MODIFIED

on January 11, 2021 by Olivia Harris NAME CHANGED TO:

Pratt & Whitney,

DIVISION of RTX corporation

Engineer: Christing Kielczewska Date: July 17, 2023

REGISTRATION CERTIFICATE EPAC-10 REV. 7-73



STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



STACK NO. 00531000920

EQUIPMENT CLASSIFICATION FUEL BURNING INCINERATOR	PROCESS MFG.	AIR POLLUTION CONTROL	REGISTRATION NO. 00530042
PRATT AND WHITNEY	PWA MAIN	PLANT	DATE ISSUED 12/05/73
LOCATION OF EQUIPMENT (No. & Street, Town, Zip) 400 MAIN ST	EAST HAR	TFORD CT 06108	
COMMISSIONER OR HIS REPRESENTATIVE			

DEPARTMENT OF ENVIRONMENTAL PROTECTION

30-621 0/29/72 NATURAL <u>₹</u> 165-4321 565-4323 \$65-4321 565-4323 City or Town Buner Acht. Ring Cas Burner No. OF IDENTICAL UNITS The Haven MAXIMUM 69, 400 HOURS PER YEAR Hartford ₹ DATE SW. OTHER (Specify) NOUCED FUEL SUPPLIER Assistant Secretary vì S. Conn, Nat. Gas FH-P-OOK (Specify) Wyatt 011 Co. OTHER NORMAL 52,000 HOURS PER DAY w (Specify) (Circle one) OTHER 400 Main Street, East Hartford, Conn. 06108 400 Main Street, East Hartford, Conn. Offich 400 Main Streat, EAst Hartford, Conn. U6108 400 Main Street, East Harrford, Coun. 06108 TYPE OF DRAFT Nome OTHER (Specify) PULVERIZED COAL BREACHING GAS TEMPERATURE ("F) DATE SOURCE STARTED UP BUSINESS ADDRESS (No. & Street, City, Zip Cods) DIRECTION TO STACK: USE OR APTS.
SEASONAL USE OPERATING HOURS: FLOW RATE (ACFM) AIR POLIUTION CONTROL EQUIPMENT USED (11 "Yes, " 1:10 form EP.7) 450° F TITLE Oct. Month Dec. IS STACK EQUIPPED WITH RAIN HAT? EXHAUST GAS TANGENTIALLY
FIRED × OX RCRAFT CORPORATION CYCLONE FURNACE 0 or Environmental Protection, Air Compliance Section, State Office Bily.,rtford, Conn. 06115. Tel. 566-2690 187,500 cuft190,325,000 Apr -1,013,500 gål 10,040 0/hil84,234,000 ann Month REFRACTORY ₩ARE. HOUSE OTHER (Specify) 281 15. EQUIPMENT YES Davis STOKER WITH GAS (BTU/hr.) Peabody Eng. Corp. MAXIMUM FIRING RATE HOTEL. OR LAB. AIR ATOMIZER MANUAL Tons, Gals. or Cu. Ft.) (165., Gols., Cu. ft./hr.) MANAGORICOT SIGNED UNITED BURNER MANUFACTURER STACK HEIGHT (Fuer)
142 £t. METHOD USED TO DETERMINE EMISSIONS Enission Pactors Emission Factors Entesion Factors Distance to stack from intersection: STACK LINING METAL SMOKE INDICATOR SPREADER STOKER 253,323,833 cu.r 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 pravisions of the General Statutes regarding false and misteading statements} ANNUAL USAGE 4 STEAM ATOMIZER Fireye Type 270H6 Model 1000 TYPE TIME SWITCHED J SCHOOL OF 95,-100 CHAIN GRATE CHURCH ON TEMPERATURE BEFORE INJECTION io. RATE OF EMISSIONS Street & Ensign Street % 2 2 % * (EBt. (Est. 36.6 (Est. CONTENT (Tons/Yr.) ; ASH 0.03 SRATE 8.09 in. Og 11.7 TRETAIL OR WHISE, STORE LEGAL NAME STACK EXIT DIMENSIONS United Aircraft Corporation % MAKE AND MODEL NO. 2130 CONTENT SULFUR ROJARY CUP 5 31 1 0,80 Pratt & Whitney Aircraft Pract & Whitney Aircraft (x) UNDERFEED STOKER ď FUEL BURNING PRESENT REGISTRATION 7.9 GRADES OFFICE Anthrocite THE OF EQUIPMENT (e.g., Boiler) Bituminous Main Kerosena YERT. MATERIAL ş 2 <u>Ş</u> SMOKE INDICATOR IN STACK Particulates Roiler OVERFIRE AIR CONTRO STACK EXIT DIRECTION intersecting street: X झ्द Name of nearest ARE OIL HEATERS PRESSURE OR GUN MFG COAL HAND FIRED ಕ NAT. GAS HORIZ. FUEL YES N YES OTHER YES 30 100 2 [~] 18. CERTIFICATION 7. FOURPMENT BEING 6. INSTALLATION 13. COMBUSTION 8. MAJOR ACTIVITY OF HRM 14. POLLUTANTS 10: Depart EP-4 NEW 5. 16. STACK S. APPLICANT REGISTERED 11. TYPE OF COAL BURNER 4. DIVISION 9. Th. .. OF FUELS USED 10. BURNER EQUIPMENT 12. TYPE OF OIL BURNER 17. STACK 3. FIRM

