STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF AIR MANAGEMENT

 Address: Gilman Equipment Locat: 	The Gilman Brothers Co. Road, Gilman, Connecticu ion: Gilman Road, Gilman, iption (Model, I.D. #): Cl	t 06336 Connecticut	: 06336 s Boiler	
PERMIT TO:				
_✓ Construct	Operate Modify	Date Issued	Exp. Date	
FEDERAL REQUIREMENTS	:	8/11/98		
NSPS (40 CFR Pa	rt 60) Subpart:	Town No.	Premise No.	
NESHAPS (40 CFR	Part 61) Subpart:	13	1	
MACT (40 CFR Pa	rt 63) Subpart:	Permit No.	Stack No.	
OZONE NON-ATTAINMENT	STATUS:	0005	5,	
	•	Permit Fee		
severe (Major so	urce if VOC or NOx > 25 TPY)	\$1000.00		
	source if VOC or NOx > 50 TPY)			
INTERNAL COMBUSTION	ENGINES ONLY:			
Emergency use o	nly			
Non-emergency u	se, including self generati	.on		
	TYPE OF POLLUTANT FOR WHI	CH THIS PREMI	SE IS A "MAJOR	
SOURCE CLASS:	TSP SOX NOX CO VOC	PM-10 LEAI	O OTHER	
New Source Major Mod Minor Mod Aggregate)	

ARTHUR J. ROCOUE, JR.

COMMISSIONER, PEPARTMENT OF
ENVIRONMENTAL PROTECTION
OR DESIGNATED AGENT

STATE OF CONNECTICUT, DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF AIR MANAGEMENT

The conditions on all pages of this permit and attached appendices shall be verified at all times except those noted as design specifications. Design specifications need not be verified on a continuous basis; however, if requested by the Commissioner, demonstration of compliance shall be shown.

PART I. OPERATIONAL CONDITIONS
1. Fuel Type(s): A 50%-50% blend of #2 and #4 Oil, blended by fuel dealer 2. Maximum Fuel Consumption over any Consecutive Twelve (12) Month Period: 65,500 gallons 3. Fuel Sulfur Content (% by weight, dry basis): 0.6% or less
Design Specifications
1. Maximum Fuel Firing Rate(s): 60 gallons per hour 2. Maximum Gross Heat Input (MM BTU/hr): 8.369 3. Minimum Stack Height (ft): 28 4. Minimum Exhaust Gas Flow Rate (acfm): 1700 5. Stack Exit Temperature (°F): 300 6. Minimum Distance from Stack to Property Line (ft): 375
PART II. CONTROL EQUIPMENT (Applicable if -√- Checked) (See Appendix E for Specifications)
A. Type
✓ None Selective Non-Catalytic Reduction Scrubber Selective Catalytic Reduction Electrostatic Precipitator Low NOx Burner Cyclone Fabric Filter Multi-Cyclone Particulate Trap Thermal DeNOx Other
B. Minimum Efficiency
1. Capture Efficiency (%):
FIRM NAME: Gilman Brothers Co. EQUIPMENT LOCATION: Gilman Road, Gilman, Connecticut 06336 EQUIPMENT DESCRIPTION (MODEL, I.D. #): Cleaver Brooks Boiler Model CB100-200

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PART III. CONTINUOUS EMISSION MONITORING REQUIREMENTS AND ASSOCIATED EMISSION LIMITS (Applicable if -/- Checked)

CEM shall be required for the following pollutant/operational parameters and enforced on the following basis:

Pollutant/Operational Parameter	Averaging <u>Times</u>	Emission Limit	<u>Units</u>
✓ None Opacity SOx NOx CO CO₂ O₂ Temperature	six minute bloc 3 hour rolling 24 hour rolling 1 hour block 1 hour block 1 hour block continuous	k	

(See Appendix A for General Requirements)

PART IV. MONITORING, REPORTING AND RECORD KEEPING REQUIREMENTS

- 1. Annual fuel consumption shall be based on any consecutive twelve (12) month time period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous eleven (11) months. The Permittee shall make these calculations monthly.
- 2. The Permittee shall use a non-resettable totalizing fuel metering device to continuously monitor fuel feed to this permitted source.
- 3. Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. The Permittee shall maintain records of each shipping receipt and certification.
- 4. The Permittee shall keep records on premise indicating continual compliance with all above conditions at all times and shall make them available for inspection upon request by the Commissioner for the duration of this permit, or for the previous three (3) years, whichever is less.

