (TPY) = Emission Factor (Kg/MMBtu) x 2.2 lb/Kg x Input Rate (MMBtu/hr) x 4.38 Ton-Hr/lb-yr
- 3) PTE (TPY as CO2e) = Emission Rate CO2 (TPY) + Emission Rate CH4 (TPY) x GWP CH4 + Emission Rate N2O (TPY) x GWP CH4
- 4) Gas Usage (MMCF/yr) = Heat Input (MMBtu/hr) x 1 MMCF/ 1,020 MMBtu x 8,760 hr/yr

**Appendix A to the Technical Support Document (TSD)  
Emissions Summary - Line 4 Quench Tank**

**Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012**

**Line 4 Quench Tank - Potential to Emit (TPY)**

**Line 4 Quench Tank Throughput                      5.25    tons/hr**

**Potential to Emit and Controlled Potential to Emit**

Pollutant	Emission Factor		PTE (TPY)	Control Efficiency	Controlled PTE (TPY)	Comments
PM	7	lb/ton	160.97	99.9%	0.16	Emission Factor from Mass Balance
PM10	7	lb/ton	160.97	99.0%	1.61	Emission Factor from Mass Balance
PM2.5	7	lb/ton	160.97	99.0%	1.61	Emission Factor from Mass Balance

**Limited Potential to Emit**

Pollutant	Permit Limit		Air Flow (SCFM)	Limited PTE (TPY)	Comments
PM	0.03	gr/dscf	12,000	13.52	326 IAC 6.8-1-2(a) Limit
PM10	13.52	TPY		13.52	PSD Minor Limit
PM2.5	13.52	TPY		13.52	PSD Minor Limit

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/ton) x Throughput (ton/hr) x 4.38 ton-hr/lb-yr
- 2) Controlled PTE (TPY) = Uncontrolled Emissions (TPY) x ( 1 - Control Efficiency )
- 3) PTE (TPY) = Pollutant Loading (gr/dscf) x Flow Rate (dscfm) x 60 min/hr x 4.38 ton-hr/lb-yr x 1 lb/7,000 gr

**Notes:**

- 1) The source conducted a stack test on January 20, 2012 on the existing shot peener and medium spring line quench tanks. These tests were intended to establish emission factors and control efficiencies for each unit. The emission protocol was submitted but not reviewed by IDEM before the stack test was conducted. Therefore, the emission factors used above are from the mass balance based on the amount of oil used and the weight of units treated. AP-42 emission factors will be used for the shot peener.
- 2) The applicant indicates VOC emissions from this unit are negligible. IDEM will verify with a one time test.

**Appendix A to the Technical Support Document (TSD)  
Emissions Summary - Two (2) Dip Tanks - Emissions for Each Unit**

Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012

**DIP Tanks (2-2874A and 2-2874B)**

Protective Coating Used                      4.5 gallon/hr

**Potential to Emit and Controlled Potential to Emit**

Pollutant	Emission Factor	PTE (TPY)	Control Efficiency	Controlled PTE (TPY)	Comments
PM	0	0	0.0%	0	Assume 100% Transfer
PM10	0	0	0.0%	0	Assume 100% Transfer
PM2.5	0	0	0.0%	0	Assume 100% Transfer
VOC	0.15 lb/gallon	2.96	0.0%	2.96	Assume 100% Volatilization

**Limited Potential to Emit**

Pollutant	Permit Limit	Limited PTE (TPY)	Comments
PM	None	0	Limited Same as PTE - No Enforceable Limit
PM10	None	0	Limited Same as PTE - No Enforceable Limit
PM2.5	None	0	Limited Same as PTE - No Enforceable Limit
VOC	None	2.96	Limited PTE is same as PTE
VOC	2.8 lb/gallon	55.19	326 IAC 8-2-9(d)(1)(a)

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/gallon) x Usage (gallons/hr) x 4.38 Ton-Hr/Lb-Year
- 2) Based on worst case coating.

**Appendix A to the Technical Support Document (TSD)  
Emissions Summary - Shot Peener**

**Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012**

**Shot Peener (3-1826)**

**Throughput of Steel**                      **5.25 tons/hr**

**Potential to Emit and Controlled Potential to Emit**

<b>Pollutant</b>	<b>Emission Factor</b>		<b>PTE (TPY)</b>	<b>Control Efficiency</b>	<b>Controlled PTE (TPY)</b>	<b>Comments</b>
PM	17	lb/ton	390.92	99.90%	0.39	SCC 3-04-003-40
PM10	17	lb/ton	390.92	99.00%	3.91	SCC 3-04-003-40
PM2.5	17	lb/ton	390.92	99.00%	3.91	SCC 3-04-003-40