MEMORANDUM

DATE: April 13, 2012

TO: Macky McCleary, Deputy Commissioner

Anne R. Gobin, Bureau Chief

FROM: Allison M. Tyropolis, APCE

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

Gary S. Rose, Director

SUBJECT: Modification of Registration Nos. 053-0039, 053-0041, and 053-0042 for three boilers at

Pratt & Whitney in East Hartford, CT

DISCUSSION:

Pratt & Whitney was issued registrations (Registration Nos. 053-0039, 053-0041, and 053-0042) for three boilers on December 5, 1973, pursuant to the former Section 22a-174-2 of the Regulations of Connecticut State Agencies (RCSA).

On April 5, 2012, the Department received a request from Pratt & Whitney to modify the three boiler registrations. Pratt & Whitney is currently allowed to burn No. 6 fuel oil and natural gas in these boilers. They are requesting for the capability to burn No. 6 fuel oil to be removed and for the boilers to be limited to the use of ultra low sulfur fuel oil (0.0015% sulfur) and natural gas. This modification request was the result of a meeting Pratt & Whitney had with the Department where Pratt & Whitney indicated that they boilers no longer have the capability of firing No. 6 fuel oil.

Modifications of registrations issued pursuant to the former RCSA §22a-174-2 are done 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 Department of Environmental Protection's Compliance History Policy (CHP) requires a compliance history review for every applicant. The resources used to determine compliance with the CHP were: the SIMS Enforcement database and input from the Air Enforcement and Field Operations Section. On April 10, 2012, The Air Enforcement and Field Operations Section indicated that there is no enforcement related reason to delay or deny the registration modifications.

RECOMMENDATION:

Based on the information submitted by the applicant, this evaluation, inspection report and the compliance history review, it is recommended that Registration Nos. 053-0039, 053-0041, and 053-0042 be modified as requested.

Allison M. Tyropolis, APCE

<u>4/3/12</u> Date

REVIEW:

Kiernan J. Wholean, SAPCE

Richard A. Pirolli, Asst. Director

Gary S. Rose, Director

MEMORANDUM

DATE: May 9, 2012

TO: Macky McCleary, Deputy Commissioner

Anne R. Gobin, Bureau Chief

FROM: Allison M. Tyropolis, APCE

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

Gary S. Rose, Director

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On May 7, 2012, the Department received a clarification to their registration modification request. This letter clarifies the intent of the word "upgrade" used in the original letter. The changes made to the boilers will not result in an increase of potential emissions of any air pollutant. Also, converting the boilers from No. 6 fuel oil to ultra low fuel oil does not increase actual emissions of any individual air pollutants by 15 tons or more per year. Potential emissions are limited by collateral conditions of NSR Permit No. 053-0009, which states that these boilers "shall burn an aggregate of no greater than 23,500,000 gallons per year of fuel oil." Low NOx burners and flue gas recirculation will be added to control air pollution when firing natural gas and ultra low sulfur fuel oil. Finally, the boiler changes do not result in "reconstruction" as defined by RCSA Section 22a-174-1(97). Therefore, the changes made to these boilers will not trigger NSR review.

