



August 25, 2016

CERTIFIED MAIL; RETURN RECEIPT REQUESTED

Certified No. 7016 0910 0001 3150 9579

Mr. William F. Durham
Director
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

Subject: NSR Permit and Title V Permit Modification
Jupiter Aluminum Corporation
Jupiter Coil Coating
Beech Bottom, West Virginia
NSR Permit No: R13-2379D
Title V Operating Permit No: R30-00900004-2012 (1 of 2)
IES Project No. EV161123.01

Dear Mr. Durham:

On behalf of Jupiter Aluminum Corporation (Jupiter), IES Engineers (IES) is pleased to submit the enclosed New Source Review (NSR) Permit and Title V Permit modification for its facility in Beech Bottom, West Virginia. One hard copy of the application package is attached. Two copies of this application package are being submitted on separate CDs.

Jupiter purchased Coating Line # 1 from Business Development Corporation in 2013 and the Department approved the transfer of NSR Permit No. R13-2379C and Operating Permit R30-00900004-2012 via letter dated June 14, 2013. These permits regulate Coating Line # 1 and Coating Line # 2. Since Jupiter only owns Coating Line # 1, Jupiter applied to split the operating permit into two permits and the NSR permit into two permits in August 2015. The Department approved this request and Jupiter currently has the following air permits:

1. NSR Permit No. R13-2379D (Coating Line # 1)
2. NSR Permit No. R13-3265 (Coating Line # 2)
3. Title V Permit No. R30-00900004-2012 (1 of 2) (Coating Line # 1)
4. Title V Permit No. R30-00900004-2012 (2 of 2) (Coating Line # 2)

Operating Permit No. R30-00900004-2012 (1 of 2) includes four 25.2-MMBtu/hr boilers. These boilers have been removed and replaced with one 8.65-MMBtu/hr natural gas-fired boiler, an

Mr. William F. Durham
August 25, 2016
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insignificant source, in year 2013. The four 25.2-MMBtu/hr boilers were not included in the NSR permit. Jupiter is submitting this permit application to include the 8.65-MMBtu/hr boiler in NSR Permit No. R13-2379D and Title V Permit No. R30-00900004-2012 (1 of 2) and to remove the four 25.2-MMBtu/hr boilers from Title V Permit No. R30-00900004-2012 (1 of 2). This application is being submitted based on guidance provided by Mr. John Legg of WVDEP, who identified the forms necessary to add this insignificant source to the permits.

We are enclosing a check in the amount of \$1,000 payable to the “WVDEP – Division of Air Quality” for the Department’s processing of this application.

We look forward to working with you during your review of this application. Please feel free to contact me or Mr. Mark Volkmann at (219) 933-2752 if you have any questions.

Sincerely,



Purva Prabhu
Senior Project Engineer

Attachments

cc: M. Volkmann, Jupiter
M. Fitzpatrick, IES
A. Soni, IES

IES Engineers, Inc

WV-DEP01 WV Dept of Environmental

DATE	INVOICE NO	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
8-23-16	16112301-0823	EV161123.01	1000.00	.00	1000.00

CHECK DATE	8-23-16	CHECK NUMBER	4677	TOTAL >	1000.00	DEDUCTION	.00	BALANCE	1000.00
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PLEASE DETACH AND RETAIN FOR YOUR RECORDS

FOR SECURITY PURPOSES, THE FACE OF THIS DOCUMENT CONTAINS A COLORED BACKGROUND AND MICROPRINTING IN THE BORDER

IES Engineers, Inc
1720 Walton Road
Blue Bell, PA 19422

The Bryn Mawr Trust Company
Bryn Mawr, Pennsylvania 19010

60-848
319

DATE August 23, 2016
CHECK NO. 4677
AMOUNT \$*****1,000.00

Pay: *****One thousand dollars and no cents

PAY TO THE ORDER OF
WV Dept of Environmental
Protection-Division Air Quality
601 57th Street
Charleston, WV 25304

Asheik

SECURITY FEATURES INCLUDED. DETAILS ON BACK

⑈000004677⑈ ⑆031908485⑆ ⑆543 9341⑈



1720 Walton Road Blue Bell, PA 19422 610-828-3078 Fax 610-828-7842

NSR PERMIT AND TITLE V PERMIT REVISION APPLICATION

PREPARED FOR:

**JUPITER ALUMINUM CORPORATION
JUPITER COIL COATING
BEECH BOTTOM, WEST VIRGINIA**

SUBMITTED TO:

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57TH STREET S.E.
CHARLESTON, WEST VIRGINIA 25304**

IES PROJECT NO. EV161123.01

AUGUST 2016

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Attachment L —	Emissions Unit Data Sheets (Indirect Heat Exchanger)
Attachment N —	Supporting Emission Calculations
Attachment P —	Public Notice
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Attachment 1 —	Marked up pages of Current Title V Operating Permit

NSR PERMIT AND TITLE V PERMIT REVISION APPLICATION



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
 601 57th Street, SE
 Charleston, WV 25304
 (304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT REVISION
(OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): Jupiter Aluminum Corporation		2. Federal Employer ID No. (FEIN): 3 6 3 8 0 5 4 7 8	
3. Name of facility (if different from above): Jupiter Coil Coating		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: 8963 River Road Wellsburg, WV, 26070		5B. Facility's present physical address: 8963 River Road Beech Bottom, WV, 26030	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO - If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A . - If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A .			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: Jupiter Aluminum Corporation			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the <i>proposed site</i> ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, please explain: Jupiter Aluminum Corporation leases the proposed site and is the owner of the equipment. - If NO, you are not eligible for a permit for this source.			
9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Metal Coil Coating facility		10. North American Industry Classification System (NAICS) code for the facility: 332812	
11A. DAQ Plant ID No. (for existing facilities only): 0 0 9 - 0 0 0 0 4		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-2379D and R30-00900004-2012 (1 of 2)	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits**, please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

Facility is located on the west side of West Virginia State Route 2, immediately south of the Village of Beech Bottom.

12.B. New site address (if applicable):

12C. Nearest city or town:

12D. County:

12.E. UTM Northing (KM):

12F. UTM Easting (KM):

12G. UTM Zone:

13. Briefly describe the proposed change(s) at the facility:

Jupiter Aluminum Corporation (Jupiter) purchased Coating Line # 1 from Business Development Corporation in 2013 and the Department approved the transfer of NSR Permit No. R13-2379C and Operating Permit R30-00900004-2012 via letter dated June 14, 2013. These permits regulate Coating Line # 1 and Coating Line # 2. Since Jupiter only owns Coating Line # 1, Jupiter applied to split the operating permit into two permits and NSR permit into two permits in August 2015. The Department approved the request and Jupiter currently has the following air permits:

1. NSR Permit No. R13-2379D (Coating Line # 1)
2. NSR Permit No. R13-3265 (Coating Line # 2)
3. Title V Permit No. R30-00900004-2012 (1 of 2) (Coating Line # 1)
4. Title V Permit No. R30-00900004-2012 (2 of 2) (Coating Line # 2)

Operating Permit No. R30-00900004-2012 (1 of 2) includes four 25.2-MMBtu/hr boilers. These boilers have been removed and replaced with one 8.65-MMBtu/hr natural gas-fired boiler, an insignificant source, in year 2013. The four 25.2-MMBtu/hr boilers were not included in the NSR permit. Jupiter is submitting this permit application to include the 8.65-MMBtu/hr boiler in NSR Permit No. R13-2379D and Title V Permit No. R30-00900004-2012 (1 of 2) and to remove the four 25.2-MMBtu/hr boilers from Title V Permit No. R30-00900004-2012 (1 of 2).

14A. Provide the date of anticipated installation or change:

- If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: **August 2013**

14B. Date of anticipated Start-Up if a permit is granted:

/ /

14C. Provide a **Schedule** of the planned **Installation of/Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:

Hours Per Day **24** Days Per Week **7** Weeks Per Year **52**

16. Is demolition or physical renovation at an existing facility involved? YES NO

17. **Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18. **Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (*if known*). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (*if known*). Provide this information as **Attachment D**.

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to **Plot Plan Guidance**).

- Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F**.

