

FACILITY PERMIT TO OPERATE LIGHT METALS INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: SCRAP DRYING OPERATION					
HOPPER, DUMP, NO. A, ALUMINUM A/N: 242132	D1			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, SURGE, NO. C, ALUMINUM A/N: 242132	D3			PM: (9) [RULE 405, 2-7-1986]	D323.1
CRUSHER, NO. D, ALUMINUM A/N: 242132	D4			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, DRAG, NO. E, ALUMINUM A/N: 242132	D5			PM: (9) [RULE 405, 2-7-1986]	D323.1
DRYER, ROTARY, NO. 1, NATURAL GAS, 0.5 MMBTU/HR A/N: 435743	D6	C9 C23	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart RRR, 4-20-2006]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.2, D323.1
HOPPER, WITH MAGNETIC SEPARATOR A/N: 435743	D31			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, DRAG A/N: 435743	D32			PM: (9) [RULE 405, 2-7-1986]	D323.1
DRYER, ROTARY, NO. 2, NATURAL GAS, ALUMINUM CHIPS AND BORINGS, 1.2 MMBTU/HR A/N: 435744	D24	C15 C16 C25	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart RRR, 4-20-2006]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.1, D323.1
Process 2: MELTING OPERATIONS					

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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Process 2: MELTING OPERATIONS					
System 1: ALUMINUM MELTING					
FURNACE, REVERBATORY, NO. A, NATURAL GAS, OXY-FUEL, ALUMINUM, WITH LOW NOX BURNER, 10 MMBTU/HR WITH A/N: 457754	D11	C15 C16 C50	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart RRR, 4-20-2006]; NOX: 43.69 LBS/MMSCF OXY-FUEL (2) [RULE 2012, 5-6-2005]; NOX: 60 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; NOX: 79.03 LBS/MMSCF OXY-FUEL (2A) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A99.1, A99.3, B59.2, C1.3, C1.4, C1.7, D323.1, E54.1, E57.1
CHARGING WELL	D54	C50			
INJECTOR, NO. L, CHLORINE					
BURNER, NATURAL GAS, OXY-FUEL, BOC GASES INC., MODEL FLAT JET TM, WITH LOW NOX BURNER, 2 TOTAL; 5 MMBTU/HR					

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

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Process 2: MELTING OPERATIONS					
FURNACE, MELTING, REVERBATORY, #B, OXY-FUEL, ALUMINUM, 180,000 POUNDS CAPACITY, WITH LOW NOX BURNER, 16 MMBTU/HR WITH A/N: 457756	D21	C50	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart RRR, 4-20-2006]; NOX: 9.01 LBS/MMSCF OXY-FUEL (2) [RULE 2012, 5-6-2005]; NOX: 22.91 LBS/MMSCF OXY-FUEL (2A) [RULE 2012, 5-6-2005]; NOX: 60 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A99.2, A99.4, B59.2, C1.6, D323.1
CHARGING WELL INJECTOR, 2 TOTAL, CHLORINE BURNER, OXY-FUEL, BOC FLAT JET TYPE, WITH LOW NOX BURNER, 2 TOTAL; 8 MMBTU/HR	D55	C50			
Process 4: AIR POLLUTION CONTROL					
AFTERBURNER, NO.1, NATURAL GAS, HARSELL, TWO NORTH AMERICAN BURNERS, 3.2 MMBTU/HR A/N: 449815	C9	D6 C23	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C8.2, D12.1, D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Process 4: AIR POLLUTION CONTROL					
AFTERBURNER, NO. 2, NATURAL GAS, 6.204 MMBTU/HR A/N: 449816	C25	C15 C16 D24	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C8.2, D12.1, D323.1
BAGHOUSE, NO. 1, HARSELL ENGINEERING, THREE SECTIONS, 9150 SQ.FT.; 144 BAGS WITH INJECTOR, WITH DRY LIMESTONE INJECTION A/N: 449813	C15	D11 D24 C25		PM: (9) [RULE 404, 2-7-1986]	A72.1, C6.1, C6.4, C8.1, D12.3, D322.1, D381.1, E71.2, E102.1, K67.1, K67.4
BAGHOUSE, NO. 2, HARSELL ENGINEERING, FOUR SECTIONS, 12200 SQ.FT.; 192 BAGS WITH INJECTOR, WITH DRY LIMESTONE INJECTION A/N: 451415	C16	D11 D24 C25		PM: (9) [RULE 404, 2-7-1986]	A72.1, C6.1, C6.4, C8.1, D12.3, D322.1, D381.1, E71.2, E102.1, K67.1, K67.4