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

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RECOMMENDATION:

Based on the information submitted by the applicant, this evaluation, and the compliance history review, it is recommended that Registration Nos. 053-0039, 053-0041, and 053-0042 be modified as requested.

Allison M. Tyropolis, APCE

5/9/12 Date

REVIEW:

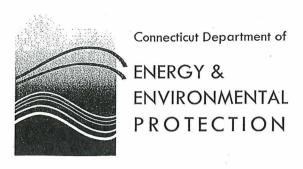
Kum Millu 09194412

Kiernan J. Wholean, SAPCE

Richard A. Pirolli, Assistant Director

1. Lose 05-10-12

Gary S Rose, Director



Mr. Steven Eitelman Pratt & Whitney 400 Main Street East Hartford, CT 06108

RE:

Modification of Registration Nos. 053-0039, 053-0041, and 053-0042 for three boilers at Pratt &

Whitney in East Hartford, CT

Dear Mr. Eitelman:

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 April 5, 2012, the DEEP Bureau of Air Management Registrations for the above mentioned equipment are 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). These registrations have been modified to remove the option to burn No. 6 fuel oil and allow the facility to burn ultra low sulfur fuel oil in the boilers. 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 Ms. Allison Tyropolis of my staff at (860) 424-4152.

Date

Macky McCleary
Deputy Commissioner

MM:amt

cc: Ernest Bouffard, Air Technical Services Robert Girard, Air Enforcement

L. Renée Welsh, Pratt & Whitney

Certified Mail



April 5, 2012

Mr. Ric Pirolli
Director, Engineering and Enforcement
Bureau of Air Management
Department of Energy and Environmental Protection
State of Connecticut
79 Elm Street
Hartford, CT 06106-5127

RECEIVED

APR 0 5 2012

DEPT. OF ENVIRONMENTAL PROTECTION BUREAU OF AIR MANAGEMENT AIR ENFORCEMENT

Re:

Pratt & Whitney, 400 Main Street East Hartford, Connecticut Boiler Registrations 00530042, 00530041, and 00530039

Dear Mr. Pirolli:

As requested by the DEEP during our March 22, 2012 meeting and subsequent phone conversations to discuss Pratt & Whitney, East Hartford's future boiler upgrades, the purpose of this letter is to revise the facility's boiler registrations 00530042, 00530041, and 00530039. P&W's current Fuel Burning Equipment Registration forms indicate the boilers can consume No. 6 fuel oil (0.8% sulfur). P&W is upgrading these boilers to consume ultra low sulfur No. 2 (0.0015% sulfur) fuel oil and will no longer consume No. 6 fuel oil.

If you have any questions, please contact Steven Eitelman at (860) 565-7929. Thank you.

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I 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. I understand that any false statement made in the submitted information may be punishable as a criminal offence under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.

Sincerely,

L. Renée Welsh

Authorized Representative

Director, EH&S and Facilities - MC&O

cc. Allison Tyropolis



May 7, 2012

RECEIVED

MAY 0 7 2012

Mr. Ric Pirolli
Director, Engineering and Enforcement
Bureau of Air Management
Department of Energy and Environmental Protection
State of Connecticut
79 Elm Street
Hartford, CT 06106-5127

DUPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR MANAGEMENT
ENGINEERING AND ENFORCEMENT

Re:

Pratt & Whitney, 400 Main Street East Hartford, Connecticut Boiler Registrations 00530042, 00530041, and 00530039

Dear Mr. Pirolli:

As requested by the CTDEEP during a March 22, 2012 meeting with Steven Eitelman and Christopher Santucci of Pratt & Whitney and subsequent phone conversations discussing Pratt & Whitney, East Hartford's (P&W) future boiler changes, the purpose of this letter is to revise the facility's boiler registrations 00530042, 00530041, and 00530039. Although the boilers have always had the capability of burning fuel oil, the current Fuel Burning Equipment Registration forms specifically state the boilers consume No. 6 fuel oil (0.8% sulfur) and P&W is requesting that this be changed to ultra low sulfur No. 2 (0.0015% sulfur) fuel oil. Other information about the change is as follows:

- Boiler changes will not result in an increase of potential emissions of any individual air pollutant.
- Air pollution control equipment (i.e. low NOx burners and flue gas recirculation) will be added to control air pollution while firing natural gas or fuel oil.
- The boiler changes do not result in "reconstruction" as defined in RCSA Section 22a-174-1.
- The result of the conversion to ultra low sulfur No. 2 fuel oil: "such conversion does not increase actual emissions of any individual air pollutant by fifteen (15) tons or more per year."

• Potential emissions are limited by NSR Permit #053-0009 condition that states the boilers "shall burn an aggregate of no greater than 23,500,000 gallons per year of fuel oil."

The boiler changes will be performed as allowed in RCSA Sections 22a-174-3a(a)(2)(A)(i) and (iv). If you have any questions, please contact Steven Eitelman at (860) 565-7929. Thank you.

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I 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. I understand that any false statement made in the submitted information may be punishable as a criminal offence under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.

Sincerely

L. Renée Welsh

Authorized Representative

Director, EH&S and Facilities - MC&O

cc. Allison Tyropolis



May 27, 2004

Gary Rose Director, Engineering & Technical Services Bureau of Air Management Connecticut Department of Environmental Protection (CT DEP) 79 Elm Street Hartford, CT 06106

Re: Pratt & Whitney, Andrew Willgoos Turbine Laboratory; Shutdown Notification

Dear Mr. Rose:

Pratt & Whitney, Pent Road, East Hartford, Connecticut will no longer operate the following sources:

Permit/Registration Number	Description	
R 053-0163	Boiler B&W #1	
P 053-0056	Burner Rig Test X208/X209/203	V
R 053-0150	Drive Engine #1	
R 053-0151	Drive Engine #2	1
₹ R 053-0152	Drive Engine #3	1. • ,
R 053-0158	Tank D (JP-8)	Lante
M-339	Test Cell No X-208 ✓	
M-340	Test Cell No X-209 ✓	1
M -338	Test Cell No X-217 ✓	1
M-34	Test Cell No X-218]
M-342	Test Cell No X-234]
M-343	Test Cell No X-235 ✓	
R 053-0133	X208 inlet air heater 🗸	
R 053-0257	X209 inlet air heater	
R 053-0147	X234 inlet air heater 🗸	
R 053-0148	X235 inlet air heater 🛩	

These sources will be shutdown as of June 2004 and are not projected to operate at this facility in the future.

Please consider this notification a request to remove these sources from the Title V permit for this facility (053-0097-TV). If you have any questions or comments, please contact Tanja Ashlin at (860) 565-7929. Thank you.

Sincerely,

Mark Kopera

Manager, Facilities & Engineering

BUREAU OF AIR MANAGEMENT

MAY 2 8 2004

Mr. Ron Freeto, DEP Air Permitting, 5th Floor Mr. Bill Simpson, DEP Inventory Group, 5th Floor Ms. Wendy Jacobs, DEP Emissions Trading, 5th Floor

Ms. Liz McAuliffe, DEP, 5th Floor

Mr. Keith Hill, DEP Compliance Assurance & Monitoring, 5th Floor

OFFICE OF THE DIRECTOR PLANNING & STANDARDS

TYPE OF INSPECTION	PERMIT COMPLIANCE	LOG NUMBER: 04-0649
SOURCE NAME	PRATT & WHITNEY WILLGOOS	
ADDRESS	Pent Rd, East Hartford CT 06108	
CONTACT NAME	Tanja Ashlin	
TELEPHONE NUMBER	(860) 565-7929	*
DATE OF INSPECTION	5/12/2004	
REPORT FILE NAME	pratt and whitney 5 04.doc	

INSPECTION REPORT:

According to my escort, Tanja Ashlin, in the past 60-80% of Pratt and Whitney's altitude testing took place at Andrew Willgoos Turbine Laboratory. However the amount of altitude testing at this facility is decreasing, hence a number of air sources have been shut down.

