

MINOR NPDES PERMIT MODIFICATION

issued to

Exeter Energy, L.P.
10 Exeter Drive
P.O Box 188
Sterling, CT 06377

Location Address:
10 Exeter Drive
Sterling, CT 06377

Attention: Tom Harnsberger
Facility ID: 136-006

Permit ID: CT0026972

This permit modification is in accordance with section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and a modified Memorandum of Agreement (MOA) dated June 3, 1981, by the Administrator of the United States Environmental Protection Agency which authorizes the State of Connecticut to administer a Pretreatment Program pursuant to 40 CFR Part 403.

The Commissioner of Environmental Protection ("the Commissioner") has made a final determination on this permit modification and found that continuance of the existing system as modified to treat the discharge will protect the waters of the state from pollution (DSN001-1). The Commissioner's decision is based on Application No. 201006533 and the administrative record established in the processing of that application.

Exeter Energy, L.P., ("Permittee"), shall comply with all conditions of Permit No. CT0026972 issued on January 31, 2007 with the following modification:

1. The monitoring location description for Tables B and D in Section 5 of this permit are hereby revised and superceded with the respective tables attached hereto.
2. Section 5, Table E (Influent) has been eliminated.

The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit modification, Permit No. CT0026972, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit.

The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions that may be authorized under the Clean Water Act or the Connecticut General Statutes or regulations adopted thereunder, as amended. The permit as modified under this paragraph may also contain any other requirements of the Clean Water Act or Connecticut General Statutes or regulations adopted thereunder which are then applicable.

All other terms and conditions of Permit No. CT0026972 issued on January 31, 2007 shall continue in full force and effect.

This permit modification is hereby issued on February 22, 2011

/s/ KIM E. HUDAK, P.E.
Kim E. Hudak, P.E.
Assistant Director
Water Permitting and Enforcement Division
Bureau of Materials Management and Compliance Assurance

KH/EH
Sent RRR

PERMIT # CT0026972

Table B. From August 31, 2010 until permit expiration, the Permittee shall comply with the following final limits:

Discharge Serial Number: 001-1						Monitoring Location : 1			
Wastewater Description: Treated parking lot material storage areas and roof drain stormwater.									
Monitoring Location Description: In the Diversion Manhole									
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level Test ³
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency ²	Sample Type or measurement to be reported	
Aluminum	mg/l	NA	NA	NR	NA	---	Quarterly	Grab	*
Barium	mg/l	NA	NA	NR	NA	---	Twice/Year	Grab	
Cadmium	mg/l	NA	NA	NR	NA	0.007	Quarterly	Grab	*
Chromium-Total	mg/l	NA	NA	NR	NA	---	Quarterly	Grab	*
Copper	mg/l	NA	NA	NR	NA	0.076	Quarterly	Grab	*
Flow, Rate ¹	gpm	NA	---	Daily/Monthly	Daily Flow	---	NR	NA	
Flow, Maximum Daily ¹	gpd	NA	---	Daily/Monthly	Daily Flow	NA	NR	NA	
Flow, Day of Sampling	gpd	NA	---	Monthly	Daily Flow	NA	NR	NA	
Duration of Daily Discharge	Hours	NA	---	Monthly	Total Hours	NA	NR	NA	
Iron	mg/l	NA	NA	NR	NA	---	Quarterly	Grab	
Lead	mg/l	NA	NA	NR	NA	0.098	Quarterly	Grab	*
Manganese	mg/l	NA	NA	NR	NA	---	Quarterly	Grab	
Nickel	mg/l	NA	NA	NR	NA	---	Quarterly	Grab	*
pH	S.U.	NA	NA	NR	NA	6.0 – 9.0	Monthly	Grab	
Zinc	mg/l	NA	NA	NR	NA	0.212	Monthly	Grab	
Total Oil & Grease (EPA Method 1664)	mg/l	NA	NA	NR	NA	10	Quarterly	Grab	
Total Suspended Solids	mg/l	NA	NA	NR	NA	100	Monthly	Grab	

Table Footnotes and Remarks:

Footnotes:

¹ For this parameter the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Maximum Daily Flow Rate for each month.

² The first entry in this column is the ‘Sample Frequency’. If this entry is not followed by a ‘Reporting Frequency’ and the ‘Sample Frequency’ is more frequent than monthly then the ‘Reporting Frequency’ is monthly. If the ‘Sample frequency’ is specified as monthly, or less frequent, then the ‘Reporting Frequency’ is the same as the ‘Sample Frequency’.

³ Minimum Level Test refers to Section 6(A)(3) of this permit.

Remarks:

All samples shall be taken within 30 minutes after the start of the discharge from the storm event.

Table D. From August 31, 2010 until permit expiration, the Permittee shall comply with the following final limits:

Discharge Serial Number (DSN): 001-1			Monitoring Location: T		
Wastewater Description: Treated parking lot, material storage areas, and roof drain stormwater.					
Monitoring Location Description: In the Diversion Manhole					
Allocated Zone of Influence (ZOI): 109,597 gph			In stream Waste Concentration (IWC): 15.3 %		
PARAMETER	Units	Instantaneous limit	Sampling Frequency	Sample Type	Minimum Level Analysis See Section 6
Aquatic Toxicity, <i>Daphnia pulex</i> LC ₅₀ ¹	%	> 50	Quarterly	Grab	
Aquatic Toxicity, <i>Pimephales promelas</i> LC ₅₀ ¹	%	> 50	Quarterly	Grab	
Aluminum	mg/l	----	Quarterly	Grab	*
Barium	mg/l	----	Twice/Year	Grab	
Cadmium, Total	mg/l	0.007	Quarterly	Grab	*
Chromium, Total	mg/l	----	Quarterly	Grab	*
Chlorine, Total Residual	mg/l	----	Quarterly	Grab	
Copper, Total	mg/l	0.076	Quarterly	Grab	*
Iron	mg/l	----	Quarterly	Grab	
Manganese	mg/l	----	Quarterly	Grab	
Lead, Total	mg/l	0.098	Quarterly	Grab	*
Nickel, Total	mg/l	----	Quarterly	Grab	*
Nitrogen, Ammonia (total as N)	mg/l	----	Quarterly	Grab	
Nitrogen, Nitrate, (total as N)	mg/l	----	Quarterly	Grab	
Zinc, Total	mg/l	0.212	Quarterly	Grab	
Total Suspended Solids	mg/l	100	Quarterly	Grab	

Table Footnotes and Remarks:

Footnotes:

¹ Record the LC₅₀ value result on the DMR.

Remarks:

All samples shall be taken within 30 minutes after the start of the discharge from the storm event.
All analysis shall be on the same sample.

DATA TRACKING AND TECHNICAL FACT SHEET

Permittee : Exeter Energy, L.P.

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #: CT0026972

APPLICATION #: 201006533 FACILITY ID 136-006

<p><u>Mailing Address:</u> Street: 10 Exeter Drive. P.O Box 188 City: Sterling ST: CT Zip: 06377 Contact Name: Tom Harnsberger Phone No.: (860) 564-7000</p>	<p><u>Location Address:</u> Street: 10 Exeter Drive City: Sterling ST CT Zip: 06377 DMR Contact Marsal Martin Phone No.: (860) 230-2034</p>
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PERMIT INFORMATION

DURATION 5 YEAR X 10 YEAR ___ 30 YEAR ___

TYPE New ___ Reissuance ___ Modification X

CATEGORIZATION POINT (X) NON-POINT () GIS #

NPDES (X) PRETREAT () GROUND WATER(UIC) () GROUND WATER (OTHER) ()

NPDES MAJOR(MA) ___
 PRETREAT SIU (SI) ___
 NPDES or PRETREATMENT MINOR (MI) X

PRETREAT SIGNIFICANT INDUS USER(SIU) ___
 PRETREAT CATEGORICAL (CIU) ___

POLLUTION PREVENTION MANDATE ___ **ENVIRONMENTAL EQUITY ISSUE** ___

COMPLIANCE ISSUES

COMPLIANCE SCHEDULE X YES ___ NO (If yes check off what it is in relation to.)

~~POLLUTION PREVENTION~~ TREATMENT REQUIREMENT X WATER CONSERVATION ___

WATER QUALITY REQUIREMENT ___ REMEDIATION ___ OTHER ___

IS THE PERMITTEE SUBJECT TO A PENDING ENFORCEMENT ACTION? NO ___ YES X

OWNERSHIP CODE

Private X Federal ___ State ___ Municipal (town only) ___ Other public

DEP STAFF ENGINEER Enna Herrera

PERMIT FEES

<i>Discharge Code</i>	<i>DSN Number</i>	<i>Annual Fee</i>
1080000	001-1	\$ 2,662.50

A permit modification fee of \$750.00 was charged consistent with section 22a-430-6(e)(1)(E) of RCSA.

FOR NPDES DISCHARGES

Drainage basin Code: 3500

Present/Future Water Quality Standard: C/Bc

NATURE OF BUSINESS GENERATING DISCHARGE

Waste to energy facility that burns whole tires as a fuel source.

PROCESS AND TREATMENT DESCRIPTION (by DSN)

The process generates high pressure steam that is used to generate electrical power. Stormwater from the site receives treatment in a settling pond before discharge to the Moosup River.

RESOURCES USED TO DRAFT PERMIT

- X *Treatability Manual*
- X *Department File Information*
- X *Connecticut Water Quality Standards*
- X *Other*

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- X *Best Professional Judgment (See Other Comments)*
DSN 001-1: LC₅₀, Oil/grease, and TSS
- X *Case-by-Case Determination (See Other Comments)*
DSN 001-1: LC₅₀, Oil/grease, and TSS
- X *In order to meet in-stream water quality (See General Comments)*
DSN 001-1 : Cadmium, Copper, Lead, pH, and Zinc

OTHER COMMENTS

The Department received a modification request for Permit No. CT0026972 and fee on December 6, 2010. The following permit modifications have been made:

*Section 5, Tables B and D monitoring location descriptions have been modified **from** “Settling Pond Effluent at Weir,” **to** “In the Diversion Manhole.” The revised Tables B and D have been attached to reflect these changes. This permit modification is necessary to address the approved changes to the treatment settling basin. This retention basin has been redesigned to allow in-plant reuse of runoff associated with industrial activities and retention of a 100-yr storm event. A new diversion manhole was installed as part of the approved system modification to reroute stormwater from the site directly to Moosup River for storm events larger than a 100-yr storm bypassing the new redesigned retention basin. The new diversion manhole will be the new sampling location for DSN001-1.*

Section 5, Table E has been eliminated because this monitoring is no longer useful to evaluate the settling basin performance. The settling basin has been converted into a 100-yr retention basin.

Multimedia Consent Order No. 1272 was issued to the Exeter Energy on Nov 23, 1992 to address Air , Water, and Dam Safety issues. The order has not been closed out yet due to one outstanding issue related to sediment contamination associated with Exeter’s discharge to the Moosup River.