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To: Jim Eddinger, US EPA

From: Amanda Singleton, ERG

Subject: MACT Floor Analysis (2010) for the Industrial, Commercial, and Institutional Boilers and Process Heaters National Emission Standards for Hazardous Air Pollutants – Major Source

The purpose of this memorandum is to present the methodology and results of the maximum achievable control technology (MACT) floor determinations for boilers and process heaters at major sources of hazardous air pollutants (HAP). We determined the MACT floors using data obtained from two recently implemented Information Collection Requests (ICRs) approved under OMB Control No. 2060-0616: ICR numbers 2286.01 and 2286.03.^{1,2} Data from both phases—the 2008 Combustion Survey and the 2009 Test Plan for boilers and process heaters—were analyzed for currently operating boilers and process heaters. We ranked emission test averages for each boiler and process heater, calculated MACT floor averages, and conducted emission data variability analyses. We determined the MACT floor emission limits based on the results of these analyses. The following sections address the methodology used to calculate pollutant limits for existing and new sources. The memorandum is organized as follows:

- 1.0 Background of MACT Floor Methodology
- 2.0 Floors for Existing Sources
 - 2.1 Methodology for MACT Floors for Existing Sources
 - 2.2 Incorporating Data Variability
 - 2.3 Calculating Emission Limits
 - 2.4 Data Not Considered in the MACT Floor Analysis for Existing Units
- 3.0 Floors for New Sources
 - 3.1 Methodology for MACT Floors for New Sources
- 4.0 Calculating Floors for the Alternative Solid Waste Definition
- 5.0 Calculating Floors with a Minimum of Five Test Results

Appendix A: Hg and HCl Variability as a Function of Fuel Variability

Appendix B: CO Variability as a Function of Boiler Load

Appendix C: Ranked Emission Data for MACT Floor Analysis

Appendix D: Upper Prediction Limit (UPL) Calculations for Existing Sources

Appendix E: Data Excluded from the Analysis for Existing Sources

Appendix F: UPL Calculations for New Sources

Appendix G: Ranked Emission Data and UPL Calculations for Existing Sources According to the Alternative Non-Hazardous Solid Waste Definition

1.0 Background of MACT Floor Methodology

Section 112 of the Clean Air Act (CAA), as amended in November 1990, requires the U.S. Environmental Protection Agency (EPA) to set emission standards for HAP emitted by major stationary sources based on the performance of the MACT. Pollutants emitted by boilers and process heaters include particulate matter (PM); mercury (Hg); non-mercury metallic HAP; halogenated compounds (HCl, HF, and Cl₂); and organic HAP, including volatile organic compounds, dioxin, and polycyclic organic matter.

On September 13, 2004, under authority of section 112 of the CAA, EPA promulgated national emission standards for hazardous air pollutants (NESHAP) for new and existing industrial/commercial/institutional boilers and process heaters. On June 19, 2007 the United States Court of Appeals for the District of Columbia Circuit (DC Circuit) vacated the NESHAP for industrial/commercial/institutional boilers and process heaters. The vacature occurred simultaneously with the vacature of the CISWI solid waste definition rule (see *Natural Resources Defense Council v. EPA*, 489 F. 3d 1250, 1257–61 [D.C. Cir. 2007]). In this decision, the court determined that any combustion device firing “any” solid waste material is subject to Section 129 instead of Section 112. As a result, EPA has categorized units as either waste burning units, or boilers and process heaters, consistent with the EPA proposed definition for nonhazardous solid waste. The new MACT floor analyses do not consider emissions from waste burning units in the ranking analysis. If boilers and process heaters were burning small amounts of waste materials or had indicated that they would stop burning materials that were considered to be solid wastes, it is possible that a unit firing waste materials is in the boiler inventory, but any emission test data based on tests when the unit was firing any amount of waste materials was not included in the analysis. In the Emission database, the table ‘Data: Emission Test’ and the field ‘Test Burning Proposed Option Waste?’ indicates whether or not the test is firing waste materials, as defined under the proposed solid waste definition. In the ‘Data: Fuel Analysis’ table the field ‘Proposed Option Waste?’ denotes if a certain fuel is covered by the proposed solid waste definition.³ As the definition of solid waste changes, EPA will continue to adjust combustion unit classifications and the subsequent MACT floor analysis until the solid waste definition discussed above is promulgated.

The revised MACT floor analysis discussed in this memorandum factors in other recent court decisions that impacted the MACT floor analysis methodology used in the 2004 vacated rule. The March 2007 court decision (*Sierra Club v. EPA*, 479 F. 3d 875 [DC Cir. 2007]) (*Brick MACT*) found the following:

- Floors for existing sources must reflect the average emission limitation achieved by the best-performing 12 percent of existing sources, not levels EPA considers to be achievable by all sources (479 F. 3d at 880–81).
- EPA cannot set floors of “no control.” The court reiterated its prior holdings, including *National Lime Association*, confirming that EPA must set floor standards for all HAP emitted by the major source, including those HAP that are not controlled by at-the-stack control devices (479 F. 3d at 883).
- EPA cannot ignore non-technology factors that reduce HAP emissions. Specifically, the court held that “EPA’s decision to base floors exclusively on technology even though non-technology factors affect emissions violates the Act” (479 F. 3d at 883).
- EPA may not use emission levels of the worst performers to estimate variability of the best performers without a demonstrated relationship between the two (479 F. 3d at 882).

2.0 Floors for Existing Sources

2.1 Methodology for MACT Floors for Existing Units

For existing sources, MACT cannot be less stringent than the average emission limitation achieved by the best performing 12 percent of existing sources (for which emission information is available) for categories and subcategories with 30 or more sources or the best performing five sources for subcategories with less than 30 sources. The size of the subcategory was determined according to the number of units in the boiler and process heater inventory, not the number of units within each subcategory that had emission data available.

The new MACT floor analysis has the following differences from the analysis conducted for the 2004 vacated rule:

- 1) In response to the concern over MACT floor analyses based on control technologies, the new approach ranks the performance of each pollutant according to the lowest emitting (based on stack test data), regardless of control technologies installed on the boiler/process heater.
- 2) Variability factors for Hg and chlorine (Cl) were assessed using fuel variability only from units in the top 12 percent. Fuel variability was not used for units outside the top 12 percent.
- 3) Statistical variability was incorporated using the 99% Upper Prediction Limit (UPL).
- 4) Numerical limits were established for each HAP for each subcategory.
- 5) The number and type of subcategories were adjusted using unit design as the basis for the subcategorization.

Based on the 2008 Combustion Survey, there are 13,555 boilers/process heaters currently in operation at major sources in the United States. Emission test data and additional Hg and Cl fuel analysis data from uncontrolled liquid units were ranked and analyzed. These data were obtained from the Boiler Survey, when available, or when requested under the ICR phase II testing plan, and compiled into an emissions database.³ We used this database to develop the MACT floors.

We identified the lowest emission test average (mean) for each pollutant at each boiler/process heater. We did not include any data from units that indicated in their ICR responses that they were permanently shut down. For units with a mix of detection levels and measures, we used the reported numerical detection level. If a source reported “zero” or simply “ND” as the value for a test run, that run was not used to calculate the average of the test. Similarly, if a unit reported data in the ICR that were not standardized to the appropriate units of measure, or that did not provide operating and stack test parameters necessary to standardize the emissions data, the data were not used in the MACT floor analysis. For uncontrolled liquid units, we included reported fuel analysis data for Hg and Cl (converted to HCl) in the ranking analysis for the MACT floors for units designed to burn liquid fuels. Details on how these data were standardized are discussed in another memorandum.⁴

Next, we ranked the minimum stack test means for each pollutant in each subcategory. We conducted this ranking according to the fuels the unit was designed to burn for Hg, PM, and HCl. For

carbon monoxide (CO) and dioxin/furan, we conducted a ranking according to the combustor design categories at solid fuel units, and according to the fuel the unit was designed to burn for liquid and gaseous fuel units. Because emissions of fuel-based HAP (e.g., Hg, acid gases, filterable particulate) depend on the fuel used rather than the design of the combustion chamber, MACT floors for fuel-based HAP were based on data from all boilers and process heaters designed to burn the same type of fuel. For boilers/process heaters burning multiple fuel types, we reviewed the emission database to determine the relative heat input percentages each fuel category contributed during the test. If a test was fired with at least 10 percent of the heat input from coal, the unit was classified as designed to burn coal. If the test was fired with at least 10 percent biomass and less than 10 percent coal, the unit was classified as designed to burn biomass. If the test was fired with at least 10 percent liquid and less than 10 percent coal and less than 10 percent biomass, the unit was classified as designed to burn liquid. If a test was fired with at least 10 percent of the heat input from a process gas (other than refinery gas) or some other type of gas other than natural gas (e.g. landfill gas, digester gas), and less than 10 percent of the heat input came from any solid or liquid fuel, the unit was classified as a unit designed to burn other gases. If a unit fired refinery gas or natural gas, and less than 10 percent of the heat input came from any other fuel, the unit was classified as designed to burn natural gas/refinery gas. Some units reported test burns on more than one material. For example, units burning oil during periods of gas curtailment might have submitted test results when firing natural gas and when firing fuel oil. The emission test data based on fuel oil would have been characterized and ranked in the “boilers designed to burn liquids” subcategory, but the emission test data based on natural gas would have been ranked and analyzed in the “boilers designed to burn natural gas” subcategory.

If an emission test result was conducted on a common stack, and the units feeding that stack were boilers and process heaters in the same subcategory, each unit venting to a common stack was treated as a separate data point. For example, if PM emissions were reported at a common stack for boilers #1 and #2, we would have counted the results of those tests twice, to represent data from two units. This approach avoids under estimating the number of sources for which data is available.

Emissions of organic HAP, including THC, CO, and dioxin/furans fluctuated according to the design of the combustion chamber. Combustor design subcategories considered in this analysis were Pulverized Coal (PC), Fluidized Bed (FB), and Stoker/Other for units designed to burn coal and Stoker/Sloped Grate/Other, FB, Dutch Oven (including Suspension Burners), and Fuel Cells for units designed to burn biomass. Because of these differences, MACT floors for dioxin/furans and CO were based on unique combustor design characteristics in addition to the type of solid fuel the boiler is designed to burn.

We then identified minimum emission test averages in the best performing 12 percent (or top 5 units) for each subcategory. To determine the number of boilers/process heaters in the best-performing 12 percent, we multiplied the number of sources with emission data in each subcategory by 12 percent and rounded up to the nearest whole integer. For example, 12 percent of a category with 103 emission test averages is 12.36, so we would have averaged the emission test data from the top 13 boilers/process heaters. This roundup approach is consistent with the approach used by statisticians in survey sampling.⁵

2.2 Incorporating Data Variability

Three types of data variability were evaluated to determine the emission levels achieved by the best performing sources over the long term. This section discusses the statistical variability, fuel analysis variability, and boiler operating load variability considered and incorporated into the MACT floor analysis.

Statistical Variability^{6, 7}

After identifying the units, based on minimum emission test averages, in the top 12 percent (or top 5 units), we identified all the emission test runs reported for those top-performing boilers/process heaters to be in the same subcategory. By including multiple emission tests from units with a test average in the top 12 percent, EPA can evaluate intra-unit variability of emission tests over time, considering variability in control device performance, unit operations, and fuels fired during the test. We evaluated two statistical options based on statistical methods used in previous EPA rulemakings, the 99% upper limit and the 99% UPL.

The Upper Limit (UL) is roughly equivalent to the 99th percentile of the actual data distribution for the sample. While the UL has been utilized by EPA in some of its analyses (see Hospital, Medical, Waste Incinerators rulemaking), it assumes that the data used represent the population rather than a random sample from that population. The data used to calculate statistical variability on the MACT floor analysis do not represent data from the entire population of affected boilers and process heaters in this source category. Instead, EPA has collected a sample of emission data from random units in each subcategory. Since the data used to calculate the MACT floor represents a sample of the population of affected units, EPA determined that the upper limit was not an appropriate interval to use for assessing variability.

Instead, EPA selected the upper prediction limit (UPL). A prediction interval for a future observation is an interval that will, with a specified degree of confidence, contain the next (or some other pre-specified) randomly selected observation from a population. In other words, the prediction interval estimates what future values will be, based on present or past background samples taken. Given this definition, the UPL represents the value we can expect the mean of three future observations (three-run average) to fall below, based on the results of the independent sample of size (n) from the same population. In other words, if we were to randomly select a future test condition from any of these sources (i.e., average of three runs), we can be 99 percent confident that the reported level will fall below a MACT floor emission limit calculated using a UPL. Since a source must demonstrate compliance with the MACT floor using the average of a three-run test, the appropriate test condition to use to assess variability is 3. If a source had to demonstrate compliance by showing that each individual test run was below the MACT floor emission limit, it would be appropriate to use a future test condition of 1.

In light of comments made during the Hospital, Medical, Infectious Waste Incinerator rulemaking, we first determined the distribution of the test run data for the best-performing 12 percent of units within each subcategory prior to calculating UPL values. To evaluate the distribution of the best

performing dataset, we computed the skewness and kurtosis statistics and then conducted the appropriate small-sample hypothesis tests.

The skewness statistic (S) characterizes the degree of asymmetry of a given data distribution. Normally distributed data have a skewness of 0. A skewness statistic that is greater (less) than 0 indicates that the data are asymmetrically distributed with a right (left) tail extending toward positive (negative) values. Further, the standard error of the skewness statistic (SES) is given by $SES = \sqrt{6/N}$ where N is the sample size. According to the small sample skewness hypothesis test, if the skewness statistic (S) is greater than two times the SES, the data distribution can be considered non-normal.

The kurtosis statistic (K) characterizes the degree of peakedness or flatness of a given data distribution in comparison to a normal distribution. Normally distributed data have a kurtosis of 0. A kurtosis statistic that is greater (less) than 0 indicates a relatively peaked (flat) distribution. Further, the standard error of the kurtosis statistic (SEK) is given by $SEK = \sqrt{24/N}$ where N is the sample size. According to the small sample kurtosis hypothesis test, if K is greater than two times the SEK, the data distribution is typically considered to be non-normal.

We applied the skewness and kurtosis hypothesis tests to both the reported test values and the lognormal values of the reported test values. If the S and K statistics of the reported dataset were both less than twice the SES and SEK, respectively, the dataset was classified as normally distributed. If neither of the S and K statistics or only one of these statistics was less than twice the SES or SEK, respectively, then the skewness and kurtosis hypothesis tests were conducted for the natural log-transformed data. Then the distribution most similar to a normal distribution was selected as the basis for calculating the UPL. If both the reported values and the natural-log transformed reported values had S and K statistics that were greater than twice the SES or SEK, respectively, the normally distributed dataset was selected as the basis of the floor to be conservative. If the results of the skewness and kurtosis hypothesis tests were mixed for the reported values and the natural log-transformed reported values, we also chose the normal distribution to be conservative. We believe this approach is more accurate and obtained more representative results than a more simplistic normal distribution assumption.

After determining the distribution of each dataset, a student's t-test statistic was used. The t-test was used in the promulgated HMWI rulemaking and proposed Portland Cement rulemaking, and it is more appropriate for smaller sample sizes. The t-statistic is calculated using the following Excel equation:

$$t\text{-statistic} = \text{TINV}(2*(1-0.99),n-1)$$

Where:

n = the number of test runs from units in the top 12 percent

Next, the average (or sample mean) and sample standard deviation of the test runs were calculated. We calculated the 99% UPL values (which was determined to be the appropriate percentile to use in setting MACT limits in the Hospital/Medical/Infectious Waste Incinerators NSPS) based on the test run data for

those units in the best-performing 12 percent. Since the compliance with the MACT floor emission limit is based on the average of a three-run test, the UPL is calculated by:

$$UPL = \bar{x} + t(0.99, n-1) \times \sqrt{s^2 \times \left(\frac{1}{n} + \frac{1}{m} \right)}$$

Where:

n = the number of test runs

m = the number of test runs in the compliance average

This calculation was performed using the following two Excel functions:

Normal distribution: 99% UPL = AVERAGE (Test Runs in Top 12%) + [STDEV(Test Runs in Top 12%) x TINV(2 * 0.99, n-1 degrees of freedom)*SQRT((1/n)+(1/3))], for a one-tailed t-value (with 2 x probability), probability of 0.01, and sample size of n

Lognormal distribution: 99% UPL = EXP{AVERAGE(Natural Log Values of Test Runs in Top 12%) + [STDEV(Natural Log Values of Test Runs in Top 12%) x TINV(2 * 0.99, n-1 degrees of freedom) * SQRT((1/n)+(1/3))]}, for a one-tailed t-value (with 2 x probability), probability of 0.01, and sample size of n

Fuel Analysis Variability

The UPL analysis discussed above takes into account intra-unit variability within test runs, and since the compliance date of the vacated boiler MACT was after the date the rule was vacated, often there were only one or two tests available at a unit. These tests represent a small snapshot of the overall unit operations, and based on the fuel analysis data reported in the Boiler Survey and the Phase II test plan, fuel-related HAP levels in the various fuels can vary significantly over time. These fuel-related HAP levels are not well-represented in a small sample of emission stack test results.

Fuel analysis data for Hg and HCl (converted from Cl) were standardized to a lb/million Btu (lb/mmBtu) basis, using data standardization techniques discussed in another memorandum.⁴ Next, the units that reported fuel analysis data paired with stack tests were identified by using the database field in the Data: Fuel Analysis table, "FM_analysiswithEmissionTest". Since the Phase II test plan requested paired fuel analysis data for each stack test run, the fuel analysis "Sample ID" associated with each fuel analysis were matched up with the individual test run "Test ID." Since fuel sampling IDs reported in the spreadsheet and test IDs reported in the Electronic Reporting tool sometimes had different naming conventions, the IDs of the units in the top 12 percent were reviewed and a secondary test ID column was created in order to allow these two data tables to be linked and compared.

Single-Fuel Units

For boilers combusting a single fuel during a stack test, a control efficiency was calculated by comparing the stack test result for Hg or HCl on each test run to the inlet HAP content from the fuel

analysis corresponding to that test run. This control efficiency was calculated using the following emission database fields and this Microsoft Access equation:

$$\text{Control Efficiency} = \frac{([\text{Data: FuelAnalysis}]![\text{StdFuelBased EF (lbpermmBtu)}] - [\text{Data: EmissionsTest}]![\text{Averaging Value}])}{[\text{Data: FuelAnalysis}]![\text{StdFuelBased EF (lbpermmBtu)}]}$$

Next, the average (mean) of these calculated control efficiencies was calculated for each unit with paired emission test and fuel analysis data. The average control efficiency was applied to all standardized fuel analysis data reported for the boiler or process heater to calculate a control-based emission factor for the fuel HAP content for each reported analysis. The maximum fuel HAP content at each unit, after applying the control efficiency, was divided by the average stack test result for that unit to identify cases where fuel HAP content may exceed the results of a stack test.

Multi-Fuel Units

For boilers combusting multiple fuels during a test, the HAP content of each individual fuel varies over time, and the relative heat input contribution of multiple fuel types can also vary over time. To evaluate the impact of fuel variability at multi-fuel boilers, the average reported fuel input rate, standardized to mmBtu/hr, for each of the fuels fired during the test was calculated. Next the Hg or HCl (converted from Cl) content of each fuel was multiplied by the fuel input rate to calculate an emission rate from each fuel type, on a lb/hr basis. The fuel resulting in the highest Hg or HCl emissions, on a lb/hr basis, was the predominant driver of Hg or HCl emissions, and its variability was used to evaluate the variability in HAP content over subsequent fuel analyses of that fuel.

After the predominant fuel for Hg and HCl was identified, the same control efficiency calculations used to evaluate variability for single-fuel units were applied. Then the maximum fuel HAP content of the predominant fuel at each unit was divided by the average stack test result for that unit to identify cases where fuel HAP content exceeded the results of a stack test.

Review of Outliers

The calculated variability factors for Hg and HCl were ranked in ascending order for each subcategory (coal, biomass, and liquid), and the interquartile range (IQR) of the variability factors was computed to identify any variability factors that might be outliers. No Hg or HCl fuel analysis variability factors could be calculated for gas-fired units. Variability factors outside of the IQR were not considered in further analysis. Appendix A-1 shows the IQR analysis for Hg and HCl.

Developing a Fuel Variability Factor for Each Fuel Category

Because variability is considered only from units identified to be in the top 12 percent, the list of fuel analysis data was limited to only those units that were in the top 12 percent for Hg or HCl. To calculate the MACT floor emission limit for Hg and HCl, the 99% UPL emission limit was multiplied by the average (mean) of all fuel variability factors for units in the top 12 percent of each fuel category.

Appendix A-2 shows the calculated fuel variability factors used in the MACT floor analyses for coal, biomass, and liquid fuels.

Load Variability

For combustion-based emissions, such as CO, formaldehyde, dioxin/furan, and total hydrocarbons, the formation of emissions are dependent on the design of the combustion unit; the MACT floor emission limits for CO and dioxin/furan are subcategorized according to combustor design for boilers burning solid fuels. However, the emissions can fluctuate with changes in the operating rate of a boiler, or “boiler load”. Boiler load was divided into two subcategories, depending on the role of a boiler at a facility. A boiler providing a relatively constant amount of steam to a facility is considered a “base-loaded” unit, and a boiler that adjusts its operating parameters to meet varying levels of demand in a plant over time is referred to a “load-following” unit.

Stack tests for CO are conducted at near full-load conditions, and although the MACT floor limits based on stack test results achieved when operating at or near full load, the MACT floor emission levels for CO might not be achieved when best performing units are operating at lower loads. For units greater than 100 mmBtu/hr, the proposal required units to demonstrate compliance with emission limits by using a CO continuous emissions monitoring system (CEMS) and calculating a 30-day rolling average. The Phase II ICR collected 30-day monitoring data on an hourly average interval for CO, , and THC from six different boilers. Two boilers fired coal, two fired biomass, and two fired gas (one refinery gas and one natural gas). Each unit submitting 30-day monitoring data also reported the boiler load during each hourly average. These monitoring data were reviewed and standardized to a common basis, ppm @ 3% O₂. Then, each unit’s CO and THC data were plotted against the boiler load. Data corresponding to malfunction in the CO, THC, or load monitor were removed from the dataset prior to plotting. The graphs containing the CO emissions as a function of boiler load are shown in Appendix B.

Each graph was reviewed to examine the variability of CO emissions as a function of boiler load. The emissions included all periods of normal operation as well as start-up and shutdown. No data associated with periods of malfunction were included in the graphs. Based on the six graphs, only the boilers firing biomass appear to show an inverse relationship between load and emissions. For these two units firing biomass fuels (TXDibollTemple-Inland, PB-44; ARDomtarIndustries, PB1) there was a trend of increased CO emissions at lower boiler loads. Of these two units, only the TXDibollTemple-Inland, PB-44 unit was in the top 12 percent for CO emissions at Dutch oven boilers. The 30-day period reported by TXDibollTemple-Inland included boiler loads ranging from 17 to 77 percent of the rated design capacity of unit PB-44 and represents a boiler with large fluctuations in load. The ARDomtarIndustries, PB1 boiler is no longer in the boiler inventory, as it was identified as burning fuel cubes, a waste material under the proposed solid waste definition rule; therefore, its data was not used to assess CO variability as a function of boiler load.

A daily average was calculated for CO emissions from TXDibollTemple-Inland unit PB-44, based on the hourly averages reported for the 30-day CO and THC monitoring data. The result was 1,113 ppm @ 3% O₂. This average is similar to the numerical limited calculated using 99% UPL for the dutch oven

and suspension burner subcategory. Therefore, we concluded that the statistical variability correctly accounts for variability in CO emissions over various boiler loads.

2.3 Calculating Emission Limits

We determined emission limits for each MACT floor option and pollutant by rounding up the UPL values less than 100 to one significant figure, rounding the UPL values between 100 and 1,000 to two significant figures, and rounding up the UPL values greater than or equal to 1,000 to three significant figures. This approach allows for an appropriate level of precision depending on the scale of the measured value. For example, we determined the MACT floor emission limit for Hg at coal boilers/process heaters by rounding up the 99% UPL value after applying the fuel variability factor for Hg (1.52E-06 pounds per million Btu [lb/mmBtu]) to 2.64E-06 lb/mmBtu. For CO emissions, calculated ppm values less than 1 ppm were rounded up to 1 ppm, because measurement precision of CO emissions less than 1 ppm were expected to be difficult for some sources. For CO emissions between 1 and 10 ppm, the emissions were rounded up to the nearest whole integer. For CO emissions above 10 ppm, CO emissions were rounded up to the nearest 10 ppm. It should be noted that if the UPL values were rounded down, then the possibility exists that the best-performing units comprising the MACT floor might not be able to achieve the emission limit on an ongoing basis. In all cases, the significant figure approach and associated rounding does not meaningfully change the emission limits. The emission limits are summarized for each subcategory in Table 2. The data ranked and analyzed for the MACT floor at existing units is shown in Appendix C, and the UPL floor calculations for each subcategory and each pollutant are shown in Appendix D.

Table 1: Summary of Calculated MACT Floor Limits for Existing Boilers and Process Heaters at Major Sources of HAP

Subcategory	PM-Filterable (lb/mmBtu)	Hg (lb/mmBtu)	HCl (lb/mmBtu)	CO (ppm @3% O ₂)	TEQ dioxin/Furan (ng/dscm @7% O ₂)
Boilers and Process Heaters Designed to Burn Coal	2.00E-02	3.00E-06	2.00E-02		
Stoker/Sloped Grate/Other				50	3.00E-03
FB				30	2.00E-03
PC				90	4.00E-03
Boilers and Process Heaters Designed to Burn Biomass	2.00E-02	9.00E-07	6.00E-03		
Stoker/Sloped Grate/Other				560	4.00E-03
Fuel Cell				270	2.00E-02
FB				250	2.00E-02
Dutch Oven				1010	3.00E-02
Boilers and Process Heaters Designed to Burn Liquids	4.00E-03	4.00E-06	9.00E-04	1	2.00E-03
Boilers/PH Designed to Burn Natural Gas, Propane, LPG, Refinery Gas, Excluding Metallurgical Furnaces	3.00E-02	2.00E-07	2.00E-04	20	1.00E-02
Metallurgical Process Furnaces Designed to Burn Natural Gas	2.00E-02	2.00E-07	4.00E-04	2	4.00E-03
Boilers and Process Heaters Designed to Burn Other Gases	5.00E-02	2.00E-07	3.00E-06	1	9.00E-03

Notes:

- Red text indicates at least one test run used to calculate the 99% UPL limit was reported as non-detect data.
- Blue shaded cells indicate limits that incorporate fuel analysis variability.
- Although floors were calculated, no numerical emission limits are proposed for new units firing natural gas/refinery gas.