**Limited Potential to Emit**

<b>Pollutant</b>	<b>Permit Limit</b>		<b>Air Flow (SCFM)</b>	<b>Limited PTE (TPY)</b>	<b>Comments</b>
PM	0.03	gr/dscf	4,000	4.51	326 IAC 6.8-1-2(a) Limit
PM10	4.51	TPY		4.51	PSD Minor Limit
PM2.5	4.51	TPY		4.51	PSD Minor Limit

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/ton) x Throughput (ton/hr) x 4.38 Ton-Hr/Lb-Year
- 2) PTE (TPY) = Limit (gr/dscf) x Flow (CFM) x 60 min/hr x 8,760 hr/yr x 1 lb/7,000 gr x 1 ton/2,000 lb
- 3) The source conducted a stack test on January 20, 2012 on the existing shot peener and medium spring line quench tanks. These tests were intended to establish emission factors and control efficiencies for each unit. The emission protocol was submitted but not reviewed by IDEM before the stack test was conducted. Therefore, the emission factors used above are from the mass balance based on the amount of oil used and the weight of units treated. AP-42 emission factors will be used for the shot peener.

**Appendix A to the Technical Support Document (TSD)  
Potential to Emit - GHG Prior Modification - Natural Gas Combustion**

**Company Name: Amsted Rail Company, Inc.  
Address: 4831 Hohman Ave., Hammond, Indiana 46327-1579  
Permit Number: Interim 089-31440i-00204  
Reviewer: David Matousek  
Date: March 23, 2012**

**Heat Input Rate and Natural Gas Usage**

<b>Emission Unit</b>	<b>Unit #</b>	<b>MMBtu/hr</b>
Large Line Bar Furnace	2-5027	20.5
Medium Line Bar Furnace	2-5075	13.0
Small Line Draw Furnace	2-5163	5.1
Medium Line Draw Furnace	2-5097	5.1
Large Line Draw Furnace	2-5164	9.8
Small Line Bar Furnace	2-5085	8.0
Small Line Slot Furnace	2-5006	1.5
Medium Line Slot Furnaces	2-5014/2-5015	5.2
Large Line Slot Furnace	2-5036	2.5
		70.7

MMBtu/hr

**Maximum Heat Input Rate            70.7            MMBtu/hr            and            607.19            MMCF/yr**

**Greenhouse Gas Emissions (TPY as CO<sub>2</sub>e)**

<b>Pollutant</b>	<b>Emission Factor</b>		<b>PTE (TPY)</b>	<b>GWP</b>	<b>PTE as CO<sub>2</sub>e (TPY)</b>	<b>Comments</b>
CO <sub>2</sub>	53.02	kg/MMBtu	36,121	1	36,121	40 CFR 98, Subpart C, Table C-1
CH <sub>4</sub>	1.00E-03	kg/MMBtu	0.6800	21	14.28	40 CFR 98, Subpart C, Table C-2
N <sub>2</sub> O	1.00E-04	kg/MMBtu	0.0681	310	21.11	40 CFR 98, Subpart C, Table C-2
	Total		36,122	Total	36,156	

**Methodology:**

- 1) PTE (TPY) = Emission Factor (lb/MMCF) x Usage (MMCF/yr) x 1 ton / 2,000 lb
- 2) PTE (TPY) = Emission Factor (Kg/MMBtu) x 2.2 lb/Kg x Input Rate (MMBtu/hr) x 4.38 Ton-Hr/lb-yr
- 3) PTE (TPY as CO<sub>2</sub>e) = Emission Rate CO<sub>2</sub> (TPY) + Emission Rate CH<sub>4</sub> (TPY) x GWP CH<sub>4</sub> + Emission Rate N<sub>2</sub>O (TPY) x GWP CH<sub>4</sub>
- 4) Gas Usage (MMCF/yr) = Heat Input (MMBtu/hr) x 1 MMCF/ 1,020 MMBtu x 8,760 hr/yr

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

**PETITION FOR INTERIM SIGNIFICANT SOURCE MODIFICATION**

for  
Amsted Rail Company  
4831 Hohman Ave.  
Hammond, IN 46327

SIC Code: 3493

Description of the Operation or Equipment:

The following new or modified equipment will be installed: a fourth manufacturing line (Line4) rated at 5.25 tons per hour that will include; two (2) 1.25 MMBtu/hr natural gas fired slot furnaces identified as emission units 2-5201 and 2-5202; an electric Bar Furnace (non-emitting); a new oil quench tank identified as 3-4000 controlled by a fabric filter; a 2.0 MMBtu/hr natural gas fired holding furnace identified as emission unit 2-5203; two (2) water based dip tanks identified as emission units 3-2874A & B; and a new shot peening unit identified as emission unit 3-1826 controlled by a fabric filter. The 5.1 MMBtu/hr natural gas fired draw furnace identified as 2-5097 will be re-instated for use on the medium coil spring line. In addition, the identified control device for the large quench will now specify the use of a fabric filter.