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Process 4: AIR POLLUTION CONTROL					
BAGHOUSE, NO. 3, WHEELABRATOR, MODEL 126-D, THREE SECTIONS, AUTOMATIC SHAKER SYSTEM, 20274 SQ.FT.; 1056 BAGS WITH A/N: 475493 INJECTOR, WITH DRY LIMESTONE INJECTION	C23	D6 C9		PM: (9) [RULE 404, 2-7-1986]	A72.1, C6.1, C6.4, C8.1, D12.3, D322.2, D381.2, E71.1, E102.1, K67.3, K67.4
BAGHOUSE, NO. 4, ICA REES, MODEL 4-2400, VENTS ONE ALUMINUM DROSS BUILDING AND CRUCIBLE FURNACE, 10053 SQ.FT. A/N: 449818	C39	D52		PM: (9) [RULE 404, 2-7-1986]	C6.1, C409.1, D12.3, D322.3, D381.1, E102.1, K67.1
BAGHOUSE, NO. 6, PANGBORN, MODEL 5-456 CT, MECHANICAL SHAKER, VENTING CHARGE WELL AND HEARTH, 33630 SQ.FT.; 2280 BAGS WITH A/N: 478854 INJECTOR, WITH DRY LIMESTONE INJECTION	C50	D11 D21 D42 D54 D55		PM: (9) [RULE 404, 2-7-1986]	A72.1, C6.2, C6.4, C8.1, D12.3, D322.2, D381.1, E69.1, E102.1, K67.1, K67.4
STORAGE BUILDING, DROSS, WITH AN INSIDE TRUCK LOADING DOCK, WIDTH: 63 FT ; HEIGHT: 17 FT 10 IN; LENGTH: 48 FT 6 IN A/N: 401949	D52	C39			A101.1, D12.5, D381.1, E71.3, E440.1, K67.5
Process 5: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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Process 5: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E36			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-9-2004; RULE 1171, 11-7-2003; RULE 1171, 5-6-2005]	K67.2
Process 6: HOLDING OPERATIONS					
System 1: ALUMINUM					
FURNACE, HOLDING, REVERBATORY, NATURAL GAS, ALUMINUM, 69,000 POUNDS CAPACITY, WITH LOW NOX BURNER, 5 MMBTU/HR WITH A/N: 454024 BURNER, NATURAL GAS, ECLIPSE COMBUSTION, MODEL 500 TJ, WITH LOW NOX BURNER, 5 MMBTU/HR PUMP CONVEYOR	D42	C50	NOX: PROCESS UNIT**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart RRR, 4-20-2006]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]	B59.1, D323.1, E147.1, E147.2, E147.3

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE LIGHT METALS INC

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE
 LIGHT METALS INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
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D3	1	1	0
D4	1	1	0
D5	1	1	0
D6	1	1	0
C9	3	4	0
D11	2	2	1
C15	4	4	0
C16	4	4	0
D21	3	2	1
C23	5	4	0
D24	1	1	0
C25	4	4	0
D31	1	1	0
D32	1	1	0
E36	6	5	0
C39	5	4	0
D42	6	6	1
C50	5	4	0
D52	5	4	0
D54	2	2	1
D55	3	2	1