FACILITY PERMIT TO OPERATE

AEROCRAFT HEAT TREATING CO INC
15701 MINNESOTA AVE
PARAMOUNT, CA 90723

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By_____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	DRAFT	02/03/2012
B	RECLAIM Annual Emission Allocation	DRAFT	02/03/2012
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	DRAFT	02/03/2012
E	Administrative Conditions	DRAFT	02/03/2012
F	RECLAIM Monitoring and Source Testing Requirements	DRAFT	02/03/2012
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	DRAFT	02/03/2012
H	Permit To Construct and Temporary Permit to Operate	DRAFT	02/03/2012
I	Compliance Plans & Schedules	DRAFT	02/03/2012
J	Air Toxics	DRAFT	02/03/2012
K	Title V Administration	DRAFT	02/03/2012
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	DRAFT	02/03/2012
B	Rule Emission Limits	DRAFT	02/03/2012

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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: ABRASIVE BLASTING OF METAL PARTS					
BAGHOUSE, PULSE JET, CLOTH FILTER, DUST HOG, MODEL SDB-32-4, WITH 40 H.P. FAN, 9920 SQ.FT.; 32 CARTRIDGE A/N: 364214	C34			**PM**: (9) **[RULE 404, 2-7-1986]**	D12.1, E102.1
Process 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 20, NATURAL GAS, 4.56 MMBTU/HR A/N: 191710	D10		NOX: PROCESS UNIT**	**CO**: 2000 PPMV NATURAL GAS (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 NATURAL GAS (5) **[RULE 409, 8-7-1981]**	
FURNACE, HEAT TREATING, NO. 14, NATURAL GAS, WITH LOW NOX BURNER, 8.4 MMBTU/HR WITH A/N: 398675 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-1-A, WITH LOW NOX BURNER, 16 TOTAL; 0.525 MMBTU/HR	D12		NOX: PROCESS UNIT**	**CO**: 2000 PPMV NATURAL GAS (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 407, 4-2-1982]**	B59.1, D29.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 5, NATURAL GAS, WITH LOW NOX BURNER, 3.456 MMBTU/HR WITH A/N: 390309 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442CS-4-F, WITH LOW NOX BURNER, 8 TOTAL; 0.432 MMBTU/HR	D15		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.1
FURNACE, HEAT TREATING, NO. 1, NATURAL GAS, 4.6 MMBTU/HR A/N: 191703	D17		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]**	B59.1
TANK, QUENCH, MINERAL OIL, 33000 GALS A/N: 191702	D18			**PM**: (9) **[RULE 404, 2-7-1986]**	
TANK, QUENCH, MINERAL OIL, 14000 GALS A/N: 191701	D19			**PM**: (9) **[RULE 404, 2-7-1986]**	