Potential Emissions:

Pollutant	Uncontrolled Potential Emissions Tons/year	Limited Potential to Emit After Controls Tons/Year
VOC	6.14	6.14
NO <sub>x</sub>	4.2	4.2
CO	3.53	3.53
SO <sub>2</sub>	0.03	0.03
PM	552	18.1
PM <sub>10</sub> / PM <sub>2.5</sub>	200.4	18.3
CO <sub>2e</sub>	5,057	5,057
Total Hazardous Air Pollutants (HAPs)	0.08	0.08

Calculations and methodologies are included in the Significant Source Modification Permit application.

PSD Requirements:

The facility wide limited Potential to emit is less than the major source thresholds prior to this modification and after the modification is completed and therefore the requirements of the PSD rules do not apply.

**NSPS Requirements:**

There are no applicable NSPS rules for this operation or equipment.

**NESHAP Requirements:**

There are no applicable NESHAP rules for this operation or equipment.

**State Rules & Requirements:**

326 IAC 2-4.1, New Source Toxics Controls, does not apply, since the potential to emit all of these units is less than the applicability threshold of 10 tons/year of any single HAP or 25 tons/year of all HAPs.

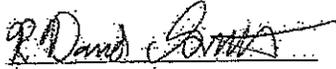
326 IAC 5-1, Opacity Regulations. The applicable opacity standard is 20% opacity under 326 IAC 5-1-1 since the facility is located in Lake County.

326 IAC 6, Particulate Rules. These emission units are subject to a limit of 0.03 gr/dscf pursuant to 326 IAC 6.5-1. It is proposed that specific limits for PM, PM10 and PM2.5 be included in the permit which are consistent with the 0.03 gr/dscf limit, such that the limited potential to emit for the entire source remains below the PSD major source threshold.

326 IAC 8, Volatile Organic Compound Rules. The requirements of 326 IAC 8-2-9, Surface Coating of Metal Parts and Products applies to the two new dip tanks. There are no specific rules in Article 8 which would apply to other emission units, and since proposed uncontrolled potential emissions of VOCs from other emission units are less than 25 tons per year, the requirements of 326 IAC 8-1-6 (State BACT) would not apply to the proposed project.

**Federal Enforceability:**

Amsted Rail Company, Inc. consents to the federal enforceability of this interim construction permit.

Signature: 

Printed Name: David Sutherland

Title or Position: Plant Manager

Date: 2/29/12

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

**Proposed Approval of Interim Significant Source Modification**

**Amsted Rail Company, Inc.  
Lake County**

Notice is hereby given that the above-mentioned company, located at 4831 Hohman Ave., Hammond IN, 46327, has made application to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for an interim significant source modification to construct a fourth manufacturing line (Line 4) rated at 5.25 tons per hour that will include: two natural gas fired slot furnaces; an electric Bar Furnace; a new oil quench tank identified controlled by a fabric filter; a natural gas fired holding furnace; two water-based dip tanks; and a new shot peening unit controlled by a fabric filter. A natural gas-fired draw furnace will be re-instated for use on the medium coil spring line. In addition, the identified control device for the large line quench will now specify the use of a fabric filter. Based on 8760 hours per year of operation, the limited allowable emissions are 6.14 tons/year for VOCs; 4.2 tons/year for NO<sub>x</sub>; 3.58 tons/year for CO; 0.03 tons/year for SO<sub>2</sub>; 18.1 tons/year for PM; 18.3 tons/year for PM<sub>10</sub>/PM<sub>2.5</sub> and 0.08 tons/year for total Hazardous Air Pollutants (HAPs).

The company has submitted an application for a significant source and permit modification under the Part 70 regulations (326 IAC 2-7). The OAQ will review the application in accordance with the Permit Review Rules. Operation of the source cannot commence until a valid permit modification is issued. The construction of the proposed project is entirely at the applicant's own risk.

Notice is hereby given that there will be a period of 14 days from the date of publication of this notice during which any interested person may comment on why this proposed permit should or should not be issued. Appropriate comments should be related to any air quality issues, interpretation of the state and federal rules, calculations made, technical issues, or the effect that the operation of this source would have on any aggrieved individuals. A copy of the application and staff review is available for examination at the Hammond Public Library, 564 State Street, Hammond, Indiana. All comments, along with supporting documentation, should be submitted in writing to the IDEM, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003 Indianapolis, Indiana 46204-2251.

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

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

Company Official's Signature:



Company Official's Printed Name: David Sutherland, Plant Manager

Company Name: Amsted Rail Company, Inc.

