

## FACILITY PERMIT TO OPERATE HITCO CARBON COMPOSITES INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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 9 : AUTOCLAVES/HYDROCLAVES</b>					
AUTOCLAVE, CUSTOM MADE, THERMAL EQUIP. CORP., 24 FT DIA. X 75 FT., NATURAL GAS, 100 H.P. COMBUSTION BLOWER, 1000 H.P. AUTOCLAVE FAN, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 24 MMBTU/HR WITH A/N:  BURNER, NATURAL GAS, NORTH AMERICAN MFG., MODEL 4796-18, MAGNA-FLAME, WITH LOW NOX BURNER, 24 MMBTU/HR	D203		NOX: LARGE SOURCE**	<p><b>CO:</b> 2000 PPMV NATURAL GAS (5) [RULE 409,8-7-1981] ;  <b>CO:</b> 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]</p> <p><b>NOX:</b> 30 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ;  <b>NOX:</b> 30 PPMV NATURAL GAS (3) [RULE 2012,5-6-2005] ;  <b>PM:</b> 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 407,4-2-1982]</p> <p><b>PM:</b> (9) [RULE 404,2-7-1986]</p>	A63.3, B59.9, D28.2, D328.2, E133.1, E440.1, K40.1, K67.9

\* (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  
HITCO CARBON COMPOSITES INC**

**SECTION H: 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 HITCO CARBON COMPOSITES INC

## SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D203	1	9	0

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

#### FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
Single Volatile Hazardous Air Pollutant (VHAP)	Less than 10 TONS IN ANY 12-MONTH PERIOD
Combination of Volatile Hazardous Air Pollutants (VHAPs)	Less than 25 TONS IN ANY 12-MONTH PERIOD

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

**[40CFR 63 Subpart GG, 4-20-2006]**

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.

**[RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

**[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]**

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

- F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

### DEVICE CONDITIONS

#### A. Emission Limits

- A63.3 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than 81 LBS IN ANY ONE DAY

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D127, C128, D135, D164-D180, D185-D191, D193-D195, and non-combustion emissions from D203.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D203]

#### B. Material/Fuel Type Limits

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

B59.9 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in Rule 1401, Table 1 with an effective date of March 4, 2005 or earlier.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D203]

#### **D. Monitoring/Testing Requirements**

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted within 90 days of the approval of the test protocol by the District, but no later than 180 days after initial start-up.

The test shall be conducted pursuant to a source test protocol that shall be submitted to the District no later than 60 days after the initial start-up of this equipment unless otherwise approved by the District. The test protocol shall be approved in writing by the District before the test commences. The test protocol shall include the completed District Forms ST-1 and ST-2, identity of the testing laboratory, a statement from the lab certifying it meets District Rule 304(k) and include details of sampling and analytical procedures.

The test shall be conducted to determine the oxides of nitrogen, carbon monoxide, volatile organic compounds, oxygen content, flow rate, and temperature at the exhaust of the autoclave.

The test shall be conducted after a written notice of the source tests shall be submitted to the District Engineer Shailesh Patel at least 14 days prior to source testing date so that an observer from the District may be present.

The test shall be conducted by a testing laboratory certified by the California Air Resources Board in the required test methods for criteria pollutants to be measured, and in compliance with District Rule 304 (no conflict of interest).

The test shall be conducted using sampling facilities that comply with the District guidelines for construction of sampling and testing facilities, pursuant to Rule 217.

[**RULE 1303(a)(1)-BACT, 5-10-1996**; **RULE 1303(a)(1)-BACT, 12-6-2002**; **RULE 2005, 5-6-2005**]

[Devices subject to this condition : D203]

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### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

D328.2 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with CO limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D203]

#### **E. Equipment Operation/Construction Requirements**

E133.1 The operator shall maintain an interlock so that the burner can only be operated between 6.0 MM BTU/HR AND 24 MM BTU/HR firing rates, except during the start-up and shut-down periods.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D203]

E440.1 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall have the burner equipped with a control system to automatically regulate the combustion air, fuel, and, if applicable, recirculated flue gas as the load varies. The control system shall be adjusted and tuned at least once a year according to the manufacturers specifications to maintain its ability to repeat the same performance at the same firing rate

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D203]

#### **K. Record Keeping/Reporting**

## **FACILITY PERMIT TO OPERATE HITCO CARBON COMPOSITES INC**

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

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Two completed copies of the source test reports shall be submitted to the District within 60 days after the source testing date. The test report shall include, but not limited to, all testing data required by this condition.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D203]

K67.9 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

In addition to the recordkeeping requirements in Rule 109, the operator shall keep adequate records of the materials processed in this equipment and the resultant VOC emissions on a daily basis to verify compliance with all permit conditions

The operator shall maintain adequate records for a period of five years to verify compliance with all the permit conditions

**[RULE 109, 5-2-2003; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D203]