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 15, NATURAL GAS, WITH LOW NOX BURNER, 8 MMBTU/HR WITH A/N: 418508 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-4-A, WITH LOW NOX BURNER, 16 TOTAL; 0.5 MMBTU/HR	D22		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; *RULE 1303(a)(1)-BACT, 12-6-2002*]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.1, D29.1
FURNACE, HEAT TREATING, NO. 11, NATURAL GAS, WITH LOW NOX BURNER, 8 MMBTU/HR WITH A/N: 407679 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-4-A, WITH LOW NOX BURNER, 16 TOTAL; 0.5 MMBTU/HR	D25		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; *RULE 1303(a)(1)-BACT, 12-6-2002*]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.1, D29.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 2, NATURAL GAS, WITH LOW NOX BURNER, 2.08 MMBTU/HR WITH A/N: 390313 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442CS-3-F, WITH LOW NOX BURNER, 8 TOTAL; 0.26 MMBTU/HR	D28		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.1
FURNACE, HEAT TREATING, NO. 9, NATURAL GAS, WITH LOW NOX BURNER, 2.08 MMBTU/HR WITH A/N: 390314 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442CS-3-F, WITH LOW NOX BURNER, 8 TOTAL; 0.26 MMBTU/HR	D30		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 22, NATURAL GAS, WITH LOW NOX BURNER, 6.608 MMBTU/HR WITH A/N: 390307 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-5-ASH/F, WITH LOW NOX BURNER, 8 TOTAL; 0.826 MMBTU/HR	D36		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; *RULE 1303(a)(1)-BACT, 12-6-2002*]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D29.1
FURNACE, HEAT TREATING, NO. 8, NATURAL GAS, WITH LOW NOX BURNER, 1.864 MMBTU/HR WITH A/N: 390317 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442-4-F, WITH LOW NOX BURNER, 4 TOTAL; 0.466 MMBTU/HR	D38		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; *RULE 1303(a)(1)-BACT, 12-6-2002*]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D29.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 10, NATURAL GAS, WITH LOW NOX BURNER, 1.864 MMBTU/HR WITH A/N: 390318 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442-4-F, WITH LOW NOX BURNER, 4 TOTAL; 0.466 MMBTU/HR	D40		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	D29.1
FURNACE, HEAT TREATING, NO. 16, NATURAL GAS, WITH LOW NOX BURNER, 1.624 MMBTU/HR WITH A/N: 390319 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4225-7-BZ, WITH LOW NOX BURNER, 2 TOTAL; 0.812 MMBTU/HR	D42		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 12, NATURAL GAS, WITH LOW NOX BURNER, 3.456 MMBTU/HR WITH A/N: 390320 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442CS-4-F, WITH LOW NOX BURNER, 8 TOTAL; 0.432 MMBTU/HR	D44		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; NOX: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; NOX: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; PM: (9) **[RULE 404, 2-7-1986]**; PM: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.1
FURNACE, HEAT TREATING, NO. 21, NATURAL GAS, WITH LOW NOX BURNER, 3.456 MMBTU/HR WITH A/N: 390321 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4442CS-4-F, WITH LOW NOX BURNER, 8 TOTAL; 0.432 MMBTU/HR	D46		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; NOX: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; NOX: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; PM: (9) **[RULE 404, 2-7-1986]**; PM: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 24, NATURAL GAS, WITH LOW NOX BURNER, 4 MMBTU/HR WITH A/N: 416760 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-4-A, WITH LOW NOX BURNER, 8 TOTAL; 0.5 MMBTU/HR	D50		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, C1.2, D29.1
FURNACE, HEAT TREATING, NO. 25, NATURAL GAS, WITH LOW NOX BURNER, 6.608 MMBTU/HR WITH A/N: 462057 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-5-ASH/F, WITH LOW NOX BURNER, 8 TOTAL; 0.826 MMBTU/HR	D52		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.2

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 2: METAL HEAT TREATING					
FURNACE, HEAT TREATING, NO. 18, NATURAL GAS, WITH LOW NOX BURNER, 1 MMBTU/HR WITH A/N: 462059 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-3-ASH/F, WITH LOW NOX BURNER, 2 TOTAL; 0.5 MMBTU/HR	D54		NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) **[RULE 407, 4-2-1982]**; **NOX**: 50 PPMV NATURAL GAS (4) **[RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 50 PPMV NATURAL GAS (3) **[RULE 2012, 5-6-2005]**; **PM**: (9) **[RULE 404, 2-7-1986]**; **PM**: 0.1 GRAINS/SCF (5) **[RULE 409, 8-7-1981]**	B59.1, D29.2
Process 3: Rule 219 Exempt Equipment Subject to Source Specific Requirement					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E35			**ROG**: (9) **[RULE 1113, 11-8-1996;** *RULE 1113, 7-13-2007;* **RULE 1171, 11-7-2003;** *RULE 1171, 5-1-2009*]	
RULE 219 EXEMPT EQUIPMENT, FURNACE, HEAT TREAT, SMALL BOILERS, WATER HEATERS AND PROCESS HEATERS, >1 MMBTU/HR AND <= 2 MMBTU/HR, 2 TOTAL	E58			**CO**: 400 PPMV NATURAL GAS (5A) **[RULE 1146.2, 5-5-2006]**; **CO**: 2000 PPMV NATURAL GAS (5) **[RULE 407, 4-2-1982]**; **NOX**: 30 PPMV NATURAL GAS (5) **[RULE 1146.2, 5-5-2006]**; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) **[RULE 2012, 5-6-2005]**; **PM**: 0.1 GRAINS/SCF NATURAL GAS (5) **[RULE 409, 8-7-1981]**	B59.1

