

## VI. Annual VOC Emission Statement Form INV-N2

This form allows for VOC control equipment reporting. If there is no VOC control equipment, then this form need not be completed. One form should be completed for each VOC control device.

1. Reporting Year: Four-digit number representing the calendar year for which emissions data is being submitted (e.g., 1999 for calendar year 1999 emissions)
2. Source Name: The complete facility name.
3. Device Name/Permit Number: Description of the specified device(s) and applicable permit number(s) (e.g., Paint Booth #1 PO-BP-1234)
4. Control Equipment
  - A. Type of Control: The type of VOC control equipment (e.g., thermal oxidizer, regenerative thermal oxidizer, carbon adsorption, etc.).
  - B. ID Number: Any serial number or ID number on the VOC control equipment.
  - C. Model Number: The model number of the VOC control equipment.
  - D. Manufacturer: The VOC control equipment manufacturer's name.
  - E. Installation Date: The date the VOC control equipment commenced operation.
  - F. Devices Controlled: The name and permit numbers of the device(s) controlled by this equipment.
5. Efficiency
  - A. Type of Capture System: The type of capture system (e.g., direct duct, permanent total enclosure, etc.).
  - B. Capture System Efficiency (%): The percentage of VOC emissions captured and sent to the VOC control equipment.
  - C. Method of Determination: How the capture efficiency was determined (e.g., testing, estimation, best guess, etc.).
  - D. Destruction Removal Efficiency (DRE): The percentage of VOC emissions destroyed or removed from the exhaust stream by the VOC control equipment.
  - E. Date Tested: The date of the most recent performance testing done to certify compliance with permit limitations.
  - F. Method of Determining DRE (if not tested): How the destruction removal efficiency was calculated if not by testing. This may include mass balance,

manufacturer's data, etc.

- G. Time on line and operating: Percentage of time the VOC control equipment was online and operating during the year of record. If the VOC control equipment was down for two months the percentage would be  $10/12 = 0.8333$  or 83.33%.
6. Pollutant Throughput Information: The monthly and annual totals of emissions prior to entering the VOC control equipment and after exiting the VOC control equipment.
  7. Comments: Any comments relevant to the data listed. Examples include, "Outlet VOC is from mass balance calculation", "Control equipment was offline in November", or "Exhaust is hard ducted to control equipment, assumed 100% capture efficiency."
  8. Signature: Signature of person completing the form.
  9. Title: Title of person completing form.
  10. Date: Date form is completed.

## **VII. Annual SO<sub>2</sub> Emission Statement Form INV-N1**

This form allows reporting for two separate programs. The first program report is the annual NO<sub>x</sub> emissions statement. The second program report is the New Hampshire Acid Rain Deposition Act. The annual NO<sub>x</sub> emissions statement reporting is addressed in a separate

section.

**SO<sub>2</sub> Emission Statement:** If the facility is subject to the New Hampshire Acid Rain Deposition Act then this form is required. If you are subject there will be a line in the device(s) permit that states "subject to the New Hampshire Acid Rain Deposition Act" or there will be a 1.6 lb SO<sub>2</sub>/mmbtu limitation. If you are still unsure please contact the Division. One form should be completed for each combustion device although identical combustion devices may be listed on one form.

1. Reporting Year: Four-digit number representing the calendar year for which emissions data is being submitted (e.g., 1999 for calendar year 1999 emissions)
2. Source Name: The complete facility name.
3. Device Name/Permit Number: Description of the specified device(s) and applicable permit number(s) (e.g., Boiler #1 PO-BP-1234)
4. Fuel used:
  - A. Fuel Type: The type of fuel used. The SCC code or actual fuel type may be entered (e.g., for an industrial boiler burning #6 oil the entry would be 1-02-004-01 or #6 oil).
  - B. Sulfur: The sulfur content of the fuel usually expressed as a weight percentage.
  - C. Actual Fuel Used/Units: The actual monthly quantities of fuel combusted in the specified device(s) and the associated units (solid fuels are generally reported in tons, liquid fuels are generally reported in gallons or 1000 gallons, gaseous fuels are generally reported in millions of cubic feet).
  - D. MMBTUs: The total heat released by combusting the fuel. This is the quantity multiplied by the heating value of the fuel. Table One from the emission statement reporting package has default heating values for different fuels.
  - E. EMF (emission factor): The estimated rate at which SO<sub>2</sub> is released to the atmosphere and the associated units. If the quantity is reported in tons then the EMF should be in pounds of SO<sub>2</sub> per ton of fuel burned (lbs/ton), if the quantity is reported in 1000 gallons then the EMF should be in pounds of SO<sub>2</sub> per 1000 gallons of fuel burned (lbs/Kgal), if the quantity is reported in millions of cubic feet then the EMF should be in pounds of SO<sub>2</sub> per million cubic feet burned (lbs/MMcf).
  - F. SO<sub>2</sub>: The amount of SO<sub>2</sub> emitted in pounds, this would be the quantity multiplied by the SO<sub>2</sub> emission factor.
5. Totals: The sum of the MMBTUs and SO<sub>2</sub> columns.
6. SO<sub>2</sub> lb/mmbtu: The total pounds of SO<sub>2</sub> divided by the total mmbtus.

7. Comments: Any comments relevant to the data listed. Examples include, ASulfur content of fuel is a weighted average@, AEmission factor is from 07/11/99 stack test@, ASwitched to natural gas in October@, or ADevice was removed in February of this year.@"
8. Signature: Signature of person completing the form.
9. Title: Title of person completing form.
10. Date: Date form is completed.