2.4 Data Not Considered in the MACT Floor Analysis for Existing Units

For fuel-based HAP, data upstream of the control device were not considered in the MACT floor analysis because the control device is expected to achieve emission reductions. The location of the test is denoted in the “Location” field of the Data: Emission Test Table. If the test location was not reported, it was assumed to be downstream of the control device. The upstream/downstream location was not a limiting factor when identifying suitable data for CO, THC, and dioxin/furan, although in all cases, THC and dioxin/furan emissions were downstream of the control device.

One unit reported emission data from test burns that did not fit into any of the five fuel categories. MIVersoPaperQuinnesec reported a test burn on 100 percent tire-derived fuel (TDF). This does not reflect normal fuel blends at the boiler and was not included in the MACT floor analysis.

Some facilities submitted emission test data based on previous control configurations that are no longer installed on the unit. Emission data reported while using these previous control configurations were not used to establish the MACT floor. Table 3 shows which control configurations were not considered in the MACT floor analysis. Any emissions associated with the control configurations at these units were not considered in the analysis, except the emissions for CO, as CO is not expected to be affected by the control device installed on the unit.

Table 2: Deleted Control Configurations for MACT Floor Analysis

FacilityID	UnitID	DeleteRecord	Reason for Removing
NCNC_DukeUniversity_Durham	7754-01	Fabric Filter	Dry injection added to FF in 2007
OHMedicalCenterCo1915	B003 & B004	Fabric Filter	Dry injection added to FF in 2007
MSMasoniteLaurel	BB-003	Wet Scrubber	Wet scrubber removed in 2007
MIMichiganSugarCaro	Boilers #1 & #2	No HAP APCD Control	Venturi installed in 2007
ARGeorgiaPacificCrossett93	SN-WB1 Wood Boiler	Wet Scrubber	Wet scrubber no longer installed at unit
SCNewSouthCamden	WWB1	Cyclone or Multiclone	ESP installed in 2007
SCNewSouthCoConway	WWB1	Cyclone or Multiclone	ESP installed in 2007

For uncontrolled light liquid units with fuel analysis data for Hg or HCl, the fuel analysis data were only used if there was not an emission test available for that unit for Hg or HCl. Using both fuel analysis and emission test data associated with the same unit would be double-counting emission data and would be inconsistent with the approach to use the minimum available emission data for each unit to identify the units in the top 12 percent.

Some emission data for CO or dioxin/furan were based on common stacks that are fed from units in more than one subcategory. Because the CO and dioxin/furan MACT floors are based on combustor design, only those emissions are based on units of the same combustor. If the combustor

design classification in the Data: Emission Test table listed “Multiple Combustor Designs,” this data was not used in the MACT floor calculations for CO or dioxin/furan.

Finally, there were some specific data reported that were excluded from the MACT floor analysis. PM data at WAGraysHarborPaper was reported using method OTM 27/OTM 28; however, the unit has a wet scrubber installed, and this method is not applicable at wet stacks. WICarterSteel reported total dioxin/furan data on a total mass basis; however, based on the large values of these data compared to all other dioxin/furan data, they were identified as outliers and not included in the analysis. The metals data (including mercury) reported for CTCytecWallingford were also identified as outliers. These data were submitted in the Electronic Reporting Tool (ERT). Upon comparison to the hard copy test report submitted with the ERT each individual metal was reported as non-detect with a lb/mmBtu value of zero in the hard copy of the test report.⁸ Since the ERT values were outliers and could not be confirmed against the hard copy of the test report, the data was not used in the MACT floor analysis. Appendix E lists the specific facility data not considered in the MACT floor analysis.

3.0 Floors for New Sources

3.1 Methodology for MACT Floor at New Units

The same methodology used to calculate the MACT floors for existing sources, as discussed in Section 2.0, was used to calculate the floor for new sources, with three exceptions. First, if the calculated floor for new sources was less stringent than the calculated floor for existing sources, the floor corresponding to the same subcategory for existing sources was used as the basis for the floor for new sources. Although the minimum average test run for the best performing source resulted in the lowest three-run average test, the 99% UPL-based limit incorporated variability between test runs. As the sample size—in this case the number of test runs—gets smaller, the t-statistic increases. When the sample size of test runs is small, and there is a large variability between test runs, the calculated limit using the UPL approach can be larger than the variability among a larger set of test runs from units in the best performing 12 percent, especially if the performance of the best performing units is comparable. Similar to the approach used in the HMIWI rulemaking, if the emission limit for new sources was less stringent than the emission limit for existing sources in the same subcategory, we decided to use existing source limits for new sources.

Second, if the lowest emitting unit had less than three test runs, the unit with the next lowest emissions based on at least a three-run test average was used as the basis for the MACT floor from new units. Using the lowest emitting unit with three test runs ensures that adequate variability can be incorporated into the limit to guarantee that future sources can repeatedly meet the limit during their compliance tests. The next lowest unit was used in three instances:

- 1) For the HCl MACT floor for new units designed to burn coal, the second lowest test average was used because the lowest test average was based on only two test runs.

- 2) For CO MACT floor for new units designed to burn natural gas/refinery gas, and metallurgical furnaces designed to burn natural gas the second lowest test average was used because the lowest test average was based on less than two runs.
- 3) For HCl emissions from new units designed to burn liquids, the two lowest emissions are based on Cl content from reported fuel analysis data. The lowest emission test was from a unit burning anhydrides residue, an on-site process liquid. Since this liquid is specific to a process and is not routinely available to other units in the category, it does not represent the best performing similar source for other boilers designed to burn liquid fuels. The floor was based on the second lowest three-run test instead of the fuel analysis data or the test based on anhydrides residue.
- 4) For dioxin/furan TEQ MACT floor for new units designed to burn liquids the second lowest test was used since the top performing unit burns anhydrides residue, an on-site process liquid not representative of other units in the category.

Table 4 summarizes the MACT floor emission limits for new sources, and the light green highlighted cells represent the limits where the corresponding limit for existing sources in the same subcategory were used as a basis for the limit at new sources. The UPL floor calculations for each subcategory and each pollutant for new sources are shown in Appendix F.

To assess fuel variability, the same procedures were used; however, only fuel analysis variability from the top-performing unit in each subcategory was considered in the analysis. For load variability, the PB-44 boiler at TXTemple-Inland Diboll was not the top-performing Dutch oven boiler for CO emissions, so its CO variability over various boiler loads was not considered in the calculated MACT floor limit for new sources.

Table 1: Summary of MACT Floor Limits for New Boilers and Process Heaters at Major Sources of HAP

Subcategory	PM- Filterable (lb/mmBtu)	Hg (lb/mmBtu)	HCl (lb/mmBtu)	CO (ppm @3% O ₂)	TEQ Dioxin/Furan (ng/dscm @7% O ₂)
Boilers and Process Heaters Designed to Burn Coal	1.00E-03	2.00E-06	6.00E-05		
Stoker/Sloped Grate/Other				7	3.00E-03
Fluidized Bed				30	3.00E-05
Pulverized Coal				90	2.00E-03
Boilers and Process Heaters Designed to Burn Biomass	8.00E-03	2.00E-07	4.00E-03		
Stoker/Sloped Grate/Other				560	5.00E-05
Fuel Cell				270	5.00E-04
Fluidized Bed				40	7.00E-03
Dutch Oven/Susp Burner				1,010	3.00E-02
Boilers and Process Heaters Design to Burn Liquids	2.00E-03	3.00E-07	4.00E-04	1	2.00E-03
Boilers and Process Heaters Designed to Burn Natural Gas, Propane, LPG, Refinery Gas, Excluding Metallurgical Furnaces	5.00E-04	2.00E-07	2.00E-04	20	1.00E-02
Metallurgical Process Furnaces Designed to Burn Natural Gas	2.00E-02	2.00E-07	2.00E-04	2	4.00E-03
Boilers and Process Heaters Designed to Burn Other Gases	3.00E-03	2.00E-07	3.00E-06	1	9.00E-03

Notes:

- Red text indicates at least one test run used to calculate the 99% UPL limit was reported as non-detect data.
- Blue shaded cells indicate limits that incorporate fuel analysis variability.
- Light green shaded cells indicate limits where the calculated limit for new sources was less stringent than the calculated limit for existing sources, so the limit for existing sources was used as the basis for the limit at new sources.
- Although floors were calculated, no numerical emission limits are proposed for new units firing natural gas/refinery gas.

4.0 Calculating Floors for the Alternative Proposed Solid Waste Definition

Concurrent with this proposed rulemaking for boilers and process heaters, an alternative definition of solid waste is being proposed by EPA’s Office of Resource Conservation and Recovery (OCRC). An alternative MACT floor analysis was conducted, taking into account the materials classified as solid wastes under the proposed alternative solid waste definition. Boilers or process heaters firing materials classified as wastes under the alternative approach were removed from the emission inventory, as long as they fired those materials greater than 25 percent of the reported operating hours, and those materials were not listed as “start-up” only materials. If a unit was firing materials less than

25 percent of the reported operating hours, or only listed waste materials during start-up, EPA assumed these units would stop burning wastes to avoid being classified as a CISWI unit. Considering the alternative definition of solid waste, there are 13,275 boilers and process heaters estimated in operation in the United States. We analyzed emission test and fuel analysis data reported from these units for calculating an alternative set of MACT floor numerical emission limits. For this alternative analysis emission tests conducted while a unit was firing any amount of waste (as defined under the alternative definition) were excluded from the MACT floor analysis. In the Emission database, the table 'Data: Emission Test' the field 'Alternative Waste Inventory?' denotes whether the unit is covered under the alternative solid waste definition and the field 'Test Burning Alternative Option Waste?' indicates whether or not the test is firing waste materials, as defined under the alternative definition. In the 'Data: Fuel Analysis' table the field 'Alternative Option Waste?' denotes if a certain fuel is covered by the alternative solid waste definition.

The data were ranked and analyzed using same methodology used to calculate the MACT floors for existing sources, as discussed in Section 2.0. The calculated MACT floors under the alternative approach are shown in Table 5. Details of the data used to rank and calculate the MACT floors under the alternative approach are shown in Appendix G.

Table 2 Summary of MACT Floor Limits for Existing Boilers and Process Heaters at Major Sources of HAP, Considering the Proposed Alternative Definition of Nonhazardous Solid Waste.

SUBCATEGORY	PM- Filterable (lb/mmBtu)	Hg (lb/mmBtu)	HCl (lb/mmBtu)	CO (ppm @3% O ₂)	TEQ Dioxin/Furan (ng/dscm @7% O ₂)
Boilers and Process Heaters Designed to Burn Coal	3.00E-02	4.00E-06	2.00E-02		
Stoker/Other				40	3.00E-03
FB				50	8.00E-03
PC				90	4.00E-03
Boilers and Process Heaters Designed to Burn Biomass	2.00E-02	5.00E-07	3.00E-02		
Stoker/Other				180	5.00E-05
Fuel Cell				460	2.00E-02
FB				10650	1.00E-01
Dutch Oven				1060	3.00E-01
Boilers and Process Heaters Design to Burn Liquids	4.00E-03	5.00E-06	2.00E-03	1	2.00E-03
Boilers and Process Heaters Designed to Burn Natural Gas, Propane, LPG, Refinery Gas, Excluding Metallurgical Furnaces	3.00E-02	2.00E-07	2.00E-04	20	1.00E-02
Metallurgical Furnaces (Process Heaters) Designed to Burn Natural Gas	2.00E-02	2.00E-07	4.00E-04	2	4.00E-03
Boilers and Process Heaters Designed to Burn Other Gases	5.00E-02	2.00E-07	3.00E-06	1	9.00E-03

Notes:

- Red text indicates at least one test run used to calculate the 99% UPL limit was reported as non-detect data.
- Blue shaded cells indicate limits that incorporate fuel analysis variability.
- Although floors were calculated, no numerical emission limits are proposed for existing units firing natural gas/refinery gas.

5.0 Calculating Floors with a Minimum of Five Test Results

The proposal is requesting comment on calculating MACT floors for source categories with more than 30 affected sources on a minimum of five sources instead of using data from the top 12 percent of units with available data. Appendix H presents the UPL calculations considering a minimum of five sources. For dutch oven boilers, the dioxin TEQ floor is based on three data points since no other data were available.

6.0 References

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2. Phase II ICR Test Plan Requesting Emission Testing from Boilers, Process Heaters, and CISWI. [ICR No. 2286.03]. OMB Control No. 2060-0616 - Information Collection Effort for Facilities with Combustion Units. Approved by OMB on May 21, 2009.
3. Emissions Database for Boilers and Process Heaters Containing Stack Test, CEM, & Fuel Analysis Data Reported under ICR No. 2286.01 & ICR No. 2286.03 (version 5)
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7. NIST/SEMATECH. 2009. *NIST/SEMATECH e-Handbook of Statistical Methods*, <http://www.itl.nist.gov/div898/handbook/>, August 4.
8. Air Tox Environmental Company, Inc. Test Report Boiler MACT Demonstration Test Program For Cytec Industries. October 2009.

Appendix A-1a: Mercury Fuel Analysis Variability Factor Outlier Analysis

Column	B	C	D	E	F	G	H	I	J
FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Parameter_N ame	Hg Average Emission Stack Test Results (lb/mmBtu)	Max Hg Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability Factor (H/G)	Outlier?
LABoiseNew sprintDeRidd er	69-03	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Mercury (Hg)	5.38E-08	5.67E-08	1.05	no
ORFlakeboar dEugene	Boiler-2	Biomass	Dutch Oven/Susp. Burner	Natural gas/Wood: Sanderdust	Mercury (Hg)	9.00E-08	1.18E-07	1.31	no
MESDWarre hSomerset	No2 Power Boiler	Biomass	Stoker/Slope dGrate/Other	Biomass	Mercury (Hg)	1.21E-07	1.47E-07	1.22	no
KYNewPage- Wickliffe	B09	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Mercury (Hg)	2.17E-07	1.08E-05	49.82	yes
GATempleInl andRome	WF	Biomass	FB	Wood: Bark	Mercury (Hg)	3.30E-07	4.48E-07	1.36	no
TNBowaterN ewsprint	Bubbling Fluidized Bed Boiler	Biomass	FB	Industrial Sludge/Tire Derived Fuel (TDF)/Wood: Bark	Mercury (Hg)	3.33E-07	1.54E-06	4.64	yes
MEBoralexStr atton	Boiler #1	Biomass	Stoker/Slope dGrate/Other	Wood: Unadulterate dLumber	Mercury (Hg)	3.42E-07	3.50E-07	1.02	no
NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Biomass	FB	Biomass	Mercury (Hg)	4.47E-07	4.56E-07	1.02	no
GAGPMadiso nFly	800 Wood Waste Boiler	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Mercury (Hg)	5.70E-07	8.85E-07	1.55	yes
ARAnthonyFc restProducts	SN-12	Biomass	Fuel Cell	Wood: Bark/Wood: Unadulterate dLumber/Woo d: Unadulterate dTimber	Mercury (Hg)	7.61E-07	1.36E-06	1.79	yes
ARGBPMorril ton	SN-04	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Mercury (Hg)	1.01E-06	1.43E-06	1.41	no
ORRosboroS pringfield	DV 01.1	Biomass	Dutch Oven/Susp. Burner	Hog Fuel/Natural gas	Mercury (Hg)	1.53E-06	2.22E-06	1.45	no
IAArchersDa nielsMidland DesMoines	Asea Boiler #1	Coal	FB	Coal: Sub- bituminous	Mercury (Hg)	2.80E-08	4.21E-08	1.50	no
IALoIowa	EP7 Boiler 11	Coal	FB	Coal: Bituminous	Mercury (Hg)	5.99E-08	1.62E-07	2.70	no
IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Coal	FB	Coal: Bituminous	Mercury (Hg)	6.34E-08	8.13E-07	12.83	yes
IAADMComp rocessingCR	EU-501B	Coal	FB	Coal: Sub- bituminous	Mercury (Hg)	8.18E-08	1.21E-07	1.48	no
INPurdueUniv ersity	Boiler 5	Coal	FB	Coal: Bituminous	Mercury (Hg)	1.35E-07	3.54E-07	2.63	no
ILPolyOne	B1	Coal	FB	Coal: Bituminous	Mercury (Hg)	1.62E-07	1.71E-07	1.06	no
NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Mercury (Hg)	1.85E-07	2.00E-07	1.08	no
SCCogenSou th	B001 - Main Boiler	Coal	PC	Coal: Bituminous	Mercury (Hg)	2.50E-07	3.62E-07	1.45	no
MITBSimonP owerPlant	Unit 1	Coal	PC	Coal: Bituminous	Mercury (Hg)	2.70E-07	9.35E-07	3.46	no

Fuel Category	1st Q	3rd Q	IQR	1.5IQR	Test for low outliers	Test for high outliers	Count of Units in Variability Analysis
Biomass	1.12	1.24	0.13	0.19	0.90	1.48	8
Coal	1.29	2.80	1.52	2.28	(1.64)	9.19	24
Liquid	2.12	3.51	1.39	2.08	(2.29)	10.81	2

Appendix A-1a: Mercury Fuel Analysis Variability Factor Outlier Analysis

Column	B	C	D	E	F	G	H	I	J
Facility/ID	Combustor/ID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Parameter_ Name	Hg Average Emission Stack Test Results (lb/mmBtu)	Max Hg Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability Factor (H/G)	Outlier?
IAMonsantoMuscantine	Boiler #8 (EP 195)	Coal	Stoker/SlopedGrate/Other	Industrial Sludge	Mercury (Hg)	3.29E-07	5.18E-07	1.57	no
VAUniversity of Virginia	7103-1-01R	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	Mercury (Hg)	3.67E-07	9.83E-07	2.68	no
TNCargillMemphis	Stoker Boiler 8001	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	Mercury (Hg)	4.10E-07	6.72E-07	1.64	no
GASPNewsprint	PB2	Coal	FB	Coal: Bituminous	Mercury (Hg)	4.19E-07	4.19E-07	1.00	no
TNEastman-NO_CBIDATA	Boiler 30	Coal	PC	Coal: Bituminous	Mercury (Hg)	5.49E-07	2.75E-06	5.02	no
PAPHGlatfelter	PB5	Coal	FB	Coal: Bituminous	Mercury (Hg)	5.89E-07	7.22E-07	1.23	no
NCUNCCogeneration	ES-001	Coal	FB	Coal: Bituminous	Mercury (Hg)	8.29E-07	1.13E-06	1.36	no
IAlOfNorthernIowa	Boiler #3	Coal	PC	Coal: Bituminous	Mercury (Hg)	9.09E-07	1.08E-06	1.19	no
MNVersoPaper	EU006 B&W	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	Mercury (Hg)	9.53E-07	9.53E-07	1.00	no
WVPPGMartinsville	R011-Boiler 3	Coal	PC	Coal: Bituminous	Mercury (Hg)	1.10E-06	5.15E-06	4.66	no
VASmurfittStoneWestpt	PB08	Coal	PC	Coal: Bituminous	Mercury (Hg)	1.22E-06	1.15E-05	9.44	yes
NCBlueRidgePaper	G11042	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	Mercury (Hg)	1.49E-06	4.34E-06	2.91	no
VAINVISTA Waynesboro	2-205 (B#2) Boiler #2	Coal	PC	Coal: Bituminous	Mercury (Hg)	2.74E-06	7.02E-06	2.56	no
WINNewPageBiron	B24	Coal	Stoker/SlopedGrate/Other	Coal: Sub-bituminous	Mercury (Hg)	2.91E-06	3.83E-06	1.32	no
WVATKRocketCenter	NB2766 W-17479-W (Boiler 17)	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous/Pigment-based Agricultural Residue	Mercury (Hg)	4.31E-06	6.10E-06	1.41	no
INNotreDamede	B-4	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	Mercury (Hg)	5.30E-06	5.99E-03	1,131.07	yes
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Coal	PC	Coal: Bituminous	Mercury (Hg)	6.23E-06	7.82E-06	1.26	no
OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	Mercury (Hg)	1.35E-05	3.38E-05	2.50	no
MEFPLEnergyWyman	Unit #5	Liquid	N/A	No. 6 Residual oil	Mercury (Hg)	1.05E-07	1.51E-07	1.43	no
WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Liquid	N/A	Deinking residuals	Mercury (Hg)	5.88E-06	2.47E-05	4.20	no

Appendix A-1b: Chlorine Fuel Analysis Variability Factor Outlier Analysis

Column	B	C	D	E	F	G	H	I	J
FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Parameter_N ame	HCl Average Emission Stack Test Results (lb/mmBtu)	Max HCl Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability	Outlier
LABoiseNew sprintDeRidder	69-03	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Chlorine (Cl)	1.40E-05	2.47E-05	2.80E+00	no
SCMarlboroP aper	Hogged Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	Wood: Plywood, Particleboard (containing glues or resins)	Chlorine (Cl)	1.00E-04	1.00E-04	1.91E+00	no
GAGPMadison Ply	800 Wood Waste Boiler	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Chlorine (Cl)	1.05E-04	1.32E-04	1.26E+00	no
ARAnthonyF orestProducts	SN-12	Biomass	Fuel Cell	Wood: Bark/Wood: Unadulterate d Lumber/Wood: Unadulterate d Timber	Chlorine (Cl)	2.00E-04	1.09E-03	1.00E+00	no
ORFlakeboard Eugene	Boiler-2	Biomass	Dutch Oven/Susp. Burner	Natural gas/Wood: Sanderdust	Chlorine (Cl)	2.62E-04	2.86E-04	1.77E+00	no
WAWeyerhaeuser_ Raymond	Hog Fuel Boiler EU1	Biomass	Fuel Cell	Hog Fuel/Natural gas	Chlorine (Cl)	2.67E-04	3.03E-04	1.43E+00	no
NDCargillWes tFargo	Foster Wheeler Boiler (EU43)	Biomass	FB	Biomass	Chlorine (Cl)	3.56E-04	8.33E-04	5.44E+00	yes
MSWeyerhaeuser Bruce	AA-002 No. 2 Boiler	Biomass	Fuel Cell	Hog Fuel/Natural gas	Chlorine (Cl)	5.07E-04	7.24E-04	1.09E+00	no
ARWeyerhaeuser DierksMill	SN-45	Biomass	Fuel Cell	Hog Fuel/Natural gas	Chlorine (Cl)	1.00E-03	1.91E-03	1.20E+00	no
KYNewPage- Wickliffe	B09	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Chlorine (Cl)	2.10E-03	2.10E-03	1.14E+00	no
SCBowaterC oatedPaper	Combination Boiler No. 2	Biomass	Stoker/Slope dGrate/Other	Wood: Bark	Chlorine (Cl)	5.27E-03	6.30E-03	2.34E+00	no
ORRosboroS pringfield	DV 01.1	Biomass	Dutch Oven/Susp. Burner	Hog Fuel/Natural gas	Chlorine (Cl)	5.60E-03	1.57E-02	1.00E+00	no
TNEastman_ NO_CBIDAT A	Boiler 30	Coal	PC	Coal: Bituminous	Chlorine (Cl)	7.23E-05	7.71E-04	1.85E+00	no
IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Coal	FB	Coal: Bituminous	Chlorine (Cl)	8.56E-05	1.77E-04	2.14E+00	no
IAArchersDa nielsMidland esMoines	Asea Boiler #1	Coal	FB	Coal: Sub- bituminous	Chlorine (Cl)	3.88E-04	4.12E-04	1.00E+00	no

Fuel Category	1st Q	3rd Q	IQR	1.5IQR	Test for low outliers	Test for high outliers	Count of Units in Variability Analysis
Biomass	1.13E+00	2.02E+00	8.93E-01	1.34E+00	-3.82E-01	4.72E+00	1.10E+01
Coal	1.12E+00	2.07E+00	9.44E-01	1.42E+00	-4.67E-01	4.99E+00	1.50E+01
Liquid	1.17E+00	3.14E+00	1.97E+00	2.95E+00	-2.29E+00	1.24E+01	4.00E+00

Appendix A-1b: Chlorine Fuel Analysis Variability Factor Outlier Analysis

Column	B	C	D	E	F	G	H	I	J
FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Parameter_N ame	HCl Average Emission Stack Test Results (lb/mmBtu)	Max HCl Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability	Outlier
VAUniversity ofVirginia	7103-1-01R	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Chlorine (Cl)	5.69E-04	6.56E-04	1.06E+00	no
VASmurfitSto neWestpt	PB08	Coal	PC	Coal: Bituminous	Chlorine (Cl)	6.69E-04	7.45E-04	2.10E+00	no
NCBlueRidge Paper	G11042	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Chlorine (Cl)	9.57E-04	1.77E-03	2.07E+00	no
SCCogenSou th	B001 - Main Boiler	Coal	PC	Coal: Bituminous	Chlorine (Cl)	1.58E-03	1.78E-03	6.25E+00	yes
WINewPage Biron	B24	Coal	Stoker/Slope dGrate/Other	Coal: Sub- bituminous	Chlorine (Cl)	2.00E-03	4.27E-03	1.15E+00	no
INPurdueUniv ersity	Boiler 5	Coal	FB	Coal: Bituminous	Chlorine (Cl)	4.33E-03	2.71E-02	1.11E+00	no
PAAppletonP apers	#036	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Chlorine (Cl)	7.83E-03	7.83E-03	1.36E+00	no
PAPHGlatfelt er	PB5	Coal	FB	Wood: Bark	Chlorine (Cl)	2.86E-02	3.37E-02	1.07E+01	yes
NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Chlorine (Cl)	3.09E-02	4.21E-02	1.59E+00	no
GASPNewsp rint	PB2	Coal	FB	Industrial Sludge	Chlorine (Cl)	3.74E-02	3.74E-02	1.00E+00	no
WVPPGMarti nsville	R011-Boiler 3	Coal	PC	Coal: Bituminous	Chlorine (Cl)	4.67E-02	7.44E-02	1.18E+00	no
MOMallinckro dt	Boiler 6	Coal	Stoker/Slope dGrate/Other	Coal: Sub- bituminous	Chlorine (Cl)	1.12E-01	1.26E-01	1.35E+00	no
IAMonsantoM uscatine	Boiler #8 (EP- 195)	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Chlorine (Cl)	1.22E-01	2.57E-01	1.12E+00	no
TNCargillMe mphis	Stoker Boiler 8001	Coal	Stoker/Slope dGrate/Other	Coal: Bituminous	Chlorine (Cl)	1.28E-01	1.73E-01	1.13E+00	no
TNInvistaCha ttanooga	EU003 - Vaporizer #2	Liquid	N/A	No. 2 Distillate	Chlorine (Cl)	6.24E-04	1.54E-03	1.02E+00	no
NCInvistaHw y421	B7600	Liquid	N/A	No. 6 Residual oil	Chlorine (Cl)	8.25E-04	8.41E-04	2.46E+00	no
SCGPChem Russellville	FO Boiler	Liquid	N/A	Diesel fuel	Chlorine (Cl)	1.00E-03	5.17E-03	1.22E+00	no
WIGPGreen Bay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Liquid	N/A	Deinking residuals	Chlorine (Cl)	1.76E-03	2.15E-03	5.17E+00	no