Affidavit of Construction

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

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

2. I hold the position of Plant Manager for Amsted Rail Company, Inc  
(Title) (Company Name)

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

4. I, undersigned, have submitted an interim significant source and permit modification petition to the Office of Air Quality for the construction of two new natural gas fired slot furnaces: one natural gas fired holding oven; one fine 4 coil spring line quench tank controlled by a fabric filter; two water based surface coating dip tanks; one re-instated natural gas fired draw furnace; one shot peening unit controlled by a fabric filter; and the replacement of the electrostatic precipitator on the large line quench tank with a fabric filter.

5. Amsted Rail Company, Inc recognizes the following risks:

(a) own financial risk, (b) that IDEM may require additional different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and (d) any additional air permitting requirements.

Further Affiant said not.

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

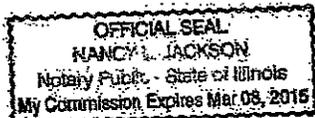
Signature

R. David Sutherland  
David Sutherland

2/29/12  
Date

~~STATE OF INDIANA~~  
ILLINOIS  
STATE OF ILLINOIS  
COUNTY OF MADISON

Subscribed and sworn to me, a notary public in and for Madison County and State of Illinois  
on this 29<sup>th</sup> day of February, 2012  
My Commission expires: March 8, 2015



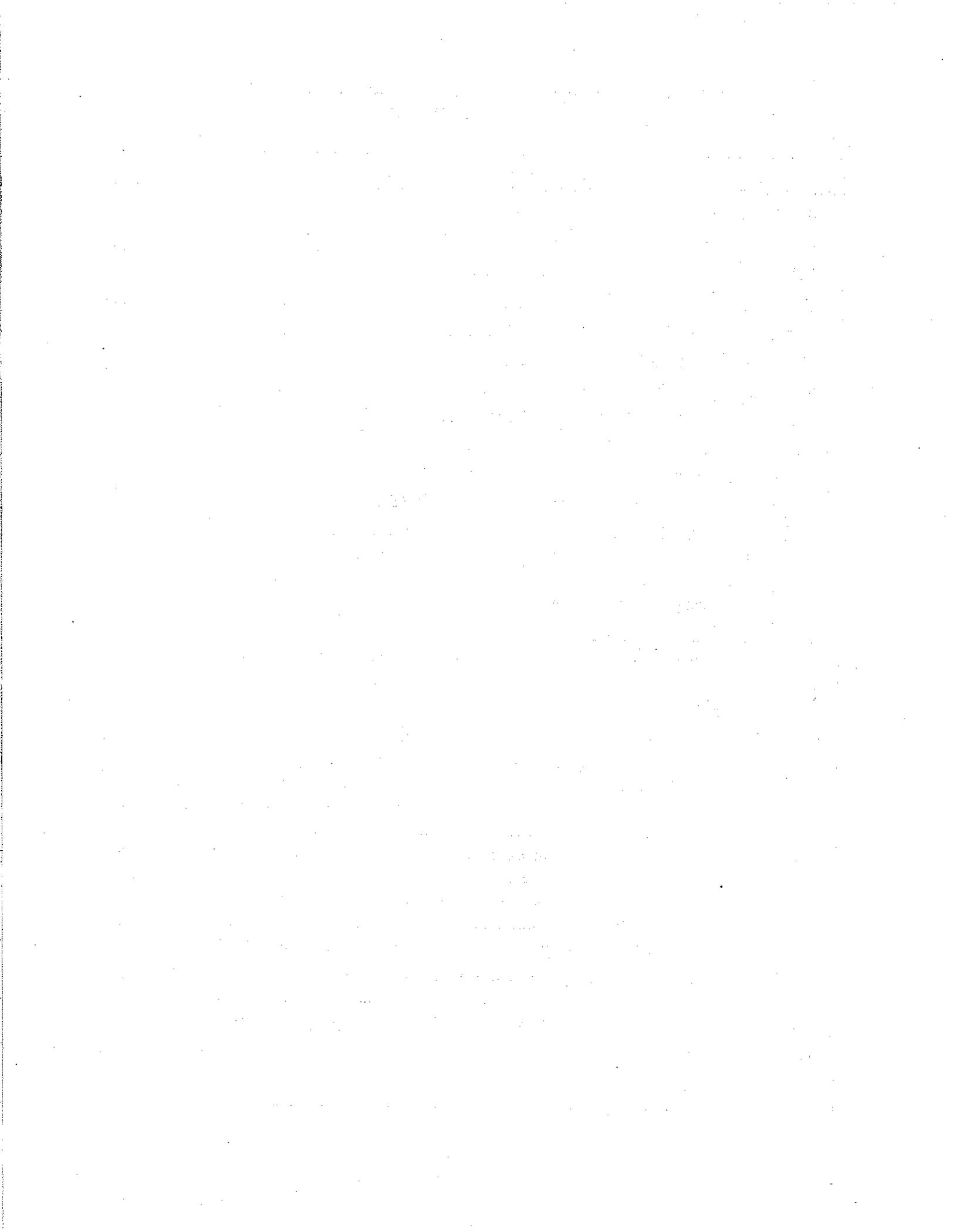
Signature

Name (typed or printed)