23. Provide a **Process Description** as **Attachment G**.
 – Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).
All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.
 – For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

<input type="checkbox"/> Bulk Liquid Transfer Operations	<input type="checkbox"/> Haul Road Emissions	<input type="checkbox"/> Quarry
<input type="checkbox"/> Chemical Processes	<input type="checkbox"/> Hot Mix Asphalt Plant	<input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities
<input type="checkbox"/> Concrete Batch Plant	<input type="checkbox"/> Incinerator	<input type="checkbox"/> Storage Tanks
<input type="checkbox"/> Grey Iron and Steel Foundry	<input checked="" type="checkbox"/> Indirect Heat Exchanger	
<input type="checkbox"/> General Emission Unit, specify		

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

<input type="checkbox"/> Absorption Systems	<input type="checkbox"/> Baghouse	<input type="checkbox"/> Flare
<input type="checkbox"/> Adsorption Systems	<input type="checkbox"/> Condenser	<input type="checkbox"/> Mechanical Collector
<input type="checkbox"/> Afterburner	<input type="checkbox"/> Electrostatic Precipitator	<input type="checkbox"/> Wet Collecting System
<input type="checkbox"/> Other Collectors, specify		

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.
 ➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?
 YES NO
 ➤ If **YES**, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "**Precautionary Notice – Claims of Confidentiality**" guidance found in the **General Instructions** as **Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

<input type="checkbox"/> Authority of Corporation or Other Business Entity	<input type="checkbox"/> Authority of Partnership
<input type="checkbox"/> Authority of Governmental Agency	<input type="checkbox"/> Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE Mark Volkman (Please use blue ink) DATE: 8/23/14 (Please use blue ink)

35B. Printed name of signee: **Mark Volkman** 35C. Title: **Environmental, Health & Safety Director**

35D. E-mail: **MVolkman@jupiteraluminum.com** 36E. Phone: **(219) 933-2752** 36F. FAX: **(219) 933-2724**

36A. Printed name of contact person (if different from above): **Purva Prabhu** 36B. Title: **Senior Project Engineer**

36C. E-mail: **pprabhu@iesengineers.com** 36D. Phone: **(610) 828-3078** 36E. FAX: **(610) 828-7842**

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input checked="" type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input type="checkbox"/> Attachment E: Plot Plan | <input type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input checked="" type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

ATTACHMENT A
BUSINESS CERTIFICATE

State of West Virginia



Certificate

*I, Natalie E. Tennant, Secretary of State of the
State of West Virginia, hereby certify that*

JUPITER ALUMINUM CORPORATION

Control Number: 9A003

a corporation formed under the laws of Illinois has filed its "Application for Certificate of Authority" to transact business in West Virginia as required by the provisions of the West Virginia Code. I hereby declare the organization to be registered as a foreign corporation from its effective date of April 12, 2013.

Therefore, I issue this

CERTIFICATE OF AUTHORITY

to the corporation authorizing it to transact business in West Virginia



*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
April 12, 2013*

Natalie E. Tennant

Secretary of State

ATTACHMENT I
EMISSION UNITS TABLE

ATTACHMENT J
EMISSION POINTS DATA SUMMARY SHEET

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (Chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
Boiler #5	upward vertical stack, rain cap	003-05	Natural Gas Fired Boiler	None	None	NA	NA	PM SO ₂ NO _x CO VOC HAPS CO ₂ N ₂ O CH ₄	0.06 0.005 0.843 0.708 0.05 0.016 1009.7 0.002 0.02	0.28 0.022 3.69 3.10 0.20 0.07 4422 0.01 0.08	0.28 0.005 0.843 0.708 0.05 0.016 1009.7 0.002 0.02	0.28 0.022 3.69 3.10 0.20 0.07 4422 0.01 0.08	Solid Gas/Vapor Gas/Vapor Gas/Vapor Gas/Vapor Gas/Vapor Gas/Vapor Gas/Vapor Gas/Vapor	AP-42 AP-42 AP-42 AP-42 AP-42 AP-42 40 CFR 98 40 CFR 98 40 CFR 98	12.81 0.38 87.45 120.7 18.44

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

- Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.
- Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (i.e., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).
- List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.
- Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).
- Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

ATTACHMENT K
FUGITIVE EMISSIONS DATA SUMMARY SHEET

Attachment K

FUGITIVE EMISSIONS DATA SUMMARY SHEET

The FUGITIVE EMISSIONS SUMMARY SHEET provides a summation of fugitive emissions. Fugitive emissions are those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening. Note that uncaptured process emissions are not typically considered to be fugitive, and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET.

Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions).

APPLICATION FORMS CHECKLIST - FUGITIVE EMISSIONS

1.) Will there be haul road activities?

Yes No

If YES, then complete the HAUL ROAD EMISSIONS UNIT DATA SHEET.

2.) Will there be Storage Piles?

Yes No

If YES, complete Table 1 of the NONMETALLIC MINERALS PROCESSING EMISSIONS UNIT DATA SHEET.

3.) Will there be Liquid Loading/Unloading Operations?

Yes No

If YES, complete the BULK LIQUID TRANSFER OPERATIONS EMISSIONS UNIT DATA SHEET.

4.) Will there be emissions of air pollutants from Wastewater Treatment Evaporation?

Yes No

If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.

5.) Will there be Equipment Leaks (e.g. leaks from pumps, compressors, in-line process valves, pressure relief devices, open-ended valves, sampling connections, flanges, agitators, cooling towers, etc.)?

Yes No

If YES, complete the LEAK SOURCE DATA SHEET section of the CHEMICAL PROCESSES EMISSIONS UNIT DATA SHEET.

6.) Will there be General Clean-up VOC Operations?

Yes No

If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.

7.) Will there be any other activities that generate fugitive emissions?

Yes No

If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET or the most appropriate form.

If you answered "NO" to all of the items above, it is not necessary to complete the following table, "Fugitive Emissions Summary."

FUGITIVE EMISSIONS SUMMARY	All Regulated Pollutants ¹ Chemical Name/CAS ¹	Maximum Potential Uncontrolled Emissions ²		Maximum Potential Controlled Emissions ³		Est. Method Used ⁴
		lb/hr	ton/yr	lb/hr	ton/yr	
Haul Road/Road Dust Emissions Paved Haul Roads						
Unpaved Haul Roads						
Storage Pile Emissions						
Loading/Unloading Operations						
Wastewater Treatment Evaporation & Operations						
Equipment Leaks		Does not apply		Does not apply		
General Clean-up VOC Emissions						
Other						

¹ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.

² Give rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

³ Give rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁴ Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

ATTACHMENT L
EMISSIONS UNIT DATA SHEETS (INDIRECT HEAT EXCHANGER)

Attachment L
Emission Unit Data Sheet
 (INDIRECT HEAT EXCHANGER)

Control Device ID No. (must match List Form): **NA**

Equipment Information

1. Manufacturer: Cleaver-Brooks	2. Model No. CB 200-150 Serial No. 92340
3. Number of units: One	4. Use Provide steam to heat various coating line cleaning tanks
5. Rated Boiler Horsepower: ~ 250 hp	6. Boiler Serial No.: 92340
7. Date constructed: 1987 (Installed at Jupiter Facility-August 2013)	8. Date of last modification and explain: NA
9. Maximum design heat input per unit: 8.65 ×10 ⁶ BTU/hr	10. Peak heat input per unit: 8.65 ×10 ⁶ BTU/hr
11. Steam produced at maximum design output: ~ 8625 LB/hr psig	12. Projected Operating Schedule: Hours/Day 24 Days/Week 7 Weeks/Year 52
13. Type of firing equipment to be used: <input type="checkbox"/> Pulverized coal <input type="checkbox"/> Spreader stoker <input type="checkbox"/> Oil burners <input checked="" type="checkbox"/> Natural Gas Burner <input type="checkbox"/> Others, specify	14. Proposed type of burners and orientation: <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Front Wall <input type="checkbox"/> Opposed <input type="checkbox"/> Tangential <input type="checkbox"/> Others, specify
15. Type of draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced	16. Percent of ash retained in furnace: NA %
17. Will flyash be reinjected? NA <input type="checkbox"/> Yes <input type="checkbox"/> No	18. Percent of carbon in flyash: NA %

Stack or Vent Data

19. Inside diameter or dimensions: 1.166 ft.	20. Gas exit temperature: ~ 373 °F
21. Height: 33 ft.	22. Stack serves: <input checked="" type="checkbox"/> This equipment only <input type="checkbox"/> Other equipment also (submit type and rating of all other equipment exhausted through this stack or vent)
23. Gas flow rate: ~ 2,645 actual ft ³ /min	
24. Estimated percent of moisture: ~ 10 %	

