



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Pages 2 through 12 are hereby incorporated by reference into this permit

ORIGINAL

Town No. 213	Premise No. 1	Permit No. 0032	Stack No. 29
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Equipment Classification <input checked="" type="checkbox"/> Fuel Burning <input type="checkbox"/> Incinerator <input type="checkbox"/> Process Mfg. Other _____	Date Issued 11/6/91 Date Revised 11/5/96	Expiration Date (none unless noted)
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PERMIT TO: Construct Operate Other Final Permit to Operate
Revised on 11/5/96 from 10/29/93

FEDERAL REQUIREMENTS: NSPS (40 CFR PART 60) Subpart Db
 NESHAP (40 CFR PART 61) Subpart _____
 MACT (40 CFR PART 63) Subpart _____

OZONE NON-ATTAINMENT STATUS: Severe (Major Source if VOC or NOx > 25 TPY)
 Serious (Major Source if VOC or NOx > 50 TPY)

TYPE OF POLLUTANT FOR WHICH A PREMISE IS A "MAJOR SOURCE": SOx NOx CO TSP VOC PM-10

SOURCE CLASS: New Source Minor Modification Major Modification Aggregate

TRANSFERRED TO:
ALgonquin WINDSOR Lock LLC
2 ELM ST
WINDSOR Locks, CT 06096

Equipment Description NEBRASKA MODIFIED TYPE A BOILER	ENGINEER: <u>NZN</u> DATE: <u>6/12/03</u>
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Location of Equipment (No. & Street, Town, Zip) TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096

Firm Name DEXTER CORPORATION COGENERATION FACILITY



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ORIGINAL

TOWN NO. 213	PREMISE NO. 1	PERMIT NO. 0032	STACK NO. 29
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EQUIPMENT CLASSIFICATION		DATE ISSUED 11/6/91	EXPIRATION DATE (NONE UNLESS NOTED)
<input checked="" type="checkbox"/> FUEL BURNING	<input type="checkbox"/> INCINERATOR	Date Revised 11/5/96	
<input type="checkbox"/> PROCESS MFG.		OTHER _____	

THE FOLLOWING SHALL BE CONSTRUCTED/OPERATED IN ACCORDANCE WITH THE SPECIFICATIONS LISTED IN THE PERMIT APPLICATION, WITH THE TERMS OF THE PERMIT LETTER, AND WITH ALL APPLICABLE SECTIONS OF THE CONNECTICUT "ADMINISTRATIVE REGULATIONS" FOR THE ABATEMENT OF AIR POLLUTION."

EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

This permit is being issued pursuant to Section 22a-174-3 of the Regulations of Connecticut State Agencies (hereinafter referred to as "Regulations") and pursuant to the Clean Air Act and U.S. Environmental Protection Agency's (U.S. EPA) Prevention of Significant Deterioration Regulations (PSD) (40 CFR Part 52.21) under the authority granted to the Connecticut Department of Environmental Protection (hereinafter referred to as "The Department") by the U.S. EPA on September 29, 1982.

MAXIMUM RATED CAPACITY:

Nebraska Boiler:

Natural Gas: 177.6 MM BTU/hr
No. 2 Fuel Oil: 170.1 MM BTU/hr

FUEL CONSUMPTION, MAXIMUM FIRING RATES:

Nebraska Boiler:

Natural Gas: 172,427 cf/hr
No. 2 Fuel Oil: 1206 gal/hr (if operated concurrently with gas turbine and the other Nebrasks boiler, the combined maximum firing rate of the boilers is limited to 1206 gal/hr)

EMISSION LIMITS:

Gas Burning Case Oil Burning Case

NOx Nebraska Boiler	29 ppmvd @ 15% O ₂	52 ppmvd @ 15% O ₂
SOx Nebraska Boiler	0.11 ppmvd @ 15% O ₂ *	53 ppmvd @ 15% O ₂

*Enforceable through stack testing or analysis of natural gas by supplier.