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 4: PLASMA CUTTER					
BAGHOUSE, TORIT, MODEL DFT-4-16, 4064 SQ.FT.; 16 CARTRIDGE WITH A/N: 454822	C56	D57		**PM: (9) [RULE 405, 2-7-1986]**	D12.1, E102.1, E175.1
FILTER, PRE-FILTERS, 4 TOTAL, WIDTH: 2 FT ; LENGTH: 2 FT	C59			**PM: (9) [RULE 405, 2-7-1986]**	
FILTER, HEPA, 4 TOTAL, WIDTH: 2 FT ; LENGTH: 2 FT	C60				
PLASMA ARC CUTTER, KOIKE ARONSON, MODEL PLP 2500, 30 KWH A/N:	D57	C56		**PM: (9) [RULE 404, 2-7-1986]**	A433.1, B59.1, C1.3, C1.4, E57.1
Process 5: INTERNAL COMBUSTION ENGINES					

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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 5: INTERNAL COMBUSTION ENGINES					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, NATURAL GAS, GENERAC POWER SYSTEMS, MODEL 4.3GN, 56 BHP WITH A/N:	D61	C62	NOX: PROCESS UNIT**	**CO**: 2 GRAM/BHP-HR NATURAL GAS (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **NOX**: 1.5 GRAM/BHP-HR NATURAL GAS (4) [**RULE 2005, 5-6-2005;** *RULE 2005, 6-3-2011*]; **NOX**: 448 LBS/MMSCF NATURAL GAS (1) [**RULE 2005, 5-6-2005;** *RULE 2005, 6-3-2011*]; **PM**: (9) [**RULE 404, 2-7-1986**]; **VOC**: 1.5 GRAM/BHP-HR NATURAL GAS (4) [**RULE 1303(a)(1) -BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]	D12.2, E116.1, E448.1, E448.2, I296.1, K67.1
CO OXIDATION CATALYST, 3-WAY, DCL AMERICA, MINE-X MODEL DC44-2, WITH AN AIR/FUEL RATIO CONTROLLER	C62	D61			

* (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.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO 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
AEROCRAFT HEAT TREATING CO INC

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D10	1	2	0
D12	1	2	0
D15	2	2	0
D17	2	2	0
D18	2	2	0
D19	2	2	0
D22	3	2	0
D25	3	2	0
D28	4	2	0
D30	4	2	0
C34	1	1	0
E35	9	3	0
D36	5	2	0
D38	5	2	0
D40	6	2	0
D42	6	2	0
D44	7	2	0
D46	7	2	0
D50	8	2	0
D52	8	2	0
D54	9	2	0
C56	10	4	0
D57	10	4	0
E58	9	3	0
C59	10	4	0
C60	10	4	0
D61	11	5	0
C62	11	5	0

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

F30.1 For the purpose of exemption from Title V requirements, the total emissions from this facility shall not equal or exceed the following specified amounts:

Pollutant	Emission Limit (Tons in any 12 consecutive calendar-month period)
NOx	10

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

a). If the total facility emissions for any of the specified pollutant amounts are in exceedance in any 12 consecutive calendar-month period, or if the facility operator fails to comply with the following requirements, the Facility Permit holder shall submit a Title V Permit application package and obtain a Title V permit pursuant to the requirements specified in Rule 3003. To ensure compliance with the emission limit(s) of this condition, the facility operator shall:

i). determine emissions according to the requirements of Rule 2011 for SOx emissions and Rule 2012 for NOx emissions, as applicable;

ii). in addition to complying with all applicable monitoring, recordkeeping and reporting requirements of Regulation XX, monitor and record on a monthly basis the total facility emissions, excluding emissions identified in Rule 3000(b)(28)(D) and (E), for each 12 consecutive month period, and

iii). for any 12 consecutive month period in which emissions do not comply with an emission limit in this condition, submit to AQMD within 15 days a report of noncompliance and the total subject emissions from the facility for the preceding 12 consecutive calendar-month period.

b). For the purpose of determining compliance with the emission limit(s), the total emissions from this facility shall be equal to the emissions recorded each month by the facility, including any corrections as allowed by Rule 2004, and including any corrections resulting from an AQMD audit of this facility.

c). The provisions of this condition are the sole method of determining compliance with the facility emission limit(s) of this condition.

