

# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

April 26, 2012

Mr. James Scannell  
Vice President  
Aerocraft Heat Treating Co. Inc.  
15701 Minnesota Ave.  
Paramount, CA 90723

Dear Mr. Scannell:

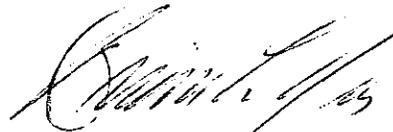
**SUBJECT:** RECLAIM/Title V Facility Permit Revision (Facility ID: 023752)

Please find the attached revised Title Page, Table of Contents, and Section D of your RECLAIM/Title V Facility Permit. The revised sections reflect the approval of the permit revision requested in your Application No. 531175. The proposed permit revision was submitted to EPA for 45-day review on February 3, 2012. This permit revision includes the addition of the following equipment:

Equipment	Appl. No.	Device No.	Process	Permit Type
Emergency ICE	531176	D61	5	PO

Please review the attached sections carefully. Insert the enclosed sections into your RECLAIM/Title V Facility Permit and discard the earlier version. Questions concerning changes to your permit should be directed to Mr. Michael Solis at (909) 396-3277.

Sincerely,



Brian L. Yeh  
Senior Manager  
Mechanical, Chemical, and Public Services

BLY:ms  
Attachment

cc: Gerardo Rios, EPA Region IX

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## FACILITY PERMIT TO OPERATE

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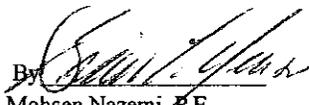
**AEROCRAFT HEAT TREATING CO INC  
15701 MINNESOTA AVE  
PARAMOUNT, CA 90723**

### 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**

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## 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
<b>Process 1: ABRASIVE BLASTING OF METAL PARTS</b>					
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
<b>Process 2: METAL HEAT TREATING</b>					
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  
 (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

\*\* 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**

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 2: METAL HEAT TREATING</b>					
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  
(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

\*\* 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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: METAL HEAT TREATING</b>					
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  
 (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.)  
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: METAL HEAT TREATING</b>					
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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 2: METAL HEAT TREATING</b>					
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
  - (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.)
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## FACILITY PERMIT TO OPERATE AEROCRAFT HEAT TREATING CO INC

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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
<b>Process 2: METAL HEAT TREATING</b>					
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

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2 METAL HEAT TREATING</b>					
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

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>(3) Denotes RECLAIM concentration limit<br/>(5) (5A) (5B) Denotes command and control emission limit<br/>(7) Denotes NSR applicability limit<br/>(9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>(4) Denotes BACT emission limit<br/>(6) Denotes air toxic control rule limit<br/>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>(10) See section J for NESHAP/MACT requirements</p> |
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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
<b>Process 2: METAL HEAT TREATING</b>					
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
<b>Process 3: Rule 219 Exempt Equipment Subject to Source Specific Requirement</b>					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E35			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 6-3-2011; 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  
 (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

\*\* 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
<b>Process 4 PLASMA CUTTER</b>					
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: 526576	D57	C56		PM: (9) [RULE 404, 2-7-1986]	A433.1, B59.1, C1.3, C1.4, E57.1

\* (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.

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

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**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

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## FACILITY PERMIT TO OPERATE AEROCRAFT HEAT TREATING CO INC

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### 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

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## FACILITY PERMIT TO OPERATE AEROCRAFT HEAT TREATING CO INC

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### 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 SO<sub>x</sub> emissions and Rule 2012 for NO<sub>x</sub> 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

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## FACILITY PERMIT TO OPERATE AEROCRAFT HEAT TREATING CO INC

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### 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]

- 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

**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:**

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**

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]



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

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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

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

[Devices subject to this condition : C34, C56]

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]