RECORDS INDICATING CONTINUAL COMPLIANCE WITH ALL ABOVE CONDITIONS MUST BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE UPON DEPARTMENTAL REQUEST FOR THE DURATION OF THIS PERMIT.

FIRM NAME
DEXTER CORPORATION COGENERATION FACILITY

LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096

	COMMISSIONER OR HIS REPRESENTATIVE
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PERMIT IS INVALID UNLESS SIGNED BY APPLICANT, SUCH SIGNATURE CONSTITUTING AGREEMENT TO THE CONDITIONS IN THIS PERMIT.

BUREAU OF AIR MANAGEMENT - PERMITS



**STATE OF CONNECTICUT
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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

While combusting natural gas, SOx continuous emissions monitoring alarms shall be set at 10% of scale (20 ppmvd @ 15% O₂).

FUEL SPECIFICATIONS: No. 2 fuel oil; maximum sulfur in fuel limit 0.28% by weight.

STACK HEIGHT: 177' above grade

PROPERTY LINE DISTANCE FROM STACK: 250'

NOx CONTROL: Low NOx burners with efficient combustion controls

MINIMUM FLOW AT MAXIMUM OPERATION: 49,836 ACFM

EXHAUST TEMPERATURE: 325° F Boiler

MONITORING REQUIREMENTS/OPERATING PARAMETERS

- This source is subject to all monitoring requirements specified in Title 40 of the Code of Federal Regulations Part 60 (40 CFR 60) Subpart Db, Standards of Performance for Industrial Steam Generating Units, as may be amended from time to time, except as stated herein.

A Continuous Emissions monitoring (CEM) system shall be maintained and operated, as specified in Section 2 of this permit, for the following pollutants: nitrogen oxides (NOx), expressed as nitrogen dioxide (NO₂), sulfur oxides (SOx), expressed as sulfur dioxide (SO₂), oxygen (O₂) or carbon dioxide (CO₂) and opacity. All SO₂ and NO₂ data shall be corrected to a dry basis and 15% O₂ and shall be recorded in 1-hour block averages. Opacity shall be recorded in 6 minute block averages. O₂ or CO₂ shall be recorded in 1-hour block averages.

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FIRM NAME **DEXTER CORPORATION COGENERATION FACILITY**

LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ORIGINAL

TOWN NO. 213	PREMISE NO. 1	PERMIT NO. 0032	STACK NO. 29
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EQUIPMENT CLASSIFICATION		DATE ISSUED 11/8/91	EXPIRATION DATE (NONE UNLESS NOTED)
<input checked="" type="checkbox"/> FUEL BURNING	<input type="checkbox"/> INCINERATOR	Date Revised 11/5/96	
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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

MONITORING REQUIREMENTS/OPERATING PARAMETERS, Continued:

Enforcement of the emission limits for these pollutants shall be based on the following averaging periods:

<u>Pollutant</u>	<u>Enforcement Averaging Period</u>
SO ₂ and NO _x	one 1-hr block average > permit limit
Opacity	one instantaneous value > 40% <u>OR</u>
	one 6-minute block average > permit limit

The CEM sampling probe for this boiler is located in the ductwork of the boiler prior to exhaust to the stack.

A continuous monitoring system (CMS) shall be maintained and operated, as specified in Section 2 of this permit, for all operating parameters and air pollution control parameters necessary to determine compliance with the limits in this permit. This shall include, but not be limited to, a CMS to monitor and record the fuel consumption of this boiler in accordance with 40 CFR 60 Subpart Db, Section 60.49b(d) requirements.

- Reporting Requirements: CEM and CMS data required by this permit shall be maintained at the site and made available upon request by Department representatives. Records shall be maintained on-site for a period of two (2) years or longer if so indicated by subsequent permits.

