# REGISTRATION CERTIFICATE EPAC-10 REV. 7-73



# STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



STACK NO. 01041002404

FUEL BURNING	INCINERA	TOR .	PROCESS MFG.	1 1	AIR POLLUTION	REGISTRATION NO. 01040102
HARTFORD	ELECTRIC	LIGHT		77711	DUMOUNT	DATE ISSUED 12/05/73
PO BOX 2	NENT (No. & Street, Tow 7 ()	n, Zip)	HARTFORD	СТ	06101	
COMMISSIONER OR HI	S REPRESENTATIVE					

Statutes regarding false and misleading statements)

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EP-4 NEW 5-72	EQUIPMENT RE	GISTRATIO	N/C	wn	104	7 81	rem,	7. O	24	ST	ATE OF	CONNEC	TICUT	Til	9. 10	2	ز ر	HACK	04	1. APPLICATION	ON NO.	2. S	TACK NO.
TO: Departme	nt of Environme	ental Prote	ctio	n, Air	Compl	iance S	ectio	n, Sta	te Off	ice Bl	dg., H	artford,	Conn.	. 06	115. Te	l. 566-2	2690			5A-J	10	10	
•					AL NAMI	E		-	-	PT.NO.	_							& Street, Cit					PHONE
3. FIRM	Northeast Utilities														70, Hartford, Conn. 06101								66-6911
4. DIVISION								A STANLES	N.KER	P. O. Box 2370, Hartford, Conn. 06101										+9-5711			
5. APPLICANT	Henry A. Darius, Assistant Secretary																	6-6911					
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11. TYPE OF COAL BURNER	HAND FIRED	UNDERFE STOKER	ED		TRAVEL GRATE	ING		CHAIN GRATE			EADER OKER		STOKER				URNA			VERIZED AL	X	er (Specify None	,
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OIL BURNER	PRESSURE OR GUN	l	R	OTARY	CUP			STEAM	ATOM	IZER	AIR ATOMIZER					LJ F	MINALLI	$\mathbf{X}$	X (Specify) Turbine				
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13. COMBOSTION	L YES	NO NO				_ °F	Ш	SWITC	HED		DICATO	R L	MANUA	L.	<u> </u>	OTHER (Specify)						JCED	NATURAL
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INFORMATION	SMOKE INDICATOR			AND MO	DDEL NO.							LINING											
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17. STACK LOCATION	Name of nearest intersecting street:	: Silve	rmi	ne Ro	ad						Distance to stack from intersection:  11,500 FT. DIRECTION (Circle one) TO STACK: N, NE, (E, ) SE, S,												
18. CERTIFICATION	I certify that I have examined the above information and that to the best of my knowledge it is true and complete. (Signature subjects signer to provisions of the General Statutes regarding false and misleading statements).  SIGNED  ASSISTANT Secretary  9/29/72																						

	PLEASE DO NOT WRITE IN THIS SPACE	
e grande († 1865) Geografiek Grande († 1865)	DATE RCV'D FROM APPLICANT	
33. T	DATE COPY SENT TO LOCAL AGENCY BY	_
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S. CARROLL CO. C.		

79 Elm Street • Hartford, CT 06106-5127

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Affirmative Action/Equal Opportunity Employer

Mr Jeffrey Araujo Plant Manager Mıddletown Power LLC P O Box 1001 1866 River Road Mıddletown, CT 06457

RE. Modification of Registration No. 104-0102 for a Pratt & Whitney FT4A-8 gas turbine (Unit 10), located Middletown Power LLC, Middletown, CT

Dear Mr Araujo

The Commissioner of the Department of Energy and Environmental Protection (DEEP) may modify any license at the request of the licensee in accordance with Section 22a-3a-5(d) of the Regulations of Connecticut State Agencies (RCSA), and any other applicable law Any modification at the request of the licensee shall comply with the requirements of RCSA Section 22a-3a-5(a).

As requested and supported in your letter dated January 3, 2013, the DEEP Bureau of Air Management Registration for the above mentioned equipment is hereby modified unless within 30 days of issuance of this notice a request for hearing is filed. Such request shall conform with the provisions of RCSA Subsection 22a-3a-6(i) The registration has been modified to restrict the maximum liquid fuel sulfur content to 0.05% sulfur by weight (500 ppm) The Department will update its emissions inventory to reflect this modification.