Appendix A-2a: Mercury Fuel Analysis Variability Factor for Existing Units

Column	B	C	D	E	F	G	H	I	J		
Unit in Top 12 percent?	FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Hg Average Emission Stack Test Results (lb/mmBtu)	Max Hg Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability Factor (H/G)	Outlier?		
YES	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Biomass	FB	Biomass	4.47E-07	4.56E-07	1.02	no		Average Fuel Variability Factor for Units in Top 12%
YES	MESDWarrenSomerset	No2 Power Boiler	Biomass	Stoker/SlopedGrate/Other	Biomass	1.21E-07	1.47E-07	1.22	no	Biomass	1.18
YES	ORFlakeboardEugene	Boiler-2	Biomass	Dutch Oven/Susp. Burner	Natural gas/Wood: Sanderdust	9.00E-08	1.18E-07	1.31	no	Coal	1.76
YES	GASPNewsp rint	PB2	Coal	FB	Coal: Bituminous	4.19E-07	4.19E-07	1.00	no	Liquid	1.43
YES	MNVersoPaper	EU006 B&W	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	9.53E-07	9.53E-07	1.00	no		
YES	ILPolyOne	B1	Coal	FB	Coal: Bituminous	1.62E-07	1.71E-07	1.06	no		
YES	NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	1.85E-07	2.00E-07	1.08	no		
YES	NCUNCCogen	ES-001	Coal	FB	Coal: Bituminous	8.29E-07	1.13E-06	1.36	no		
YES	SCCogenSouth	B001 - Main Boiler	Coal	PC	Coal: Bituminous	2.50E-07	3.62E-07	1.45	no		
YES	IAADMProcessingC R	EU-501B	Coal	FB	Coal: Sub-bituminous	8.18E-08	1.21E-07	1.48	no		
YES	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Coal	FB	Coal: Sub-bituminous	2.80E-08	4.21E-08	1.50	no		
YES	IAMonsantoMuscatine	Boiler #8 (EP 195)	Coal	Stoker/SlopedGrate/Other	Industrial Sludge	3.29E-07	5.18E-07	1.57	no		

Appendix A-2a: Mercury Fuel Analysis Variability Factor for Existing Units

Column	B	C	D	E	F	G	H	I	J
Unit in Top 12 percent?	FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Hg Average Emission Stack Test Results (lb/mmBtu)	Max Hg Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability Factor (H/G)	Outlier?
YES	TNCargillMemphis	Stoker Boiler 8001	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	4.10E-07	6.72E-07	1.64	no
YES	INPurdueUniversity	Boiler 5	Coal	FB	Coal: Bituminous	1.35E-07	3.54E-07	2.63	no
YES	VAUniversityofVirginia	7103-1-01R	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	3.67E-07	9.83E-07	2.68	no
YES	IAUofIowa	EP7 Boiler 11	Coal	FB	Coal: Bituminous	5.99E-08	1.62E-07	2.70	no
YES	MITBSimonPowerPlant	Unit 1	Coal	PC	Coal: Bituminous	2.70E-07	9.35E-07	3.46	no
YES	MEFPLEnergyWyman	Unit #5	Liquid	N/A	No. 6 Residual oil	1.05E-07	1.51E-07	1.43	no

Appendix A-2b: Mercury Fuel Analysis Variability Factor for New Units

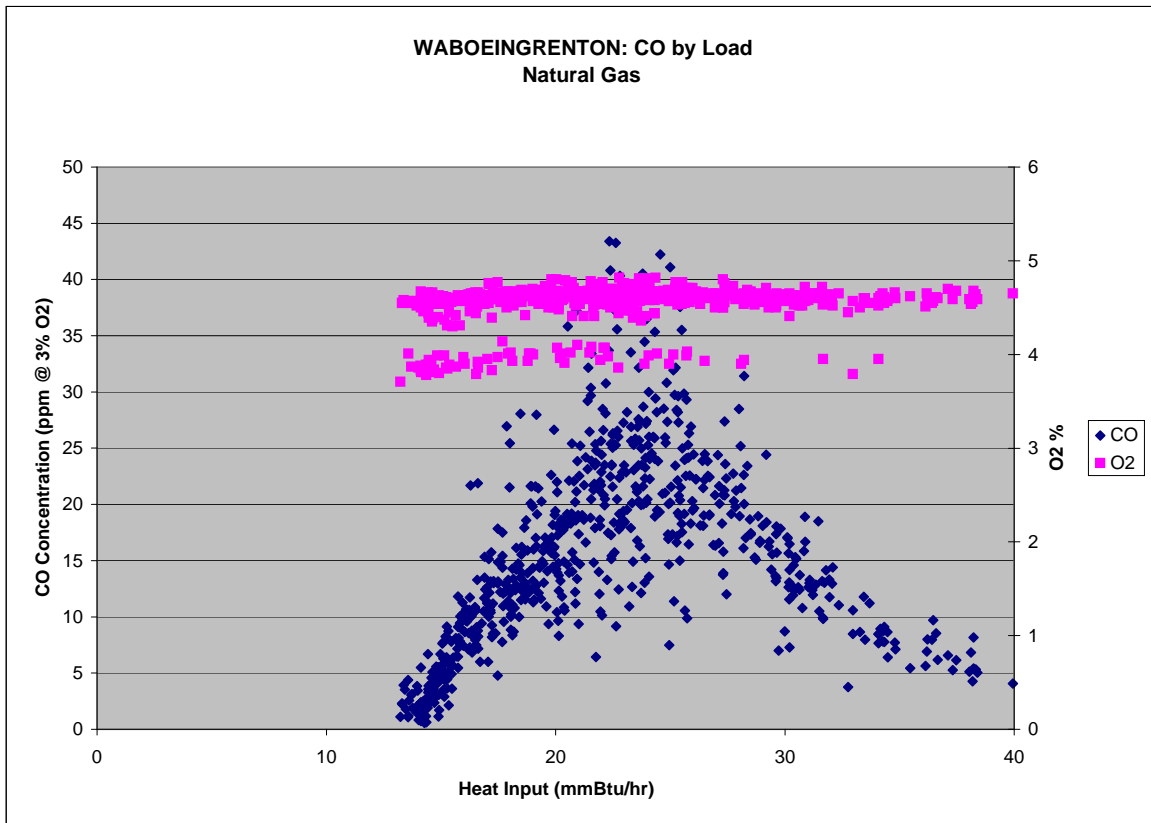
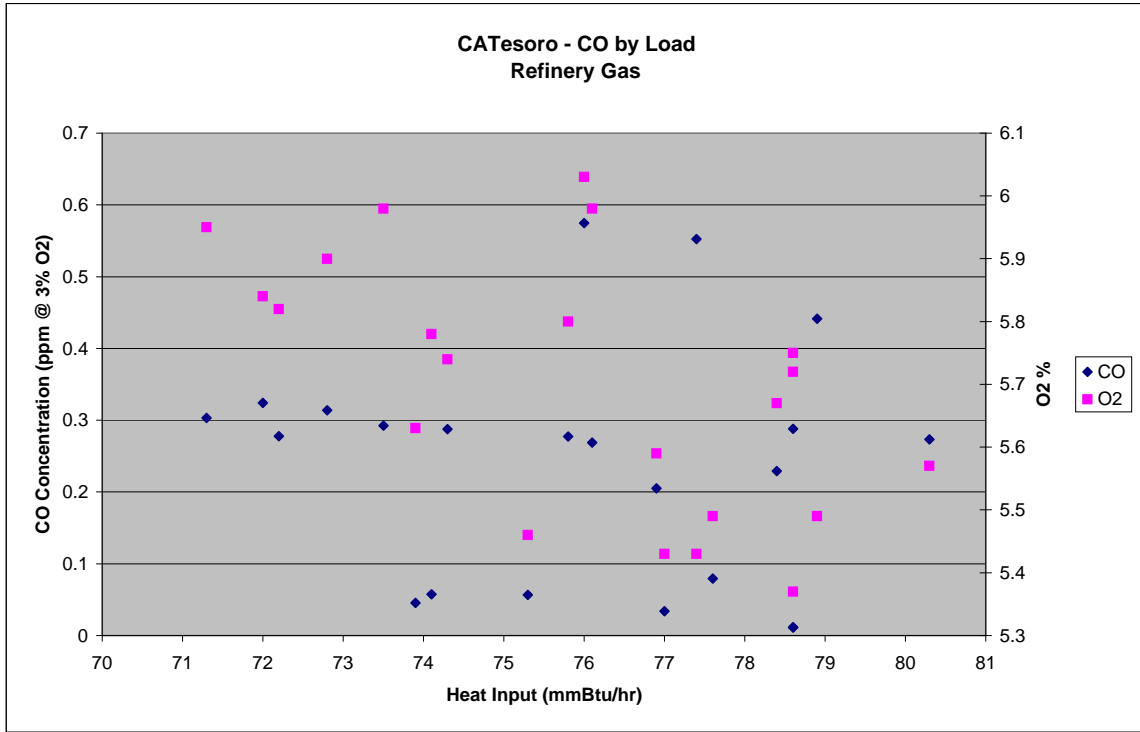
Column	B	C	D	E	F	G	H	I	J
Unit is Top Performer?	FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	Hg Average Emission Stack Test Results (lb/mmBtu)	Max Hg Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability Factor (H/G)	Outlier?
YES	IAUoflowa	EP7 Boiler 11	Coal	FB	Coal: Bituminous	5.99E-08	1.62E-07	2.70	no

	Average Fuel Variability Factor for top 12 %
Biomass	N/A
Coal	2.70
Liquid	N/A

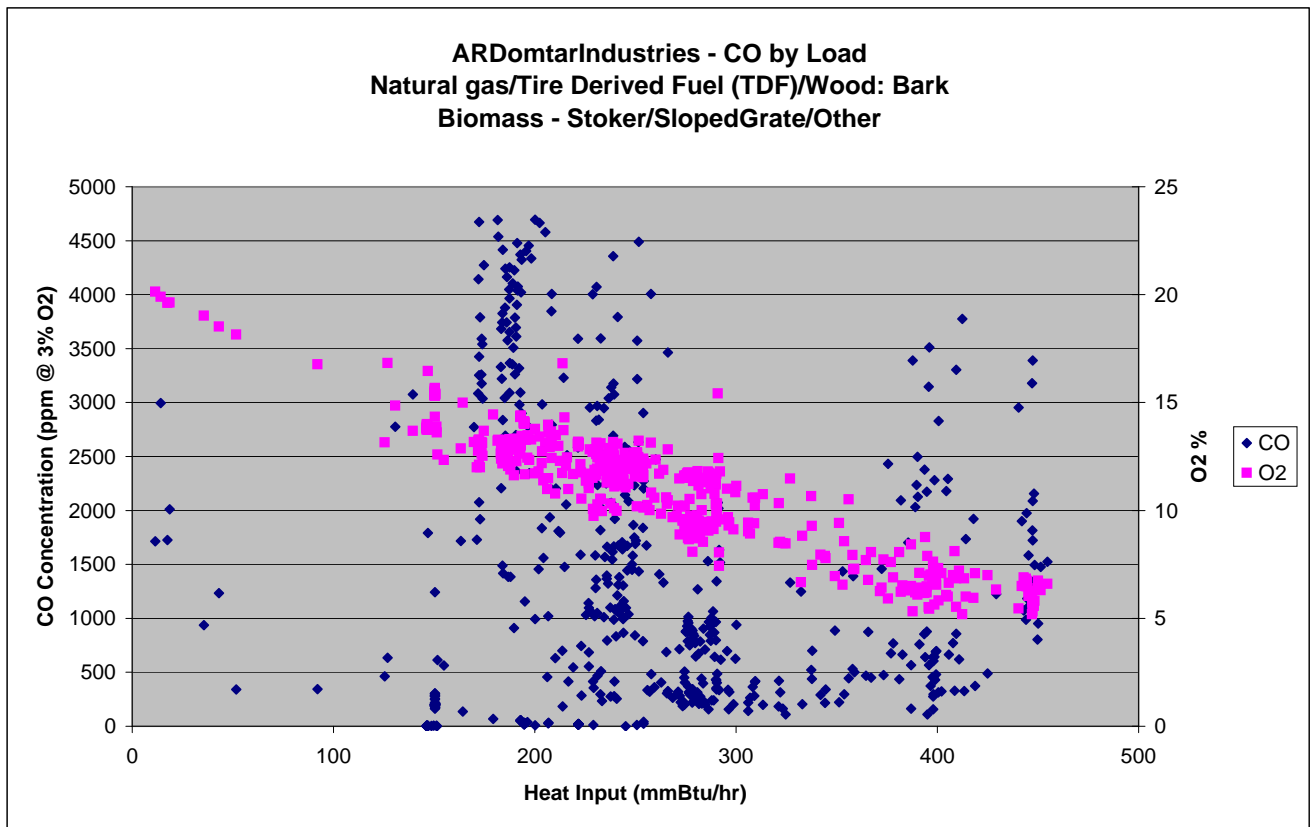
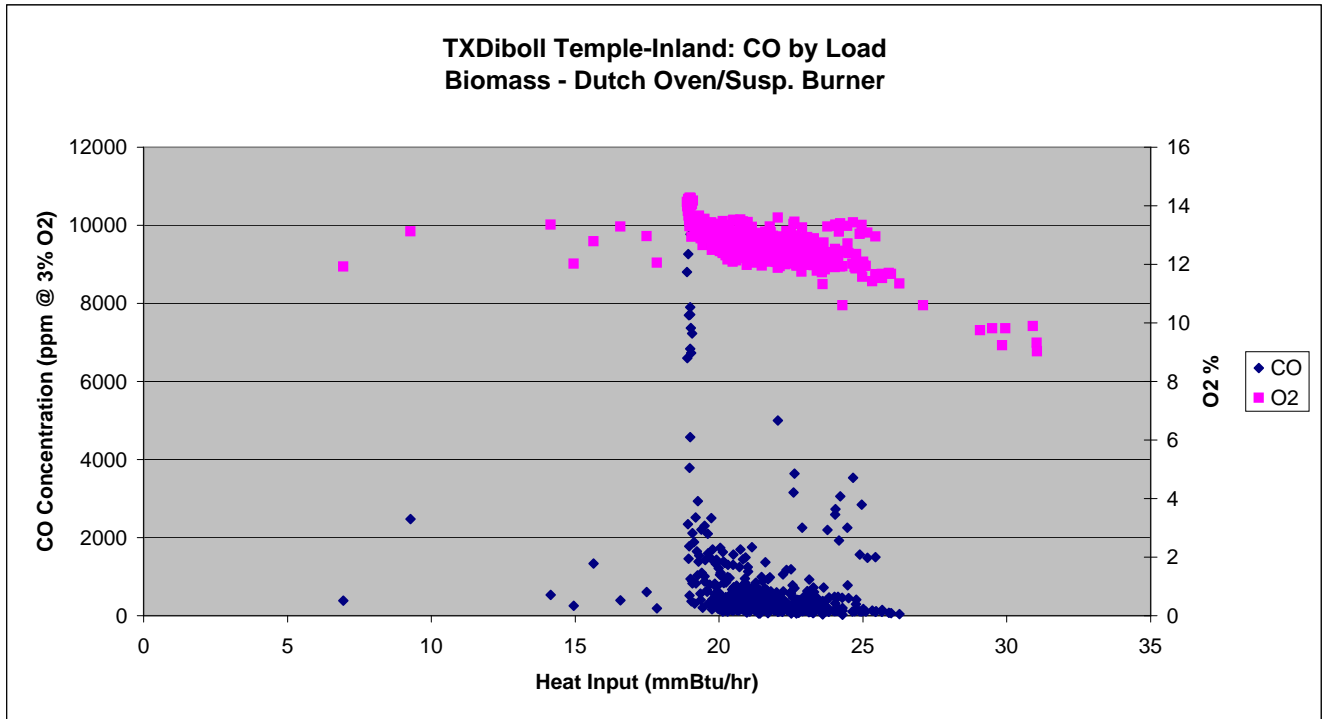
Appendix A-2c: Chlorine Fuel Analysis Variability Factor for Existing Units,

Column	B	C	D	E	F	G	H	I	J	
Unit is Top Performer?	FacilityID	CombustorID _common	Fuel Category for Unit	Combustor Design	Common Fuel	HCl Average Emission Stack Test Results (lb/mmBtu)	Max HCl Fuel-Based Emissions with Control Efficiency (lbpermmBtu)	Fuel Variability Factor (H/G)	Outlier?	
YES	WINewPageBiron	B24	Coal	Stoker/SlopedGrate/Other	Coal: Sub-bituminous	2.00E-03	4.27E-03	2.14	no	Average Fuel Variability Factor for top 12 %
YES	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Coal	FB	Coal: Sub-bituminous	3.88E-04	4.12E-04	1.06	no	Biomass N/A
YES	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Coal	FB	Coal: Bituminous	8.56E-05	1.77E-04	2.07	no	Coal 1.51
YES	VAUniversityofVirginia	7103-1-01R	Coal	Stoker/SlopedGrate/Other	Coal: Bituminous	5.69E-04	6.56E-04	1.15	no	Liquid 2.46
YES	VASmurfitStoneWespt	PB08	Coal	PC	Coal: Bituminous	6.69E-04	7.45E-04	1.11	no	
YES	TNInvistaChattanooga	EU003 - Vaporizer #2	liquid	N/A	No. 2 Distillate	6.24E-04	1.54E-03	2.46	no	

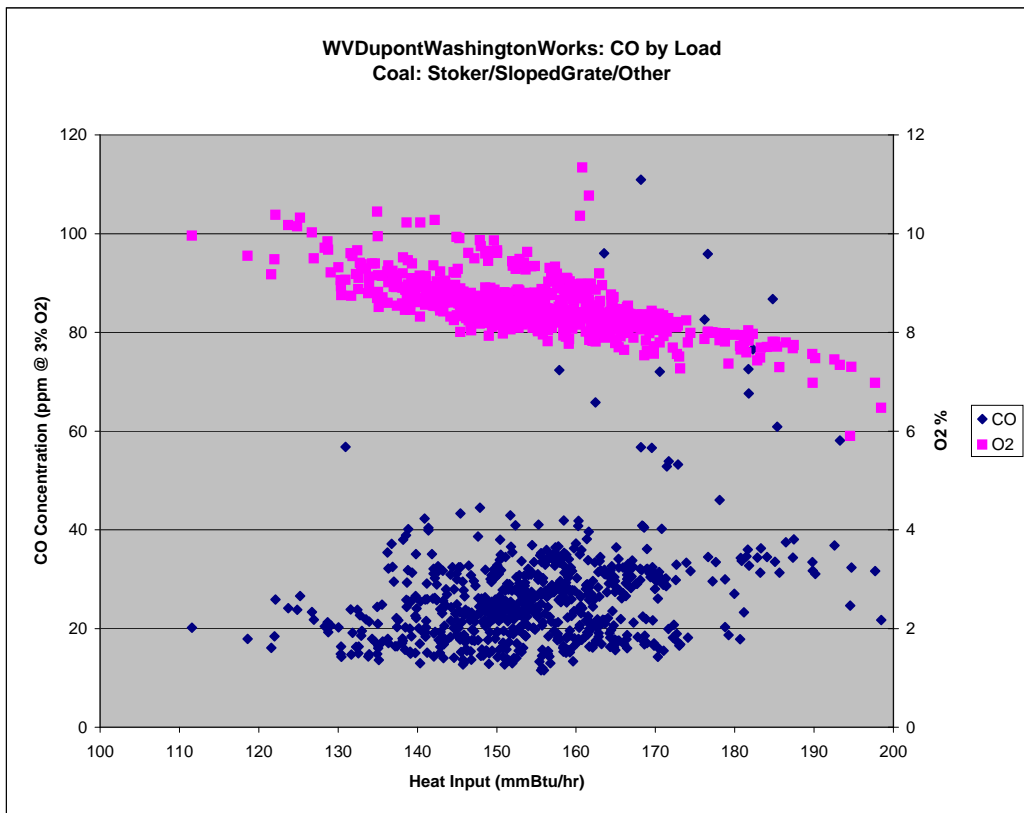
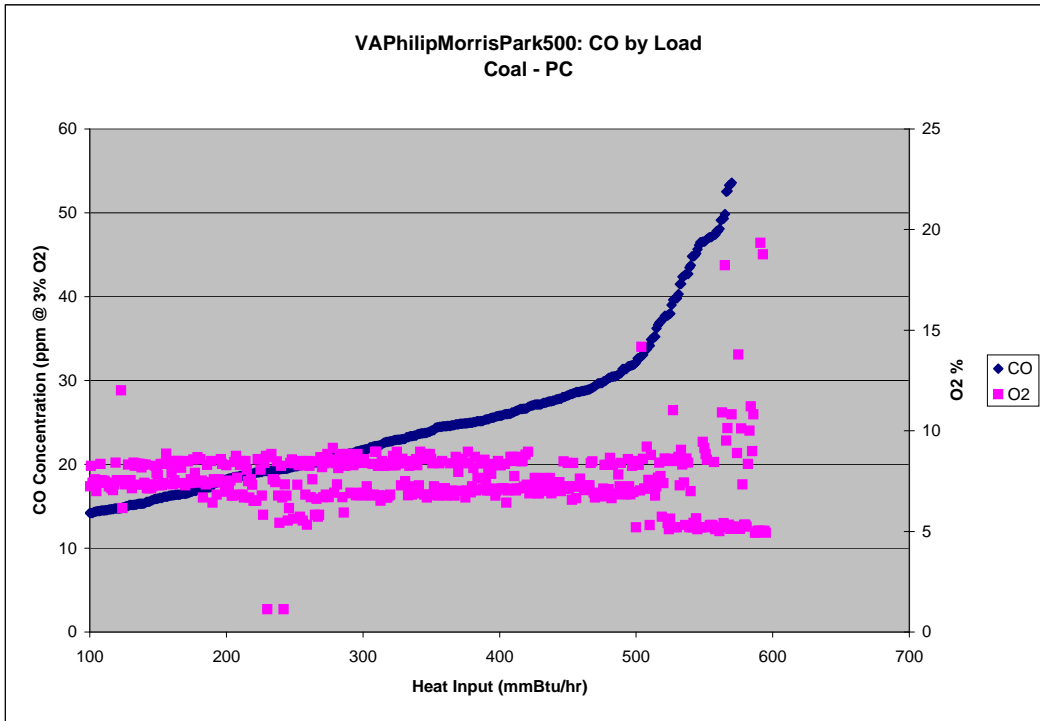
Appendix B-1: CO Emissions as a Function of Boiler Load
GASES



Appendix B-1: CO Emissions as a Function of Boiler Load
BIOMASS



Appendix B-1: CO Emissions as a Function of Boiler Load
COAL



Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	382.7	6.9	11.92	17.4%
TXDibollTemple-Inland	PB-44	2,473.4	9.3	13.13	23.2%
TXDibollTemple-Inland	PB-44	533.0	14.1	13.35	35.4%
TXDibollTemple-Inland	PB-44	250.9	15.0	12.02	37.4%
TXDibollTemple-Inland	PB-44	1,334.9	15.6	12.79	39.1%
TXDibollTemple-Inland	PB-44	391.4	16.6	13.29	41.4%
TXDibollTemple-Inland	PB-44	610.0	17.5	12.96	43.7%
TXDibollTemple-Inland	PB-44	187.0	17.8	12.06	44.6%
TXDibollTemple-Inland	PB-44	8,800.6	18.9	14.13	47.2%
TXDibollTemple-Inland	PB-44	6,599.8	18.9	13.98	47.2%
TXDibollTemple-Inland	PB-44	2,346.5	18.9	13.82	47.3%
TXDibollTemple-Inland	PB-44	9,259.8	18.9	14.23	47.3%
TXDibollTemple-Inland	PB-44	1,455.6	18.9	13.66	47.4%
TXDibollTemple-Inland	PB-44	7,698.9	19.0	14.07	47.4%
TXDibollTemple-Inland	PB-44	1,781.8	19.0	13.5	47.4%
TXDibollTemple-Inland	PB-44	518.7	19.0	13.3	47.4%
TXDibollTemple-Inland	PB-44	3,785.0	19.0	13.96	47.4%
TXDibollTemple-Inland	PB-44	9,978.6	19.0	14.26	47.5%
TXDibollTemple-Inland	PB-44	10,522.4	19.0	14.27	47.5%
TXDibollTemple-Inland	PB-44	7,715.0	19.0	14.07	47.5%
TXDibollTemple-Inland	PB-44	7,899.0	19.0	14.14	47.5%
TXDibollTemple-Inland	PB-44	4,572.2	19.0	14.06	47.5%
TXDibollTemple-Inland	PB-44	6,837.5	19.0	14.01	47.5%
TXDibollTemple-Inland	PB-44	942.0	19.0	13.47	47.5%
TXDibollTemple-Inland	PB-44	9,766.8	19.0	14.21	47.5%
TXDibollTemple-Inland	PB-44	10,675.2	19.0	14.26	47.5%
TXDibollTemple-Inland	PB-44	7,365.5	19.0	14.05	47.6%
TXDibollTemple-Inland	PB-44	6,728.7	19.0	14.01	47.6%
TXDibollTemple-Inland	PB-44	371.9	19.0	12.94	47.6%
TXDibollTemple-Inland	PB-44	7,229.0	19.1	14.06	47.7%
TXDibollTemple-Inland	PB-44	893.2	19.1	13.4	47.7%
TXDibollTemple-Inland	PB-44	2,114.9	19.1	13.5	47.7%
TXDibollTemple-Inland	PB-44	828.2	19.1	13.44	47.7%
TXDibollTemple-Inland	PB-44	9,877.3	19.1	14.18	47.7%

Day	Daily Average CO Emission Concentration (ppm @ 3% O2)
1	448
2	269
3	179
4	938
5	215
6	9,844
7	7,352
8	601
9	331
10	305
11	294
12	1,290
13	1,321
14	538
15	581
16	1,301
17	2,877
18	1,038
19	511
20	415
21	161
22	275
23	159
24	543
25	273
26	458
27	298
28	180
29	255
30	151
30-day Average (ppm @ 3% O2)	1,113

