GASEOUS AND LIQUID FUEL MONITORING FOR COMBUSTION EQUIPMENT (except emergency generators)

(not for coal or other solid fuels)

SIZE (Heat Input) Million BTU/hour *(HHV)*	DATA COLLECTION FREQUENCY (FUEL FLOW USAGE) [4]	RECORDKEEPING METHOD	RECORDING FREQUENCY	PERMIT CONDITION BASIS
heat input > 250	CONTINUOUS	CONTINUOUS RECORDING i.e. strip chart, data logger, etc.	DAILY	GALLONS* / ANY PERIOD OF 365 CONSECUTIVE DAYS [1]
100 < heat input ≤ 250	CONTINUOUS	CONTINUOUS RECORDING i.e. strip chart, data logger, etc.	DAILY	GALLONS* / ANY PERIOD OF 365 CONSECUTIVE DAYS [1]
20 < heat input ≤ 100	CONTINUOUS	CONTINUOUS OR MANUAL	MONTHLY	GALLONS* / ANY 12 CONSECUTIVE MONTHS [2]
10 < heat input ≤ 20	CONTINUOUS	CONTINUOUS OR MANUAL	MONTHLY	GALLONS* / ANY 12 CONSECUTIVE MONTHS [2]
1 ≤ heat input ≤ 10 [3, 5]	CONTINUOUS	CONTINUOUS OR MANUAL	ANNUAL [5]	GALLONS* / CALENDAR YEAR [5]

* GALLONS or STANDARD CUBIC FEET

NOTES

1. Gallons for any 365 consecutive days is computed by adding the fuel consumed on a given day to that consumed in the preceding 364 days.

2. Gallons for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months.

3. No monitoring, recordkeeping, or reporting should be required for combustion equipment under 10 MM Btu/hour (burning any fuel), which will be permitted at maximum capacity, i.e. burning the maximum fuel flow for 8760 hours per year. However, the maximum annual fuel use still needs to be listed as an applicable requirement with “none” in monitoring, recordkeeping, and submittal/action columns.

4. Direct fuel flow measurement is not required for Simple-Cycle Turbines that are Peaking Units. A peaking unit has an average capacity factor of no more than 10% during the previous 3 calendar years and a capacity factor of no more than 20% in each of those calendar years. If these conditions are met, the Operating Permit can allow an electrical output meter and calculations for BTU/year and fuel-use/year.

5. The recording frequency for the boilers subset of ≥ 5 MM Btu/hour and < 10 MM Btu/hour will be MONTHLY (GALLONS* / ANY 12 CONSECUTIVE MONTHS [2]), effective 2009. Per N.J.A.C. 7:27-19.7(g)1, industrial/commercial/institutional boilers or other indirect heat exchangers having heat input rates of ≥ 5 MM Btu/hour and < 10 MM Btu/hour shall adjust the combustion process annually in accordance with N.J.A.C. 7:27-19.16, that requires recording the type and amount of fuel use in the 12 months prior to the combustion adjustment first required in 2010.

   The recording frequency for 10 MM Btu/hour boilers will be MONTHLY (GALLONS* / ANY 12 CONSECUTIVE MONTHS [2]), effective 2007. Per N.J.A.C. 7:27-19.7(g)2, industrial/commercial/institutional boilers or other indirect heat exchangers having heat input rate of 10 MM Btu/ hour shall adjust the combustion process annually in accordance with N.J.A.C. 7:27-19.16, that requires recording the type and amount of fuel use in the 12 months prior to the combustion adjustment first required in 2008.