

# Site-Specific Fuel Analysis Plan

## Facility Name

### City, North Carolina

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.

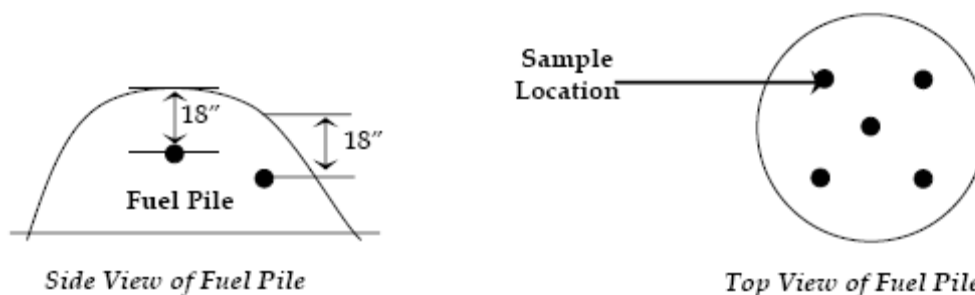
The following is the Site-Specific Fuel Analysis Plan for Facility Name located at Physical Address, North Carolina, to be used in conjunction with the future compliance demonstration.

A minimum of three composite fuel 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.

These samples will be taken in equally spaced time increments through out a typical 24-hour boiler operating period, representative of normal operation. (Example: 5:00 a.m., 1:00 p.m. and 9 p.m.)

#### Sampling from a Fuel Pile or Truck (63.7521(c) (2) and (d))

1. For each composite sample, a minimum of five sampling locations uniformly spaced over the surface of the pile will be selected;
2. At each sampling location, dig into the pile to a depth of 18 inches. Insert a clean flat square shovel into the hole and withdraw a sample, making sure to include large pieces;



3. Transfer each sample into a clean plastic bag and label the bag;
4. For each composite sample, pour and thoroughly mix the five samples over a clean plastic sheet;
5. Break sample pieces larger than three inches into smaller sizes;
6. Make a pie shape with the entire composite sample and subdivide it into four equal parts;
7. Separate one of the quarter samples as the first subset;
8. If needed, grind the sample;

9. Use the procedure in step 6 to obtain a one-quarter sample for analysis;
10. Place the composite sample in a clean plastic bag and label the bag;
11. Repeat steps 1 through 10 to obtain at least three composite samples;
12. Send the labeled composite samples with a signed chain of custody sheet to an independent lab for analysis.

<b>Table 1: Boiler Information</b>			
	<b>Boiler Size</b>	<b>Boiler</b>	
<b>Boiler ID</b>	<b>(MMBtu/hr)</b>	<b>Type</b>	<b>Fuels Burned in the Boiler</b>
		Watertube	Wood Only
		Watertube	Wood Only

<b>Table 2: Analytical Methods (40 CFR 63.7521 and Table 6 of Subpart DDDDD)</b>		
<b>Parameter or</b>		<b>Expected Minimum</b>
<b>Pollutant Measured</b>	<b>Analytical Method</b>	<b>Detection Limit</b>
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