Emissions Stream

37. What quantities of pollutants will be emitted from the boiler before controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO	0.708			
Hydrocarbons	0.05			
NO _x	0.843			
Pb				
PM ₁₀	0.06			
SO ₂	0.005			
VOCs	0.05			
Other (specify) HAPs	0.016			

38. What quantities of pollutants will be emitted from the boiler after controls? **NA – No Control**

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO				
Hydrocarbons				
NO _x				
Pb				
PM ₁₀				
SO ₂				
VOCs				
Other (specify)				

39. How will waste material from the process and control equipment be disposed of?

No waste will be generated

40. Have you completed an *Air Pollution Control Device Sheet(s)* for the control(s) used on this Emission Unit.

NA- No control device

41. Have you included the *air pollution rates* on the Emissions Points Data Summary Sheet? **Yes**

42. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING PLAN: Please list (1) describe the process parameters and how they were chosen (2) the ranges and how they were established for monitoring to demonstrate compliance with the operation of this process equipment operation or air pollution control device.

Facility will monitor boiler operating schedule and quantity of natural gas fired.

TESTING PLAN: Please describe any proposed emissions testing for this process equipment or air pollution control device.

NA

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

Facility will keep records of the operating schedule and the quantity of natural gas burned in the boiler. These records will include the date and time of startup and shutdown, and the quantity of fuel consumed on a monthly basis.

REPORTING: Please describe the proposed frequency of reporting of the recordkeeping.

NA

43. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

NA

ATTACHMENT N
SUPPORTING EMISSION CALCULATIONS

Jupiter Aluminum Corporation
Potential to Emit Emission Calculations from 8.65 MMBtu/hr Boiler

Maximum Heat Input Rating 8.65 MMBtu/hr
 Heating Value 1026 Btu/scf
 Potential Operating Hours 8760 hr/yr
 Annual Fuel Usage 73.85 MMscf/yr
 Hourly Fuel usage 0.008431 MMscf/hr
 Flow 1,350 dscfm

AP-42 Emission Factors (lb/MMscf)⁽¹⁾	
Particulate matter	7.60
Sulfur Dioxide	0.60
Oxides of Nitrogen	100.00
Carbon Monoxide	84.00
Nonmethane Volatile Organic Compounds	5.50
All HAPs	1.89

GHG Emission factors from 40 CFR 98 Subpart C	
	kg/mmbtu
CO ₂	53.06
N ₂ O	0.0001
CH ₄	0.001

Annual Emissions (Potential)⁽²⁾	Emissions from Boiler			mg/m ³
	lb/hr	lb/yr	ton/yr	
Particulate matter	0.06	561	0.28	12.81
Sulfur Dioxide	0.005	44	0.022	
Oxides of Nitrogen	0.843	7,385	3.69	87.45
Carbon Monoxide	0.708	6,204	3.10	120.69
Volatile Organic Compounds	0.05	406	0.20	18.44
Total HAPs	0.016	140	0.07	
CO ₂	1,009.73	8,845,251	4,422.63	
N ₂ O	0.002	17	0.01	
CH ₄	0.02	167	0.08	

⁽¹⁾ Emission Factors for Natural Gas consumption are based on AP-42, "Compilation of Air Pollutant Emission Factors" Volume 1, Chapter 1.4, 7/98 update.

⁽²⁾ Potential annual emissions are based on an operating schedule of 8,760 hr/yr.

⁽³⁾ Emission factors for CO₂, N₂O, and CH₄ are taken from Table C-1 and Table C-2 to Subpart C of Part 98.

ATTACHMENT P
PUBLIC NOTICE

Note: Affidavit of publication will be submitted immediately upon receipt.

The following notice will be published in The Intelligencer on or about August 30, 2016.

**AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that Jupiter Aluminum Corporation has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Modification Permit for a 8.65 MMBtu/hr natural gas-fired boiler, an insignificant source, located on 8963 River Road, Beech Bottom, in Brooke County, West Virginia. The latitude and longitude coordinates are: 528.81 km Easting and 4452.42 km Northing.

