

REGISTRATION CERTIFICATE
EPAC-10 REV. 7-73



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



STACK NO. 01781000506

| | | | |
|--|--------------------------------------|---------------------------------------|------------------|
| EQUIPMENT CLASSIFICATION | | | REGISTRATION NO. |
| <input checked="" type="checkbox"/> FUEL BURNING | <input type="checkbox"/> INCINERATOR | <input type="checkbox"/> PROCESS MFG. | 01780018 |
| FIRM NAME | | | DATE ISSUED |
| SIKORSKY AIRCRAFT DIV | | | 12/05/73 |
| LOCATION OF EQUIPMENT (No. & Street, Town, Zip) | | | |
| NORTH MAIN ST | | STRATFORD CT 06602 | |
| COMMISSIONER OR HIS REPRESENTATIVE | | | |

Registration No. 178-0018 was made fixed 2/13/11

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Registration No. 178-0018 was modified 6/16/17

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| EQUIPMENT CLASSIFICATION | | | REGISTRATION NO. |
| <input checked="" type="checkbox"/> FUEL BURNING | <input type="checkbox"/> INCINERATOR | <input type="checkbox"/> PROCESS MFG. | 01780019 |
| FIRM NAME | | | DATE ISSUED |
| SIKORSKY AIRCRAFT DIV | | | 12/05/73 |
| LOCATION OF EQUIPMENT (No. & Street, Town, Zip) | | | |
| NORTH MAIN ST | | STRATFORD CT 06602 | |
| COMMISSIONER OR HIS REPRESENTATIVE | | | |

Registration was modified 2/13/11

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Registration was modified 6/16/17

June 16, 2017

Mr. John D. Conway
ESH Manager
Sikorsky Aircraft Corporation
6900 Main Street
Stratford, CT 06615-9129

RE: Modification of Registration Nos. 178-0016, 178-0017, 178-0018 and 178-0019 for Boilers 1-4 located at Sikorsky Aircraft Corporation in Stratford

Dear Mr. Conway:

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 May 5, 2017, 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 Section 22a-3a-6(i). The registrations have been modified as follows:

Registration No. 178-0016 (Boiler 1)

| | Natural Gas | | ULSD | |
|--------------------------|----------------------------|----------------------------|--------------|---------------|
| | Current | Modified | Current | Modified |
| Maximum Heat Input | 49 MMBtu/hr | 43.1 MMBtu/hr | 46 MMBtu/hr | 39.4 MMBtu/hr |
| Maximum Fuel Firing Rate | 47,805 ft ³ /hr | 42,049 ft ³ /hr | 336.8 gal/hr | 288.5 gal/hr |

Registration No. 178-0017 (Boiler 2)

| | Natural Gas | | ULSD | |
|--------------------------|----------------------------|----------------------------|--------------|--------------|
| | Current | Modified | Current | Modified |
| Maximum Heat Input | 49 MMBtu/hr | 44.3 MMBtu/hr | 46 MMBtu/hr | 39 MMBtu/hr |
| Maximum Fuel Firing Rate | 47,805 ft ³ /hr | 43,220 ft ³ /hr | 336.8 gal/hr | 285.6 gal/hr |

John D. Conway
Robert J. Klee
Sikorsky Aircraft Corporation

Registration No. 178-0018 (Boiler 3)

| | Natural Gas | | ULSD | |
|--------------------------|----------------------------|----------------------------|--------------|---------------|
| | Current | Modified | Current | Modified |
| Maximum Heat Input | 49 MMBtu/hr | 39 MMBtu/hr | 46 MMBtu/hr | 37.3 MMBtu/hr |
| Maximum Fuel Firing Rate | 47,805 ft ³ /hr | 38,049 ft ³ /hr | 336.8 gal/hr | 273.1 gal/hr |

Registration No. 178-0019 (Boiler 4)

| | Natural Gas | |
|--------------------------|----------------------------|----------------------------|
| | Current | Modified |
| Maximum Heat Input | 50.4 MMBtu/hr | 42 MMBtu/hr |
| Maximum Fuel Firing Rate | 49,171 ft ³ /hr | 40,976 ft ³ /hr |

Note:

- ft³/hr ratings were calculated using 1,025 Btu/ft³
- gal/hr ratings were calculated using 136,560 Btu/gal

The DEEP will update its emissions inventory to reflect these modifications.

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. Lidia J. Howard of my staff at (860) 424-3539.