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	1,881.4	19.1	13.48	47.8%
TXDibollTemple-Inland	PB-44	308.8	19.2	13.03	47.9%
TXDibollTemple-Inland	PB-44	2,512.8	19.2	13.64	48.0%
TXDibollTemple-Inland	PB-44	831.2	19.2	13.34	48.0%
TXDibollTemple-Inland	PB-44	1,651.3	19.2	13.49	48.1%
TXDibollTemple-Inland	PB-44	1,030.9	19.3	13.17	48.1%
TXDibollTemple-Inland	PB-44	2,931.7	19.3	13.54	48.2%
TXDibollTemple-Inland	PB-44	1,386.7	19.3	13.42	48.2%
TXDibollTemple-Inland	PB-44	1,542.8	19.3	13.66	48.3%
TXDibollTemple-Inland	PB-44	567.5	19.3	13	48.4%
TXDibollTemple-Inland	PB-44	402.5	19.4	12.89	48.4%
TXDibollTemple-Inland	PB-44	2,201.4	19.4	13.52	48.5%
TXDibollTemple-Inland	PB-44	1,099.3	19.4	13.29	48.5%
TXDibollTemple-Inland	PB-44	202.0	19.4	12.66	48.6%
TXDibollTemple-Inland	PB-44	876.4	19.5	13.42	48.7%
TXDibollTemple-Inland	PB-44	2,300.0	19.5	13.55	48.8%
TXDibollTemple-Inland	PB-44	1,008.7	19.5	13.33	48.8%
TXDibollTemple-Inland	PB-44	1,428.9	19.5	13.29	48.8%
TXDibollTemple-Inland	PB-44	654.2	19.6	13.12	49.0%
TXDibollTemple-Inland	PB-44	618.1	19.6	13.24	49.0%
TXDibollTemple-Inland	PB-44	2,096.3	19.6	13.41	49.0%
TXDibollTemple-Inland	PB-44	1,598.6	19.6	13.29	49.1%
TXDibollTemple-Inland	PB-44	311.2	19.6	13.08	49.1%
TXDibollTemple-Inland	PB-44	310.1	19.6	12.84	49.1%
TXDibollTemple-Inland	PB-44	797.2	19.7	13.01	49.2%
TXDibollTemple-Inland	PB-44	2,503.5	19.7	13.43	49.3%
TXDibollTemple-Inland	PB-44	1,463.1	19.7	13.26	49.3%
TXDibollTemple-Inland	PB-44	273.0	19.7	12.98	49.3%
TXDibollTemple-Inland	PB-44	166.9	19.7	12.49	49.4%
TXDibollTemple-Inland	PB-44	421.1	19.8	12.61	49.4%
TXDibollTemple-Inland	PB-44	1,697.1	19.8	13.38	49.4%
TXDibollTemple-Inland	PB-44	195.1	19.8	12.81	49.5%
TXDibollTemple-Inland	PB-44	215.8	19.8	12.7	49.5%
TXDibollTemple-Inland	PB-44	322.7	19.8	12.8	49.6%
TXDibollTemple-Inland	PB-44	552.8	19.8	12.71	49.6%
TXDibollTemple-Inland	PB-44	822.7	19.8	12.7	49.6%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	334.1	19.9	12.83	49.6%
TXDibollTemple-Inland	PB-44	765.4	19.9	13.05	49.6%
TXDibollTemple-Inland	PB-44	470.8	19.9	12.61	49.7%
TXDibollTemple-Inland	PB-44	1,327.9	19.9	13.38	49.7%
TXDibollTemple-Inland	PB-44	439.5	19.9	12.64	49.7%
TXDibollTemple-Inland	PB-44	1,434.8	19.9	13.2	49.8%
TXDibollTemple-Inland	PB-44	756.1	19.9	13.31	49.8%
TXDibollTemple-Inland	PB-44	555.4	19.9	12.86	49.9%
TXDibollTemple-Inland	PB-44	443.7	20.0	13.05	49.9%
TXDibollTemple-Inland	PB-44	177.8	20.0	12.54	49.9%
TXDibollTemple-Inland	PB-44	446.4	20.0	12.57	49.9%
TXDibollTemple-Inland	PB-44	1,216.4	20.0	13.18	50.0%
TXDibollTemple-Inland	PB-44	587.0	20.0	13.03	50.0%
TXDibollTemple-Inland	PB-44	162.1	20.0	12.53	50.0%
TXDibollTemple-Inland	PB-44	161.3	20.0	12.52	50.1%
TXDibollTemple-Inland	PB-44	163.7	20.0	12.45	50.1%
TXDibollTemple-Inland	PB-44	309.3	20.0	12.87	50.1%
TXDibollTemple-Inland	PB-44	1,047.6	20.0	13.27	50.1%
TXDibollTemple-Inland	PB-44	1,738.6	20.0	13.25	50.1%
TXDibollTemple-Inland	PB-44	1,102.0	20.1	13.26	50.1%
TXDibollTemple-Inland	PB-44	257.4	20.1	12.55	50.2%
TXDibollTemple-Inland	PB-44	997.4	20.1	13.1	50.3%
TXDibollTemple-Inland	PB-44	107.3	20.1	12.38	50.3%
TXDibollTemple-Inland	PB-44	1,634.2	20.1	13.48	50.3%
TXDibollTemple-Inland	PB-44	477.9	20.1	12.93	50.3%
TXDibollTemple-Inland	PB-44	155.1	20.1	12.42	50.3%
TXDibollTemple-Inland	PB-44	331.3	20.1	12.5	50.4%
TXDibollTemple-Inland	PB-44	1,385.6	20.2	13.02	50.4%
TXDibollTemple-Inland	PB-44	192.7	20.2	12.5	50.4%
TXDibollTemple-Inland	PB-44	834.4	20.2	13.18	50.4%
TXDibollTemple-Inland	PB-44	985.0	20.2	13.33	50.4%
TXDibollTemple-Inland	PB-44	183.7	20.2	12.65	50.5%
TXDibollTemple-Inland	PB-44	136.8	20.2	12.44	50.5%
TXDibollTemple-Inland	PB-44	1,348.4	20.2	13.34	50.5%
TXDibollTemple-Inland	PB-44	316.9	20.2	12.87	50.5%
TXDibollTemple-Inland	PB-44	874.5	20.2	12.69	50.5%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	444.6	20.2	12.73	50.6%
TXDibollTemple-Inland	PB-44	240.5	20.2	12.31	50.6%
TXDibollTemple-Inland	PB-44	472.7	20.2	13.03	50.6%
TXDibollTemple-Inland	PB-44	853.3	20.2	13.24	50.6%
TXDibollTemple-Inland	PB-44	256.8	20.3	12.48	50.7%
TXDibollTemple-Inland	PB-44	443.7	20.3	12.89	50.7%
TXDibollTemple-Inland	PB-44	326.7	20.3	12.58	50.7%
TXDibollTemple-Inland	PB-44	990.6	20.3	13.2	50.7%
TXDibollTemple-Inland	PB-44	104.2	20.3	12.16	50.7%
TXDibollTemple-Inland	PB-44	365.9	20.3	12.49	50.8%
TXDibollTemple-Inland	PB-44	312.5	20.3	12.7	50.8%
TXDibollTemple-Inland	PB-44	258.7	20.3	12.92	50.8%
TXDibollTemple-Inland	PB-44	1,302.5	20.3	13.32	50.8%
TXDibollTemple-Inland	PB-44	193.7	20.3	12.34	50.8%
TXDibollTemple-Inland	PB-44	969.5	20.4	13.31	50.9%
TXDibollTemple-Inland	PB-44	408.5	20.4	12.52	50.9%
TXDibollTemple-Inland	PB-44	249.2	20.4	12.54	51.0%
TXDibollTemple-Inland	PB-44	343.0	20.4	12.81	51.0%
TXDibollTemple-Inland	PB-44	559.1	20.4	12.95	51.0%
TXDibollTemple-Inland	PB-44	551.3	20.4	13.1	51.0%
TXDibollTemple-Inland	PB-44	145.8	20.4	12.26	51.1%
TXDibollTemple-Inland	PB-44	673.7	20.5	12.86	51.1%
TXDibollTemple-Inland	PB-44	496.8	20.5	12.7	51.2%
TXDibollTemple-Inland	PB-44	297.8	20.5	12.83	51.2%
TXDibollTemple-Inland	PB-44	477.9	20.5	12.65	51.2%
TXDibollTemple-Inland	PB-44	130.6	20.5	12.09	51.2%
TXDibollTemple-Inland	PB-44	1,299.5	20.5	13.5	51.2%
TXDibollTemple-Inland	PB-44	1,562.1	20.5	13.52	51.2%
TXDibollTemple-Inland	PB-44	480.1	20.5	12.56	51.2%
TXDibollTemple-Inland	PB-44	144.4	20.5	12.49	51.2%
TXDibollTemple-Inland	PB-44	139.1	20.5	12.45	51.3%
TXDibollTemple-Inland	PB-44	731.1	20.5	12.99	51.3%
TXDibollTemple-Inland	PB-44	428.7	20.5	12.52	51.3%
TXDibollTemple-Inland	PB-44	170.5	20.5	12.33	51.3%
TXDibollTemple-Inland	PB-44	529.0	20.5	12.82	51.3%
TXDibollTemple-Inland	PB-44	223.2	20.6	12.63	51.4%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	550.7	20.6	12.6322	51.4%
TXDibollTemple-Inland	PB-44	184.1	20.6	12.36	51.4%
TXDibollTemple-Inland	PB-44	247.5	20.6	12.29	51.4%
TXDibollTemple-Inland	PB-44	354.8	20.6	12.86	51.4%
TXDibollTemple-Inland	PB-44	530.2	20.6	13.08	51.4%
TXDibollTemple-Inland	PB-44	149.0	20.6	12.13	51.5%
TXDibollTemple-Inland	PB-44	773.6	20.6	13.1	51.5%
TXDibollTemple-Inland	PB-44	182.1	20.6	12.4	51.5%
TXDibollTemple-Inland	PB-44	375.5	20.6	12.84	51.6%
TXDibollTemple-Inland	PB-44	150.0	20.7	12.37	51.6%
TXDibollTemple-Inland	PB-44	629.9	20.7	13.06	51.6%
TXDibollTemple-Inland	PB-44	418.4	20.7	12.55	51.7%
TXDibollTemple-Inland	PB-44	131.5	20.7	12.44	51.7%
TXDibollTemple-Inland	PB-44	399.2	20.7	12.78	51.7%
TXDibollTemple-Inland	PB-44	495.2	20.7	12.89	51.7%
TXDibollTemple-Inland	PB-44	197.9	20.7	12.22	51.7%
TXDibollTemple-Inland	PB-44	382.6	20.7	12.76	51.8%
TXDibollTemple-Inland	PB-44	1,246.6	20.7	13.18	51.8%
TXDibollTemple-Inland	PB-44	510.7	20.7	12.98	51.8%
TXDibollTemple-Inland	PB-44	157.4	20.7	12.72	51.8%
TXDibollTemple-Inland	PB-44	301.8	20.7	12.95	51.8%
TXDibollTemple-Inland	PB-44	633.6	20.7	12.86	51.8%
TXDibollTemple-Inland	PB-44	297.9	20.7	12.62	51.8%
TXDibollTemple-Inland	PB-44	359.8	20.7	12.45	51.8%
TXDibollTemple-Inland	PB-44	478.9	20.7	13.01	51.8%
TXDibollTemple-Inland	PB-44	661.4	20.7	12.96	51.9%
TXDibollTemple-Inland	PB-44	1,698.4	20.7	13.53	51.9%
TXDibollTemple-Inland	PB-44	688.6	20.8	13.16	51.9%
TXDibollTemple-Inland	PB-44	161.6	20.8	12.49	51.9%
TXDibollTemple-Inland	PB-44	262.2	20.8	12.87	52.0%
TXDibollTemple-Inland	PB-44	260.8	20.8	12.5	52.0%
TXDibollTemple-Inland	PB-44	335.7	20.8	12.92	52.0%
TXDibollTemple-Inland	PB-44	405.6	20.8	12.9	52.0%
TXDibollTemple-Inland	PB-44	460.2	20.8	12.91	52.0%
TXDibollTemple-Inland	PB-44	764.2	20.8	13	52.0%
TXDibollTemple-Inland	PB-44	283.6	20.8	12.67	52.1%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	226.4	20.8	12.83	52.1%
TXDibollTemple-Inland	PB-44	488.9	20.8	12.98	52.1%
TXDibollTemple-Inland	PB-44	218.0	20.8	12.92	52.1%
TXDibollTemple-Inland	PB-44	1,440.6	20.8	13.46	52.1%
TXDibollTemple-Inland	PB-44	273.4	20.8	12.64	52.1%
TXDibollTemple-Inland	PB-44	223.4	20.9	12.55	52.1%
TXDibollTemple-Inland	PB-44	140.8	20.9	12.34	52.1%
TXDibollTemple-Inland	PB-44	275.9	20.9	12.93	52.2%
TXDibollTemple-Inland	PB-44	712.7	20.9	13.07	52.2%
TXDibollTemple-Inland	PB-44	232.2	20.9	12.45	52.2%
TXDibollTemple-Inland	PB-44	206.1	20.9	12.57	52.2%
TXDibollTemple-Inland	PB-44	954.1	20.9	13.24	52.3%
TXDibollTemple-Inland	PB-44	655.5	20.9	13.05	52.3%
TXDibollTemple-Inland	PB-44	841.1	20.9	12.95	52.3%
TXDibollTemple-Inland	PB-44	564.5	20.9	12.91	52.3%
TXDibollTemple-Inland	PB-44	1,495.6	20.9	13.36	52.3%
TXDibollTemple-Inland	PB-44	466.9	20.9	12.78	52.3%
TXDibollTemple-Inland	PB-44	324.5	20.9	12.6	52.3%
TXDibollTemple-Inland	PB-44	280.8	20.9	12.58	52.4%
TXDibollTemple-Inland	PB-44	721.2	20.9	13.06	52.4%
TXDibollTemple-Inland	PB-44	82.8	21.0	11.98	52.4%
TXDibollTemple-Inland	PB-44	205.9	21.0	12.17	52.4%
TXDibollTemple-Inland	PB-44	179.2	21.0	12.65	52.4%
TXDibollTemple-Inland	PB-44	235.0	21.0	12.42	52.4%
TXDibollTemple-Inland	PB-44	232.0	21.0	12.2	52.5%
TXDibollTemple-Inland	PB-44	160.2	21.0	12.45	52.5%
TXDibollTemple-Inland	PB-44	729.0	21.0	12.89	52.5%
TXDibollTemple-Inland	PB-44	1,248.3	21.0	13.44	52.5%
TXDibollTemple-Inland	PB-44	335.4	21.0	12.98	52.5%
TXDibollTemple-Inland	PB-44	1,133.2	21.0	12.97	52.5%
TXDibollTemple-Inland	PB-44	300.8	21.0	12.64	52.5%
TXDibollTemple-Inland	PB-44	243.5	21.0	12.78	52.6%
TXDibollTemple-Inland	PB-44	328.8	21.0	12.84	52.6%
TXDibollTemple-Inland	PB-44	310.7	21.0	12.48	52.6%
TXDibollTemple-Inland	PB-44	348.0	21.1	12.3	52.6%
TXDibollTemple-Inland	PB-44	275.3	21.1	12.29	52.6%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	108.5	21.1	12.42	52.7%
TXDibollTemple-Inland	PB-44	241.3	21.1	12.21	52.7%
TXDibollTemple-Inland	PB-44	401.2	21.1	12.75	52.7%
TXDibollTemple-Inland	PB-44	187.9	21.1	12.1	52.7%
TXDibollTemple-Inland	PB-44	461.7	21.1	12.82	52.8%
TXDibollTemple-Inland	PB-44	696.6	21.1	12.95	52.8%
TXDibollTemple-Inland	PB-44	322.6	21.1	12.29	52.8%
TXDibollTemple-Inland	PB-44	1,754.3	21.1	13.28	52.8%
TXDibollTemple-Inland	PB-44	243.8	21.1	12.85	52.9%
TXDibollTemple-Inland	PB-44	190.2	21.1	12.64	52.9%
TXDibollTemple-Inland	PB-44	611.4	21.2	13	52.9%
TXDibollTemple-Inland	PB-44	431.0	21.2	12.85	53.0%
TXDibollTemple-Inland	PB-44	203.4	21.2	12.62	53.0%
TXDibollTemple-Inland	PB-44	268.8	21.2	12.15	53.0%
TXDibollTemple-Inland	PB-44	768.9	21.2	12.97	53.0%
TXDibollTemple-Inland	PB-44	680.4	21.2	12.99	53.0%
TXDibollTemple-Inland	PB-44	289.0	21.2	12.2	53.1%
TXDibollTemple-Inland	PB-44	127.6	21.2	12.26	53.1%
TXDibollTemple-Inland	PB-44	215.2	21.3	12.25	53.1%
TXDibollTemple-Inland	PB-44	412.2	21.3	12.6	53.2%
TXDibollTemple-Inland	PB-44	307.7	21.3	12.18	53.2%
TXDibollTemple-Inland	PB-44	188.8	21.3	12.06	53.2%
TXDibollTemple-Inland	PB-44	841.9	21.3	13.07	53.2%
TXDibollTemple-Inland	PB-44	258.4	21.3	12.57	53.2%
TXDibollTemple-Inland	PB-44	589.1	21.3	12.81	53.3%
TXDibollTemple-Inland	PB-44	198.2	21.3	12.11	53.3%
TXDibollTemple-Inland	PB-44	437.6	21.3	12.78	53.3%
TXDibollTemple-Inland	PB-44	264.0	21.3	12.53	53.3%
TXDibollTemple-Inland	PB-44	368.8	21.3	12.83	53.3%
TXDibollTemple-Inland	PB-44	370.8	21.3	12.82	53.3%
TXDibollTemple-Inland	PB-44	342.0	21.3	12.87	53.3%
TXDibollTemple-Inland	PB-44	422.1	21.4	12.31	53.4%
TXDibollTemple-Inland	PB-44	366.0	21.4	12.25	53.4%
TXDibollTemple-Inland	PB-44	263.9	21.4	12.57	53.4%
TXDibollTemple-Inland	PB-44	57.0	21.4	12.88	53.4%
TXDibollTemple-Inland	PB-44	359.3	21.4	12.89	53.5%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	383.9	21.4	12.41	53.5%
TXDibollTemple-Inland	PB-44	73.0	21.4	12.16	53.5%
TXDibollTemple-Inland	PB-44	667.0	21.4	13.03	53.5%
TXDibollTemple-Inland	PB-44	209.5	21.4	12.61	53.5%
TXDibollTemple-Inland	PB-44	60.9	21.4	12.67	53.5%
TXDibollTemple-Inland	PB-44	341.5	21.4	12.83	53.6%
TXDibollTemple-Inland	PB-44	238.0	21.4	12.19	53.6%
TXDibollTemple-Inland	PB-44	568.3	21.4	12.54	53.6%
TXDibollTemple-Inland	PB-44	359.1	21.4	12.46	53.6%
TXDibollTemple-Inland	PB-44	392.6	21.5	12.82	53.6%
TXDibollTemple-Inland	PB-44	207.5	21.5	12.32	53.7%
TXDibollTemple-Inland	PB-44	158.3	21.5	12.22	53.7%
TXDibollTemple-Inland	PB-44	306.7	21.5	12.72	53.7%
TXDibollTemple-Inland	PB-44	989.0	21.5	13.01	53.7%
TXDibollTemple-Inland	PB-44	273.6	21.5	12.54	53.7%
TXDibollTemple-Inland	PB-44	353.8	21.5	12.72	53.7%
TXDibollTemple-Inland	PB-44	243.6	21.5	11.96	53.7%
TXDibollTemple-Inland	PB-44	224.4	21.5	12.34	53.7%
TXDibollTemple-Inland	PB-44	197.0	21.5	12.29	53.7%
TXDibollTemple-Inland	PB-44	135.9	21.5	12.18	53.7%
TXDibollTemple-Inland	PB-44	883.5	21.5	13.06	53.8%
TXDibollTemple-Inland	PB-44	476.7	21.5	12.77	53.8%
TXDibollTemple-Inland	PB-44	267.1	21.5	12.69	53.9%
TXDibollTemple-Inland	PB-44	282.4	21.6	12.87	53.9%
TXDibollTemple-Inland	PB-44	237.5	21.6	12.51	53.9%
TXDibollTemple-Inland	PB-44	360.6	21.6	12.68	53.9%
TXDibollTemple-Inland	PB-44	280.3	21.6	12.92	54.0%
TXDibollTemple-Inland	PB-44	693.2	21.6	12.85	54.0%
TXDibollTemple-Inland	PB-44	230.3	21.6	12.38	54.0%
TXDibollTemple-Inland	PB-44	1,371.1	21.6	13.11	54.0%
TXDibollTemple-Inland	PB-44	281.0	21.6	12.3	54.0%
TXDibollTemple-Inland	PB-44	208.8	21.6	12.68	54.0%
TXDibollTemple-Inland	PB-44	161.2	21.6	12.24	54.1%
TXDibollTemple-Inland	PB-44	159.4	21.6	12.39	54.1%
TXDibollTemple-Inland	PB-44	560.4	21.6	12.86	54.1%
TXDibollTemple-Inland	PB-44	432.8	21.6	12.73	54.1%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	485.4	21.7	12.69	54.1%
TXDibollTemple-Inland	PB-44	487.0	21.7	12.66	54.1%
TXDibollTemple-Inland	PB-44	647.8	21.7	12.8	54.2%
TXDibollTemple-Inland	PB-44	639.5	21.7	12.58	54.2%
TXDibollTemple-Inland	PB-44	211.1	21.7	12.54	54.2%
TXDibollTemple-Inland	PB-44	66.6	21.7	12.82	54.2%
TXDibollTemple-Inland	PB-44	936.0	21.7	12.73	54.2%
TXDibollTemple-Inland	PB-44	291.7	21.7	12.09	54.2%
TXDibollTemple-Inland	PB-44	352.3	21.7	12.5	54.2%
TXDibollTemple-Inland	PB-44	232.6	21.7	12.15	54.2%
TXDibollTemple-Inland	PB-44	365.9	21.7	12.68	54.3%
TXDibollTemple-Inland	PB-44	307.1	21.7	12.83	54.3%
TXDibollTemple-Inland	PB-44	236.1	21.7	12.58	54.3%
TXDibollTemple-Inland	PB-44	348.0	21.7	12.7	54.3%
TXDibollTemple-Inland	PB-44	300.3	21.7	12.53	54.3%
TXDibollTemple-Inland	PB-44	130.7	21.7	12.51	54.4%
TXDibollTemple-Inland	PB-44	250.9	21.7	12.27	54.4%
TXDibollTemple-Inland	PB-44	484.2	21.7	12.82	54.4%
TXDibollTemple-Inland	PB-44	152.0	21.8	12.32	54.4%
TXDibollTemple-Inland	PB-44	980.8	21.8	13.29	54.4%
TXDibollTemple-Inland	PB-44	619.0	21.8	13.09	54.5%
TXDibollTemple-Inland	PB-44	235.5	21.8	12.9	54.5%
TXDibollTemple-Inland	PB-44	374.1	21.8	12.16	54.5%
TXDibollTemple-Inland	PB-44	215.3	21.8	12.26	54.6%
TXDibollTemple-Inland	PB-44	441.1	21.9	12.97	54.7%
TXDibollTemple-Inland	PB-44	133.6	21.9	12.21	54.8%
TXDibollTemple-Inland	PB-44	163.7	21.9	12.58	54.8%
TXDibollTemple-Inland	PB-44	283.8	21.9	12.87	54.8%
TXDibollTemple-Inland	PB-44	398.1	22.0	12.56	54.9%
TXDibollTemple-Inland	PB-44	258.9	22.0	12.78	54.9%
TXDibollTemple-Inland	PB-44	257.2	22.0	12.08	55.0%
TXDibollTemple-Inland	PB-44	600.9	22.0	12.63	55.0%
TXDibollTemple-Inland	PB-44	273.5	22.0	12.72	55.0%
TXDibollTemple-Inland	PB-44	382.0	22.0	12.67	55.0%
TXDibollTemple-Inland	PB-44	139.3	22.0	12.41	55.0%
TXDibollTemple-Inland	PB-44	245.4	22.0	12.5	55.0%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	222.2	22.0	12.87	55.1%
TXDibollTemple-Inland	PB-44	133.4	22.0	12.4	55.1%
TXDibollTemple-Inland	PB-44	346.6	22.0	12.68	55.1%
TXDibollTemple-Inland	PB-44	5,002.2	22.0	13.6	55.1%
TXDibollTemple-Inland	PB-44	102.0	22.0	11.88	55.1%
TXDibollTemple-Inland	PB-44	121.1	22.1	12.25	55.1%
TXDibollTemple-Inland	PB-44	348.8	22.1	12.68	55.2%
TXDibollTemple-Inland	PB-44	185.4	22.1	12.5	55.2%
TXDibollTemple-Inland	PB-44	118.7	22.1	12.42	55.2%
TXDibollTemple-Inland	PB-44	226.9	22.1	11.93	55.3%
TXDibollTemple-Inland	PB-44	127.0	22.1	12.45	55.3%
TXDibollTemple-Inland	PB-44	184.0	22.1	12.43	55.3%
TXDibollTemple-Inland	PB-44	500.6	22.1	12.81	55.3%
TXDibollTemple-Inland	PB-44	192.9	22.1	12.8	55.4%
TXDibollTemple-Inland	PB-44	140.2	22.1	12.45	55.4%
TXDibollTemple-Inland	PB-44	98.2	22.2	12.16	55.5%
TXDibollTemple-Inland	PB-44	1,057.5	22.2	12.95	55.5%
TXDibollTemple-Inland	PB-44	126.5	22.2	12.18	55.6%
TXDibollTemple-Inland	PB-44	626.0	22.2	12.64	55.6%
TXDibollTemple-Inland	PB-44	162.4	22.2	12.39	55.6%
TXDibollTemple-Inland	PB-44	248.6	22.3	12.51	55.7%
TXDibollTemple-Inland	PB-44	306.4	22.3	12	55.7%
TXDibollTemple-Inland	PB-44	365.7	22.3	12.49	55.7%
TXDibollTemple-Inland	PB-44	355.9	22.3	12.73	55.7%
TXDibollTemple-Inland	PB-44	309.2	22.3	12.87	55.8%
TXDibollTemple-Inland	PB-44	289.5	22.3	12.12	55.8%
TXDibollTemple-Inland	PB-44	221.9	22.3	12.5	55.8%
TXDibollTemple-Inland	PB-44	187.3	22.3	12.53	55.8%
TXDibollTemple-Inland	PB-44	1,169.1	22.3	13.14	55.8%
TXDibollTemple-Inland	PB-44	207.0	22.4	12.61	55.9%
TXDibollTemple-Inland	PB-44	136.4	22.4	12.32	55.9%
TXDibollTemple-Inland	PB-44	267.4	22.4	12.69	55.9%
TXDibollTemple-Inland	PB-44	173.0	22.4	12.43	56.0%
TXDibollTemple-Inland	PB-44	257.0	22.4	12.35	56.1%
TXDibollTemple-Inland	PB-44	193.7	22.4	12.53	56.1%
TXDibollTemple-Inland	PB-44	119.0	22.4	12.02	56.1%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	573.2	22.5	12.88	56.1%
TXDibollTemple-Inland	PB-44	133.3	22.5	12.66	56.2%
TXDibollTemple-Inland	PB-44	216.6	22.5	12.61	56.2%
TXDibollTemple-Inland	PB-44	123.5	22.5	12.41	56.2%
TXDibollTemple-Inland	PB-44	587.8	22.5	12.81	56.2%
TXDibollTemple-Inland	PB-44	555.5	22.5	12.82	56.2%
TXDibollTemple-Inland	PB-44	1,184.8	22.5	13.12	56.3%
TXDibollTemple-Inland	PB-44	257.0	22.5	12.66	56.3%
TXDibollTemple-Inland	PB-44	186.8	22.5	12.06	56.3%
TXDibollTemple-Inland	PB-44	61.4	22.5	12.18	56.3%
TXDibollTemple-Inland	PB-44	154.6	22.5	12.48	56.4%
TXDibollTemple-Inland	PB-44	777.4	22.6	12.68	56.4%
TXDibollTemple-Inland	PB-44	459.8	22.6	12.6	56.4%
TXDibollTemple-Inland	PB-44	153.6	22.6	12.31	56.5%
TXDibollTemple-Inland	PB-44	3,153.0	22.6	13.38	56.5%
TXDibollTemple-Inland	PB-44	278.6	22.6	12.54	56.5%
TXDibollTemple-Inland	PB-44	154.6	22.6	12.25	56.5%
TXDibollTemple-Inland	PB-44	707.3	22.6	12.79	56.5%
TXDibollTemple-Inland	PB-44	3,636.3	22.6	13.45	56.5%
TXDibollTemple-Inland	PB-44	281.1	22.6	12.61	56.6%
TXDibollTemple-Inland	PB-44	148.1	22.6	12.25	56.6%
TXDibollTemple-Inland	PB-44	113.6	22.7	12.26	56.7%
TXDibollTemple-Inland	PB-44	322.2	22.7	12.45	56.7%
TXDibollTemple-Inland	PB-44	56.5	22.7	11.96	56.7%
TXDibollTemple-Inland	PB-44	99.3	22.7	12.17	56.7%
TXDibollTemple-Inland	PB-44	410.6	22.7	12.98	56.8%
TXDibollTemple-Inland	PB-44	218.3	22.7	12.08	56.8%
TXDibollTemple-Inland	PB-44	381.1	22.7	12.78	56.8%
TXDibollTemple-Inland	PB-44	361.6	22.7	12.64	56.8%
TXDibollTemple-Inland	PB-44	177.7	22.7	11.96	56.8%
TXDibollTemple-Inland	PB-44	177.4	22.7	12.28	56.8%
TXDibollTemple-Inland	PB-44	399.6	22.7	12.91	56.9%
TXDibollTemple-Inland	PB-44	128.4	22.7	12.12	56.9%
TXDibollTemple-Inland	PB-44	73.2	22.8	12.19	56.9%
TXDibollTemple-Inland	PB-44	129.0	22.8	12.29	57.0%
TXDibollTemple-Inland	PB-44	397.3	22.8	12.86	57.0%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	403.2	22.8	12.89	57.0%
TXDibollTemple-Inland	PB-44	185.9	22.8	12.56	57.1%
TXDibollTemple-Inland	PB-44	301.4	22.8	12.78	57.1%
TXDibollTemple-Inland	PB-44	163.8	22.9	11.75	57.2%
TXDibollTemple-Inland	PB-44	151.5	22.9	12.11	57.2%
TXDibollTemple-Inland	PB-44	2,257.3	22.9	13.26	57.2%
TXDibollTemple-Inland	PB-44	115.9	22.9	12.35	57.2%
TXDibollTemple-Inland	PB-44	189.1	22.9	12.53	57.3%
TXDibollTemple-Inland	PB-44	188.5	22.9	12.36	57.3%
TXDibollTemple-Inland	PB-44	126.8	22.9	12.05	57.4%
TXDibollTemple-Inland	PB-44	510.6	23.0	12.5	57.4%
TXDibollTemple-Inland	PB-44	152.4	23.0	12.54	57.4%
TXDibollTemple-Inland	PB-44	158.7	23.0	12.25	57.4%
TXDibollTemple-Inland	PB-44	241.3	23.0	12.25	57.5%
TXDibollTemple-Inland	PB-44	275.6	23.0	11.99	57.5%
TXDibollTemple-Inland	PB-44	244.7	23.0	12.16	57.5%
TXDibollTemple-Inland	PB-44	254.0	23.0	12.41	57.5%
TXDibollTemple-Inland	PB-44	388.2	23.0	11.99	57.6%
TXDibollTemple-Inland	PB-44	128.6	23.0	12.48	57.6%
TXDibollTemple-Inland	PB-44	155.2	23.0	12.27	57.6%
TXDibollTemple-Inland	PB-44	310.4	23.1	12.62	57.6%
TXDibollTemple-Inland	PB-44	632.3	23.1	12.93	57.7%
TXDibollTemple-Inland	PB-44	206.1	23.1	12.01	57.7%
TXDibollTemple-Inland	PB-44	378.8	23.1	12.67	57.7%
TXDibollTemple-Inland	PB-44	86.4	23.1	12.05	57.8%
TXDibollTemple-Inland	PB-44	208.5	23.1	12.6	57.8%
TXDibollTemple-Inland	PB-44	455.3	23.1	12.85	57.8%
TXDibollTemple-Inland	PB-44	930.2	23.1	12.83	57.8%
TXDibollTemple-Inland	PB-44	120.0	23.2	12.13	57.9%
TXDibollTemple-Inland	PB-44	217.9	23.2	12.69	58.0%
TXDibollTemple-Inland	PB-44	330.9	23.2	12.13	58.0%
TXDibollTemple-Inland	PB-44	102.1	23.2	11.99	58.0%
TXDibollTemple-Inland	PB-44	409.1	23.2	12.35	58.0%
TXDibollTemple-Inland	PB-44	192.8	23.2	12.43	58.0%
TXDibollTemple-Inland	PB-44	199.7	23.2	12.51	58.0%
TXDibollTemple-Inland	PB-44	255.5	23.2	12.41	58.1%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	188.4	23.3	12.32	58.1%
TXDibollTemple-Inland	PB-44	599.5	23.3	12.49	58.1%
TXDibollTemple-Inland	PB-44	178.6	23.3	12.26	58.2%
TXDibollTemple-Inland	PB-44	68.7	23.3	12.16	58.2%
TXDibollTemple-Inland	PB-44	127.2	23.3	12.16	58.2%
TXDibollTemple-Inland	PB-44	723.2	23.3	12.8	58.2%
TXDibollTemple-Inland	PB-44	237.7	23.3	12.32	58.2%
TXDibollTemple-Inland	PB-44	80.5	23.3	11.97	58.2%
TXDibollTemple-Inland	PB-44	201.4	23.3	12.51	58.2%
TXDibollTemple-Inland	PB-44	480.2	23.3	12.89	58.2%
TXDibollTemple-Inland	PB-44	610.1	23.3	12.49	58.2%
TXDibollTemple-Inland	PB-44	386.7	23.3	12.29	58.4%
TXDibollTemple-Inland	PB-44	341.8	23.4	12.25	58.4%
TXDibollTemple-Inland	PB-44	177.5	23.4	12.03	58.4%
TXDibollTemple-Inland	PB-44	463.8	23.4	12.71	58.5%
TXDibollTemple-Inland	PB-44	169.9	23.4	11.78	58.5%
TXDibollTemple-Inland	PB-44	188.1	23.5	12.27	58.7%
TXDibollTemple-Inland	PB-44	232.2	23.5	12.44	58.7%
TXDibollTemple-Inland	PB-44	153.5	23.5	12.1	58.7%
TXDibollTemple-Inland	PB-44	173.9	23.5	12.19	58.7%
TXDibollTemple-Inland	PB-44	158.7	23.5	12.22	58.8%
TXDibollTemple-Inland	PB-44	296.4	23.5	12.71	58.8%
TXDibollTemple-Inland	PB-44	142.7	23.5	11.83	58.9%
TXDibollTemple-Inland	PB-44	180.7	23.6	12.58	58.9%
TXDibollTemple-Inland	PB-44	164.4	23.6	12.28	58.9%
TXDibollTemple-Inland	PB-44	107.2	23.6	11.73	58.9%
TXDibollTemple-Inland	PB-44	145.2	23.6	12.35	58.9%
TXDibollTemple-Inland	PB-44	126.4	23.6	12.49	59.0%
TXDibollTemple-Inland	PB-44	35.2	23.6	11.32	59.0%
TXDibollTemple-Inland	PB-44	373.5	23.6	12.62	59.0%
TXDibollTemple-Inland	PB-44	212.3	23.6	12.48	59.0%
TXDibollTemple-Inland	PB-44	178.2	23.6	12.28	59.1%
TXDibollTemple-Inland	PB-44	717.3	23.6	12.74	59.1%
TXDibollTemple-Inland	PB-44	116.2	23.6	11.99	59.1%
TXDibollTemple-Inland	PB-44	195.7	23.7	11.96	59.2%
TXDibollTemple-Inland	PB-44	133.9	23.7	11.83	59.2%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	121.1	23.7	11.93	59.2%
TXDibollTemple-Inland	PB-44	110.9	23.7	12.05	59.3%
TXDibollTemple-Inland	PB-44	120.6	23.7	12.04	59.3%
TXDibollTemple-Inland	PB-44	390.2	23.7	12.35	59.3%
TXDibollTemple-Inland	PB-44	209.0	23.7	12.41	59.4%
TXDibollTemple-Inland	PB-44	2,197.6	23.8	13.29	59.4%
TXDibollTemple-Inland	PB-44	182.2	23.8	12.25	59.5%
TXDibollTemple-Inland	PB-44	97.8	23.8	12.04	59.5%
TXDibollTemple-Inland	PB-44	468.0	23.8	12.34	59.5%
TXDibollTemple-Inland	PB-44	126.1	24.0	12.01	59.9%
TXDibollTemple-Inland	PB-44	483.0	24.0	12.35	60.0%
TXDibollTemple-Inland	PB-44	117.5	24.0	11.9	60.0%
TXDibollTemple-Inland	PB-44	156.1	24.0	12.19	60.1%
TXDibollTemple-Inland	PB-44	315.8	24.0	12.53	60.1%
TXDibollTemple-Inland	PB-44	2,588.8	24.0	13.31	60.1%
TXDibollTemple-Inland	PB-44	2,727.8	24.0	13.35	60.1%
TXDibollTemple-Inland	PB-44	119.0	24.1	11.95	60.2%
TXDibollTemple-Inland	PB-44	482.6	24.1	12.37	60.3%
TXDibollTemple-Inland	PB-44	192.5	24.1	12.1	60.4%
TXDibollTemple-Inland	PB-44	1,929.0	24.2	13.11	60.4%
TXDibollTemple-Inland	PB-44	3,059.8	24.2	13.4	60.5%
TXDibollTemple-Inland	PB-44	94.1	24.2	11.92	60.5%
TXDibollTemple-Inland	PB-44	456.3	24.3	12.42	60.7%
TXDibollTemple-Inland	PB-44	198.7	24.3	12.46	60.7%
TXDibollTemple-Inland	PB-44	133.3	24.3	11.93	60.7%
TXDibollTemple-Inland	PB-44	27.1	24.3	10.6	60.7%
TXDibollTemple-Inland	PB-44	2,254.0	24.5	13.31	61.2%
TXDibollTemple-Inland	PB-44	780.5	24.5	12.71	61.2%
TXDibollTemple-Inland	PB-44	454.9	24.5	12.38	61.2%
TXDibollTemple-Inland	PB-44	103.7	24.6	12.02	61.6%
TXDibollTemple-Inland	PB-44	3,531.1	24.7	13.43	61.6%
TXDibollTemple-Inland	PB-44	113.1	24.7	11.91	61.8%
TXDibollTemple-Inland	PB-44	129.7	24.7	11.86	61.9%
TXDibollTemple-Inland	PB-44	292.0	24.8	12.01	61.9%
TXDibollTemple-Inland	PB-44	406.3	24.8	12.35	61.9%
TXDibollTemple-Inland	PB-44	111.4	24.9	12.04	62.2%