Nancy L. Jackson

## Indiana Department of Environmental Management Office of Air Quality

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



### Attachment C Emission Inventory

Line 4 Queue Tank	Uncontrolled EF, lb/ton		Uncontrolled Potential Emissions				Controlled				
	PM	PM10	lb/hr	lb/day	lb/yr	PM/PM10	PM2.5 @ 0.005 gr/dscf	lb/yr			
exhaust flow, adm	12,000	5,25	7	36.75	36.75	882.00	882.00	160.97	180.97	2.09	13.52

Emission factors, lb/MWh	New Natural Gas Fired Emission Units, Potential to Emit								
	Reheatd Line 3 Draw Furnace (2-5097)		Slot Furnace (2-5204)		Slot Furnace (2-5203)		Holdin g Furn ace (2-5203)		
	5.1 lb/MWh (2-5097)	1.25 lb/MWh (2-5204)	1.25 lb/MWh (2-5203)	2 lb/MWh (2-5203)	lb/hr	lb/day	lb/yr	lb/yr	
PM <sup>a</sup>	1.9	0.23	0.002	0.067	0.010	0.002	0.057	0.010	0.017
PM10/PM2.5 <sup>b</sup>	7.6	0.090	0.010	0.228	0.010	0.228	0.042	0.042	0.087
SO <sub>2</sub>	0.6	0.073	0.001	0.018	0.003	0.001	0.018	0.003	0.005
NO <sub>x</sub> <sup>c</sup>	100	12.240	0.125	3.000	0.548	0.125	3.000	0.548	0.876
VOC <sup>a</sup>	6.5	0.028	0.007	0.195	0.030	0.007	0.195	0.030	0.048
CO <sup>a</sup>	84	0.428	0.106	2.820	0.460	0.106	2.820	0.460	1.053
CO <sub>2</sub> <sup>a</sup>	120,161	14,708	1.878	48.85	658	1.878	48.85	658	1,768
CH <sub>4</sub> <sup>a</sup>	2,268	0.277	0.051	0.003	0.088	0.012	0.088	0.012	0.108
NO <sub>2</sub> <sup>a</sup>	0.227	0.028	0.000	0.007	0.001	0.000	0.007	0.001	0.002
CO <sub>2e</sub> <sup>a</sup>	120,279	14,722	1.878	48.85	658	1.878	48.85	658	1,768

a AP-42 Table  
b 40 CFR 55 Tables C-1 and -2  
c Global warming potentials: CO2 = 1; CH4 = 21; NO2 = 310

Water Based Dip Tank 3-2877A	VOC Emission Factor, lb/gallon	Usage rate, Gallons/hr	Uncontrolled Potential Emissions lb/hr	lb/day	lb/yr
Water Based Dip Tank 3-2874B	0.15	4.5	0.7	16.2	3.0

New Shot Peener	BH Control exhaust flow, adm	tons steel peened	Uncontrolled EF, lb/ton steel		Uncontrolled Potential Emissions		Controlled/ Limited PM/PM10/PM2.5 @ 0.03 gr/dscf					
			PM	PM10/2.5	lb/hr	lb/day	lb/yr	lb/yr				
3-1828	4,000	5.25	17	1.7	89.3	8.9	2142.0	214.2	390.9	38.09	1.03	4.505

\* Emission factors from AP-42/ FRRE for finishing operations at iron and steel foundries.

