

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHCENTRAL REGION - FIELD OPERATIONS
AIR QUALITY PROGRAM

OPERATING PERMIT

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source described below.

Permit No: <u>67-02041</u>	Source & Air Cleaning Device: <u>Four (4) Boilers No. 4 Oil Fired,</u>
Owner: <u>Defense Distribution Susquehanna</u>	<u>Four (4) Diesel Generators Diesel Fuel</u>
Address: <u>Pennsylvania</u>	<u>Fired, and Combustion Sources</u>
<u>New Cumberland, PA 17070-5001</u>	<u>(See Attached)</u>
Attention: <u>Mr. Jeff R. McCauslin</u>	Location: _____
<u>Deputy Commander, Installation Support</u>	<u>Fairview Township, York County</u>

This permit is subject to the following conditions:

1. That the source and any associated air cleaning devices are to be:
 - a. operated in such a manner as not to cause air pollution;
 - b. in compliance with the specifications and conditions of the applicable plan approval issued;
 - c. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.

~~This operating permit is valid for the specific equipment and location named above. It is issued in accordance with the provisions of the Air Pollution Control Act, Chapter 127 of the rules and regulations of the Department of Environmental Protection. Requests for an operating permit must be submitted in writing and must be accompanied by a fee in the amount of \$600 payable to the "Commonwealth of Pennsylvania - Clean Air Fund". The fee should be made on the attached Interim Application for Renewal of a Permit to Operate Form and submitted to the Department along with the completed Compliance History Form (attached).~~
111 3 1 2002

4. See attached.

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: FEB 1 2000 _____
Program Manager

Southcentral Region 67-02041
York District
Permits

OPERATING PERMIT

PERMIT NO. 67-02041

DEFENSE DISTRIBUTION SUSQUEHANNA PENNSYLVANIA

Sources, Continued

I. Combustion Units, No. 4 Oil Fired

- a. Combustion Unit ID: 031, Erie Boiler #1 (Erie City), 60 mmbtu/hr.
- b. Combustion Unit ID: 032, Erie Boiler #2 (Erie City), 60 mmbtu/hr.
- c. Combustion Unit ID: 033, Erie Boiler #3 (Erie City), 60 mmbtu/hr.

~~d. Combustion Unit ID: 034, Trane Co. Boiler (Trane), 25.2 mmbtu/hr.~~

II. Combustion Sources, Diesel Fired, Rated Capacity > 2.5 mmbtu/hr and < 20 mmbtu/hr

- e. Emergency Diesel Generator #1 (Caterpillar), 1,000 kw (approximately 10 mmbtu/hr).
- f. Emergency Diesel Generator #2 (Caterpillar), 1,000 kw (approximately 10 mmbtu/hr).
- g. Emergency Diesel Generator #3 (Caterpillar), 750 kw (approximately 7.5 mmbtu/hr).
- h. Emergency Diesel Generator #4 (Caterpillar), 750 kw (approximately 7.5 mmbtu/hr).
- i. Hot Water Heater, 3 mmbtu/hr, #2 Oil Fired.
- j. Steam Heater, 2.76 mmbtu/hr, #2 Oil Fired.

~~III. Combustion Sources, Rated Capacity < 2.5 mmbtu/hr~~

~~k. Three (3) Water Heaters each of capacity 1.00, 1.05, and 1.05 mmbtu/hr, #2 Oil Fired.~~

~~l. Emergency Diesel Generator (General), 100 kw (1 mmbtu/hr).~~

~~m. 16 Steam and Hot Water Heaters each of Capacity < 0.5 mmbtu/hr #2 Oil Fired (total heat input capacity 7.5 mmbtu/hr), and one (1) Water Heater 0.550 mmbtu/hr, #2 Oil Fired.~~

~~n. 77 Hot Air Heaters (space heaters) each of Capacity 0.081-0.5 mmbtu/hr #2 Oil Fired and 41 Hot Air Heaters (space heaters) each of capacity 0.08 mmbtu/hr, Natural Gas Fired (total heat input capacity 10.7 mmbtu/hr).~~

~~o. Emergency Diesel Generator for Security (H.S. Motor Corp.), 75 kw (0.75 mmbtu/hr). This is a standby source.~~

OPERATING PERMIT

PERMIT NO. 67-02041

DEFENSE DISTRIBUTION SUSQUEHANNA PENNSYLVANIAConditions, Continued

~~Emergency Cooling Generator for Fire Station (On-site), 6.6 lb (approx. 0.065 units/hr). This is an insignificant source.~~

General Conditions

4. This operating permit constitutes the Department's Reasonably Available Control Technology (RACT) determination as per 25 Pa. Code, §§ 129.91 through 129.95.
- ~~5. The expiration date shown on this RACT operating permit is for state purposes. For Federal Enforcement purposes, this operating permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced and approved by the U.S. Environmental Protection Agency (EPA).~~
6. The facility shall operate Boilers #1 through #4 on #4 Oil or lighter fuel.
7. NO_x emissions from Boilers #1 through #4 shall not exceed 60 lbs/1,000 gals for #4 Oil as per AP42, Table 1.3-2, footnote (d).

