

Site-Specific Fuel Analysis Plan

Company Name

City, State

40 CFR 63, Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*, provides for affected sources to meet emissions limits based on site-specific fuel analysis and a “Health-Based Eligibility Determination” (HBED). The HBED must be submitted no later than September 13, 2006, and must be followed by a compliance demonstration that is due March 11, 2008.

In order to complete the compliance determination, the rule requires that a fuel analysis plan be submitted at least sixty days prior to compliance demonstration sampling and that the analysis results be reported no more than sixty days after completion.

The following is the Site-Specific Fuel Analysis Plan for Company Name located at Physical Address, Any State, to be used in conjunction with the future compliance demonstration.

A minimum of three composite fuel samples (with each composite will consist of three separate samples) will be collected and analyzed for each fuel type according to the procedures in 40 CFR 63.7521, and as described below. Facility personnel will be collecting each composite sample, which will be analyzed by an independent laboratory.

Solid Fuel (i.e. biomass, coal [non-mixed fuel only])

Biomass means unadulterated wood, wood residue and wood products. **Unadulterated** means wood or wood products that have not been painted, pigment stained or pressure treated; and also means plywood, particle board, strand board and other types of wood bound by glue and resins.

We propose to obtain samples in the following manner:

Belt or Screw Feeder (Minimum of 3 Samples for each composite)

1. Stop feeder/auger screw and withdraw a 6-inch wide sample from the full width of the belt or auger screw. Make sure to get fines and large course material as well (see attached sample location drawing).
2. Each Composite Sample must be **2 lbs minimum** and placed in a clean plastic Ziploc bag. Label the bag according to sample obtained.
3. Prepare the Chain of Custody.
4. Repeat steps 1 & 2 at least two more times with each sample being 1-hour apart during continuous feed.
5. Sign chain of custody sheet.
6. Indicate the number of each type of sample (biomass, wood, coal etc.) being sent to the lab, in the top of the Lab Instructions.
7. Place samples and lab instructions in an express package and send to a certified lab or in our case hand deliver to the local Lab.

Fuel Analysis for (biomass, solid fuel)

A fuel analysis for each type fuel burned shall be conducted according to 40 CFR 63.7521 and Table 6 and establish operating limits according to 40 CFR 63.7530 and Table 8 in Subpart DDDDD. The 90th percentile confidence level fuel concentration of the composite samples shall be calculated according the equation ($P_{90} = \text{mean} + (\text{SD} \times t)$) found in 40 CFR 63.7530(d) (2).

Table 1: Boiler Information

Boiler ID	Boiler Size (MMBtu/hr)	Boiler Type	Fuels Burned in the Boiler
		Watertube	Wood Only
		Watertube	Wood Only

Table 2: Analytical Methods (40 CFR 63.7521 and Table 6 of Subpart DDDDD)

Parameter or Pollutant Measured	Analytical Method	Expected Minimum Detection Limit
Sample Preparation	ASTM D5198-92	NA
Heat Content	ASTM E711-87	100 BTU/lb
Moisture Content	ASTM D3173-02	0.01 %
Mercury	SW-846-7471A	0.002 mg/kg
Total Selected Metals	SW-846-3050B + 6010B	0.04 mg/kg
Hydrogen Chloride	SW-846-9250 + 5050	100 mg/kg