The owner/operator of this boiler shall submit to the CEM Group of The Department, a quarterly summary and excess emissions report as specified in 40 CFR 60 Subpart Db, Section 60.49b.

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LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

MONITORING REQUIREMENTS/OPERATING PARAMETERS, Continued:

The quarterly reports shall be supplemented with the monthly submittal of raw CEM data on 5 1/4" or 3 1/2", ASCII readable floppy diskette. The Department's format for these submittals is outlined in Connecticut's Continuous Emissions Monitoring Guideline document.

The owner/operator of this boiler shall review all recorded data daily and report to The Department within three (3) working days any exceedance of an allowable emission limit or apparent deviation from any conditions of this or any subsequent permit. CEM data for NO₂, SO₂, opacity and O₂ or CO₂ shall be capable of being telemetered to The Department in accordance with Connecticut's remote telemetry program requirements. The Connecticut Continuous Emissions Monitoring Guideline document outlines all Department requirements for the remote telemetry program. Remote telemetry alarms and shut down of the boiler shall be based on the following averaging periods:

Telemetry Alarm Levels and Shutdown Limits

SO₂ and NO_x Alarm: 3 consecutive 1 hr block averages > permit limit
 Shutdown: 24 consecutive 1 hour block averages > permit limit

Opacity Alarm: 20 consecutive 6 min block averages > permit limit OR 2 consecutive 6 min block averages > 40%
 Shutdown: 5 consecutive 6 minute block averages > 40%

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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

MONITORING REQUIREMENTS/OPERATING PARAMETERS, Continued:

All CEM equipment, CMS and recorders shall be installed, calibrated, tested, operated and maintained in a manner acceptable to the Commissioner of Environmental Protection in compliance with all U.S. EPA performance, siting, testing, and maintenance requirements specified in 40 CFR 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time.

3. The following table lists the 4 operating scenarios and the applicable concentrations for sulfuric acid:

Maximum Allowable Stack Concentrations (MASC)

Operating Scenario	Actual Stack Conc. (ug/m ³)	MASC (ug/m ³)	Ammonia Injection Rate (lb/hr)
Gas Turbine & 1 Boiler*	2,427.9	2,514.1	1.0
Gas Turbine Alone	2,061.8	2,831.2	1.0
2 Boilers	5,114.8	11,188	0.0
1 Boiler*	5,304	22,132	0.0

*Or the equivalent of one boiler

4. Allowable Emission Rate:

Maximum Allowable Opacity: 10% for any 6-minute block average and <40% instantaneous.

Emissions of nitrogen oxides (NOx), expressed as NO₂, from the Nebraska boiler, which will be operated concurrently with the gas turbine shall be limited to 29 parts per million (29 ppmvd)

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LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

MONITORING REQUIREMENTS/OPERATING PARAMETERS, Continued:

at 15% O₂) while firing natural gas and 52 parts per million (52 ppmvd at 15% O₂) while firing No. 2 oil. Sulfur oxide emissions, expressed as SO₂, shall be limited to 0.11 parts per million (0.11 ppmvd at 15% O₂) while firing natural gas and 53 parts per million (53 ppmvd at 15% O₂) while firing No. 2 oil, which is equivalent to 0.28 lb/MM BTU. The source is allowed to set the telemetry alarm level at 10% of scale (20 ppmvd @ 15% O₂) for SO₂ while combusting natural gas.

- Owner/Operator is responsible for operating and maintaining telemetry system's Departmental audit as specified in the Connecticut DEP Guidance Document.

ADDITIONAL TERMS AND CONDITIONS:

- 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 law.
- This permit may be revoked, suspended, modified, or transferred in accordance with applicable law.