Appendix B-2: CO 30-Day Average for TXDibollTemple-Inland

FacilityID	CombustorID	CO (ppm@3%O2)	Heat_Input	O2%	% of Design Capacity
TXDibollTemple-Inland	PB-44	1,566.1	24.9	13.04	62.2%
TXDibollTemple-Inland	PB-44	104.7	24.9	11.9	62.3%
TXDibollTemple-Inland	PB-44	2,843.8	25.0	13.34	62.4%
TXDibollTemple-Inland	PB-44	118.6	25.0	11.57	62.5%
TXDibollTemple-Inland	PB-44	169.3	25.0	12.09	62.5%
TXDibollTemple-Inland	PB-44	125.6	25.0	11.96	62.6%
TXDibollTemple-Inland	PB-44	102.6	25.1	11.95	62.8%
TXDibollTemple-Inland	PB-44	1,481.7	25.2	13.08	62.9%
TXDibollTemple-Inland	PB-44	132.4	25.3	11.42	63.3%
TXDibollTemple-Inland	PB-44	101.5	25.4	11.6	63.6%
TXDibollTemple-Inland	PB-44	1,499.4	25.4	12.95	63.6%
TXDibollTemple-Inland	PB-44	112.3	25.5	11.66	63.7%
TXDibollTemple-Inland	PB-44	95.9	25.7	11.67	64.1%
TXDibollTemple-Inland	PB-44	147.0	25.7	11.53	64.2%
TXDibollTemple-Inland	PB-44	72.2	25.9	11.7	64.8%
TXDibollTemple-Inland	PB-44	64.5	26.0	11.67	64.9%
TXDibollTemple-Inland	PB-44	39.3	26.3	11.34	65.7%
TXDibollTemple-Inland	PB-44	9.9	27.1	10.6	67.7%
TXDibollTemple-Inland	PB-44	5.6	29.1	9.75	72.7%
TXDibollTemple-Inland	PB-44	6.8	29.5	9.81	73.7%
TXDibollTemple-Inland	PB-44	18.2	29.8	9.24	74.6%
TXDibollTemple-Inland	PB-44	25.3	30.0	9.81	74.9%
TXDibollTemple-Inland	PB-44	11.0	30.9	9.89	77.3%
TXDibollTemple-Inland	PB-44	11.0	31.0	9.32	77.6%
TXDibollTemple-Inland	PB-44	16.9	31.0	9.03	77.6%

Appendix C-1: Summary of Number of Sources with Test Data and Top 12 Percent MACT Floor by Fuel Type

Parameters	PM Filterable (lb/mmBtu)	Hg	HCl	CO	D/F total mass	D/F TEQ	Total Count of Units in Subcategory
Biomass							420
No. of sources =	192	91	92				
No. in MACT floor =	24	11	12				
Coal							578
No. of sources =	366	285	318				
No. in MACT floor =	44	35	39				
Liquid							826
No. of sources =	91	177	190	116	17	17	
No. in MACT floor =	11	22	23	14	3	3	
Gas 1 - Excluding Metal Industry Furnaces							10783
No. of sources =	144	14	11	754	8	8	
No. in MACT floor =	18	2	2	91	1	1	
Gas 1 - Metal Industry Furnaces							749
No. of sources =	9	7	9	15	7	7	
No. in MACT floor =	2	1	2	2	1	1	
Gas 2							199
No. of sources =	13	8	8	75	5	5	
No. in MACT floor =	2	1	1	9	1	1	

Parameters	CO (ppm @ 3% O2)	Dioxin/Furans (Total Mass) ppm@ 3% O2)	Dioxin/Furans (TEQ) ppm@ 3% O2)	Total Count of Units in Subcategory
Biomass - Dutch Oven				62
No. of sources =	17	3	3	
No. in MACT floor =	3	1	1	
Biomass - Fluidized Bed				12
No. of sources =	7	6	6	
No. in MACT floor =	5	5	5	
Biomass - Fuel Cell				26
No. of sources =	16	7	7	
No. in MACT floor =	5	5	5	
Biomass - Stoker				320
No. of sources =	119	16	16	
No. in MACT floor =	15	2	2	
Coal - FB				31
No. of sources =	17	12	12	
No. in MACT floor =	3	2	2	
Coal - PC				186
No. of sources =	41	10	10	
No. in MACT floor =	5	2	2	
Coal - Stoker				361
No. of sources =	61	14	14	
No. in MACT floor =	8	2	2	

APPENDIX C-2

Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type

(See file named “*mjr-MACT Floor Appx C-2*” for facility-specific cost estimates)

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
FLUSSugarC orp	Boiler No. 7	CO	Biomass	Dutch Oven/Susp. Burner	1.87E+01	1	YES
TXDibollTem ple-Inland	PB-44	CO	Biomass	Dutch Oven/Susp. Burner	6.93E+01	2	YES
WAGraysHar borPaper	No. 6 Boiler (EU2)	CO	Biomass	Dutch Oven/Susp. Burner	2.56E+02	3	YES
FLSugarCan eGrowersCo op	Boiler No. 8	CO	Biomass	Dutch Oven/Susp. Burner	3.17E+02	4	NO
ORRosboroS pringfield	DV 01.1	CO	Biomass	Dutch Oven/Susp. Burner	4.10E+02	5	NO
ORFlakeboar dEugene	Boiler-2	CO	Biomass	Dutch Oven/Susp. Burner	4.48E+02	6	NO
FLUSSugarC orp	Boiler No. 8	CO	Biomass	Dutch Oven/Susp. Burner	4.51E+02	7	NO
OHSauderW oodArchbold	B009	CO	Biomass	Dutch Oven/Susp. Burner	5.02E+02	8	NO
OHSauderW oodArchbold	B008	CO	Biomass	Dutch Oven/Susp. Burner	5.42E+02	9	NO
MNNorbordM innesota	Konus No. 1	CO	Biomass	Dutch Oven/Susp. Burner	9.60E+02	10	NO
MNNorbordM innesota	Konus No. 2	CO	Biomass	Dutch Oven/Susp. Burner	9.60E+02	11	NO
FLUSSugarC orp	Boiler No. 4	CO	Biomass	Dutch Oven/Susp. Burner	1.48E+03	12	NO
FLSugarCan eGrowersCo op	Boiler No. 1	CO	Biomass	Dutch Oven/Susp. Burner	2.35E+03	13	NO
FLOsceolaF arms	Boiler No. 3	CO	Biomass	Dutch Oven/Susp. Burner	4.26E+03	14	NO
FLUSSugarC orp	Boiler No. 1	CO	Biomass	Dutch Oven/Susp. Burner	7.37E+03	15	NO
FLOsceolaF arms	Boiler No. 6	CO	Biomass	Dutch Oven/Susp. Burner	7.50E+03	16	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
FLUSSugarCorp	Boiler No. 2	CO	Biomass	Dutch Oven/Susp. Burner	1.98E+04	17	NO
ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	CO	Biomass	FB	2.39E+01	1	YES
ALIPCourtland	No. 3 Combination Boier / 11CU301	CO	Biomass	FB	3.98E+01	2	YES
TNDomtar2384	HFB1-1	CO	Biomass	FB	8.17E+01	3	YES
GATempleInlandRome	WF	CO	Biomass	FB	9.88E+01	4	YES
KYDomtarHawesville	Biofuel Boiler B-900	CO	Biomass	FB	1.12E+02	5	YES
TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	CO	Biomass	FB	1.15E+02	6	NO
NDCargillWestFargo	Foster Wheeler Boiler (EU43)	CO	Biomass	FB	3.55E+03	7	NO
KYWeyerhaeuserEKY	MP 01-01	CO	Biomass	Fuel Cell	5.74E+01	1	YES
KYWeyerhaeuserEKY	MP 01-03	CO	Biomass	Fuel Cell	5.74E+01	2	YES
ARWeyerhaeuserDierksMill	SN-45	CO	Biomass	Fuel Cell	6.21E+01	3	YES
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Biomass	Fuel Cell	1.16E+02	4	YES
WVGPMtHopeOSB	5600 - Wellons Energy System	CO	Biomass	Fuel Cell	1.27E+02	5	YES
VAGeorgiaPacificBrooknealGladys	5600	CO	Biomass	Fuel Cell	1.73E+02	6	NO
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Biomass	Fuel Cell	1.87E+02	7	NO
IDPotlatch	PB-1 CE	CO	Biomass	Fuel Cell	2.72E+02	8	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
GAADMLoca tion551	630- Wellons	CO	Biomass	Fuel Cell	3.66E+02	9	NO
ORWeyerha euserCoWarr entonLumber Mill	3-HFB	CO	Biomass	Fuel Cell	4.55E+02	10	NO
ARAnthonyF orestProduct s	SN-16	CO	Biomass	Fuel Cell	5.41E+02	11	NO
ARAnthonyF orestProduct s	SN-12	CO	Biomass	Fuel Cell	6.54E+02	12	NO
MTPlumCree k	Wellons Plywood	CO	Biomass	Fuel Cell	1.19E+03	13	NO
TXNorbordT exasNacogd oches	Konus No. 1	CO	Biomass	Fuel Cell	1.22E+03	14	NO
TXNorbordT exasNacogd oches	Konus No. 2	CO	Biomass	Fuel Cell	1.22E+03	15	NO
NCUniboard USA	Wellons Thermal Oil Heater	CO	Biomass	Fuel Cell	1.58E+05	16	NO
GATempleIn andThomson	BW-B001	CO	Biomass	Stoker/Slope dGrate/Other	4.08E+00	1	YES
WVWeyerha euserBuckha nnon	001-01	CO	Biomass	Stoker/Slope dGrate/Other	2.28E+01	2	YES
WAKimberly ClarkEverett	No. 14 Cogeneration Boiler	CO	Biomass	Stoker/Slope dGrate/Other	3.39E+01	3	YES
IDChilcoLake Sawmill	HFB1	CO	Biomass	Stoker/Slope dGrate/Other	5.10E+01	4	YES
ARWestFras erHuttig	SN-24	CO	Biomass	Stoker/Slope dGrate/Other	6.48E+01	5	YES
MILPCSagol a	TOH-Wood	CO	Biomass	Stoker/Slope dGrate/Other	6.80E+01	6	YES
INConsolidat edGrainandB arge	P17B	CO	Biomass	Stoker/Slope dGrate/Other	8.72E+01	7	YES
INConsolidat edGrainandB arge	P17C	CO	Biomass	Stoker/Slope dGrate/Other	8.72E+01	8	YES

