

SECTION 2.1
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Air Quality Division
1110 West Washington • Phoenix, AZ 85007 • Phone: (602) 771-2338

STANDARD CLASS I PERMIT APPLICATION FORM

(As required by A.R.S. § 49-426, and Chapter 2, Article 3, Arizona Administrative Code)

1. Permit to be issued to (Business license name of organization that is to receive permit):
Aluminum Dynamics, Inc.
2. Mailing Address: 7575 West Jefferson Blvd
City: Fort Wayne State: IN ZIP: 46804
3. Name (or names) of Owners/ Principals: Steel Dynamics, Inc.
Phone: (260) 469-4394 Fax: _____ Email: Bill.Kautz@steeldynamics.com
4. Name of Owner's Agent: Bill Kautz
Phone: (260) 469-4394 Fax: _____ Email: Bill.Kautz@steeldynamics.com
5. Plant/Site Manager/ Contact Person and Title: Bill Glaser
Phone: (870) 776-0849 Fax: _____ Email: Bill.Glaser@aluminumdynamicsllc.com
6. Plant Site Name: Aluminum Dynamics, Inc.
7. Plant Site Location Address: TBD
City: Benson County: Cochise Zip Code: 85602
Indian Reservation (if applicable, which one): _____
Latitude/ Longitude, Elevation: 31° 57' 33.8" N 110° 16' 56.4" W
Section/ Township/ Range: 17S 20E 15
8. General Nature of Business: Used Beverage Can (UBC) Recycling (Secondary Aluminum Production)
9. Type of Organization:
 Corporation Individual Owner Partnership Government Entity (Government Facility Code-----)
 Other _____
8. Permit Application Basis: New Source Revision Renewal of Existing Permit
(Check all that apply.)
For renewal or modification, include existing permit number (and exp. _____
date): Date of Commencement of Construction or Modification: TBD
Primary Standard Industrial Classification Code: ~~3411~~ 3341 (Secondary Smelting and Refining of Nonferrous Metals)
9. I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by ADEQ as public record. I also attest that I am in compliance with the applicable requirements of the Permit and will continue to comply with such requirements and any future requirements that become effective during the life of the Permit. I will present a certification of compliance to ADEQ no less than annually and more frequently if specified by ADEQ. I further state that I will assume responsibility for the construction, modification,

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or operation of the source in accordance with Arizona Administrative Code, Title 18, Chapter 2 and any permit issued thereof.

Signature of Responsible Official: _____

Official Title of Signer: Operations Manager

Typed or Printed Name of Signer: Bill Glaser

Date: _____ Telephone Number: (870)-776-0849

SECTION 2.2 - EMISSION SOURCES

Estimated "Potential to Emit" per A.A.C. R18-2-101.

Review of applications and issuance of permits will be expedited by supplying all necessary information on this Table.

REGULATED AIR POLLUTANT DATA					EMISSION POINT DISCHARGE PARAMETERS									
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM	AIR POLLUTANT EMISSION RATE		UTM COORDINATES OF EMISSION POINT [5]			STACK SOURCES [6]			NONPOINT			
NUMBER	NAME	REGULATED AIR POLLUTANT NAME [2]	#/HR. [3]	TONS/YEAR [4]	ZONE	EAST (Mtrs)	NORTH (Mtrs)	HEIGHT ABOVE GROUND (feet)	HEIGHT ABOVE STRUC. (feet)	EXIT DATA			SOURCES [7]	
										DIA (ft.)	VEL. (fps)	TEMP. (°F)	LENGTH (ft.)	WIDTH (ft.)
Refer to EU	Index in Appendix B	Refer to Detailed Potential Emission Calculations in Sections 1-14			Source Locations	Stack Parameters, Dimensions for Non-Stack Sources, and Plant Grade								
					Elevation will be provided as Appendices to the mNSR Modeling Report being submitted under separate cover									

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL _____ feet
 ADEQ STANDARD CONDITIONS ARE 293K AND 101.3 KILOPASCALS (A.A.C. R18-2-101)

****Submit emission calculations spreadsheet with your application****

General Instructions:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on plot plan, previous permits, and Emissions Inventory Questionnaire. Include fugitive emissions. Limit emission point number to eight (8) character spaces. For each emission point use as many lines as necessary to list regulated air pollutant data. Typical emission point names are: heater, vent, boiler, tank, reactor, separator, baghouse, fugitive, etc. Abbreviations are O.K.
2. Components to be listed include regulated air pollutants as defined in A.A.C. R18-2-101. Examples of typical component names are: Carbon Monoxide (CO), Nitrogen Oxides (NO_x), Sulfur Dioxide (SO₂), Volatile Organic Compounds (VOC), particulate matter (PM), particulate less than 10 microns (PM₁₀), etc. Abbreviations are O.K.
3. Pounds per hour (#/HR) is maximum potential emission rate expected by applicant.
4. Tons per year is annual maximum potential emission expected by applicant, which takes into account process operating schedule.
5. As a minimum applicant shall furnish a facility plot plan as described in the filing instructions. UTM coordinates are required only if the source is a major source or is required to perform refined modeling for the purposes of demonstrating compliance with ambient air quality guidelines.
6. Supply additional information as follows if appropriate:
 - (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
 - (b) Stack's height above supporting or adjacent structures if structure is within 3 "stack height above the ground" of stack.
7. Dimensions of nonpoint sources as defined in A.A.C. R18-2-101.

