

**REGISTRATION CERTIFICATE**

EPAC-10 REV. 7-73

STATE OF CONNECTICUT

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**



STACK NO. 01041002404

EQUIPMENT CLASSIFICATION			REGISTRATION NO.
<input checked="" type="checkbox"/> FUEL BURNING	<input type="checkbox"/> INCINERATOR	<input type="checkbox"/> PROCESS MFG.	01040102
FIRM NAME			DATE ISSUED
HARTFORD ELECTRIC LIGHT			12/05/73
LOCATION OF EQUIPMENT (No. & Street, Town, Zip)			
PO BOX 270			MIDDLETOWN HARTFORD CT 06101
COMMISSIONER OR HIS REPRESENTATIVE			

DEPARTMENT OF ENVIRONMENTAL PROTECTION

1. APPLICATION NO. 5A-J10	2. STACK NO. 10
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3. FIRM Northeast Utilities	LEGAL NAME <b>CODEL</b>	BUSINESS ADDRESS (No. & Street, City, Zip Code) P. O. Box 270, Hartford, Conn. 06101	PHONE 666-6911
4. DIVISION The Hartford Electric Light Company		P. O. Box 2370, Hartford, Conn. 06101	249-5711
5. APPLICANT Henry A. Darius, Assistant Secretary		P. O. Box 270, Hartford, Conn. 06101	666-6911
6. INSTALLATION		River Road, Middletown, Conn. 06457	None
7. EQUIPMENT BEING REGISTERED Combustion Turbine for electric power generation	TYPE OF EQUIPMENT (e.g., Boiler)	AIR POLLUTION CONTROL EQUIPMENT USED (If "Yes," file form EP-7) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

8. MAJOR ACTIVITY OF FIRM  
 MFG.  OFFICE  RETAIL OR WHLSE. STORE  SCHOOL OR CHURCH  HOTEL/MOTEL  HOSPITAL OR LAB.  WAREHOUSE  RESIDENCE OR APTS.  OTHER (Specify) **Public utility holding company**

9. TYPES OF FUELS USED	FUEL	GRADES (x)	SULFUR CONTENT	ASH CONTENT	ANNUAL USAGE (Tons, Gals. or Cu. Ft.)	MAXIMUM FIRING RATE		SEASONAL USE			FUEL SUPPLIER		
						(Lbs., Gals., Cu. Ft./hr.)	(BTU/hr.)	Month	to	Month	Name	City or Town	
<input type="checkbox"/> COAL	Bituminous		. %	. %									
		Anthracite	. %	. %									
	<input checked="" type="checkbox"/> OIL	Kerosene	x	0.01 %	0.00 %	970,720	1,700	230,000,000				T A D Jones & Co.	New Haven
		2		. %	. %	47,900	(1977)						
		4		. %	. %								
		5		. %	. %								
6		. %	. %										
<input type="checkbox"/> NAT. GAS													
<input type="checkbox"/> OTHER													

10. BURNER EQUIPMENT  
 ARE OIL HEATERS USED?  YES  NO  
 OIL TEMPERATURE BEFORE INJECTION: Ambient °F  
 BURNER MANUFACTURER: Pratt & Whitney Aircraft Division of United Aircraft Corporation  
 BURNER MODEL No.: FT4A-8

11. TYPE OF COAL BURNER  
 HAND FIRED  UNDERFEED STOKER  TRAVELING GRATE  CHAIN GRATE  SPREADER STOKER  STOKER WITH GAS REINJECTION  CYCLONE FURNACE  PULVERIZED COAL  OTHER (Specify) **None**

12. TYPE OF OIL BURNER  
 PRESSURE OR GUN  ROTARY CUP  STEAM ATOMIZER  AIR ATOMIZER  TANGENTIALLY FIRED  OTHER (Specify) **Combustion Turbine**

13. COMBUSTION  
 OVERFIRE AIR CONTROL:  YES  NO °F \_\_\_\_\_  
 TYPE:  TIME SWITCHED  SMOKE INDICATOR  MANUAL  OTHER (Specify) **Automatic**  
 TYPE OF DRAFT:  FORCED  INDUCED  NATURAL