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
MNAnderson CorpBayport	Boiler 11 EU620	CO	Biomass	Stoker/Slope dGrate/Other	9.25E+01	9	YES
MNAnderson CorpBayport	Boiler 12 EU621	CO	Biomass	Stoker/Slope dGrate/Other	9.96E+01	10	YES
MSGPNewA ugusta	AA-015 Power Boiler	CO	Biomass	Stoker/Slope dGrate/Other	1.02E+02	11	YES
KYNewPage- Wickliffe	B09	CO	Biomass	Stoker/Slope dGrate/Other	1.13E+02	12	YES
ALMeadwest vacoCottonto n46	No.3 Wood Residue Boiler	CO	Biomass	Stoker/Slope dGrate/Other	1.22E+02	13	YES
MSShuquala kLumber	Boiler 4 (AA- 108)	CO	Biomass	Stoker/Slope dGrate/Other	1.22E+02	14	YES
MSHoodBea umont	AA-030 (Wood-Fired Boiler)	CO	Biomass	Stoker/Slope dGrate/Other	1.28E+02	15	YES
OHAKronThe rmalEnergy	Unit #2 (B004)	CO	Biomass	Stoker/Slope dGrate/Other	1.29E+02	16	NO
GATempleInl andRome	PB4	CO	Biomass	Stoker/Slope dGrate/Other	1.30E+02	17	NO
MNWeyerha euserIronton	EU 001 - 4 Cell Furnace	CO	Biomass	Stoker/Slope dGrate/Other	1.32E+02	18	NO
ORBlueHero nPaper	G Boiler	CO	Biomass	Stoker/Slope dGrate/Other	1.47E+02	19	NO
MIWhitePine Electric	IBW Boiler	CO	Biomass	Stoker/Slope dGrate/Other	1.49E+02	20	NO
PAProctorGa mbleMehoop anyPA	Boiler #3 (033A)	CO	Biomass	Stoker/Slope dGrate/Other	1.51E+02	21	NO
ALWestervel t	Teaford - Unit 003	CO	Biomass	Stoker/Slope dGrate/Other	1.59E+02	22	NO
ALIPCourtlan d	No. 1 Combination Boiler / 11CU101	CO	Biomass	Stoker/Slope dGrate/Other	1.60E+02	23	NO
IDRileyCreek Lumber	HFB1	CO	Biomass	Stoker/Slope dGrate/Other	1.61E+02	24	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
ORStimsonL umberForest Grove	Boiler 1	CO	Biomass	Stoker/Slope dGrate/Other	1.64E+02	25	NO
ORStimsonL umberForest Grove	Boiler 2	CO	Biomass	Stoker/Slope dGrate/Other	1.64E+02	26	NO
ORStimsonL umberForest Grove	Boiler 3	CO	Biomass	Stoker/Slope dGrate/Other	1.64E+02	27	NO
WVJELD- WENCraigsvi lle	Wood Fired Boiler	CO	Biomass	Stoker/Slope dGrate/Other	1.82E+02	28	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	Total Mass PCDD/PCDF Unit	ng/dscm @3%O2	Rank	In top 12 pct?
ORFlakeboardEugene	Boiler-2	Biomass	Dutch Oven/Susp. Burner	ng/dscm @ 7% O2	1.63E-01	1	YES
ORRosborospringfield	DV 01.1	Biomass	Dutch Oven/Susp. Burner	ng/dscm @ 7% O2	9.12E+00	2	NO
WAGraysHarborPaper	No. 6 Boiler (EU2)	Biomass	Dutch Oven/Susp. Burner	ng/dscm @ 7% O2	1.71E+01	3	NO
ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Biomass	FB	ng/dscm @ 7% O2	3.00E-02	1	YES
ALIPCourtland	No. 3 Combination Boier / 11Cu301	Biomass	FB	ng/dscm @ 7% O2	1.09E-01	2	YES
NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Biomass	FB	ng/dscm @ 7% O2	1.83E-01	3	YES
TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	Biomass	FB	ng/dscm @ 7% O2	1.90E-01	4	YES
GATempleInlandRome	WF	Biomass	FB	ng/dscm @ 7% O2	5.59E-01	5	YES
TNDomtar2384	HFB1-1	Biomass	FB	ng/dscm @ 7% O2	1.45E+00	6	NO
ARWeyerhaeuserDierksMill	SN-45	Biomass	Fuel Cell	ng/dscm @ 7% O2	1.79E-02	1	YES
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Biomass	Fuel Cell	ng/dscm @ 7% O2	3.19E-02	2	YES
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Biomass	Fuel Cell	ng/dscm @ 7% O2	1.67E-01	3	YES
ORWeyerhaeuserCoWarrontonLumberMill	3-HFB	Biomass	Fuel Cell	ng/dscm @ 7% O2	3.07E-01	4	YES
ARAnthonyForestProducts	SN-12	Biomass	Fuel Cell	ng/dscm @ 7% O2	5.65E-01	5	YES
MTPlumCreek	Wellons Plywood	Biomass	Fuel Cell	ng/dscm @ 7% O2	1.17E+00	6	NO
IDPotlatch	PB-1 CE	Biomass	Fuel Cell	ng/dscm @ 7% O2	3.43E+00	7	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	Total Mass PCDD/PCDF Unit	ng/dscm @3%O2	Rank	In top 12 pct?
GAGPMadis onPly	800 Wood Waste Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	2.93E-02	1	YES
SCMarlboroP aper	Hogged Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	3.99E-02	2	YES
ARPottlatchF orestWarren	Wellons Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	5.84E-02	3	NO
MEBoralexSt ratton	Boiler #1	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	9.06E-02	4	NO
MESDWarre nSomerset	No2 Power Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.89E-01	5	NO
KYNewPage- Wickliffe	B09	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	2.02E-01	6	NO
ALBoiseWhit ePaperJacks on	102-0001- Z013	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	3.02E-01	8	NO
WANipponP aper	#8 Hog Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	3.18E-01	9	NO
SCInternatio nalPaperEas tover	No. 2 Power Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	4.11E-01	10	NO
MTSmurfitSt one	Multi-Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	4.58E-01	11	NO
SCBewaterC oatedPaper	Combination Boiler No. 2	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	6.57E-01	12	NO
ARGBPMorri lton	SN-04	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.76E+00	13	NO
GAGPCellulo seBrunswick	U700 -- No. 4 Power Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.90E+00	14	NO
WAKimberly ClarkEverett	No. 14 Cogeneration Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	2.70E+00	15	NO
PAProctorGa mbleMehoop anyPA	Boiler #3 (033A)	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	3.23E+00	16	NO
ALMeadwest vacoCottonto n46	No.1 Wood Residue Boiler	Biomass	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	3.85E+01	17	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	Total Mass PCDD/PCDF Unit	ng/dscm @3%O2	Rank	In top 12 pct?
INPurdueUniversity	Boiler 5	Coal	FB	ng/dscm @ 7% O2	1.91E-03	1	YES
IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Coal	FB	ng/dscm @ 7% O2	1.66E-02	2	YES
GASPNewsprint	PB2	Coal	FB	ng/dscm @ 7% O2	8.39E-02	3	NO
IAUofIowa	EP7 Boiler 11	Coal	FB	ng/dscm @ 7% O2	9.59E-02	4	NO
IAADMCorn ProcessingC R	EU-501B	Coal	FB	ng/dscm @ 7% O2	9.77E-02	5	NO
ILPolyOne	B1	Coal	FB	ng/dscm @ 7% O2	1.50E-01	6	NO
MENewPage- Rumford	Cogen#6 & #7	Coal	FB	ng/dscm @ 7% O2	1.65E-01	7	NO
IAArchersDa nielsMidland DesMoines	Asea Boiler #1	Coal	FB	ng/dscm @ 7% O2	2.37E-01	8	NO
SCSonocoH artsville	Boiler Number 9	Coal	FB	ng/dscm @ 7% O2	2.59E-01	9	NO
ILBungeDan ville	CFB Boiler	Coal	FB	ng/dscm @ 7% O2	3.42E-01	10	NO
PAPHGlatfelt er	PB5	Coal	FB	ng/dscm @ 7% O2	5.20E-01	11	NO
NCUNCCoge n	ES-001	Coal	FB	ng/dscm @ 7% O2	2.06E+00	12	NO
WVPPGMart insville	R011-Boiler 3	Coal	PC	ng/dscm @ 7% O2	1.82E-02	1	YES
NCMillerCoor s	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Coal	PC	ng/dscm @ 7% O2	1.91E-02	2	YES
GAGPCedar Springs	U500 - Power Boiler No 1	Coal	PC	ng/dscm @ 7% O2	3.45E-02	3	NO
INTateLyleS agamore	31B1	Coal	PC	ng/dscm @ 7% O2	4.80E-02	4	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	Total Mass PCDD/PCDF Unit	ng/dscm @3%O2	Rank	In top 12 pct?
VASmurfitSt oneWestpt	PB08	Coal	PC	ng/dscm @ 7% O2	1.59E-01	5	NO
SCCogenSo uth	B001 - Main Boiler	Coal	PC	ng/dscm @ 7% O2	2.44E-01	6	NO
TNEastman_ NO_CBIDAT A	Boiler 30	Coal	PC	ng/dscm @ 7% O2	2.70E-01	7	NO
MITBSimonP owerPlant	Unit 1	Coal	PC	ng/dscm @ 7% O2	6.21E-01	8	NO
IAUofNorther nIowa	Boiler #3	Coal	PC	ng/dscm @ 7% O2	9.00E-01	9	NO
VAINVISTA Waynesboro	2-205 (B#2) Boiler #2	Coal	PC	ng/dscm @ 7% O2	2.31E+00	10	NO
KYISPCchemi cals	0AA (Riley)	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	2.53E-03	1	YES
WINewPage Biron	B24	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.24E-02	2	YES
ILAbbottAbb ottPark	Unit 5AP	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.51E-02	3	NO
IAMonsanto Muscatine	Boiler #8 (EP- 195)	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	4.16E-02	4	NO
INNotreDam e	B-4	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	4.93E-02	5	NO
TNCargillMe mphis	Stoker Boiler 8001	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	5.05E-02	6	NO
NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	9.00E-02	7	NO
WVATKRock etCenter	NB2766 W- 17479-W (Boiler 17)	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	9.69E-02	8	NO
NCBlueRidg ePaper	G11042	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.91E-01	9	NO
WIThilmayL LC	B09 and B11 (common stack)	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	2.26E-01	10	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	Total Mass PCDD/PCDF Unit	ng/dscm @3%O2	Rank	In top 12 pct?
OHMortonSa ltRittman	B002 - Coal- Fired Boiler #2	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	2.41E-01	11	NO
PAAppletonP apers	#036	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.48E+00	12	NO
MNVersoPap er	EU006 B&W	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	1.88E+00	13	NO
VAlniversity ofVirginia	7103-1-01R	Coal	Stoker/Slope dGrate/Other	ng/dscm @ 7% O2	3.75E+00	14	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	ng/dscm @3%O2	CountOfTEQ PCDD/PCDF	Rank	In top 12 pct?
ORFlakeboardEugene	Boiler-2	Biomass	Dutch Oven/Susp. Burner	9.52E-03	3	1	YES
ORRosborospringfield	DV 01.1	Biomass	Dutch Oven/Susp. Burner	9.53E-02	3	2	NO
WAGraysHarborPaper	No. 6 Boiler (EU2)	Biomass	Dutch Oven/Susp. Burner	3.67E-01	3	3	NO
ORGeorgiaPacificWauna Mill	EU35 - Fluidized Bed Boiler	Biomass	FB	2.27E-03	3	1	YES
ALIPCourtland	No. 3 Combination Boier / 11Cu301	Biomass	FB	3.27E-03	3	2	YES
TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	Biomass	FB	5.30E-03	3	3	YES
GATempleInlandRome	WF	Biomass	FB	9.45E-03	3	4	YES
NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Biomass	FB	1.09E-02	3	5	YES
TNDomtar2384	HFB1-1	Biomass	FB	1.85E-02	3	6	NO
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Biomass	Fuel Cell	2.42E-04	3	7	NO
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Biomass	Fuel Cell	3.35E-03	3	8	NO
ORWeyerhaeuserCoWarrontonLumber Mill	3-HFB	Biomass	Fuel Cell	4.46E-03	1	9	NO
ARWeyerhaeuserDierksMill	SN-45	Biomass	Fuel Cell	8.48E-03	3	10	NO
ARAnthonyForestProducts	SN-12	Biomass	Fuel Cell	1.03E-02	3	11	NO
MTPlumCreek	Wellons Plywood	Biomass	Fuel Cell	2.32E-02	3	12	NO
IDPotlatch	PB-1 CE	Biomass	Fuel Cell	1.70E+00	3	13	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	ng/dscm @3%O2	CountOfTEQ PCDD/PCDF	Rank	In top 12 pct?
ARGBPMorri lton	SN-04	Biomass	Stoker/Slope dGrate/Other	1.52E-05	3		1 YES
MEBoralexSt ratton	Boiler #1	Biomass	Stoker/Slope dGrate/Other	1.62E-03	3		2 YES
GAGPMadis onPly	800 Wood Waste Boiler	Biomass	Stoker/Slope dGrate/Other	2.01E-03	3		3 NO
SCMarlboroP aper	Hogged Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	2.59E-03	3		4 NO
WANipponP aper	#8 Hog Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	6.06E-03	3		6 NO
ALBoiseWhit ePaperJacks on	102-0001- Z013	Biomass	Stoker/Slope dGrate/Other	9.29E-03	3		7 NO
KYNewPage- Wickliffe	B09	Biomass	Stoker/Slope dGrate/Other	1.00E-02	3		8 NO
SCInternatio nalPaperEas tover	No. 2 Power Boiler	Biomass	Stoker/Slope dGrate/Other	1.03E-02	3		9 NO
ARPotlatchF orestWarren	Wellons Boiler	Biomass	Stoker/Slope dGrate/Other	1.06E-02	3		10 NO
SCBewaterC oatedPaper	Combination Boiler No. 2	Biomass	Stoker/Slope dGrate/Other	1.44E-02	3		11 NO
WAKimberly ClarkEverett	No. 14 Cogeneration Boiler	Biomass	Stoker/Slope dGrate/Other	2.06E-02	3		12 NO
MTSmurfitSt one	Multi-Fuel Boiler	Biomass	Stoker/Slope dGrate/Other	2.12E-02	3		13 NO
MESDWarre nSomerset	No2 Power Boiler	Biomass	Stoker/Slope dGrate/Other	2.59E-02	3		14 NO
GAGPCellulo seBrunswick	U700 -- No. 4 Power Boiler	Biomass	Stoker/Slope dGrate/Other	2.59E-02	3		15 NO
ALMeadwest vacoCottono n46	No.1 Wood Residue Boiler	Biomass	Stoker/Slope dGrate/Other	3.08E-02	3		16 NO
PAProctorGa mbleMehoop anyPA	Boiler #3 (033A)	Biomass	Stoker/Slope dGrate/Other	3.44E-02	3		17 NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	ng/dscm @3%O2	CountOfTEQ PCDD/PCDF	Rank	In top 12 pct?
SCSonocoH artsville	Boiler Number 9	Coal	FB	9.05E-06	3	1	YES
INPurdueUni versity	Boiler 5	Coal	FB	9.33E-04	3	2	YES
IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Coal	FB	1.10E-03	3	3	NO
IAArchersDa nielsMidland DesMoines	Asea Boiler #1	Coal	FB	3.13E-03	3	4	NO
IAUoflowa	EP7 Boiler 11	Coal	FB	3.56E-03	3	5	NO
MENewPage- Rumford	Cogen#6 & #7	Coal	FB	6.04E-03	3	6	NO
GASPNewsp rint	PB2	Coal	FB	7.36E-03	3	7	NO
ILPolyOne	B1	Coal	FB	7.37E-03	3	8	NO
PAPHGlatfelt er	PB5	Coal	FB	9.38E-03	3	9	NO
IAADMCorn ProcessingC R	EU-501B	Coal	FB	1.30E-02	3	10	NO
ILBungeDan ville	CFB Boiler	Coal	FB	1.57E-02	3	11	NO
NCUNCCoge n	ES-001	Coal	FB	3.42E-02	3	12	NO
GAGPCedar Springs	U500 - Power Boiler No 1	Coal	PC	1.04E-03	3	1	YES
WVPPGMart insville	R011-Boiler 3	Coal	PC	2.12E-03	3	2	YES
NCMillerCoor s	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Coal	PC	2.43E-03	3	3	NO
VASmurfitSt oneWestpt	PB08	Coal	PC	3.25E-03	3	4	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	ng/dscm @3%O2	CountOfTEQ PCDD/PCDF	Rank	In top 12 pct?
INTateLyleS agamore	31B1	Coal	PC	5.42E-03	3	5	NO
TNEastman_ NO_CBIDAT A	Boiler 30	Coal	PC	6.55E-03	3	6	NO
IAUofNorther nIowa	Boiler #3	Coal	PC	2.02E-02	3	7	NO
SCCogenSo uth	B001 - Main Boiler	Coal	PC	2.73E-02	3	8	NO
MITBSimonP owerPlant	Unit 1	Coal	PC	4.59E-02	3	9	NO
VAINVISTA Waynesboro	2-205 (B#2) Boiler #2	Coal	PC	1.21E-01	3	10	NO
WINewPage Biron	B24	Coal	Stoker/Slope dGrate/Other	1.52E-03	3	1	YES
ILAbbottAbb ottPark	Unit 5AP	Coal	Stoker/Slope dGrate/Other	2.13E-03	3	2	YES
NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Coal	Stoker/Slope dGrate/Other	2.75E-03	3	3	NO
KYISPCChemi cals	0AA (Riley)	Coal	Stoker/Slope dGrate/Other	2.85E-03	3	4	NO
WVATKRock etCenter	NB2766 W- 17479-W (Boiler 17)	Coal	Stoker/Slope dGrate/Other	2.87E-03	3	5	NO
TNCargillMe mphis	Stoker Boiler 8001	Coal	Stoker/Slope dGrate/Other	3.45E-03	3	6	NO
NCBlueRidg ePaper	G11042	Coal	Stoker/Slope dGrate/Other	3.68E-03	3	7	NO
IAMonsanto Muscatine	Boiler #8 (EP- 195)	Coal	Stoker/Slope dGrate/Other	4.11E-03	3	8	NO
OHMortonSa ltRittman	B002 - Coal- Fired Boiler #2	Coal	Stoker/Slope dGrate/Other	4.94E-03	3	9	NO
INNotreDam e	B-4	Coal	Stoker/Slope dGrate/Other	7.18E-03	3	10	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID _common	MACT Floor FuelCat	Combustor Design	ng/dscm @3%O2	CountOfTEQ PCDD/PCDF	Rank In top 12 pct?
WIThilmayL LC	B09 and B11 (common stack)	Coal	Stoker/Slope dGrate/Other	8.68E-03	3	11 NO
PAAppletonP apers	#036	Coal	Stoker/Slope dGrate/Other	2.00E-02	3	12 NO
VAUniversity ofVirginia	7103-1-01R	Coal	Stoker/Slope dGrate/Other	3.55E-02	3	13 NO
MNVersoPap er	EU006 B&W	Coal	Stoker/Slope dGrate/Other	1.10E-01	3	14 NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
MSWeyerhaeuserColumbus	AA-012	CO	Biomass	Stoker/SlopedGrate/Other	1.84E+02	29	NO
MSIPVicksburg	Power Boiler-AA-006	CO	Biomass	Stoker/SlopedGrate/Other	1.97E+02	30	NO
ARDelticTimberWaldo	Wood Fired Boiler No. 1 (SN-13)	CO	Biomass	Stoker/SlopedGrate/Other	1.99E+02	31	NO
MNDESPHansONyman	EU007	CO	Biomass	Stoker/SlopedGrate/Other	2.04E+02	32	NO
WIAlgora	B03	CO	Biomass	Stoker/SlopedGrate/Other	2.07E+02	33	NO
GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.17E+02	34	NO
GAADMLocation551	B115A-North Hurst	CO	Biomass	Stoker/SlopedGrate/Other	2.28E+02	35	NO
SCInternationalPaperEastover	No. 2 Power Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.32E+02	36	NO
TXAnthonyForestProd-ATL	EP 11.1 Hurst	CO	Biomass	Stoker/SlopedGrate/Other	2.33E+02	37	NO
ARLeolaLumberMill	SN-01A	CO	Biomass	Stoker/SlopedGrate/Other	2.38E+02	38	NO
SCMarlboroPaper	Hogged Fuel Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.49E+02	39	NO
ALBoiseWhitePaperJackson	102-0001-Z013	CO	Biomass	Stoker/SlopedGrate/Other	2.49E+02	40	NO
ALMeadwestvacCottonton46	No.2 Wood Residue Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.60E+02	41	NO
ARDelticTimberWaldo	Wood Fired Boiler No. 2 (SN-14)	CO	Biomass	Stoker/SlopedGrate/Other	2.67E+02	42	NO
GARayonierBaxley	PB02	CO	Biomass	Stoker/SlopedGrate/Other	2.68E+02	43	NO
GAADMLocation551	B115B-South Hurst	CO	Biomass	Stoker/SlopedGrate/Other	2.70E+02	44	NO
OHSmurfitCochocton	B006	CO	Biomass	Stoker/SlopedGrate/Other	2.73E+02	45	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
ARPotlatchForestWarren	Wellons Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.86E+02	46	NO
ARGBPMorriton	SN-04	CO	Biomass	Stoker/SlopedGrate/Other	2.95E+02	47	NO
WAGPCamas	No. 3 Power Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.96E+02	48	NO
ORJeldWenKlamanthFalls	BLRG	CO	Biomass	Stoker/SlopedGrate/Other	2.97E+02	49	NO
TXAnthonyForestProd-ATL	EP 10.1 Superior	CO	Biomass	Stoker/SlopedGrate/Other	3.00E+02	50	NO
FLGPPalatka	EU16	CO	Biomass	Stoker/SlopedGrate/Other	3.01E+02	51	NO
WIFlambeauRiverPaper	B24	CO	Biomass	Stoker/SlopedGrate/Other	3.07E+02	52	NO
ARGPGurdonPlyLumber	SN-01 No. 1 Wood Residue Fired Boiler	CO	Biomass	Stoker/SlopedGrate/Other	3.21E+02	53	NO
ARGPGurdonPlyLumber	SN-02 No. 2 Wood Residue Fired Boiler	CO	Biomass	Stoker/SlopedGrate/Other	3.39E+02	54	NO
LAGPLogansportPly	EQT-0009	CO	Biomass	Stoker/SlopedGrate/Other	3.43E+02	55	NO
GARayonierJesupMill	PB03	CO	Biomass	Stoker/SlopedGrate/Other	3.48E+02	56	NO
FLCFRC252	Boiler #3 (McBurney)	CO	Biomass	Stoker/SlopedGrate/Other	3.64E+02	57	NO
LAWeyerhaeuser1043	EQT - 0010	CO	Biomass	Stoker/SlopedGrate/Other	3.76E+02	58	NO
GAP&GAlbany	B002	CO	Biomass	Stoker/SlopedGrate/Other	3.84E+02	59	NO
TXGPClevelandandPlyLumber	GRP-SBOIL	CO	Biomass	Stoker/SlopedGrate/Other	3.87E+02	60	NO
FLSmurfit-Stone	5PB	CO	Biomass	Stoker/SlopedGrate/Other	3.88E+02	61	NO
ARLeolaLumberMill	SN-01B	CO	Biomass	Stoker/SlopedGrate/Other	3.92E+02	62	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
MSBowaterSouth	Bark Boiler	CO	Biomass	Stoker/SlopedGrate/Other	4.13E+02	63	NO
ALWestervelt	Wellons - Unit 001	CO	Biomass	Stoker/SlopedGrate/Other	4.33E+02	64	NO
LAWeyerhaeuserDodson	ES-017 WFB	CO	Biomass	Stoker/SlopedGrate/Other	4.33E+02	65	NO
MEBoralexStratton	Boiler #1	CO	Biomass	Stoker/SlopedGrate/Other	4.36E+02	66	NO
IDPotlatch	PB-2 Riley	CO	Biomass	Stoker/SlopedGrate/Other	4.55E+02	67	NO
ARWestFraserHuttig	SN-01	CO	Biomass	Stoker/SlopedGrate/Other	4.75E+02	68	NO
MSSandersonPlumbing	AD-001	CO	Biomass	Stoker/SlopedGrate/Other	4.76E+02	69	NO
WANipponPaper	#8 Hog Fuel Boiler	CO	Biomass	Stoker/SlopedGrate/Other	4.98E+02	70	NO
AREvergreenPackaging	BB	CO	Biomass	Stoker/SlopedGrate/Other	5.03E+02	71	NO
WIAshland	B20	CO	Biomass	Stoker/SlopedGrate/Other	5.11E+02	72	NO
MSGPBaySprings	AA-001 (Boiler No. 1)	CO	Biomass	Stoker/SlopedGrate/Other	5.46E+02	73	NO
OKPanPacificProducts	EU 100	CO	Biomass	Stoker/SlopedGrate/Other	5.57E+02	74	NO
TXwestfraser	Boiler-1	CO	Biomass	Stoker/SlopedGrate/Other	5.70E+02	75	NO
LAHuntPollock	EQT0005	CO	Biomass	Stoker/SlopedGrate/Other	5.85E+02	76	NO
MSGPBaySprings	AA-003 (Boiler No. 2)	CO	Biomass	Stoker/SlopedGrate/Other	5.86E+02	77	NO
ARDelticTimberOla	Wood Fired Boiler at Ola Mill (SN-13)	CO	Biomass	Stoker/SlopedGrate/Other	6.20E+02	79	NO
WILPHayward	K2 Line 1 Konus	CO	Biomass	Stoker/SlopedGrate/Other	7.43E+02	80	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
TXMeadWes tvacoEvadal e	21-2105	CO	Biomass	Stoker/Slope dGrate/Other	7.48E+02	81	NO
ARWeyerhae userDierksMi ll	SN-32	CO	Biomass	Stoker/Slope dGrate/Other	8.21E+02	82	NO
MEVersoPap erAndroscog gin	WFI	CO	Biomass	Stoker/Slope dGrate/Other	8.54E+02	83	NO
ALGPEngine eredWoodPr oductsThorn sby	EU 001 Wood Fired Boiler	CO	Biomass	Stoker/Slope dGrate/Other	8.75E+02	84	NO
ARGBPMorri lton	SN-02	CO	Biomass	Stoker/Slope dGrate/Other	1.07E+03	85	NO
TXTempleInl andFiberboar d	FB-25	CO	Biomass	Stoker/Slope dGrate/Other	1.09E+03	86	NO
WILPHaywar d	K1 Line 1 Konus	CO	Biomass	Stoker/Slope dGrate/Other	1.20E+03	87	NO
LAHoodIndu stries	EQT001 (wood-fired boiler No. 1)	CO	Biomass	Stoker/Slope dGrate/Other	1.21E+03	88	NO
LAGPPortHu dson	EQT0099 - Combination Boiler No. 1	CO	Biomass	Stoker/Slope dGrate/Other	1.26E+03	89	NO
IDRileyCreek Lumber	HFB2	CO	Biomass	Stoker/Slope dGrate/Other	1.31E+03	90	NO
ALManningto nWoodFloors	BB01	CO	Biomass	Stoker/Slope dGrate/Other	1.31E+03	91	NO
ALManningto nWoodFloors	BB02	CO	Biomass	Stoker/Slope dGrate/Other	1.31E+03	92	NO
LABoiseCas cadeOakdale	B-1	CO	Biomass	Stoker/Slope dGrate/Other	1.45E+03	93	NO
LAHuntNatal bany	EQT0001	CO	Biomass	Stoker/Slope dGrate/Other	1.57E+03	94	NO
LAWestFras erJoyce	74A	CO	Biomass	Stoker/Slope dGrate/Other	1.61E+03	95	NO
NCDomtar	64-25-0290 (No. 1 Hog Fuel Boiler)	CO	Biomass	Stoker/Slope dGrate/Other	1.63E+03	96	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
WILPHayward	K4 Line 2 Konus	CO	Biomass	Stoker/Sloped Grate/Other	1.65E+03	97	NO
LAWestFras erJoyce	75A	CO	Biomass	Stoker/Sloped Grate/Other	1.74E+03	98	NO
IDMoyieSprin gs Lumber420	HFB1	CO	Biomass	Stoker/Sloped Grate/Other	1.88E+03	99	NO
MSWeyerha euserBruce	AA-001 No. 1 Boiler	CO	Biomass	Stoker/Sloped Grate/Other	1.95E+03	100	NO
LAHoodIndu stries	EQT002 (wood-fired boiler No. 2)	CO	Biomass	Stoker/Sloped Grate/Other	2.33E+03	101	NO
LAWestFras erJoyce	74B	CO	Biomass	Stoker/Sloped Grate/Other	2.33E+03	102	NO
WILPHayward	K3 Line 2 Konus	CO	Biomass	Stoker/Sloped Grate/Other	2.35E+03	103	NO
PACraftMast er	No2 Boiler Source ID 032	CO	Biomass	Stoker/Sloped Grate/Other	2.40E+03	104	NO
GAGPMadis onPly	800 Wood Waste Boiler	CO	Biomass	Stoker/Sloped Grate/Other	2.48E+03	105	NO
ALMeadwest vacoCottonto n46	No.1 Wood Residue Boiler	CO	Biomass	Stoker/Sloped Grate/Other	2.73E+03	106	NO
SCBewaterC oatedPaper	Combination Boiler No. 2	CO	Biomass	Stoker/Sloped Grate/Other	2.82E+03	107	NO
MSWeyerha euser1398	Boiler No. 1	CO	Biomass	Stoker/Sloped Grate/Other	2.89E+03	108	NO
HIPuuneneS ugarMill	Boiler 3	CO	Biomass	Stoker/Sloped Grate/Other	3.07E+03	109	NO
GAPCAVald osta	1005	CO	Biomass	Stoker/Sloped Grate/Other	3.42E+03	110	NO
GAPCAVald osta	1006	CO	Biomass	Stoker/Sloped Grate/Other	3.42E+03	111	NO
LAHuntPollo ck	EQT0017	CO	Biomass	Stoker/Sloped Grate/Other	3.57E+03	112	NO
HIPuuneneS ugarMill	Boiler 1	CO	Biomass	Stoker/Sloped Grate/Other	3.75E+03	113	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
HIPuuneneS ugarMill	Boiler 2	CO	Biomass	Stoker/Slope dGrate/Other	3.75E+03	114	NO
ORBBSMMe dford	B1	CO	Biomass	Stoker/Slope dGrate/Other	3.85E+03	115	NO
ORBBSMMe dford	B2	CO	Biomass	Stoker/Slope dGrate/Other	3.85E+03	116	NO
ORBBSMMe dford	B3	CO	Biomass	Stoker/Slope dGrate/Other	3.85E+03	117	NO
WABoiseKett leFallsPlywo od	B1	CO	Biomass	Stoker/Slope dGrate/Other	5.48E+03	118	NO
GAWestFras erFolkston	FOB1	CO	Biomass	Stoker/Slope dGrate/Other	9.46E+03	119	NO
GAWestFras erFolkston	FOB2	CO	Biomass	Stoker/Slope dGrate/Other	1.33E+04	120	NO
IAADMCorn ProcessingC R	EU-530	CO	Coal	FB	8.26E+00	1	YES
MENewPage- Rumford	Cogen#6	CO	Coal	FB	1.46E+01	2	YES
MENewPage- Rumford	Cogen#7	CO	Coal	FB	1.46E+01	3	YES
IAADMCorn ProcessingC R	EU-501B	CO	Coal	FB	1.84E+01	4	NO
IAADMCorn ProcessingC R	EU-502A	CO	Coal	FB	2.16E+01	5	NO
PAPHGlatfelt er	PB5	CO	Coal	FB	2.32E+01	6	NO
IAADMCorn ProcessingC R	EU-501A	CO	Coal	FB	3.00E+01	7	NO
INPurdueUni versity	Boiler 5	CO	Coal	FB	3.05E+01	8	NO
ILPolyOne	B1	CO	Coal	FB	3.86E+01	9	NO
NCUNCCoge n	ES-001	CO	Coal	FB	4.11E+01	10	NO
NEADMLinc oln	EU26 Coal Boiler	CO	Coal	FB	4.31E+01	11	NO
ILBungeDan ville	CFB Boiler	CO	Coal	FB	4.90E+01	12	NO
IAADMCorn ProcessingC R	EU-502B	CO	Coal	FB	5.01E+01	13	NO
IAUoflowa	EP7 Boiler 11	CO	Coal	FB	5.07E+01	14	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
IAArchersDa nielsMidland DesMoines	Asea Boiler #1	CO	Coal	FB	5.52E+01	15	NO
GASPNewsp rint	PB2	CO	Coal	FB	1.18E+02	16	NO
SCSonocoH artsville	Boiler Number 9	CO	Coal	FB	1.68E+02	17	NO
ILDukeEnerg yTuscola	Unit 3	CO	Coal	PC	5.53E-02	1	YES
ILDukeEnerg yTuscola	Unit 4	CO	Coal	PC	5.53E-02	2	YES
ILDukeEnerg yTuscola	Unit 1	CO	Coal	PC	5.71E-02	3	YES
VAPhilipMorr isPark500	B2	CO	Coal	PC	1.36E+00	4	YES
AZCatalystP aperSnowfla ke	Power Boiler #2 Coal	CO	Coal	PC	2.23E+00	5	YES
OKGPMusko geeMill	B-3	CO	Coal	PC	3.20E+00	6	NO
ILPrairiePow erPearl	B1	CO	Coal	PC	6.84E+00	7	NO
INTateLyleS agamore	31B1	CO	Coal	PC	6.85E+00	8	NO
VAPhilipMorr isPark500	B3	CO	Coal	PC	8.82E+00	9	NO
IAUofNorther nIowa	Boiler #3	CO	Coal	PC	1.03E+01	10	NO
TNDuPontOI dHickoryPlan t	#20 Boiler	CO	Coal	PC	1.08E+01	11	NO
INNNewEnerg y	Riley Boiler	CO	Coal	PC	1.21E+01	12	NO
INNNewEnerg y	Riley Boiler	CO	Coal	PC	1.24E+01	13	NO
NCBlueRidg ePaper	G11040	CO	Coal	PC	1.35E+01	14	NO
OKGPMusko geeMill	B-4	CO	Coal	PC	1.40E+01	15	NO
INAlcoaWarri ck	Unit #3	CO	Coal	PC	1.41E+01	16	NO
FLSmurfit- Stone	7PB	CO	Coal	PC	1.53E+01	17	NO
NCBlueRidg ePaper	G11039	CO	Coal	PC	1.53E+01	18	NO
NCBlueRidg ePaper	G11038	CO	Coal	PC	1.58E+01	19	NO
SCCogenSo uth	B001 - Main Boiler	CO	Coal	PC	1.61E+01	20	NO
VASmurfitSt oneWestpt	PB08	CO	Coal	PC	1.65E+01	21	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
TNEastman_ NO_CBIDAT A	Boiler 30	CO	Coal	PC	1.78E+01	22	NO
NCMillerCoor s	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	CO	Coal	PC	1.80E+01	23	NO
IDTASCOPa ul	Erie City Boiler	CO	Coal	PC	1.93E+01	24	NO
VAPhilipMorr isMC	PC	CO	Coal	PC	2.01E+01	25	NO
WYFMCGre enRiver	NS-1A	CO	Coal	PC	2.14E+01	26	NO
SCInternatio nalPaperEas tover	No. 1 Power Boiler	CO	Coal	PC	2.57E+01	27	NO
OKGPMusko geeMill	B-2	CO	Coal	PC	2.65E+01	28	NO
WYGeneralC hemical	GR-2-L (C BOILER)	CO	Coal	PC	3.03E+01	29	NO
VAGPBiglsla nd2703	PWR04 - No. 4 Power Boiler	CO	Coal	PC	3.36E+01	30	NO
VAINVISTA Waynesboro	2-205 (B#2) Boiler #2	CO	Coal	PC	4.13E+01	31	NO
INAlcoaWarri ck	Unit #2	CO	Coal	PC	4.30E+01	32	NO
PADomtarJo hnsenburg	#81 Coal Boiler	CO	Coal	PC	6.83E+01	33	NO
PADomtarJo hnsenburg	#82 Coal Boiler	CO	Coal	PC	6.83E+01	34	NO
NCBlueRidg ePaper	G11037	CO	Coal	PC	7.52E+01	35	NO
MITBSimonP owerPlant	Unit 1	CO	Coal	PC	7.87E+01	36	NO
MOAnheuser Busch	Boiler 5	CO	Coal	PC	1.09E+02	37	NO
WVPPGMart insville	R011-Boiler 3	CO	Coal	PC	1.30E+02	38	NO
MDNewPage- Luke	No. 25	CO	Coal	PC	1.31E+02	39	NO
MOAnheuser Busch	Boiler 1	CO	Coal	PC	1.39E+02	40	NO
ALIPCourtlan d	No.2 Combination Boiler / 11CU201	CO	Coal	PC	1.70E+02	41	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_ Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
INNotreDame	B-4	CO	Coal	Stoker/SlopedGrate/Other	4.29E+00	1	YES
OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	CO	Coal	Stoker/SlopedGrate/Other	1.47E+01	2	YES
WVDuPontWashingtonWorks	P05	CO	Coal	Stoker/SlopedGrate/Other	1.63E+01	3	YES
OHAppletonIdeas	Boiler 4 (B003)	CO	Coal	Stoker/SlopedGrate/Other	1.97E+01	4	YES
OHAKronThermalEnergy	Boiler #32 (B001)	CO	Coal	Stoker/SlopedGrate/Other	2.47E+01	5	YES
PABellefield Plant	Boiler 1	CO	Coal	Stoker/SlopedGrate/Other	2.55E+01	6	YES
NCNC_Duke University_Durham	7754-03	CO	Coal	Stoker/SlopedGrate/Other	2.76E+01	7	YES
HIPuuneneSugarMill	Boiler 3	CO	Coal	Stoker/SlopedGrate/Other	3.81E+01	8	YES
PABellefield Plant	Boiler 5	CO	Coal	Stoker/SlopedGrate/Other	3.82E+01	9	NO
IAMuscatine PowerandWater	Unit 7	CO	Coal	Stoker/SlopedGrate/Other	4.24E+01	10	NO
VAUniversity ofVirginia	7103-1-01R	CO	Coal	Stoker/SlopedGrate/Other	4.40E+01	11	NO
OHAppletonIdeas	Boiler 2 (B002)	CO	Coal	Stoker/SlopedGrate/Other	4.56E+01	12	NO
PABayValley FoodsPittsburgh	Boiler No. 3	CO	Coal	Stoker/SlopedGrate/Other	5.18E+01	13	NO
PABayValley FoodsPittsburgh	Boiler No. 4	CO	Coal	Stoker/SlopedGrate/Other	5.18E+01	14	NO
KYISPChemicals	0AA (Riley)	CO	Coal	Stoker/SlopedGrate/Other	5.21E+01	15	NO
ILAbbottAbbottPark	Unit 5AP	CO	Coal	Stoker/SlopedGrate/Other	5.42E+01	16	NO
NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	CO	Coal	Stoker/SlopedGrate/Other	5.59E+01	17	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
MNVersoPaper	EU006 B&W	CO	Coal	Stoker/SlopedGrate/Other	5.97E+01	18	NO
WIThilmaynLC	B09	CO	Coal	Stoker/SlopedGrate/Other	6.45E+01	19	NO
WIThilmaynLC	B11	CO	Coal	Stoker/SlopedGrate/Other	6.45E+01	20	NO
IAMonsantoMuscatine	Boiler #8 (EP-195)	CO	Coal	Stoker/SlopedGrate/Other	6.49E+01	21	NO
MOColumbiaPowerPlant	Boiler Unit 6	CO	Coal	Stoker/SlopedGrate/Other	6.51E+01	22	NO
MOColumbiaPowerPlant	Boiler Unit 7	CO	Coal	Stoker/SlopedGrate/Other	6.51E+01	23	NO
NCNC_DukeUniversity_Durham	7754-02	CO	Coal	Stoker/SlopedGrate/Other	6.85E+01	24	NO
NCEPCORRoxboro	1-B	CO	Coal	Stoker/SlopedGrate/Other	6.92E+01	25	NO
NCEPCORRoxboro	1-A	CO	Coal	Stoker/SlopedGrate/Other	6.92E+01	26	NO
NCEPCORRoxboro	1-C	CO	Coal	Stoker/SlopedGrate/Other	6.92E+01	27	NO
VAUniversityofVirginia	7103-1-02R	CO	Coal	Stoker/SlopedGrate/Other	7.29E+01	28	NO
PABellefieldPlant	Boiler 3	CO	Coal	Stoker/SlopedGrate/Other	7.65E+01	29	NO
IAUofIowa	EP6 Boiler 10	CO	Coal	Stoker/SlopedGrate/Other	8.96E+01	30	NO
WVATKRocketCenter	NB2766 W-17479-W (Boiler 17)	CO	Coal	Stoker/SlopedGrate/Other	8.99E+01	31	NO
SCClemson	04-B04	CO	Coal	Stoker/SlopedGrate/Other	9.57E+01	32	NO
MSWeyerhaeuserColumbus	AA-012	CO	Coal	Stoker/SlopedGrate/Other	9.62E+01	33	NO
OHBataviaTransmissions	Boiler 2 (B002)	CO	Coal	Stoker/SlopedGrate/Other	1.04E+02	34	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_Na me	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
WIFlambeau RiverPaper	B24	CO	Coal	Stoker/Slope dGrate/Other	1.04E+02	35	NO
NDMinnDakF armers	Babcock and Wilcox Boiler #5	CO	Coal	Stoker/Slope dGrate/Other	1.07E+02	36	NO
NCEPCORS outhport	1-A Boiler	CO	Coal	Stoker/Slope dGrate/Other	1.40E+02	37	NO
NCEPCORS outhport	1-B Boiler	CO	Coal	Stoker/Slope dGrate/Other	1.40E+02	38	NO
NCEPCORS outhport	1-C Boiler	CO	Coal	Stoker/Slope dGrate/Other	1.40E+02	39	NO
PABayValley FoodsPittsbu rgh	Boiler No. 1	CO	Coal	Stoker/Slope dGrate/Other	1.44E+02	40	NO
PABayValley FoodsPittsbu rgh	Boiler No. 2	CO	Coal	Stoker/Slope dGrate/Other	1.44E+02	41	NO
VAUniversity ofVirginia	7103-1-05	CO	Coal	Stoker/Slope dGrate/Other	1.53E+02	42	NO
WYFMCGra nger	UIN-14	CO	Coal	Stoker/Slope dGrate/Other	1.60E+02	43	NO
WIThilmany PapersNicole tMill	B23	CO	Coal	Stoker/Slope dGrate/Other	2.12E+02	44	NO
WIThilmany PapersNicole tMill	B24	CO	Coal	Stoker/Slope dGrate/Other	2.12E+02	45	NO
WYFMCGra nger	UIN-15	CO	Coal	Stoker/Slope dGrate/Other	2.36E+02	46	NO
MNADMCorn Division	Coal Boiler #1 EU049	CO	Coal	Stoker/Slope dGrate/Other	2.53E+02	47	NO
MNADMCorn Division	Coal Boiler #2 EU050	CO	Coal	Stoker/Slope dGrate/Other	2.53E+02	48	NO
MDNewPage- Luke	No. 24	CO	Coal	Stoker/Slope dGrate/Other	2.91E+02	49	NO
OHCampbell sSoupCo	B001	CO	Coal	Stoker/Slope dGrate/Other	3.79E+02	50	NO
OHCampbell sSoupCo	B002	CO	Coal	Stoker/Slope dGrate/Other	3.79E+02	51	NO