Summary of new equipment	PM		PM10		PM2.5		VOCs		NOx		CO		SO2		CO2e	
	Control	Uncontrolled	Control	Uncontrolled	Control	Uncontrolled	Control	Uncontrolled	Control	Uncontrolled	Control	Uncontrolled	Control	Uncontrolled	Control	Uncontrolled
Line & Quench Tank	160.97	13.62	160.97	13.62	160.97	13.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Natural Gas Fired Units	0.08	0.08	0.32	0.32	0.32	0.32	0.23	0.23	3.65	3.65	0.03	0.03	6097.47	6097.47	NA	NA
Shot Peener	390.82	4.61	39.08	4.61	NA	NA	5.91	5.91	NA	NA	NA	NA	NA	NA	NA	NA
Water Based Dip Tanks	NA	NA	NA	NA	NA	NA	6.14	6.14	4.20	4.20	3.53	3.53	6097.47	6097.47	NA	NA
<b>Totals</b>	<b>551.95</b>	<b>18.10</b>	<b>200.38</b>	<b>18.34</b>	<b>200.38</b>	<b>18.34</b>	<b>18.64</b>	<b>18.64</b>	<b>4.20</b>	<b>4.20</b>	<b>3.53</b>	<b>3.53</b>	<b>6097.47</b>	<b>6097.47</b>	<b>NA</b>	<b>NA</b>
Current Facility-Wide Limited PTE	86.71	86.71	86.68	86.68	42.39	42.39	188.91	188.91	27.66	27.66	11.79	11.79	0.18	0.18	37.194	37.194
Facility-Wide Limited PTE After Project	94.81	94.81	85.83	85.83	60.73	60.73	155.05	155.05	31.98	31.98	15.31	15.31	0.21	0.21	42.661	42.661
PSD Major Source Thresholds	250	250	250	250	100	100	250	250	250	250	250	250	250	250	100,000	100,000

\* See page 1 of TSD for SSM 30392

Attachment C  
Emission Inventory (Continued)

Facility Wide GHG Emissions from Permitted Combustion Units

	Natural Gas Emission Factors	Global Warming Potential
CO2	120.161 lbs/MMCF	1
CH4	2.286 lbs/MMCF	21
NO2	0.227 lbs/MMCF	310

Emission Unit	Unit ID	MMBtu/hr	Potential to Emit, Tons/year			
			CO2	GH4	N2O	CO2e
Small Line Slot Furnace	2-5006	1.5	789	0.0149	0.0015	790
Small Line Draw Furnace	2-5163	5.1	2,684	0.0506	0.0051	2,687
Small Line Bar Furnace	2-5085	8.0	4,210	0.0794	0.0080	4,215
Medium Line Slot Furnaces	2-5014/15	5.2	2,737	0.0516	0.0052	2,739
Medium Line Draw Furnace	2-5097	5.1	2,684	0.0506	0.0051	2,687
Medium Line bar Furnace	2-5075	13.0	6,842	0.1290	0.0129	6,849
Large Line Slot Furnace	2-5036	2.5	1,316	0.0248	0.0025	1,317
Large Line Draw Furnace	2-5164	9.8	5,158	0.0973	0.0097	5,163
Large Line Bar Furnace	2-5027	20.5	10,789	0.2035	0.0204	10,800
Line 4 Slot Furnaces	2-5201/2	2.5	1,316	0.0248	0.0025	1,317
Line 4 Draw Furnaces	2-5097A	5.0	2,632	0.0496	0.0050	2,634
Line 4 Holding Furnace	2-5203	2.0	1,053	0.0199	0.0020	1,054
<b>Totals</b>		<b>80.2</b>	<b>42,210</b>	<b>0.80</b>	<b>0.08</b>	<b>42,251</b>

**Notice for 14-Day Period for Public Comment**

Proposed Approval of Interim Significant Source Modification Amsted Rail Company, Inc. Lake County

Notice is hereby given that the above-mentioned company, located at 4831 Hohman Ave., Hammond, IN 46327, has made application to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for an interim significant source modification to construct a fourth manufacturing line (Line4) rate at 5.25 tons per hour that will include: two natural gas fired slot furnaces, an electric Bar Furnace, two water-based dip tanks, and a new shot peening unit controlled by a fabric filter. A natural gas fired draw furnace will be re-installed for use on the medium coil spring line. In addition, the identified control device for the large line quench will now specify the use of a fabric filter. Based on 8760 hours per year of operation, the limited allowable emissions are 6.14 tons/year for VOCs, 4.2 tons/year for NOx, 3.53 tons/year for CO, 0.03 tons/year for SO2, 18.1 tons/year for PM, 18.3 tons/year for PM10, PM2.5 and 0.08 tons/year for total Hazardous Air Pollutants (HAPs). The company has submitted an application for a significant source and permit modification under the Part 70 regulations (326 IAC 2-7). The OAQ will review the application in accordance with the Permit Review Rules. Operation of the source can not comment until a valid permit modification is issued. The construction of the proposed project is entirely at the applicant's own risk. Notice is hereby given that there will be a period of 14 days from the date of publication of this notice during which any interested person may comment on why this proposed permit should or should not be issued. Appropriate comments should be related to any air quality issues, interpretation of the state and federal rules, calculations made, technical issues, or the effect that the operation of this source would have on any aggrieved individuals. A copy of the application and staff review is available for examination at the Hammond Public Library, 564 State St., Hammond, IN. All comments, along with supporting documentation, should be submitted in writing to the IDEM, OAQ, 100 N. Senate Ave., MC 61-53, Rm. 1003, Indianapolis, IN 46204-2251. Persons not wishing to comment at this time, but wishing to receive notice of future proceedings conducted related to this action, must submit a written request to the Office of Air Quality (OAQ), at the above address. All interested parties of record will receive a notice of the decision on this matter and will then have fifteen (15) days after receipt of the Notice of Decision to file a petition for administrative review. Procedures for filing such a petition will be enclosed with the Notice. Questions should be directed to OAQ, 100 N. Senate Ave., MC 61-53, Rm. 1003, Indianapolis, IN 46204-2251, or call (800) 451-6027 or at (317) 233-0178. David Sutherland, Plant Manager, Amsted Rail Company, Inc. 3/3