14. POLLUTANTS EMITTED	MATERIAL	RATE OF EMISSIONS (Tons/Yr.)	METHOD USED TO DETERMINE EMISSIONS	15. EQUIPMENT INFORMATION	BREACHING GAS TEMPERATURE (°F)		No. OF IDENTICAL UNITS
					NORMAL	MAXIMUM	
	Particulates	26.2	HEW list of emission factors		770		1
	Oxides of sulfur	0.8	" " " " " "		DATE SOURCE STARTED UP August 1966		
	Carbon monoxide	27.2	" " " " " "		EXHAUST GAS FLOW RATE (ACFM): 430,700		
	Hydrocarbons	7.3	" " " " " "		OPERATING HOURS: 3 HOURS PER DAY		
	Oxides of Nitrogen	39.0	Source test of similar unit		HOURS PER YEAR: 942		

16. STACK INFORMATION  
 STACK EXIT DIRECTION:  HORIZ.  VERT.  
 STACK EXIT DIMENSIONS: I.D. \_\_\_\_\_ in. OR 155 in. X 115 in.  
 STACK HEIGHT (Feet): 25  
 IS STACK EQUIPPED WITH RAIN HAT?  YES  NO  
 SMOKE INDICATOR IN STACK:  YES  NO  
 MAKE AND MODEL NO.: None  
 STACK LINING:  METAL  REFRACTORY  OTHER (Specify)

17. STACK LOCATION  
 Name of nearest intersecting street: Silvermine Road  
 Distance to stack from intersection: 11,500 FT.  
 DIRECTION TO STACK: (Circle one) N, NE, (E,) SE, S, SW, W, NW

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: *Henry A. Darius*  
 TITLE: Assistant Secretary  
 DATE: 9/29/72

MAIN FILE

PLEASE DO NOT WRITE IN THIS SPACE

DATE RCV'D FROM APPLICANT: / /

DATE REVIEWED: / / BY

DATE COPY SENT TO LOCAL AGENCY: / / BY

REGISTRATION NUMBER 104 - 0102

PREMISE NO. 024

STACK NO. 024

STATE GRID CO-ORDINATES

X 848,700 2025

Y 262,400 263,000

REGISTRATION CARD SENT

STORED ON COMPUTER

DATE / /

BY

/ /

BY

EMERGENCY STANDBY PLANS

PLAN REQUIRED  YES  NO

DATE PLAN - MANUAL SENT TO APPLICANT: / /

BY

DATE FORM RETURNED: / /

BY

DATE PLAN APPROVED: / /

MAP NO. 42

AOCR NO. 42

INDS: COUNTY NO. 0565

TOWN NO. 104

SIC NO.

De \_\_\_\_\_ ft X 10 \_\_\_\_\_

PROCESS CODE NO.

VELOCITY \_\_\_\_\_ fps

SSC I.D.

U.C.M. 23

Primary

Secondary

NO.	NO.	Description

**CODED**



79 Elm Street • Hartford, CT 06106-5127

[www.ct.gov/deep](http://www.ct.gov/deep)

Affirmative Action/Equal Opportunity Employer

Mr. Jeffrey Araujo  
Plant Manager  
Middletown Power LLC  
P.O. Box 1001  
1866 River Road  
Middletown, 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:

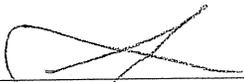
The Commissioner of the Department of Energy and Environmental Protection (DEEP) may modify any license at the request of the licensee in accordance with Section 22a-3a-5(d) of the Regulations of Connecticut State Agencies (RCSA), and any other applicable law. Any modification at the request of the licensee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

4/24/13  
Date

  
Macky McCleary  
Deputy Commissioner

MM: jag  
cc: Chris Mulcahy, Air Technical Services  
Robert Girard, Air Enforcement  
Keith Shortsleeve, Middletown Power LLC

Certified Mail