APPENDIX C-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design

Table 9: CO Floor by Combustor

FacilityID	CombustorID _common	Pollutant_Name	MACT Floor FuelCat	Combustor Design	ppm @ 3% O2	Rank	In top 12 pct?
TNCargillM emphis	Stoker Boiler 8001	CO	Coal	Stoker/Slope dGrate/Other	5.54E+02	52	NO
IDTASCOPa ul	Babcock and Wilcox (B&W) Boiler	CO	Coal	Stoker/Slope dGrate/Other	5.77E+02	53	NO
NCBlueRidg ePaper	G11042	CO	Coal	Stoker/Slope dGrate/Other	6.67E+02	54	NO
MNBlandinP aperEnergyC tr	#5 Boiler	CO	Coal	Stoker/Slope dGrate/Other	8.37E+02	55	NO
MNBlandinP aperEnergyC tr	#6 Boiler	CO	Coal	Stoker/Slope dGrate/Other	8.37E+02	56	NO
PAAppletonP apers	#036	CO	Coal	Stoker/Slope dGrate/Other	1.07E+03	57	NO
MIMortonSalt Manistee	No. 6 Boiler	CO	Coal	Stoker/Slope dGrate/Other	1.29E+03	58	NO
IACargillEdd yville	1.001	CO	Coal	Stoker/Slope dGrate/Other	4.37E+03	59	NO
IACargillEdd yville	1.002	CO	Coal	Stoker/Slope dGrate/Other	4.37E+03	60	NO
IACargillEdd yville	1.039	CO	Coal	Stoker/Slope dGrate/Other	4.37E+03	61	NO