A record of my findings is as stated:

The diesel powered "Blue Water Natural Gas Compressor" associated with permit numbers 053-09-0006 and 053-09-0061 has been removed from Andrew Willgoos Turbine Laboratory. The natural gas fuel line and electrical transferring line have been disconnected and capped.

The GG8 Stationary Gas Turbines at X-234 stand (Permit # 053-09-0045) have been shut down. The data system, fuel meter, computerized control system (TLC) and engine control system has been removed. The "non-permitted" test stand is currently in "cold shut down".

The GG8 Stationary Gas Turbines at X-237 stand (Permit # 053-09-0059) have been removed. The fuel line, electrical lines and air ducts associated have been disconnected and capped.

The GG8 Stationary Gas Turbines at X-218 Stand (Permit 053-09-0062) was never installed. The control panel and natural gas line for testing GG8 engine was never connected.

The B & W Fast Response Naval Boiler # 5 (Registration # 053-0167) has been shut down. The fuel meters have been disconnected and capped.

The B & W Fast Response Naval Boiler # 6 (Registration # 053-0168) has been shut down. The fuel meters have been removed from the boiler. The igniter, electricity and air controls have been tagged and locked out.

RECOMMENDATION: Based on this inspection the following Registered and Permitted equipment should be removed from Pratt & Whitney, Andrew Willgoos' emission inventory and Title V permit (Permit # 053-0097-TV).

Diesel powered Blue Water natural gas compressor	Duplanter.
Diesel powered Blue Water natural gas compressor	Physication
Testing of GG8 Stationary Gas Turbines at X-218 Stand	Dugilerative
Testing of GG8 Stationary Gas Turbines at X-237 Stand	Duplacate
Testing of GG8 Stationary Gas Turbines at X-234 Stand	Duplicate
B&W Fast Response Naval Boiler # 5	
B&W Fast Response Naval Boiler # 6	
	Testing of GG8 Stationary Gas Turbines at X-218 Stand Testing of GG8 Stationary Gas Turbines at X-237 Stand Testing of GG8 Stationary Gas Turbines at X-234 Stand B&W Fast Response Naval Boiler # 5

Debbie Tedford:	Oubbie	Te Stor)	, Date:	5-20-04	
Debbie Tediora:	32000	(0. 0	, Date:	5 60 0 7	



March 15, 2004

Gary Rose Director, Engineering & Technical Services Bureau of Air Management Connecticut Department of Environmental Protection (CT DEP) 79 Elm Street Hartford, CT 06106

Re: Pratt & Whitney, Andrew Willgoos Turbine Laboratory; Shutdown Notification

Dear Mr. Rose:

Pratt & Whitney, 400 Main Street, East Hartford, Connecticut will no longer operate the following sources:

Registration Number	Shutdown Date	Description
053-0167	2/24/04	B&W Fast Response Naval Boiler #5
053-0168	3/22/04	B&W Fast Response Naval Boiler #6

These sources will be shutdown as of the date indicated above and are not projected to operate at this facility in the future.

Please consider this notification a request to remove these sources from the Title V permit for this facility (053-0097-TV). If you have any questions or comments, please contact Tanja Ashlin at (860) 565-7929. Thank you.

Sincerely,

Kip Wymar Chief Manufacturing Engineer

Director, Facilities & Services

BUREAU OF AIR MANAGEMENT

MAR 1 5 2004

OFFICE OF THE DIRECTOR PLANNING & STANDARDS

Mr. Ron Freeto, DEP Air Permitting, 5th Floor Mr. Bill Simpson, DEP Inventory Group, 5th Floor Ms. Wendy Jacobs, DEP Emissions Trading, 5th Floor Ms. Liz McAuliffe, DEP, 5th Floor

Mr. Keith Hill, DEP Compliance Assurance & Monitoring, 5th Floor

03/12/04