



Northeast
Utilities System

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(203) 665-5000

May 28, 1997

D11129

Central Permit Processing Unit
Department of Environmental Protection
79 Elm Street
Hartford, CT 06106

Dear Sir or Madam:

Millstone Nuclear Power Station
Individual Permit Application for Diesel Compressor

Northeast Nuclear Energy Company (NNECO) herein submits an individual permit application for the temporary operation of a Detroit Diesel #PTMS 900 compressor. The compressor will be used during maintenance activities of the service air system at Millstone Nuclear Power Station's (MNPS) Unit 3. The installation date of the compressor will be on or about July 20, 1997 and it is expected to operate 24 hours per day for five to ten days. When the compressor is no longer necessary, NNECO expects to submit to the Department of Environmental Protection (DEP) a written request to withdraw the individual permit.

Check No. 211215 for \$500.00 is enclosed to cover the application fee. NNECO requests that DEP expedite the processing of this application in light of the short lead time before the scheduled service air system maintenance activities take place.

If you have any questions on this individual permit application, or if there is any problem with expediting, please contact Mr. Paul Jacobson, Manager, Environmental Services-Nuclear at (860) 447-1791 extension 2335.

Very truly yours,

Jay K. Thayer

Recovery Officer - Nuclear Engineering and Support Overview

Enclosures

cc: w/o enclosures
S. Scace, Director Nuclear Engineering Programs
NRC

w/ enclosures
Mr. Rickey L. Bouffard, DEP

100002

9706180433 970528
PDR ADOCK 05000423
P PDR



COOL 4/1

ATTACHMENT 1

PERMIT APPLICATION FORM EPAC-22A-1

TEMPORARY USE OF ATLAS COPCO
DIESEL COMPRESSOR
#PTMS900

AT

MILLSTONE NUCLEAR POWER STATION UNIT 3
MAINTENANCE OF SERVICE AIR SYSTEM

PERMIT APPLICATION FOR EPAC-22A-1 (Rev. 10/92)

PERMIT TO CONSTRUCT/OPERATE FUEL BURNING EQUIPMENT

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR MANAGEMENTSECTION A

- Northeast Nuclear Energy Company 860-665-5000
1. LEGAL FIRM NAME: _____ Phone: _____
2. ADDRESS: P.O. Box 270 Hartford, CT 06141-0270
3. EQUIPMENT LOCATION: Millstone Nuclear Power Station - Waterford, CT
4. EQUIPMENT DESCRIPTION (BOILER & BURNER MODEL, I.D. #): _____
Portable Compressor - Atlas COPCO Detroit Diesel PTMS #900
5. EQUIPMENT IS:

☒ New Installation ☐ Replacement

☐ Modification ☐ Previous Permit/Reg. No. _____

6. LIST OTHER SOURCES VENTED TO STACK: None

7. ESTIMATE THE FOLLOWING DATES:

Start-up of Construction Approx. July 20, 1997

Completion of Construction Approx. July 20, 1997

Start-up of Equipment Approx. July 20, 1997

8. DIESEL GENERATORS ONLY:

EQUIPMENT IS:

☐ Emergency ☒ Non-emergency

SECTION BPART I. OPERATIONAL CONDITIONS

- Diesel
- a. Fuel Type(s) (List all): _____
- b. Maximum Fuel Firing Rate(s): 15.7 gallons per hr.
- c. Design Gross Heat Input (MM BTUH): 2.185
- d. Minimum Hourly Exhaust Gas Flow Rate (ACFM): 2140 at 550° F
- e. Stack Height (ft): 8.0; I.D. (ft) 0.5
- f. Minimum Distance to Property Line (ft): 500
- g. Maximum Annual Fuel Consumption(s): 3147 gallons
- h. Sulfur in Fuel (% by weight): 0.05
- i. Maximum Hours of Operation: Daily 24 Annually 240

Office Use Only - EPE No:

PART II. - AIR POLLUTION CONTROL EQUIPMENT

NOTE: Indicate range if applicable

☒ None

☐ Scrubber

Make and Model: _____
 Reagent: _____
 Reagent Flowrate: _____
 Pressure Drop (in H₂O): _____
 Minimum Gas Flowrate at Maximum Rated Capacity (acfm): _____
 PH: _____
 Design Outlet Grain Loading (gr/dscf): _____
 Design Removal Efficiency (%): _____

☐ Electrostatic Precipitator (ESP)

Make and Model: _____
 Number of Fields: _____
 Minimum Gas Flowrate at Maximum Rated Capacity (acfm): _____
 Design Outlet Grain Loading (gr/dscf): _____
 Design Removal Efficiency (%): _____

☐ Cyclone ☐ Multicyclone

Make and Model: _____
 Pressure Drop (in H₂O): _____
 Minimum Gas Flowrate at Maximum Rated Capacity (acfm): _____

☐ Selective Non-catalytic Reduction (SNCR)

☐ Urea ☐ Ammonia

Make and Model: _____
 Injection Rate at Maximum Rated Capacity (lb/hr): _____
 Operating Temperature Range (°F): _____
 Slip Rate (ppm): _____
 Minimum Gas Flow Rate at Maximum Rated Capacity (acfm): _____
 Design Removal Efficiency (%): _____

☐ Selective Catalytic Reduction (SCR)

Make and Model: _____
 Catalyst Type: _____
 Minimum Gas Flow Rate at Maximum Rated Capacity (acfm): _____
 Pressure Drop (in H₂O): _____
 Ammonia Injection Rate at Maximum Rated Capacity (lb/hr): _____
 Ammonia Slip (ppm): _____
 Design Removal Efficiency (%): _____

Office Use Only - EPE No:

PERMIT APPLICATION FOR EPAC-22A-1 (Rev. 7/92)Low NOx Burner

Make and Model: _____
 Guaranteed NOx Emission Rate (lb/MM BTU): _____
 Design Removal Efficiency (%): _____

Particulate Trap

Make and Model: _____
 Design Removal Efficiency (%): _____

Fabric Filter

Make and Model: _____
 Number of Bags in Use: _____
 Air/Cloth Ratio: _____
 Bag Material: _____
 Cleaning Method: _____
 Pressure Drop (in H₂O): _____
 Minimum Gas Flowrate at Maximum Rated Capacity (acfm): _____
 Design Outlet Grain Loading (gr/dscf): _____
 Design Removal Efficiency (%): _____

Other _____

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 the General Statutes provisions regarding false and misleading statements.)

Signed: Jay K. Thayer Name (Printed): Jay K. Thayer
 Title: Recovery Officer Date: _____
Nuclear Engineering and Support Overview

DO NOT WRITE BELOW THIS LINE - OFFICE USE ONLY

It has been determined that (applicable only if checked):

— This source does not meet the applicability requirements of Sections 22a-174-3(a) and -29(b)(1), and therefore an application is not required.

 Signature
 Supervising Air Pollution
 Control Engineer

 Date

Office Use Only - EPE No:

ATTACHMENT 2

CRITERIA POLLUTANT EMISSION CALCULATIONS

TEMPORARY USE OF ATLAS COPCO
DIESEL COMPRESSOR
#PTMS900

AT

MILLSTONE NUCLEAR POWER STATION UNIT 3
MAINTENANCE OF SERVICE AIR SYSTEM