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be:

Pollutants	Tons/year
Particulate matter	0.28
Sulfur Dioxide	0.022
Oxides of Nitrogen	3.69
Carbon Monoxide	3.10
Volatile Organic Compounds	0.20
Total HAPs	0.07

The boiler started operation around August 2013 timeframe. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the (Day) day of August, 2016.

By: Jupiter Aluminum Corporation
Jupiter Coil Coating
Mark Volkmann
Environmental, Health & Safety Director
1745 - 165th Street
Hammond, IN 46320

ATTACHMENT S
TITLE V PERMIT REVISION INFORMATION

Attachment S
Title V Permit Revision Information

1. New Applicable Requirements Summary	
Mark all applicable requirements associated with the changes involved with this permit revision:	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS (Subpart(s) _____)	<input type="checkbox"/> Section 112(d) MACT standards (Subpart(s) _____)
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64) ⁽¹⁾
<input type="checkbox"/> NO _x Budget Trading Program Non-EGUs (45CSR1)	<input type="checkbox"/> NO _x Budget Trading Program EGUs (45CSR26)
⁽¹⁾ If this box is checked, please include Compliance Assurance Monitoring (CAM) Form(s) for each Pollutants Specific Emission Unit (PSEU) (See Attachment H to Title V Application). If this box is not checked, please explain why Compliance Assurance Monitoring is not applicable:	

2. Non Applicability Determinations
<p>List all requirements, which the source has determined not applicable to this permit revision and for which a permit shield is requested. The listing shall also include the rule citation and a rationale for the determination.</p>
<input type="checkbox"/> Permit Shield Requested <i>(not applicable to Minor Modifications)</i>

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

3. Suggested Title V Draft Permit Language

Are there any changes involved with this Title V Permit revision outside of the scope of the NSR Permit revision? Yes No If Yes, describe the changes below.

Also, please provide **Suggested Title V Draft Permit language** for the proposed Title V Permit revision (including all applicable requirements associated with the permit revision and any associated monitoring /recordkeeping/ reporting requirements), OR attach a marked up pages of current Title V Permit. Please include appropriate citations (Permit or Consent Order number, condition number and/or rule citation (e.g. 45CSR§7-4.1)) for those requirements being added / revised.

Jupiter is requesting to remove four 25.2 MMBtu/hr boilers from Title V Permit No. R30-00900004-2012 (1 of 2). Please see Attachment 1 for marked up pages of current Title V Permit.

4. Active NSR Permits/Permit Determinations/Consent Orders Associated With This Permit Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
R13-2379D	08/26/2015	
	/ /	
	/ /	

5. Inactive NSR Permits/Obsolete Permit or Consent Orders Conditions Associated With This Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
	MM/DD/YYYY	
	/ /	
	/ /	

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY
Particulate matter	0.28
Sulfur Dioxide	0.022
Oxides of Nitrogen	3.69
Carbon Monoxide	3.10
Volatile Organic Compounds	0.20
Total HAPs	0.07

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

7. Certification For Use Of Minor Modification Procedures (Required Only for Minor Modification Requests)

Note: This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete. The criteria for allowing the use of Minor Modification Procedures are as follows:

- i. Proposed changes do not violate any applicable requirement;
- ii. Proposed changes do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- iii. Proposed changes do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient air quality impacts, or a visibility increment analysis;
- iv. Proposed changes do not seek to establish or change a permit term or condition for which there is no underlying applicable requirement and which permit or condition has been used to avoid an applicable requirement to which the source would otherwise be subject (synthetic minor). Such terms and conditions include, but are not limited to a federally enforceable emissions cap used to avoid classification as a modification under any provision of Title I or any alternative emissions limit approved pursuant to regulations promulgated under § 112(j)(5) of the Clean Air Act;
- v. Proposed changes do not involve preconstruction review under Title I of the Clean Air Act or 45CSR14 and 45CSR19;
- vi. Proposed changes are not required under any rule of the Director to be processed as a significant modification;

Notwithstanding subparagraph 45CSR§30-6.5.a.1.A. (items i through vi above), minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in rules of the Director which are approved by the U.S. EPA as a part of the State Implementation Plan under the Clean Air Act, or which may be otherwise provided for in the Title V operating permit issued under 45CSR30.

Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed): 	Date: <u>8 / 23 / 16</u>
<i>(Please use blue ink)</i>	<i>(Please use blue ink)</i>
Named (typed): Mark Volkmann	Title: Environmental, Health & Safety Director

Note: Please check if the following included (if applicable):

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Compliance Assurance Monitoring Form(s) |
| <input checked="" type="checkbox"/> | Suggested Title V Draft Permit Language |

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

ATTACHMENT 1

MARKED UP PAGES OF CURRENT TITLE V OPERATING PERMIT

Table of Contents

1.0. Emission Units and Active R13, R14, and R19 Permits..... 3

2.0. General Conditions..... 4

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Source-specific Requirements

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1.0 Emission Units and Active R13, R14, and R19 Permits

1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Boilers					
003-01	Boiler #1	Cleaver Brooks natural gas boiler	1960	25.2 MMBTU/hr	None
003-02	Boiler #2	Cleaver Brooks natural gas boiler	1960	25.2 MMBTU/hr	None
003-03	Boiler #3	Cleaver Brooks natural gas boiler	1960	25.2 MMBTU/hr	None
003-04	Boiler #4	Cleaver Brooks natural gas boiler	1960	25.2 MMBTU/hr	None
Coating Line #1					
001-01	Surface Cleaning Section	Three hot rinse tanks, cold rinse tank, phosphoric acid rinse tank, zinc phosphating tank, cleaner, brush machine, and pre-clean tanks.	1960	N/A	None
001-02	Drying Oven	Natural gas fired oven to remove water from steel strip after exiting the cleaning tanks and chrome roll coater and prior to application of the primer coat.	1960	4 MMBTU/hr	None
1S	11E	CCL #1 Primer coating application room	2005	12 gal/hr	3C
2S	11E	CCL #1 Finish coating application room	2005	58 gal/hr	3C
7S	11E	CCL #1 Primer Curing Oven	2005	(3) 5 MMBTU/hr	3C
8S	11E	CCL #1 Finish Curing Oven	2005	(3) 5 MMBTU/hr	3C
Control Devices					
3C	11E	CCL #1 Regenerative Thermal Oxidizer	2005	(2) 9 MMBTU/hr	N/A

1.2 Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-2379D	8/31/2015

4.0 Boilers [emission unit ID(s): 003-01, 003-02, 003-03, 003-04]

4.1. Limitations and Standards

- 4.1.1. No person shall cause, suffer, allow, or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

[45CSR§2-3.1.]

- 4.1.2. No person shall cause, suffer, allow, or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined as follows:

For Type 'b' fuel burning units, the product of 0.09 and the total design heat inputs for such units in million BTU's per hour, provided however that no more than six hundred (600) pounds per hour of particulate matter shall be discharged into the open air from all such units. The heat input of the four boilers is 25.2 million BTU's per hour each. The calculated allowable particulate emission rate for the four boilers is 2.27 lbs/hr each.

[45CSR§2-4.1.b.]

- 4.1.3. At all times, including periods of start-ups, shutdowns and malfunctions, owners and operators shall, to the extent practicable, maintain and operate any fuel burning unit(s) including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, visible emission observations, review of operating and maintenance procedures and inspection of the source.

[45CSR§2-9.2.]

- 4.1.4. No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

For Type 'b' and Type 'c' fuel burning units, the product of 3.1 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour. The heat input of the four boilers are 25.2 million BTU's per hour. The calculated allowable sulfur dioxide emission rate for the four boilers is 78.12 lbs/ hr each.

[45CSR§10-3.1.e.]

4.2. Monitoring Requirements

- 4.2.1. N/A

4.3. Testing Requirements

- 4.3.1. N/A

4.4. Recordkeeping Requirements

- 4.4.1. The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule, and the quality and quantity of fuel burned in each fuel burning unit as specified below:

For fuel burning unit(s) which burn only pipeline quality natural gas, such records shall include, but not be limited to, the date and time of start-up and shutdown, and the quantity of fuel consumed on a monthly basis.

[45CSR§2A-7.1.a.]

4.5. Reporting Requirements

4.5.1. N/A

4.6. Compliance Plan

4.6.1. N/A