This letter in no way grants immunity from legal action resulting from the failure of this source to remain in compliance with existing air pollution regulations, nor does it provide an exemption from compliance with future Federal, State or local laws

If you have any questions concerning this notice, please contact Mr. James Grillo of my staff at (860) 424-4152.

Date

Macky MeCleary
Deputy Commissioner

MM jag

cc. Chris Mulcahy, Air Technical Services Robert Girard, Air Enforcement Keith Shortsleeve, Middletown Power LLC

Certified Mail

#### MEMORANDUM

DATE: April 16, 2013

TO. Macky McCleary, Deputy Commissioner

Anne R. Gobin, Bureau Chief

FROM: James Grillo, APCE

Kiernan J. Wholean, Supervising APCE Richard A. Pirolli, Assistant Director

Gary S. Rose, Director

SUBJECT: Modification of Registration No. 104-0102 for a Pratt & Whitney FT4A-8

(Unit 10) at Middletown Power LLC in Middletown, CT

#### DISCUSSION:

Middletown Power LLC submitted a letter, dated January 3, 2013, requesting to modify the registration for Unit 10. The registration does not specifically limit fuel sulfur content but the Title V permit limits the maximum sulfur content at 0.5% by weight pursuant to RCSA 22a-174-19a(c)(1).

The licensee requested to modify the registrations to reflect the actual worst case sulfur content used in this unit. However, the main reason for this new limit is due to the Department's own SO<sub>2</sub> modeling that shows this unit would exceed the 1-hr SO<sub>2</sub> standard that became effective in August 2010. The modeling group has determined that the 500 ppm sulfur content would allow this unit to be in compliance with the SO<sub>2</sub> standard. (see electronic mail from S. Sampieri, dated 04/15/13)

Modifications of registrations issued pursuant to the former RCSA §22a-174-2 have been done in the past pursuant to the Rules of Practice and a process derived from discussions between the Engineering and Enforcement Sections and the Attorney General's Office.

The compliance record was reviewed in accordance with the Environmental Compliance History Policy to evaluate the applicant's compliance history and the relevance of such history to the activity for which authorization is being sought. Additionally, a review of air program compliance was requested from the Enforcement Section of the Engineering and Enforcement Division and that response forms a part of this record. There are no current enforcement actions that prevent the modification request to be processed at this time.

# Middletown Power LLC

# **RECOMMENDATION:**

Based on the information submitted by the applicant, this evaluation, and the compliance history review, it is recommended that Registration No. 104-0102 be modified as requested.

James Grillo, APCE

 $\frac{4}{\text{Date}}/23/13$ 

**REVIEW:** 

Kiernan J. Wholean, Supervising APCE

Richard A. Pirolli, Assistant Director

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# STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



Connecticut Light and Power P.O. Box 270 Hartford, CT 06141 Attention: William J. Nadeau

Vient=7741 T P 104 24

NRG Middletown Operations, Inc. 1221 Nicollet Mall, Suite 700 Minneapolis, MN 55403-2445 Attention: Louis P. Matis

Re:

Approval of Permit Transfer

Permit Number(s) Referenced Below

Facility Location: 1866 River Road, Middletown, CT 06457

EPA ID No. CTD000845230

Dear Mr. Nadeau and Mr. Matis:

The Department of Environmental Protection ("the Department") hereby gives notice that the request for transfer of the permits/registrations/applications listed below has been approved. The effective date of the permit transfer from Connecticut Light and Power (CL&P) to NRG Middletown Operations, Inc. shall be the date the Commissioner or his designated agent signs the Approval of Permit Transfer letter. NRG Middletown Operations, Inc. shall provide documentation to the Department confirming the completion of the proposed transfer of the 1866 River Road facility within thirty (30) days from the Commissioner or his designated agent approving the permit transfer.

NRG Middletown Operations, Inc. shall comply with all terms and conditions of the permits, registrations and applications referenced below.

#### Permits/ Registrations/Applications Approved to be Transferred

#### Description

Permit/Registration/Application No.