Board of Accounts

*Amsted Rail Company*

(Governmental Unit)

To: The Times Media Company

601-45th Avenue, Munster, IN 46321

**PUBLISHER'S CLAIM**

ster (Must not exceed two actual lines, neither of which shall  
 more than four solid lines of the type in which the body of the  
 isment is set) -- number of equivalent lines  
 number of lines  
 number of lines  
 number of lines  
 number of lines in notice

**OF CHARGES**

..... columns wide equals 82 equivalent lines at 400  
 per line \$ 328.00  
 charges for notices containing rule or tabular work (50 per cent  
 ive amount) Online Charge \$10.00  
 extra proofs of publication (\$1.00 for each proof in excess  
 ) \$ 338.00  
**TOTAL AMOUNT OF CLAIM** #20461880

**IMPUTING COST**

ngle column in picas 9p4 Size of type 7.0 point.  
 insertions: .....

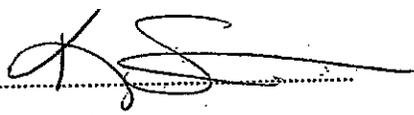
to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is  
 t, that the amount claimed is legally due, after allowing all just credits, and that no part of the same

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

*March 3, 2012*

y, the statement checked below is true and correct:

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

Kate Stephens 

Title: Legal Clerk

Date *March 6, 2012*

*Amsted Rail Company*  
(Governmental Unit)

To: The Times Media Company

Lake County, Indiana

601-45th Avenue, Munster, IN 46321

**PUBLISHER'S CLAIM**

**LINE COUNT**

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

Head - number of lines -----

Body - number of lines -----

Tail - number of lines -----

Total number of lines in notice -----

**COMPUTATION OF CHARGES**

82 lines, 1 column wide equals 82 equivalent lines at 400 cents per line ----- \$ 328.00

Additional charges for notices containing rule or tabular work (50 per cent of above amount) ----- Online Charge \$10.00

Charge for extra proofs of publication (\$1.00 for each proof in excess of two) -----

**TOTAL AMOUNT OF CLAIM** ----- \$ 338.00

**DATA FOR COMPUTING COST**

Width of single column in picas 9p4 ----- Size of type 7.0 point.

Number of insertions: 1 -----

#2046180

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

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

*March 3, 2012*

Additionally, the statement checked below is true and correct:

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

Date

*March 6, 2012*

Kate Stephens

Title: Legal Clerk

market options that  
use only, actual

als

lifetime

THIS I

Warranty  
will promi

RAI

KI

Do

9



**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50859 (R3 / 11-07)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch  
 100 N. Senate Avenue, MC 61-53, Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
<http://www.idem.state.in.us/air/permits>

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments to IDEM, Air Permits Administration using the address in the upper right hand corner of this page. Also send a copy to the local agency (if applicable).
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available online at [www.in.gov/idem/permits/air/permits/instructions/governmentsubmittal.html](http://www.in.gov/idem/permits/air/permits/instructions/governmentsubmittal.html).

**FOR OFFICE USE ONLY**

PERMIT NUMBER: \_\_\_\_\_

DATE APPLICATION WAS RECEIVED: \_\_\_\_\_

**IDEM - AIR  
PAID**

1. Tax ID Number: \_\_\_\_\_

**PART A - Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: Amsted Rail Company, Inc. 3. Plant ID: 089 - 0204

4. Billing Address: 4831 Hohmen Avenue  
 City: Hammond State: IN ZIP Code: 46327 - 1579

5. Permit Level:  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

6. Application Summary: Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Initial Permit              | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request              | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input checked="" type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure                | <input type="checkbox"/> Emission Reduction Credit Registry |  |