Section 2.3 Equipment List							
Type of Equipment	Maximum Rated Capacity	Units	Make	Model	Serial Number	Date of Manufacture	Equipment ID Number
Scrap Processing							
Scrap Processing System #1	33	ton/hr	TBD	TBD	TBD	TBD	001-1
Melting and Casting							
Decoater Furnace #1	27.6	ton/hr	G&P	TBD	TBD	TBD	002-1 through 002-2
	30.2	MMBtu/hr					
Melting Furnace #1	14.3	ton/hr	G&P	TBD	TBD	TBD	003-1 through 003-2
	38.0	MMBtu/hr					
Melting Furnace #2	14.3	ton/hr	G&P	TBD	TBD	TBD	004-1 through 004-2
	38.0	MMBtu/hr					
Holding Furnace #1	34.4	ton/hr	G&P	TBD	TBD	TBD	005-1 & 005-2
	30.0	MMBtu/hr					
In-Line Degasser #1	34.4	ton/hr	TBD	TBD	TBD	TBD	006-1
Sow Dryer	4.8	ton/hr	G&P	TBD	TBD	TBD	007-1
Filter Box Preheater	0.18	MMBTU/hr	TBD	TBD	TBD	TBD	010-1
Dross House	1.4	ton/hr	TBD	TBD	TBD	TBD	008-1 & 008-2
Dross Press	1.4	ton/hr	TBD	TBD	TBD	TBD	009-1
Baghouses							
Cold Baghouse #1	90,885	scfm	ETA Engineering	TBD	TBD	TBD	BH1
Hot Baghouse #1	71,704	scfm	ETA Engineering	TBD	TBD	TBD	BH2
Hot Baghouse #2	69,474	scfm	ETA Engineering	TBD	TBD	TBD	BH3
Hot Baghouse #3	104,211	scfm	ETA Engineering	TBD	TBD	TBD	BH4
Dross House Baghouse	64,918	scfm	ETA Engineering	TBD	TBD	TBD	BH5
Cooling Towers							
Cooling Tower 1	3,500	gpm	TBD	TBD	TBD	TBD	011-1
Cooling Tower 2	1,500	gpm	TBD	TBD	TBD	TBD	012-1
Emergency Generator Engines - Insignificant Activity							
Emergency Generator 1	26	kW	Kohler	CH 1006 4-Cycle	TBD	TBD	N/A
Silos and Storage Bins							
Lime Silo	0.075	ton/hr	APC Systems	TBD	TBD	TBD	013-1
Fuel Tanks - Insignificant Activities							
Diesel Storage Tank	1,000	gal	Convault	TBD	TBD	TBD	N/A
Gasoline Storage Tank	500	gal	Convault	TBD	TBD	TBD	N/A
Gasoline Dispensing Facilities - Insignificant Activities							
Diesel Dispensing Facility	5,209	gal/hr	TBD	TBD	TBD	TBD	N/A
Gasoline Dispensing Facility	417	gal/hr	TBD	TBD	TBD	TBD	N/A

All relevant equipment utilized at the facility should be included in the equipment list. Please complete all fields.

The date of manufacture must be included in order to determine applicability of regulations.

Indicate the units (tons/hour, horsepower, etc.) when recording the maximum rated capacity.

Make additional copies of this form if necessary.

SECTION 4.0 - APPLICATION ADMINISTRATIVE COMPLETENESS CHECKLIST

	REQUIREMENT	MEETS REQUIREMENTS			COMMENT
		YES	NO	N/A	
1	Has the standard application form been completed?	X			Section 2.1 of this form
2	Has the responsible official signed the standard application form?				
3	Has a process description been provided?	X			Section 4 of the application
4	Are the facility's emissions documented with all appropriate supporting information?	X			Appendix A of the application
5	Is the facility subject to Minor NSR requirements? If the answer is "YES", answer 6a, 6b and 6c as applicable. If the answer is "NO", skip to 7.	X			Section 9 of the application
6.a	If the facility chooses to implement RACT, is the RACT determination included for the affected pollutants for all affected emission units?			X	Facility will perform modeling in lieu of RACT
6.b	If the facility chooses to demonstrate compliance with NAAQS by screen modeling, is the modeling analysis included?			X	
6.c	If refined modeling has been conducted, is a comprehensive modeling report along with all modeling files included?	X			Provided under separate cover
7	Does the application include an equipment list with the type, name, make, model, serial number, maximum rated capacity, and date of manufacture?	X			Appendix A
8	Does the application include an identification and description of Pollution Controls? (if applicable)	X			Section 8 of application
9	For any application component claimed as confidential, are the requirements of AR.S. 49-432 and A.A.C. R18-2-305 addressed?			X	
10	For any current non-compliance issue, is a compliance schedule attached?			X	
11	For minor permit revision that will make a modification upon submittal of application, has a suggested draft permit been attached?			X	
12	For major sources, have all applicable requirements been identified?	X			Section 9 of application
13	For major sources, has a CAM applicability analysis been provided? For CAM applicable units, have CAM plans been provided?	X			Section 9 of application
14	For major sources subject to requirements under Article 4 of the A.A.C., have all necessary New Source Review analyses identified in the application been presented?	X			Section 9 of application