#### **AIR Permits**

1) New Source Review (NSR) Permit to Operate -

104-0002

Fuel Burning Equipment-BLR B&W auxiliary heat and Revision to allow boiler to burn natural gas

2) NSR Permit to Operate Fuel Burning EquipmentBLR CE #4

104-0003

(Printed on Recycled Paper)

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http://dep.state.ct.us

An Equal Opportunity Employer

# Permits/ Registrations/Applications Approved to be Transferred (Continued)

#### Description

# Permit/Registration/Application No.

AIR	Registrations	
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3)	Boiler Riley #2 and Revision	104-0098
	to allow boiler to burn natural gas	

- 4) Boiler B&W (CY) #3 and Revision 104-0100 to allow boiler to burn natural gas
- 5) P&W FT4A-8 Turbine 104-0102

# **AIR Applications**

6) Title V - 199800634

(includes Cleaver Brooks Boilers (Glycol) #1 and #2)

7) NSR- Application to Construct and Operate 199901236

Fuel Burning Equipment -

Boiler B&W (CY) #3 (Registration 104-0100)

with control equipment (selective non-catalytic reduction)

### WATER Permit/Application

8)	NPDES Permit	CT0003883
9)	NPDES Permit Renewal Application	199601290
	(for NPDES Permit-CT0003883)	

# **INLAND WATER Diversion Registrations**

10)	CT River Intake Canal for Unit #1 and #2	4000-094-PWR-RI
11)	CT River Intake Canal for Unit #3	4000-095-PWR-RI
12)	Middletown Station Well #1	4000-007-IND-GR
13)	Middletown Station Well #2	4000-103-IND-GR
*14)	Middletown Station Well #3	4000-008-IND-GR
15)	Middletown Station Well #4	4000-009-IND-GR
16)	Middletown Station Well #5	4000-010-IND-GR

### WASTE

17) RCRA Part B Post Closure Permit Application - see note below

\*NOTE: Be advised that Middletown Station Well #3 was registered pursuant to Section 22a-3 CGS as inactive and with withdrawal capacity noted as zero (0). Activation or use of this well requires a diversion permit.

Enclosed please find, for the new permittee, NRG Middletown Operations, Inc., the permits and registrations listed above as being approved to be transferred to their ownership.

CL&P currently holds a Title IV - Acid Rain Permit (104-TIV-001). NRG Middletown Operations, Inc. is required under the Title IV Acid Rain Program (40CFR 72.83 and 72.23 (c)(2)) to submit a new "Certificate of Representation" form within 30 days of the transfer of ownership to the Administrator, EPA headquarters. A copy of this completed form must also be sent to Mr. Ian Cohen of the USEPA Region 1 and the DEP Central Permit Processing Unit. A copy of this form has been forwarded to the new permittee.

A NOx RACT Compliance Plan is on file with the Bureau of Air Management. If not previously done so, *NRG Middletown Operations, Inc.* must submit a revised cover sheet (Part A. General Information and Part B. Certification) of the Compliance Plan to the Bureau of Air Management. A copy of this cover sheet is enclosed for the new permittee.

The Bureau of Waste Management is in receipt of your RCRA Part A application and acknowledges the transfer of the above referenced facility from *Connecticut Light and Power (CL&P)* to *NRG Middletown Operations, Inc.* The department files, including the RCRA Part B post closure permit application, have accordingly been updated to reflect the change in ownership. Please be advised that *NRG Middletown Operations, Inc.* must, within six months of the date of the change of ownership or operational control of the facility, establish financial assurance for closure and post closure of the facility pursuant to 40 CFR 265, subpart H and 40 CFR 270.72. Until such time as *NRG Middletown Operations, Inc.* has demonstrated compliance with the financial requirements, *CL&P* shall be responsible for this requirement.

Concerning the registration for a hazardous waste generator, the EPA and the department records need only be updated with the new owner's name. The facility EPA ID number, CTD000845230, as well as the status of large quantity generator will remain unchanged. If not previously done so, the department's "Request for Change(s) of RCRA Notifier Data Base" form and the EPA form 8700-12 entitled "Notification of Regulated Waste Activity", must be completed by NRG Middletown Operations, Inc. and submitted to the department at the address identified on the department's form.