- |   |
|---|
| <input type="checkbox"/> Transition (between permit levels) From: _____ To: _____ |
| <input type="checkbox"/> Administrative Amendment                                 |
| <input type="checkbox"/> Company Name Change                                      |
| <input type="checkbox"/> Change of Responsible Official                           |
| <input type="checkbox"/> Correction to Non-Technical Information                  |
| <input type="checkbox"/> Notice Only Change                                       |
| <input type="checkbox"/> Other (specify): _____                                   |

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Modification: | <input type="checkbox"/> New Emission Unit or Control Device          | <input checked="" type="checkbox"/> Modified Emission Unit or Control Device |
|  | <input checked="" type="checkbox"/> New Applicable Permit Requirement | <input type="checkbox"/> Change to Applicability of a Permit Requirement     |
|  | <input type="checkbox"/> Prevention of Significant Deterioration      | <input type="checkbox"/> Emission Offset                                     |
|  | <input type="checkbox"/> MACT Preconstruction Review                  |  |
|  | <input type="checkbox"/> Minor Source Modification                    | <input type="checkbox"/> Significant Source Modification                     |
|  | <input type="checkbox"/> Minor Permit Modification                    | <input type="checkbox"/> Significant Permit Modification                     |
|  | <input type="checkbox"/> Other (specify): _____                       |  |

7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?  Yes  No
8. Is this an application for construction of a new emissions unit at an Existing Source?  Yes  No

HC 8625-30

CHK# 5878



| 1700 Walnut Street | Granite City, IL 62040  
(800) 621-8442 tel | (618) 452-7155 fax | [www.amstedrail.com](http://www.amstedrail.com)

February 29, 2012

Mr. Matthew Stuckey, Chief  
Air Permits Branch  
Indiana Department of Environmental Management  
100 N. Senate Avenue  
Indianapolis, Indiana

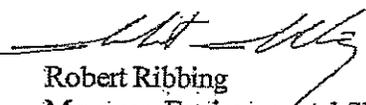
Re: Interim Permit Application for Amsted Rail Company, Inc.  
Plt. ID No. 089-00204

Dear Mr. Stuckey:

The attached Interim Permit application is for two new natural gas fired slot furnaces; one natural gas fired holding oven; one line 4 coil spring line quench tank controlled by a fabric filter; two water based surface coating dip tanks; one re-instated natural gas fired draw furnace; one shot peening unit controlled by a fabric filter; and the replacement of the electrostatic precipitator on the large line quench tank with a fabric filter. This application is being submitted in conjunction with a Title V Significant Source/ Permit Modification application for these units submitted on February 6, 2012 (T-089-31498-00204). Applicable state and federal rules are identified in the Petition for Interim Permit.

If you have questions regarding our application, please do not hesitate to contact me at (618) 225-6419, or contact Tom Rarick of ERM. at (317) 706-2003. ERM assisted us with the preparation of this application and the analyses contained in this letter.

Sincerely,  
Amsted Rail Company, Inc.

  
Robert Ribbing  
Manager, Environmental Shared Services

Cc: Hammond Department of Environmental Management

Enclosures

HC \$625.00 C# 5878



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

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

TO: Robert Ribbing  
Amsted Rail Company, Inc.  
1700 Walnut St  
Granite City, IL 62040

DATE: March 30, 2012

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

SUBJECT: Final Decision  
Interim  
089-31440i-00204

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

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

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

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

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

IDEM Staff	CDENNY 3/30/2012 Amsted Rail Company, Inc. 089-31440i-00204 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	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		

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		Robert Ribbing Amsted Rail Company, Inc. 1700 Walnut St Granite City IL 62040 (Source CAATS)										
2		David Sutherland Plant Mgr Amsted Rail Company, Inc. 4831 Hohman Ave Hammond IN 46327 (RO CAATS)										
3		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
5		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
7		Hammond City Council and Mayors Office 5925 Calumet Avenue Hammond IN 46320 (Local Official)										
8		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
9		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
10		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
11		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
12		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
13		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
14		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
15		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										

Total number of pieces Listed by Sender	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	CDENNY 3/30/2012 Amsted Rail Company, Inc. 089-31440i-00204 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	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		

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		Barbara G. 506 Lilac Street East Chicago IN 46312 (Affected Party)										
2		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
3		Tom Rarick Environmental Resources Management (ERM) 11350 N Meridian Suite 320 Carmel IN 46032 (Consultant)										
4		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
5		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
6		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
7		Ron Novak Hammond Dept. of Environmental Management 5925 Calumnet Ave. Hammond IN 46320 (Local Official)										
8		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
9		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)										
10		Susan Severtson City of Gary Law Dept. 401 Broadway 4th Floor Gary IN 46402 (Local Official)										
11		Jerry Sladek 1834 Summer Street Hammond IN 46320 (Affected Party)										
12												
13												
14												
15												

Total number of pieces Listed by Sender	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.
---	--	--	--