Sincerely,

/s/Robert J. Klee

Robert J. Klee
Commissioner

RJK:LJH

cc: Rick Rodrigue, Air Technical Services
Robert Girard, Air Enforcement

Certified Mail

MEMORANDUM

DATE: June 2, 2017

TO: Robert Klee, Commissioner
Robert E. Kaliszewski, Deputy Commissioner
Anne Gobin, Bureau Chief

FROM: Lidia J. Howard, APCE II
Susan Amarello, Supervising APCE
Jaimeson Sinclair, Assistant Director
Gary Rose, Director

SUBJECT: Modification of Registration Nos. 178-0016, 178-0017, 178-0018 and 178-0019 for Boilers 1-4 located at Sikorsky Aircraft Corporation in Stratford

DISCUSSION:

Sikorsky Aircraft Corporation (Sikorsky) submitted a request to modify Registration Nos. 178-0016, 178-0017, 178-0018 and 178-0019 in a letter dated May 5, 2017. Sikorsky recently completed the five year NO_x RACT testing on its four boilers. Due to the current physical conditions, the boilers cannot achieve the 90% or above maximum rated capacity required to comply with stack testing.

The de-rating of the boilers will reduce the maximum heat input and the maximum fuel firing rate limits as follows:

Registration No. 178-0016 (Boiler 1)

| | Natural Gas | | ULSD | |
|--------------------------|----------------------------|----------------------------|--------------|---------------|
| | Current | Modified | Current | Modified |
| Maximum Heat Input | 49 MMBtu/hr | 43.1 MMBtu/hr | 46 MMBtu/hr | 39.4 MMBtu/hr |
| Maximum Fuel Firing Rate | 47,805 ft ³ /hr | 42,049 ft ³ /hr | 336.8 gal/hr | 288.5 gal/hr |

Registration No. 178-0017 (Boiler 2)

| | Natural Gas | | ULSD | |
|--------------------------|----------------------------|----------------------------|--------------|--------------|
| | Current | Modified | Current | Modified |
| Maximum Heat Input | 49 MMBtu/hr | 44.3 MMBtu/hr | 46 MMBtu/hr | 39 MMBtu/hr |
| Maximum Fuel Firing Rate | 47,805 ft ³ /hr | 43,220 ft ³ /hr | 336.8 gal/hr | 285.6 gal/hr |

Registration No. 178-0018 (Boiler 3)

| | Natural Gas | | ULSD | |
|--------------------------|----------------------------|----------------------------|--------------|---------------|
| | Current | Modified | Current | Modified |
| Maximum Heat Input | 49 MMBtu/hr | 39 MMBtu/hr | 46 MMBtu/hr | 37.3 MMBtu/hr |
| Maximum Fuel Firing Rate | 47,805 ft ³ /hr | 38,049 ft ³ /hr | 336.8 gal/hr | 273.1 gal/hr |

Registration No. 178-0019 (Boiler 4)

| | Natural Gas | |
|--------------------------|----------------------------|----------------------------|
| | Current | Modified |
| Maximum Heat Input | 50.4 MMBtu/hr | 42 MMBtu/hr |
| Maximum Fuel Firing Rate | 49,171 ft ³ /hr | 40,976 ft ³ /hr |

Note:

- ft³/hr ratings were calculated using 1,025 Btu/ft³
- gal/hr ratings were calculated using 136,560 Btu/gal

Modifications of registrations issued pursuant to the former RCSA §22a-174-2 have been done in the past (US Army Stratford Army Engine, 2008; Sikorsky Aircraft Corporation, 2012; Allnex USA Inc., 2016) pursuant to the Rules of Practice and a process derived from discussions between the Engineering and Enforcement Sections and the Attorney General's office.

An inspection of the boilers is not deemed necessary as the requested maximum heat input and maximum fuel firing rate were witnessed during the last NO_x RACT test.

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.

RECOMMENDATION:

Based on the information submitted by the applicant, this evaluation and the compliance history review, it is recommended that Registration Nos. 178-0016 thru 178-0019 be modified as requested.

/s/Lidia Howard
Lidia J. Howard
APCE II

6/6/17
Date

REVIEW:

/s/Susan E. Amarello
Susan E. Amarello, Supervising APCE

6/6/2017
Date

/s/Jaimeson Sinclair
Jaimeson Sinclair, Assistant Director

6/8/2017
Date

/s/Gary S. Rose
Gary Rose, Director

6/9/2017
Date