Marine Terminal Licenses issued by the Bureau of Waste Management are non-transferrable. Therefore, if not previously done so, *NRG Middletown Operations*, *Inc.* must submit a new application form for the license to operate the marine terminal previously authorized under the Marine Terminal License MT021.

Please be advised that a new *Underground Storage Facility Form* (EPHM-6) must be filed with the department and the local fire marshal if there are any nonresidential underground storage tanks located on site. Under Section 22a-449(d)-1(f) RSCA (Transfer of Facilities) no owner or operator shall transfer ownership, possession or control of any new or existing facility without full disclosure to the transferee of the status of the facility with respect to compliance with the Underground Storage Tank (UST) regulations at least 15 days prior to the transfer. Such disclosure shall include an up-to-date copy of the information submitted to the commissioner pursuant to subsection (d) (Reporting) of the UST regulations.

Please be aware of the General Permit for Minor Boiler Blowdown Wastewaters. Although no registration is needed, *NRG Middletown Operations, Inc.* must comply with the terms and conditions of this general permit, if applicable. A copy of this general permit is enclosed for the new permittee.

If applicable, be sure to have executed the appropriate Property Transfer Form, required under the Property Transfer Program administered by the Bureau of Water Management. Contact the Bureau of Water Management, Property Transfer Program at 860-424-3705 for additional information.

Please be aware that in addition to permit transfer fees, there may be other fees, such as annual fees or emission fees, associated with the permits being transferred. These fees from each of the department's programs vary depending on the facility's specific activity. The department will invoice the new permittee for such fees prior to the required payment date.

Should CL&P or NRG Middletown Operations, Inc. wish to conduct any activity authorized by a permit from this Department, CL&P and NRG Middletown Operations, Inc. must obtain the appropriate permit(s) prior to conducting such activity. Please be aware that performing an activity without the permit

required by Title 22a of the General Statutes may subject you to an injunction and penalties.

If you have any questions, please contact Beatriz Milne, of the Permit Assistance Office at (860) 424-3003.

Date

Jane K. Stahl

Deputy Commissioner

cc: Bryan Sousa, Bureau of Water Management
Denise Ruzicka, Bureau of Water Management
Anne Gobin, Bureau of Air Management
Gary Rose, Bureau of Air Management
Louis Corsino, Bureau of Air Management
Dave Nash, Bureau of Waste Management



# STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



Connecticut Light and Power P.O. Box 270 Hartford, CT 06141 Attention: William J. Nadeau

NRG Middletown Operations, Inc. 1221 Nicollet Mall, Suite 700 Minneapolis, MN 55403-2445 Attention: Louis P. Matis

Re: Approval of Permit Transfer

Permit Number(s) Referenced Below

Facility Location: 1866 River Road, Middletown, CT 06457

EPA ID No. CTD000845230

Dear Mr. Nadeau and Mr. Matis:

The Department of Environmental Protection ("the Department") hereby gives notice that the request for transfer of the registration listed below has been approved. The effective date of the permit transfer from Connecticut Light and Power (CL&P) to NRG Middletown Operations, Inc. shall be the date the Commissioner or his designated agent signs the Approval of Permit Transfer letter. NRG Middletown Operations, Inc. shall provide documentation to the Department confirming the completion of the proposed transfer of the 1866 River Road facility within thirty (30) days from the Commissioner or his designated agent approving the permit transfer.

**NRG Middletown Operations, Inc.** shall comply with all terms and conditions of the registration referenced below.

#### Registration Approved to be Transferred

**Description** 

Registration No.

1) Boiler B & W #1

104-0096

Enclosed please find, for the new permittee, *NRG Middletown Operations, Inc.*, the registration listed above as being approved to be transferred to their ownership.

CL&P and NRG Middletown Operations, Inc. should note that should they wish to conduct any activity authorized by a permit from this Department, CL&P and NRG Middletown Operations, Inc. must obtain the appropriate permits prior to conducting such activity. Please be aware that performing an activity without the permit required by Title 22a of the General Statutes may subject you to an injunction and penalties.

If you have any questions, please contact Beatriz Milne, of the Permit Assistance Office at (860) 424-3003.

Date

Jane K. Stahl

Deputy Commissioner

cc: Anne Gobin, Bureau of Air Management Gary Rose, Bureau of Air Management Louis Corsino, Bureau of Air Management