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TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ORIGINAL

TOWN NO. 213	PREMISE NO. 1	PERMIT NO. 0031	STACK NO. 29
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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

ADDITIONAL TERMS AND CONDITIONS, Continued:

4. 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 of municipalities who are not parties to this permit.
5. 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 subsection 22a-6, under subsection 53a-157 of the Connecticut General Statutes.
6. Nothing in this permit shall effect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate

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LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



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EQUIPMENT DESCRIPTION (I.D.): ONE NEBRASKA MODIFIED TYPE A BOILER

ADDITIONAL TERMS AND CONDITIONS, Continued:

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.

7. Within fifteen days of the date of 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.
8. 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.
9. 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.

NOTES: "Owner/operator" in permit refers to The Dexter Corporation.

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LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



ORIGINAL

OPERATING MODE ID: Nebraska Boiler
Natural Gas Fired

TOWN NO.	PREMISE NO.	PERMIT NO.	STACK NO.
213	1	0032	29

<u>CRITERIA POLLUTANTS</u>	<u>LB/HOUR *</u>	<u>LB/MM BTU</u>	<u>ppmvd</u>	<u>TPY *</u>
TSP	<u>0.86</u>	<u>0.0049</u>		<u>3.77</u>
SO _x , expressed as SO ₂	<u>0.10</u>	<u>0.00058</u>	<u>0.11</u>	<u>0.44</u>
NO _x , expressed as NO ₂	<u>19.54</u>	<u>0.110</u>	<u>29</u>	<u>85.59</u>
HC	<u>1.00</u>	<u>0.0056</u>		<u>4.38</u>
CO	<u>14.56</u>	<u>0.082</u>		<u>63.77</u>
Pb	<u>0</u>	<u>0</u>		<u>0</u>
PM-10				
<u>NON-CRITERIA POLLUTANTS</u>				
H ₂ SO ₄	<u>0</u>	<u>0</u>		<u>0</u>

COMMENTS : *Based on 177.6 MM BTU/hr

EIRM NAME
THE DEXTER CORPORATION COGENERATION FACILITY

LOCATION OF EQUIPMENT (No. & Street, Town, Zip)
TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



OPERATING MODE ID: Nebraska Boiler: No. 2 Oil-Fired (max %S = 0.28 by wt)

TOWN NO.	PREMISE NO.	PERMIT NO.	STACK NO.
213	1	0032	29

CRITERIA POLLUTANTS	LB/HOUR *	LB/MM BTU	ppmvd	TPY *
TSP	2.41	0.014		10.56
SO _x , expressed as SO ₂	47.63	0.28	53	208.611
NO _x , expressed as NO ₂	34.02	0.200	52	149.01
HC	0.82	0.0048		3.59
CO	13.95	0.082		61.10
Pb	5.1 x 10	3 x 10		2.2 x 10
PM-10 Method 201A NON-CRITERIA POLLUTANTS	1.30	0.0077		5.710
H ₂ SO ₄	1.09	0.0064		4.774

COMMENTS: *Based on 170.1 MM BTU/hr

FIRM NAME

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LOCATION OF EQUIPMENT (No. & Street, Town, Zip)

TWO ELM STREET, WINDSOR LOCKS, CONNECTICUT 06096



ORIGINAL

OPERATING MODE ID: Total Allowables for one combustion turbine and the equivalent of one Nebraska boiler
 Worst Case: Max %S = 0.28 by weight

TOWN NO.	PREMISE NO.	PERMIT NO.	STACK NO.
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0032

CRITERIA POLLUTANTS	LB/HOUR				TPY
TSP					79.79
SO _x , expressed as SO ₂					762.45
NO _x , expressed as NO ₂					635.6
HC					58.44
CO					296.647
Pb					8.1E-3
PM-10 Method 201A					66.32
NON-CRITERIA POLLUTANTS					
H ₂ SO ₄			*		17.214

COMMENTS: *See Condition 6 on Page 8 of this permit
 Operating mode is 1 combustion turbine and the equivalent of 1 Nebraska boiler at maximum rated capacity firing 0.28% by weight sulfur No. 2 oil or natural gas.

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