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A433.1 The operator shall not use in this equipment any toxic air contaminants (TAC) identified in SCAQMD Rule 1401, Table 1 with a date of listing of September 10, 2010 or earlier, except as identified below up to the following maximum content limits::

TAC	Limit	Content (%)
Manganese	Less Than or Equal To	16 percent by weight for Iron Alloy (RA330) and 10 percent by weight for 304 Stainless Steel
Nickel	Less Than or Equal To	99 percent by weight for Iron Alloy (RA330) and 22 percent by weight for 304 Stainless Steel
Chrome, Hexavalent	Less Than or Equal To	33 percent by weight for Iron Alloy (RA330) and 27 percent by weight for 304 Stainless Steel
Phosphorous	Less Than or Equal To	0.2 percent by weight for 304 Stainless Steel
Selenium Compounds	Less Than or Equal To	0.35 percent by weight for 304 Stainless Steel

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D57]

B. Material/Fuel Type Limits

B59.1 The operator shall not use the following material(s) in this device :

Metal contaminated with rubber, plastic, paper, rags, oil, grease

Smoke producing material

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D12, D15, D17, D22, D25, D28, D30, D36, D38, D42, D44, D46, D50, D52, D54, D57, E58]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the fuel usage to no more than 1.79208e+06 cubic feet per month.

[Devices subject to this condition : D22, D25]

C1.2 The operator shall limit the fuel usage to no more than 900000 cubic feet per month.

[Devices subject to this condition : D50]

C1.3 The operator shall limit the material processed to no more than 18,528 feet in any one year.

For the purpose of this condition, material processed shall be defined as combined total linear feet of Iron Alloy (RA330) and 304 Stainless Steel.

The operator shall limit the material processed to 11,704 linear feet per year of Iron Alloy (RA330) and 6,824 linear feet per year of 304 Stainless Steel.

To comply with this condition, the operator shall maintain records of the material type used and the amount in linear feet processed by this equipment.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D57]

C1.4 The operator shall limit the material processed to no more than 3,088 feet in any one calendar month.

For the purpose of this condition, material processed shall be defined as combined total linear feet of Iron Alloy (RA330) and 304 Stainless Steel.

The operator shall limit the material processed to 1,950 linear feet per calendar month of Iron Alloy (RA330) and 1,138 linear feet per calendar month of 304 Stainless Steel.

To comply with this condition, the operator shall maintain records of the material type used and the amount in linear feet processed by this equipment.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D57]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter.

[Devices subject to this condition : C34, C56]

D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[Devices subject to this condition : D61]

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District method	1 hour	Outlet

The test shall be conducted every five-year period, with the first five-year period ending June 30, 2005.

The test shall be conducted within 12 months of the approval of the concentration limit.

[Devices subject to this condition : D12, D15, D22, D25, D28, D30, D36, D38, D40, D42, D44, D46, D50]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District method	1 hour	Outlet

The test shall be conducted every five-year period, with the first five-year period ending June 30, 2010.

The test shall be conducted within 12 months of the approval of the concentration limit.

[Devices subject to this condition : D52, D54]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E57.1 The operator shall vent this equipment to air pollution control equipment which is in full use and has been issued a permit to operate by the executive officer whenever this equipment is in operation.

[Devices subject to this condition : D57]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[Devices subject to this condition : C34, C56]

E116.1 This engine shall not be used as part of a demand response program using interruptible service contract in which a facility receives a payment or reduced rates in return for reducing its electric load on the grid when requested to do so by the utility or the grid operator.

[Devices subject to this condition : D61]

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

HEPA filters individually DOP (*or equivalent) tested with 0.3 micron particles and certified to have an efficiency of not less than 99.97%

[Devices subject to this condition : C56]

E448.1 The operator shall comply with the following requirements:

The engine shall be operated to a maximum of 200 hours per calendar year and shall be operated to a maximum of 50 hours per year for regular maintenance and testing.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D61]

E448.2 The operator shall comply with the following requirements:

Operation beyond the alloted time for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the utility distribution company has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage.

Engine operation shall be terminated immediately after the utility distribution company advices that a rotating outage is no longer imminent or in effect.

[Devices subject to this condition : D61]

I. Administrative

I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

For the purposes of this condition, the annual emission increase is 54 lbs. of NOx

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

FACILITY PERMIT TO OPERATE
AEROCRAFT HEAT TREATING CO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D61]

K. Record Keeping/Reporting

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The operation shall keep a log of engine operations documenting the time the engine is operating each month and the specific reason for operation as: Emergency Use, Maintenance and Testing, or Other. In addition, for each time the engine is manually started the log shall include the date of engine operation, the specific reason for operation, and the totalizing hour meter reading (in hours and tenths of hours) at the beginning and end of the operation.

On or before January 15th of each year, the operator shall record in the engine operating log the total hours of operation for the previous calendar year. Engine operation log(s) shall be retained on site for a minimum of 5 calendar years shall be made available to the executive officer or representative upon request.

[Devices subject to this condition : D61]