FIRM NAME: Gilman Brothers Co.
EQUIPMENT LOCATION: Gilman Road, Gilman, Connecticut 06336
EQUIPMENT DESCRIPTION (MODEL, I.D. #): Cleaver Brooks Boiler Model CB100-200

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PART V. ALLOWABLE EMISSION LIMITS

The Permittee shall not exceed the emission limits stated herein at any time.

Criteria <u>Pollutants</u>	#/MM_BTU	MASC * (ug/m³)	<u>тру</u>
PM-10 SOX NOX VOC CO Pb	0.031 0.656 0.143 0.002 0.036 1.11e-04	5442.63	0.142 2.999 0.655 0.011 0.164 5.07e-04
Non-Criteria <u>Pollutants</u>			
Sulfuric Acid Formaldehyde Nickel Arsenic Beryllium Cadmium Chromium Copper Mercury	0.009	36284.21 21770.53 9071.05 90.71 18.14 725.68 18142.11 36284.21 1814.21	

^{*}maximum allowable stack concentration

Demonstration of compliance with the above emission limits shall be met by calculating the emission rates using emission factors from the following sources:

- 1. Criteria and toxic emission factors: Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition, Section 1.3, Fuel Oil Combustion, Tables 1.3-2, 1.3-4, & 1.3-11, January 1995.

 2. Copper emission factor: David P. LaRiviere, APCE memo on Toxic Emission
- Factors for Oil-Fired Boilers, 7/9/93.

The above statement shall not preclude the Commissioner from requiring other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation.

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PART VI. STACK EMISSION TEST REQUIREMENTS (Applicable if -/- Checked)
Stack emission testing shall be required for the following pollutant(s):
TSP SOx NOx CO
VOC PM-10 Pb
Other (HAPS):,
(See Appendix B for General Requirements)
PART VII. APPLICABLE REGULATORY REFERENCES (The Regulations of Connecticut State Agencies)
22a-174-3(a), (b), (f); 22a-174-18; 22a-174-19; 22a-174-29(b); 22a-174-22
These references are not intended to be all inclusive - other sections of the Regulations may apply.
PART VIII. SPECIAL REQUIREMENTS
 The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations.
2. Noise (for non-emergency use)
The Permittee shall operate this facility at all times in a manner so as not to violate or contribute significantly to the violation of any applicable state noise control regulations, as set forth in Sections 22a-69-1 through 22a-69-7.4 of the Regulations of Connecticut State Agencies.
3. The Permittee shall comply with all applicable sections of the following New Source Performance Standard(s) at all times. (Applicable if $-\checkmark$ -checked)
40 CFR Part 60, Subpart Db Dc GG A
FIRM NAME: Gilman Brothers Co.
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PART IX. ADDITIONAL TERMS AND CONDITIONS

- Upon completion of construction, the permittee shall certify to the Commissioner, in writing, that the facility has been constructed in accordance with the terms and conditions of its construction permit. Upon the Commissioner's approval of the certification and confirmation that the facility is constructed in accordance with its construction permit, the Commissioner shall issue a permit to operate.
- This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the regulated activity in compliance with all applicable requirements of any federal, municipal or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- Any representative of the DEP may enter the permittee's site in accordance with constitutional limitations at all reasonable times without prior notice, for the purposes of inspecting, monitoring and enforcing the terms and conditions of this permit and applicable state
- This permit may be revoked, suspended, modified or transferred in accordance with applicable law.
- This permit is subject to and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut and conveys no property rights in real estate or material, nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby. This permit shall neither create nor affect any rights of persons or municipalities who are not parties to this permit.
- Any document, including any notice, which is required to be submitted to the Commissioner under this permit shall be signed by a duly authorized representative of the permittee and by the person who is responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in the documents and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense." Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense in accordance with Connecticut General Statutes \$22a-6, under \$53a-157 of the Connecticut General Statutes.

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PART IX. ADDITIONAL TERMS AND CONDITIONS, continued:

- 7. Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.
- 8. Within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the correct or omitted information to the Commissioner.
- 9. The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.
- 10. Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of Assistant Director; Engineering & Enforcement; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

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