Note: When fuel borne nitrogen (FBN) in #4 Oil is greater than 0.49 percent, the following NO_x limits as per AP-42 Table 1.3-1 Footnote (d) may be calculated as per the formula:

$$\text{NO}_x \text{ in lb NO}_2/10^3 \text{ gal} = 20.54 + 104.39(N)$$

Where N is weight percentage of nitrogen in #6 Oil

~~8. NO_x emissions from the emergency diesel generators listed above shall be calculated as per the emissions factors listed in AP42, Table 2.2.2.~~

~~9. NO_x emissions from the heaters listed above shall be calculated as per the emissions factors listed in AP42, Table 1.3.1.~~

Presumptive RACT

~~9. The facility shall maintain and operate the Combustion Unit ID 034 (Boiler #4) as per 25 Pa. Code Section 120.07(b)(3). The facility shall perform an annual adjustment and/or tune up which include the following:~~

~~Inspection, adjustment, cleaning, or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation, as specified by the manufacturer.~~

OPEATING PERMITPERMIT NO. 67-02041DEFENSE DISTRIBUTION SUSQUEHANNA PENNSYLVANIAConditions, Continued

- ~~b. Inspection of the flame pattern or characteristics and adjustments necessary to minimize emissions of NO_x.~~
- ~~c. Inspection of air to fuel ratio control system and adjustments necessary to ensure proper calibration and operation as per the operational manual.~~
- ~~10. The facility shall maintain and operate the combustion sources of heat input capacities each rated at or over 2.5 mmbtu/hr but less than 20 mmbtu/hr as per 25 Pa. Code Section 129.93(c). The presumptive PACT emission limitations on the installation, maintenance, and operation of the source is accordance with manufacturer's specifications.~~

Stack Test

- ~~11. Stack testing to determine the emission rate of NO_x or NO₂ shall be performed on one representative of the combustion sources listed above (a, b, and c).~~
- ~~12. Stack testing shall be performed within 180 days prior to expiration of this operating permit.~~
- ~~13. Stack testing shall be performed in accordance with 25 Pa. Code, Section 120 and the current version of the Department Source Testing Manual.~~
- ~~14. Stack Test Protocol is to be submitted to the Air Quality Program Manager for approval at least 90 days prior to stack test.~~
15. The Department shall be notified at least two weeks in advance of the date and time of the stack test.
- ~~16. Two copies of the stack test results shall be submitted to the Air Quality Program Manager for review. The emissions shall be reported in the following units:~~
- ~~a. Concentration as Measured - parts per million (ppm)~~
 - ~~b. Specific Output - lbs/1,000 gals oil~~
 - ~~c. Mass Rate - lbs/hr~~
 - ~~d. Heat Rate - lbs/mmbtu~~
- ~~17. The Department reserves the right to revise the emission standards listed in Condition No. 7 and to conduct further stack tests based on information obtained during the testing program outlined in Condition No. 11 through 16.~~

OPERATING PERMIT

PERMIT NO. 67-02041

DEFENSE DISTRIBUTION SUSQUEHANNA PENNSYLVANIAConditions, ContinuedRecordkeeping and Reporting

~~18. The company shall maintain records in accordance with recordkeeping requirements of 25 Pa. Code, Section 120.95. At a minimum, this shall include:~~

~~a. Records shall provide sufficient data and calculations to clearly demonstrate that the equipment(s) comply with Condition No. 7.~~

~~b. Data or information required to determine compliance with Condition No. 7 shall be recorded and maintained in a time frame consistent with the averaging period of the equipment(s).~~

~~c. Records shall be retained for at least two years and be made available to the Department upon request.~~

~~19. For the combustion units listed above in Source item I, separate monthly records of fuel usage shall be maintained for each calendar year (January 1 through December 31).~~

~~20. For the combustion sources listed above in Source item II (a) through (b), monthly record of fuel usage may be grouped together and maintained for each calendar year (January 1 through December 31).~~

~~21. The facility shall report to the Air Quality Program Manager any modification to the above sources which is expected to increase NO_x emissions.~~

~~22. Annual reports containing the operating hours, NO_x and VOC emissions, and usage of fuel in each of the boilers and diesel generators listed above in Sources I and II, and the facility fuel oil and natural gas consumption shall be submitted to the York District Supervisor by March 1 of the following year.~~

Operation and Maintenance

23. The above sources shall be operated and maintained in accordance with good air pollution prevention practices or control practices that minimize the emissions of NO_x, CO, and VOC. The sources listed above in Source item III (m) through (p) do not require any restrictions, work practice standards or testing, monitoring, recordkeeping, and reporting requirements.

Incorporation/Supersession of Plan Approvals and Operating Permits

24. This operating permit incorporates the plan approval application for Permit No. 67-302-082 and supersedes the Operating Permit No. 67-302-082 for Trane Co. Boiler, Combustion Unit ID 034.