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID common	Pollutant Name	TestID	TestDate common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/5/2009		2.00E-04	-8.52E+00	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	87.56	-	0.32	-	12.13	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/5/2009		2.00E-04	-8.52E+00	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	87.56	-	0.32	-	12.13	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	11/13/2007		5.00E-03	-5.30E+00	/Natural gas/No. 6 Residual oil/Wood: Bark/	-	-	79.04	-	16.02	-	4.95	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/6/2009		9.00E-04	-7.01E+00	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	87.56	-	0.32	-	12.13	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/6/2009		9.00E-04	-7.01E+00	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	87.56	-	0.32	-	12.13	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	11/13/2007		4.10E-03	-5.50E+00	/Natural gas/No. 6 Residual oil/Wood: Bark/	-	-	79.04	-	16.02	-	4.95	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/6/2009		5.00E-04	-7.60E+00	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	87.56	-	0.32	-	12.13	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/6/2009		5.00E-04	-7.60E+00	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	87.56	-	0.32	-	12.13	-	-	-
YES	Biomass		1	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	11/13/2007		7.10E-03	-4.95E+00	/Natural gas/No. 6 Residual oil/Wood: Bark/	-	-	79.04	-	16.02	-	4.95	-	-	-
YES	Biomass		2	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Particulate Matter (PM) filterable	1	7/19/2009		4.26E-04	-7.76E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass		2	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Particulate Matter (PM) filterable	2	7/19/2009		8.72E-04	-7.05E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass		2	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Particulate Matter (PM) filterable	3	7/20/2009		4.42E-04	-7.72E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass		2	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Particulate Matter (PM) filterable	Sample #1	3/22/2006		6.29E-03	-5.07E+00	/Hog Fuel/Industrial Sludge/Natural gas/	-	-	-	72.52	23.40	-	4.08	-	-	-
YES	Biomass		2	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Particulate Matter (PM) filterable	Sample #2	3/22/2006		8.21E-03	-4.80E+00	/Hog Fuel/Industrial Sludge/Natural gas/	-	-	-	72.52	23.40	-	4.08	-	-	-
YES	Biomass		2	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	Particulate Matter (PM) filterable	Sample #3	3/22/2006		6.81E-03	-4.99E+00	/Hog Fuel/Industrial Sludge/Natural gas/	-	-	-	72.52	23.40	-	4.08	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #1	4/23/2008		6.00E-04	-7.42E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #1	4/22/2008		2.00E-03	-6.21E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #1	8/8/2008		7.00E-03	-4.96E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	90.50	-	-	9.50	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #2	4/22/2008		1.00E-03	-6.91E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #2	4/23/2008		8.00E-04	-7.13E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #2	8/8/2008		9.00E-03	-4.71E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	90.50	-	-	9.50	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #3	8/8/2008		1.30E-02	-4.34E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	90.50	-	-	9.50	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #3	4/23/2008		4.00E-04	-7.82E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass		3	MNAndersonCorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #3	4/22/2008		2.00E-03	-6.21E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #1	8/8/2008		7.00E-03	-4.96E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	90.50	-	-	9.50	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #1	4/22/2008		2.00E-03	-6.21E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #1	4/23/2008		6.00E-04	-7.42E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #2	4/22/2008		1.00E-03	-6.91E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #2	8/8/2008		9.00E-03	-4.71E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	90.50	-	-	9.50	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #2	4/23/2008		8.00E-04	-7.13E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #3	4/22/2008		2.00E-03	-6.21E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #3	8/8/2008		1.30E-02	-4.34E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	90.50	-	-	9.50	-	-	-
YES	Biomass		4	MNAndersonCorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #3	4/23/2008		4.00E-04	-7.82E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #1	8/11/2009	ND	1.50E-03	-6.50E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #1	11/10/2004		7.00E-04	-7.26E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #1	9/18/1996		2.00E-03	-6.21E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #2	9/18/1996		2.00E-03	-6.21E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #2	8/11/2009		1.80E-03	-6.32E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #2	11/10/2004		7.00E-04	-7.26E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #3	8/12/2009	ND	6.00E-04	-7.42E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #3	11/10/2004		5.00E-04	-7.60E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		5	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #3	9/18/1996		2.00E-03	-6.21E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_ Name	TestID	TestDate_ common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass		6	ORFlakeboardEugene	Boiler-2	Particulate Matter (PM) filterable	Sample #1	8/26/2009		1.10E-03	-6.81E+00	Natural gas/Wood: Unadulterated Lumber										
YES	Biomass		6	ORFlakeboardEugene	Boiler-2	Particulate Matter (PM) filterable	Sample #2	8/27/2009		8.90E-04	-7.02E+00	Natural gas/Wood: Unadulterated Lumber										
YES	Biomass		6	ORFlakeboardEugene	Boiler-2	Particulate Matter (PM) filterable	Sample #3	8/27/2009		2.80E-04	-8.18E+00	Natural gas/Wood: Unadulterated Lumber										
YES	Biomass		7	ARPotlatchForestWarren	Wellons Boiler	Particulate Matter (PM) filterable	1	9/9/2009		4.80E-03	-5.34E+00	Hog Fuel										
YES	Biomass		7	ARPotlatchForestWarren	Wellons Boiler	Particulate Matter (PM) filterable	2	9/9/2009		3.30E-03	-5.71E+00	Hog Fuel										
YES	Biomass		7	ARPotlatchForestWarren	Wellons Boiler	Particulate Matter (PM) filterable	3	9/10/2009		3.55E-02	-3.34E+00	Hog Fuel										
YES	Biomass		7	ARPotlatchForestWarren	Wellons Boiler	Particulate Matter (PM) filterable	Sample #1	8/8/2006		1.10E-03	-6.81E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		7	ARPotlatchForestWarren	Wellons Boiler	Particulate Matter (PM) filterable	Sample #2	8/8/2006		7.00E-04	-7.26E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		7	ARPotlatchForestWarren	Wellons Boiler	Particulate Matter (PM) filterable	Sample #3	8/8/2006		6.00E-04	-7.42E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		8	GAGPMadisonPly	800 Wood Waste Boiler	Particulate Matter (PM) filterable	1	8/11/2009		2.32E-03	-6.07E+00	Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		8	GAGPMadisonPly	800 Wood Waste Boiler	Particulate Matter (PM) filterable	2	8/12/2009		2.26E-05	-1.07E+01	Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		8	GAGPMadisonPly	800 Wood Waste Boiler	Particulate Matter (PM) filterable	3	8/12/2009		1.17E-03	-6.75E+00	Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		8	GAGPMadisonPly	800 Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #1	6/19/2003		4.00E-03	-5.52E+00	/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/	-	-	82.02	17.98	-	-	-	-	-	-
YES	Biomass		8	GAGPMadisonPly	800 Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #2	6/19/2003		2.00E-03	-6.21E+00	/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/	-	-	82.02	17.98	-	-	-	-	-	-
YES	Biomass		8	GAGPMadisonPly	800 Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #3	6/19/2003		2.00E-03	-6.21E+00	/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/	-	-	82.02	17.98	-	-	-	-	-	-
YES	Biomass		9	GAGPMonticelloPlywood	EU700 - Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #1	2/21/2008		2.00E-03	-6.21E+00	/MDF Scraps/Plywood Sander Dust/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	77.40	22.60	-	-	-	-	-	-
YES	Biomass		9	GAGPMonticelloPlywood	EU700 - Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #1	2/7/2007		5.00E-03	-5.30E+00	/MDF Scraps/Plywood Sander Dust/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	81.00	19.00	-	-	-	-	-	-
YES	Biomass		9	GAGPMonticelloPlywood	EU700 - Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #2	2/21/2008		1.00E-03	-6.91E+00	/MDF Scraps/Plywood Sander Dust/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	77.40	22.60	-	-	-	-	-	-
YES	Biomass		9	GAGPMonticelloPlywood	EU700 - Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #2	2/7/2007		7.00E-03	-4.96E+00	/MDF Scraps/Plywood Sander Dust/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	81.00	19.00	-	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass		9	GAGPMonticelloPlywood	EU700 - Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #3	2/21/2008		1.00E-03	-6.91E+00	/MDF Scraps/Plywood Sander Dust/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	77.40	22.60	-	-	-	-	-	-
YES	Biomass		9	GAGPMonticelloPlywood	EU700 - Wood Waste Boiler	Particulate Matter (PM) filterable	Sample #3	2/7/2007		5.00E-03	-5.30E+00	/MDF Scraps/Plywood Sander Dust/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	81.00	19.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #1	7/22/2009		3.19E-03	-5.75E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #1	8/7/1997		2.43E-02	-3.72E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #1	12/5/2002		1.30E-03	-6.65E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #2	7/23/2009		3.87E-03	-5.55E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #2	8/7/1997		1.28E-02	-4.36E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #2	12/5/2002		1.50E-03	-6.50E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #3	12/5/2002		1.30E-03	-6.65E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #3	8/7/1997		9.70E-03	-4.64E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		10	ARWeyerhaeuserDierksMill	SN-45	Particulate Matter (PM) filterable	Sample #3	7/23/2009		4.17E-03	-5.48E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	9/29/2004		2.70E-03	-5.91E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	12/4/2002		5.40E-03	-5.22E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	11/9/2000		3.50E-03	-5.65E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	12/10/1999		1.60E-02	-4.14E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	12/5/2001		1.10E-02	-4.51E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	11/21/1998		5.80E-03	-5.15E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	8/11/1997		1.94E-02	-3.94E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #1	12/4/2003		2.30E-03	-6.07E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	11/9/2000		1.70E-03	-6.38E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	8/11/1997		1.47E-02	-4.22E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	11/21/1998		5.80E-03	-5.15E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	12/5/2001		6.40E-03	-5.05E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	12/10/1999		1.00E-02	-4.61E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	12/4/2002		4.80E-03	-5.34E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	12/4/2003		1.50E-03	-6.50E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #2	9/29/2004		3.60E-03	-5.63E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	11/21/1998		4.20E-03	-5.47E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	12/5/2001		2.74E-02	-3.60E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	12/4/2003		1.40E-03	-6.57E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	11/9/2000		1.80E-03	-6.32E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	12/10/1999		1.50E-02	-4.20E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	12/4/2002		4.30E-03	-5.45E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	9/29/2004		4.90E-03	-5.32E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		11	ARWeyerhaeuserDierksMill	SN-32	Particulate Matter (PM) filterable	Sample #3	8/11/1997		8.60E-03	-4.76E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		12	MSGPNewAugusta	AA-015 Power Boiler	Particulate Matter (PM) filterable	Sample #1	7/12/2006		2.80E-03	-5.88E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		12	MSGPNewAugusta	AA-015 Power Boiler	Particulate Matter (PM) filterable	Sample #2	7/12/2006		1.00E-03	-6.91E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		12	MSGPNewAugusta	AA-015 Power Boiler	Particulate Matter (PM) filterable	Sample #3	7/12/2006		1.60E-03	-6.44E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		13	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	Particulate Matter (PM) filterable	Sample #1	5/29/2008		2.09E-03	-6.17E+00	/Hog Fuel/Industrial Sludge/Paper and Paper Residues/	-	-	-	98.20	1.43	-	-	-	0.37	-
YES	Biomass		13	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	Particulate Matter (PM) filterable	Sample #1	8/19/2009		2.00E-03	-6.21E+00	Hog Fuel/Natural gas	-	-	-	-	-	-	-	-	-	-
YES	Biomass		13	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	Particulate Matter (PM) filterable	Sample #2	8/20/2009		2.10E-03	-6.17E+00	Hog Fuel/Natural gas	-	-	-	-	-	-	-	-	-	-
YES	Biomass		13	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	Particulate Matter (PM) filterable	Sample #2	5/10/2006		7.95E-03	-4.83E+00	/Hog Fuel/Industrial Sludge/Paper and Paper Residues/	-	-	-	98.20	1.43	-	-	-	0.37	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	1/10/2006		2.00E-02	-3.91E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	1/5/2007		8.00E-03	-4.83E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	6/2/2006		2.20E-03	-6.12E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	3/24/2005		4.10E-03	-5.50E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	11/30/2007		1.70E-02	-4.07E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	1/10/2006		2.40E-02	-3.73E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	8/22/2006		1.67E-02	-4.09E+00	/Wood: Unadulterated Timber/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	1/5/2007		1.10E-02	-4.51E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		16	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	3/26/2005		7.80E-03	-4.85E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		17	IDPotlatchLewiston	4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/16/2006		1.60E-03	-6.44E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.74	-	-	6.26	-	-	-
YES	Biomass		17	IDPotlatchLewiston	4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/16/2006		2.90E-03	-5.84E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.74	-	-	6.26	-	-	-
YES	Biomass		17	IDPotlatchLewiston	4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/16/2006		2.50E-03	-5.99E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.74	-	-	6.26	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #1	1/4/2007		2.00E-03	-6.21E+00	/Industrial Sludge/Natural gas/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	90.75	3.32	3.71	-	2.22	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #1	1/26/2005		1.20E-02	-4.42E+00	/Industrial Sludge/Natural gas/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	78.39	11.75	4.09	-	5.78	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #1	7/14/2009		2.50E-03	-5.99E+00	Industrial Sludge/Wood: Bark/Natural gas/Wood: Plywood, Particleboard (containing glues or resins)	-	-	95.71	4.29	-	-	-	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #2	1/4/2007		3.00E-03	-5.81E+00	/Industrial Sludge/Natural gas/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	90.75	3.32	3.71	-	2.22	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #2	1/26/2005		1.00E-02	-4.61E+00	/Industrial Sludge/Natural gas/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	78.39	11.75	4.09	-	5.78	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #2	7/14/2009		2.70E-03	-5.91E+00	Industrial Sludge/Wood: Bark/Natural gas/Wood: Plywood, Particleboard (containing glues or resins)	-	-	95.71	4.29	-	-	-	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #3	7/14/2009		2.00E-03	-6.21E+00	Industrial Sludge/Wood: Bark/Natural gas/Wood: Plywood, Particleboard (containing glues or resins)	-	-	95.71	4.29	-	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #3	1/4/2007		2.00E-03	-6.21E+00	/Industrial Sludge/Natural gas/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	90.75	3.32	3.71	-	2.22	-	-	-
YES	Biomass		18	SCMarlboroPaper	Hogged Fuel Boiler	Particulate Matter (PM) filterable	Sample #3	1/26/2005		3.00E-03	-5.81E+00	/Industrial Sludge/Natural gas/Wood: Bark/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	78.39	11.75	4.09	-	5.78	-	-	-
YES	Biomass		19	IDPotlatch	PB-1 CE	Particulate Matter (PM) filterable	Sample #1	4/30/2008		8.90E-03	-4.72E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		19	IDPotlatch	PB-1 CE	Particulate Matter (PM) filterable	Sample #1	7/28/2009		2.80E-03	-5.88E+00	Hog Fuel	-	-	-	-	-	-	-	-	-	-
YES	Biomass		19	IDPotlatch	PB-1 CE	Particulate Matter (PM) filterable	Sample #2	7/28/2009		2.10E-03	-6.17E+00	Hog Fuel	-	-	-	-	-	-	-	-	-	-
YES	Biomass		19	IDPotlatch	PB-1 CE	Particulate Matter (PM) filterable	Sample #2	4/30/2008		5.70E-03	-5.17E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		19	IDPotlatch	PB-1 CE	Particulate Matter (PM) filterable	Sample #3	7/29/2009		2.30E-03	-6.07E+00	Hog Fuel	-	-	-	-	-	-	-	-	-	-
YES	Biomass		19	IDPotlatch	PB-1 CE	Particulate Matter (PM) filterable	Sample #3	4/30/2008		3.00E-03	-5.81E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	3/19/2008		1.18E-02	-4.44E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	78.65	-	-	-	-	-	21.35	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/13/1997		1.40E-02	-4.27E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/16/1995		5.80E-03	-5.15E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	3/25/2004		7.00E-03	-4.96E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	76.48	-	-	-	-	-	23.52	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	3/15/2006		5.30E-03	-5.24E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	79.64	-	-	-	-	-	20.36	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/19/1993		7.10E-02	-2.65E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	6/5/2003		1.17E-02	-4.45E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	6/19/2001		1.65E-02	-4.10E+00	/No. 6 Residual oil/Wood: Bark/	-	-	80.39	-	19.61	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #1	6/16/1999		1.40E-03	-6.57E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	3/15/2006		3.40E-03	-5.68E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	79.64	-	-	-	-	-	20.36	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	3/19/2008		1.17E-02	-4.45E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	78.65	-	-	-	-	-	21.35	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/19/1993		3.36E-02	-3.39E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/16/1995		4.20E-03	-5.47E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	6/5/2003		6.50E-03	-5.04E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/13/1997		9.00E-03	-4.71E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	6/19/2001		7.80E-03	-4.85E+00	/No. 6 Residual oil/Wood: Bark/	-	-	80.39	-	19.61	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	6/16/1999		3.90E-03	-5.55E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #2	3/25/2004		7.00E-03	-4.96E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	76.48	-	-	-	-	-	23.52	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/13/1997		2.30E-02	-3.77E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	6/19/2001		6.90E-03	-4.98E+00	/No. 6 Residual oil/Wood: Bark/	-	-	80.39	-	19.61	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/16/1995		3.20E-03	-5.74E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	3/15/2006		4.00E-03	-5.52E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	79.64	-	-	-	-	-	20.36	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/19/1993		2.89E-02	-3.54E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	3/25/2004		1.10E-02	-4.51E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	76.48	-	-	-	-	-	23.52	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	6/16/1999		2.60E-03	-5.95E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	3/19/2008		3.90E-03	-5.55E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	78.65	-	-	-	-	-	21.35	-
YES	Biomass		20	SCInternationalPaperEastover	No. 2 Power Boiler	Particulate Matter (PM) filterable	Sample #3	6/5/2003		5.00E-03	-5.30E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		21	FLSmurfit-Stone	5PB	Particulate Matter (PM) filterable	Sample #1	7/10/2007		4.00E-03	-5.52E+00	/Biomass/No. 6 Residual oil/	-	-	-	51.85	48.15	-	-	-	-	-
YES	Biomass		21	FLSmurfit-Stone	5PB	Particulate Matter (PM) filterable	Sample #2	7/10/2007		1.00E-03	-6.91E+00	/Biomass/No. 6 Residual oil/	-	-	-	51.85	48.15	-	-	-	-	-
YES	Biomass		21	FLSmurfit-Stone	5PB	Particulate Matter (PM) filterable	Sample #3	7/10/2007		3.00E-03	-5.81E+00	/Biomass/No. 6 Residual oil/	-	-	-	51.85	48.15	-	-	-	-	-
YES	Biomass		22	MEBoralexStratton	Boiler #1	Particulate Matter (PM) filterable	Sample #1	10/21/2009		1.00E-03	-6.91E+00	Wood: Bark/Wood: Unadulterated Timber	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		22	MEBoralexStratton	Boiler #1	Particulate Matter (PM) filterable	Sample #2	10/21/2009		3.00E-03	-5.81E+00	Wood: Bark/Wood: Unadulterated Timber	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		22	MEBoralexStratton	Boiler #1	Particulate Matter (PM) filterable	Sample #3	10/21/2009		4.00E-03	-5.52E+00	Wood: Bark/Wood: Unadulterated Timber	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		23	LAGPPortHudson	EQT0109 - No. 6 CFB Boiler	Particulate Matter (PM) filterable	Sample #1	8/14/2007		3.00E-03	-5.81E+00	/Coke Oven Gas/Industrial Sludge/Wood: Bark/Wood: Unadulterated Lumber/	-	-	13.24	0.69	3.06	-	-	-	83.01	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Coal		3	IAUofNorthernIowa	Boiler #3	Particulate Matter (PM) filterable	5	10/6/2009		6.03E-04	-7.41E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		3	IAUofNorthernIowa	Boiler #3	Particulate Matter (PM) filterable	6	10/7/2009		3.73E-04	-7.89E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		4	VAAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	M027-1	9/17/2009		1.27E-03	-6.67E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		4	VAAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	M027-2	9/17/2009		4.51E-04	-7.70E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		4	VAAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	M027-3	9/18/2009		7.12E-04	-7.25E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		4	VAAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	Sample #1	12/6/2007		9.00E-04	-7.01E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		4	VAAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	Sample #2	12/6/2007		5.00E-04	-7.60E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		4	VAAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	Sample #3	12/6/2007		4.00E-04	-7.82E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		5	IAIAStateUnivPowerPlant	B2	Particulate Matter (PM) filterable	Sample #1	3/27/2008		5.05E-04	-7.59E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		5	IAIAStateUnivPowerPlant	B2	Particulate Matter (PM) filterable	Sample #2	3/27/2008		1.00E-03	-6.91E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		5	IAIAStateUnivPowerPlant	B2	Particulate Matter (PM) filterable	Sample #3	3/27/2008		3.18E-04	-8.05E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	WIGreenBayPackagingMillDivi	Boiler B26-Coal Fired Boiler	Particulate Matter (PM) filterable	Sample #1	5/16/2006		1.07E-03	-6.84E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	WIGreenBayPackagingMillDivi	Boiler B26-Coal Fired Boiler	Particulate Matter (PM) filterable	Sample #2	5/16/2006		4.00E-05	-1.01E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	WIGreenBayPackagingMillDivi	Boiler B26-Coal Fired Boiler	Particulate Matter (PM) filterable	Sample #3	5/16/2006		8.10E-04	-7.12E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	1	8/5/2009		7.14E-04	-7.24E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	2	11/6/2009		7.81E-04	-7.15E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	3	8/6/2009	DLL	6.40E-04	-7.35E+00	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	Sample #1	7/17/2007		2.10E-02	-3.86E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	Sample #2	7/17/2007		1.78E-02	-4.03E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	Sample #3	7/17/2007		1.33E-02	-4.32E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		8	PAPHGlatfelter	PB5	Particulate Matter (PM) filterable	Sample #1	7/13/2006		4.56E-03	-5.39E+00	/Coal: Bituminous/Industrial Sludge/Wood: Unadulterated Timber/	65.14	-	23.93	-	10.93	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Na me	TestID	TestDate_co mmon	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Coal		12	TNEastman_NO_CBIDATA	Boiler 27	Particulate Matter (PM) filterable	Sample #3	3/9/2005		8.00E-04	-7.13E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		12	TNEastman_NO_CBIDATA	Boiler 27	Particulate Matter (PM) filterable	Sample #3	9/25/1997		4.02E-03	-5.52E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		12	TNEastman_NO_CBIDATA	Boiler 27	Particulate Matter (PM) filterable	Sample #3	3/10/2005		2.20E-03	-6.12E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		12	TNEastman_NO_CBIDATA	Boiler 27	Particulate Matter (PM) filterable	Sample #3	8/28/2001		5.00E-03	-5.30E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	1	9/22/2009		1.28E-03	-6.66E+00	Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	1	9/22/2009		1.28E-03	-6.66E+00	Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	2	9/22/2009		1.54E-03	-6.48E+00	Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	2	8/6/2009		1.19E-03	-6.74E+00	Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	3	8/5/2009		1.68E-03	-6.39E+00	Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	3	9/23/2009		1.25E-03	-6.69E+00	Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	Sample #1	9/12/2007		4.60E-03	-5.38E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	Sample #2	9/12/2007		3.00E-03	-5.81E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		13	WINewPageBiron	B24	Particulate Matter (PM) filterable	Sample #3	9/12/2007		3.60E-03	-5.63E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		14	IDTASCONampa	Riley Boiler	Particulate Matter (PM) filterable	Sample #1	1/12/2004		1.56E-03	-6.46E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		14	IDTASCONampa	Riley Boiler	Particulate Matter (PM) filterable	Sample #2	1/12/2004		1.43E-03	-6.55E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		14	IDTASCONampa	Riley Boiler	Particulate Matter (PM) filterable	Sample #3	1/12/2004		1.35E-03	-6.61E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		15	MENewPage-Rumford	Cogen#6	Particulate Matter (PM) filterable	1	12/8/2009		1.27E-03	-6.67E+00	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-
YES	Coal		15	MENewPage-Rumford	Cogen#6	Particulate Matter (PM) filterable	2	12/8/2009		1.44E-03	-6.54E+00	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-
YES	Coal		15	MENewPage-Rumford	Cogen#6	Particulate Matter (PM) filterable	3	12/9/2009		1.72E-03	-6.37E+00	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Coal		43	VADUniversityofVirginia	7103-1-05	Particulate Matter (PM) filterable	Sample #3	4/4/2008		9.00E-03	-4.71E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		44	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #1	4/14/2004		4.80E-02	-3.04E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		44	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #1	10/14/2004		2.00E-03	-6.21E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		44	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #2	4/14/2004		2.60E-02	-3.65E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		44	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #2	10/14/2004		4.00E-03	-5.52E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		44	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #3	10/14/2004		7.00E-03	-4.96E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		44	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #3	4/14/2004		2.90E-02	-3.54E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Gas 1		1	IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	Particulate Matter (PM) filterable	Sample #1	3/5/2008		1.00E-04	-9.21E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	Particulate Matter (PM) filterable	Sample #2	3/7/2008		2.00E-04	-8.52E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	Particulate Matter (PM) filterable	Sample #3	3/10/2008		1.00E-04	-9.21E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		2	MSChevronPascagoula	F-2103	Particulate Matter (PM) filterable	Sample #1	3/27/2008		1.20E-04	-9.03E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		2	MSChevronPascagoula	F-2103	Particulate Matter (PM) filterable	Sample #2	3/27/2008		1.20E-04	-9.03E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		2	MSChevronPascagoula	F-2103	Particulate Matter (PM) filterable	Sample #3	3/27/2008		5.60E-04	-7.49E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		3	IACargillEddyville	84.000	Particulate Matter (PM) filterable	Sample #1	11/25/1997		3.14E-04	-8.06E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		3	IACargillEddyville	84.000	Particulate Matter (PM) filterable	Sample #2	11/25/1997		2.83E-04	-8.17E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		3	IACargillEddyville	84.000	Particulate Matter (PM) filterable	Sample #3	11/25/1997		2.52E-04	-8.29E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		4	IACargillEddyville	86.000	Particulate Matter (PM) filterable	Sample #1	11/25/1997		3.14E-04	-8.06E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		4	IACargillEddyville	86.000	Particulate Matter (PM) filterable	Sample #2	11/25/1997		2.83E-04	-8.17E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		4	IACargillEddyville	86.000	Particulate Matter (PM) filterable	Sample #3	11/25/1997		2.52E-04	-8.29E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		5	MABostonGeneratingMysticSta	EU-17	Particulate Matter (PM) filterable	Sample #1	8/14/2008		4.00E-04	-7.82E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		5	MABostonGeneratingMysticSta	EU-17	Particulate Matter (PM) filterable	Sample #2	8/14/2008		4.00E-04	-7.82E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_ common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Gas 1		5	MABostonGeneratingMysticSta	EU-17	Particulate Matter (PM) filterable	Sample #3	8/14/2008		1.00E-04	-9.21E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		6	MSDuPontDeLisle1342	AH-202 (BLR 1342)	Particulate Matter (PM) filterable	Sample #1	3/29/2007		3.76E-04	-7.89E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		6	MSDuPontDeLisle1342	AH-202 (BLR 1342)	Particulate Matter (PM) filterable	Sample #2	3/29/2007		2.27E-04	-8.39E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		6	MSDuPontDeLisle1342	AH-202 (BLR 1342)	Particulate Matter (PM) filterable	Sample #3	3/29/2007		3.45E-04	-7.97E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		7	IAKochNitrogen	Reformer-Aux Boiler	Particulate Matter (PM) filterable	Sample #1	1/4/2007		6.17E-04	-7.39E+00	/Natural gas/Process gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		7	IAKochNitrogen	Reformer-Aux Boiler	Particulate Matter (PM) filterable	Sample #2	1/4/2007		2.03E-04	-8.50E+00	/Natural gas/Process gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		7	IAKochNitrogen	Reformer-Aux Boiler	Particulate Matter (PM) filterable	Sample #3	1/5/2007		2.55E-04	-8.27E+00	/Natural gas/Process gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		8	NCCampLejeuneMCB	C-AS-4151-16	Particulate Matter (PM) filterable	Sample #1	9/30/2009		3.10E-04	-8.08E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		8	NCCampLejeuneMCB	C-AS-4151-16	Particulate Matter (PM) filterable	Sample #2	10/1/2009		4.40E-04	-7.73E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		8	NCCampLejeuneMCB	C-AS-4151-16	Particulate Matter (PM) filterable	Sample #3	10/1/2009		5.10E-04	-7.58E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		9	IAGrainProcessing	Boiler #10	Particulate Matter (PM) filterable	Sample #1	7/24/2007		5.73E-04	-7.47E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		9	IAGrainProcessing	Boiler #10	Particulate Matter (PM) filterable	Sample #2	7/24/2007		5.73E-04	-7.47E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		9	IAGrainProcessing	Boiler #10	Particulate Matter (PM) filterable	Sample #3	7/24/2007		1.43E-04	-8.85E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #1	6/11/2003		6.00E-04	-7.42E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #2	6/11/2003		4.00E-04	-7.82E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #3	6/11/2003		3.00E-04	-8.11E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #3	12/11/2002		7.00E-04	-7.26E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		11	MSChevronPascagoula	F-8510	Particulate Matter (PM) filterable	Sample #1	11/6/2007		4.44E-04	-7.72E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		11	MSChevronPascagoula	F-8510	Particulate Matter (PM) filterable	Sample #2	11/6/2007		2.22E-04	-8.41E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		11	MSChevronPascagoula	F-8510	Particulate Matter (PM) filterable	Sample #3	11/6/2007		6.38E-04	-7.36E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		12	MSDuPontDeLisle1342	AH-101 (BLR 1342)	Particulate Matter (PM) filterable	Sample #1	3/14/2008		5.72E-04	-7.47E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Gas 1		12	MSDuPontDeLisle1342	AH-101 (BLR 1342)	Particulate Matter (PM) filterable	Sample #2	3/14/2008		4.15E-04	-7.79E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		12	MSDuPontDeLisle1342	AH-101 (BLR 1342)	Particulate Matter (PM) filterable	Sample #3	3/14/2008		3.61E-04	-7.93E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		13	MDUofMaryland	EU 001-4	Particulate Matter (PM) filterable	Sample #1	2/20/2002		4.98E-04	-7.60E+00	/Natural gas/	-	-	-	-	-	-	-	-	-	-
YES	Gas 1		13	MDUofMaryland	EU 001-4	Particulate Matter (PM) filterable	Sample #2	2/20/2002		3.98E-04	-7.83E+00	/Natural gas/	-	-	-	-	-	-	-	-	-	-
YES	Gas 1		13	MDUofMaryland	EU 001-4	Particulate Matter (PM) filterable	Sample #3	2/20/2002		5.98E-04	-7.42E+00	/Natural gas/	-	-	-	-	-	-	-	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #1	2/28/2007		2.89E-02	-3.54E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #1	5/17/2007		1.00E-03	-6.91E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #1	5/15/2007		6.00E-04	-7.42E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #2	2/28/2007		3.16E-02	-3.45E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #2	5/15/2007		3.10E-03	-5.78E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #2	5/17/2007		1.00E-04	-9.21E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #3	5/15/2007		2.00E-04	-8.52E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #3	2/28/2007		2.81E-02	-3.57E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #1	5/15/2007		1.60E-03	-6.44E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #1	5/16/2007		1.50E-03	-6.50E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #1	2/27/2007		1.08E-01	-2.23E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #2	5/15/2007		2.30E-03	-6.07E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #2	5/16/2007		1.00E-04	-9.21E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #2	2/27/2007		1.20E-02	-4.42E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #3	5/16/2007		1.00E-04	-9.21E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #3	2/27/2007		1.24E-02	-4.39E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #3	5/15/2007		4.80E-03	-5.34E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		16	NJSunocoWestville	Boiler #7	Particulate Matter (PM) filterable	Sample #1	10/11/2007		1.00E-03	-6.91E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		16	NJSunocoWestville	Boiler #7	Particulate Matter (PM) filterable	Sample #2	10/11/2007		3.00E-04	-8.11E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		16	NJSunocoWestville	Boiler #7	Particulate Matter (PM) filterable	Sample #3	10/11/2007		5.00E-04	-7.60E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		17	NJSunocoWestville	Boiler #6	Particulate Matter (PM) filterable	Sample #1	11/14/2007		4.81E-04	-7.64E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		17	NJSunocoWestville	Boiler #6	Particulate Matter (PM) filterable	Sample #2	11/14/2007		4.36E-04	-7.74E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		17	NJSunocoWestville	Boiler #6	Particulate Matter (PM) filterable	Sample #3	11/14/2007		9.50E-04	-6.96E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		18	NJSunocoWestville	Boiler #5	Particulate Matter (PM) filterable	Sample #1	8/27/2008		9.21E-04	-6.99E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		18	NJSunocoWestville	Boiler #5	Particulate Matter (PM) filterable	Sample #2	8/28/2008		7.00E-04	-7.26E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		18	NJSunocoWestville	Boiler #5	Particulate Matter (PM) filterable	Sample #3	8/28/2008		2.48E-04	-8.30E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	1	9/25/2009		5.24E-06	-1.22E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	2	9/26/2009		3.73E-06	-1.25E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	3	9/26/2009		5.39E-06	-1.21E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Gas 1	y	1	INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	Sample #1	9/19/1997		1.40E-02	-4.27E+00	Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	Sample #2	9/19/1997		9.90E-03	-4.62E+00	Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	Sample #3	9/19/1997		1.53E-02	-4.18E+00	Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	2	INNucorSteel	Cold Mill Annealing	Particulate Matter (PM) filterable	M5-1	8/18/2009		1.39E-03	-6.58E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	2	INNucorSteel	Cold Mill Annealing	Particulate Matter (PM) filterable	M5-2	8/18/2009		7.90E-04	-7.14E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	2	INNucorSteel	Cold Mill Annealing	Particulate Matter (PM) filterable	M5-3	8/18/2009		9.28E-04	-6.98E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Particulate Matter (PM) filterable	528-1	8/26/2009		8.21E-04	-7.10E+00	Heavy Recycle/Natural gas/Petrochemical process gas	-	-	-	-	-	-	32.76	55.48	11.77	-
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Particulate Matter (PM) filterable	528-2	8/26/2009		2.33E-04	-8.36E+00	Heavy Recycle/Natural gas/Petrochemical process gas	-	-	-	-	-	-	32.76	55.48	11.77	-
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Particulate Matter (PM) filterable	528-3	8/27/2009		2.06E-04	-8.49E+00	Heavy Recycle/Natural gas/Petrochemical process gas	-	-	-	-	-	-	32.76	55.48	11.77	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	8/28/2002		7.20E-03	-4.93E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	8/29/2000		8.10E-03	-4.82E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	9/21/2007		5.50E-04	-7.51E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	7/28/1998		6.00E-03	-5.12E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	8/10/2004		2.61E-02	-3.65E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	11/9/1999		2.65E-02	-3.63E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	2/2/2000		3.18E-03	-5.75E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	10/27/1992		1.00E-02	-4.61E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	9/24/1994		1.44E-02	-4.24E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	7/19/2000		3.10E-03	-5.78E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	8/28/2002		6.70E-03	-5.01E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	8/10/2004		3.76E-02	-3.28E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	10/27/1992		1.30E-02	-4.34E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	9/21/2007		1.06E-03	-6.85E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	8/29/2000		2.12E-02	-3.85E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	9/24/1994		1.21E-02	-4.41E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	7/28/1998		1.60E-03	-6.44E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	11/9/1999		2.11E-02	-3.86E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	7/19/2000		2.70E-03	-5.91E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	2/2/2000		3.92E-03	-5.54E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	7/28/1998		2.40E-03	-6.03E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	9/24/1994		2.94E-02	-3.53E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	7/19/2000		7.00E-03	-4.96E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	11/9/1999		2.56E-02	-3.67E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	9/21/2007		7.60E-04	-7.18E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	8/28/2002		1.02E-02	-4.59E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	8/29/2000		1.40E-03	-6.57E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	8/10/2004		4.21E-02	-3.17E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	2/2/2000		3.92E-03	-5.54E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		2	WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	10/27/1992		1.30E-02	-4.34E+00	/Coke Oven Gas/	-	-	-	-	-	-	-	100.00	-	-
YES	Liquid		1	TNMilanArmyAmmunitionPlant	D88L-1, Source #27-0010-86	Particulate Matter (PM) filterable	1	11/17/2009		7.19E-04	-7.24E+00	No. 2 Distillate	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		1	TNMilanArmyAmmunitionPlant	D88L-1, Source #27-0010-86	Particulate Matter (PM) filterable	2	11/17/2009		4.12E-04	-7.80E+00	No. 2 Distillate	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		1	TNMilanArmyAmmunitionPlant	D88L-1, Source #27-0010-86	Particulate Matter (PM) filterable	3	11/18/2009	DLL	4.02E-04	-7.82E+00	No. 2 Distillate	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	SCGPChemRussellville	FO Boiler	Particulate Matter (PM) filterable	Sample #1	8/26/2009		8.00E-04	-7.13E+00	Diesel fuel	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	SCGPChemRussellville	FO Boiler	Particulate Matter (PM) filterable	Sample #2	8/26/2009		5.00E-04	-7.60E+00	Diesel fuel	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	SCGPChemRussellville	FO Boiler	Particulate Matter (PM) filterable	Sample #3	8/26/2009		5.00E-04	-7.60E+00	Diesel fuel	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		3	NJSunocoWestville	Boiler #8	Particulate Matter (PM) filterable	Sample #1	11/20/2007		9.34E-04	-6.98E+00	/Jet Fuel/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		3	NJSunocoWestville	Boiler #8	Particulate Matter (PM) filterable	Sample #2	11/20/2007		8.82E-05	-9.34E+00	/Jet Fuel/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		3	NJSunocoWestville	Boiler #8	Particulate Matter (PM) filterable	Sample #3	11/20/2007		1.01E-03	-6.90E+00	/Jet Fuel/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		4	PAConemaughPowerPlantNew	Aux Boiler B	Particulate Matter (PM) filterable	Sample #1	10/17/2006		1.30E-03	-6.65E+00	/No. 2 Distillate/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		4	PAConemaughPowerPlantNew	Aux Boiler B	Particulate Matter (PM) filterable	Sample #2	10/17/2006		3.20E-04	-8.05E+00	/No. 2 Distillate/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		4	PAConemaughPowerPlantNew	Aux Boiler B	Particulate Matter (PM) filterable	Sample #3	10/17/2006		1.00E-03	-6.91E+00	/No. 2 Distillate/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		5	NJSunocoWestville	Boiler #6	Particulate Matter (PM) filterable	Sample #1	11/15/2007		8.01E-04	-7.13E+00	/Jet Fuel/	-	-	-	-	100.00	-	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Liquid		5	NJSunocoWestville	Boiler #6	Particulate Matter (PM) filterable	Sample #2	11/15/2007		9.65E-04	-6.94E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		5	NJSunocoWestville	Boiler #6	Particulate Matter (PM) filterable	Sample #3	11/15/2007		1.30E-03	-6.65E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #1	8/20/2009		1.05E-03	-6.86E+00	Deinking residuals/Natural gas	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #1	9/19/2007		2.90E-03	-5.84E+00	/Deinking Residuals/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #1	1/13/1999		1.10E-03	-6.81E+00	/Deinking Residuals/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #2	1/13/1999		1.50E-03	-6.50E+00	/Deinking Residuals/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #2	9/19/2007		2.60E-03	-5.95E+00	/Deinking Residuals/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #2	8/20/2009		1.54E-03	-6.48E+00	Deinking residuals/Natural gas	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #3	1/14/1999		1.10E-03	-6.81E+00	/Deinking Residuals/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #3	9/19/2007		2.90E-03	-5.84E+00	/Deinking Residuals/	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		6	WIGPGreenBay2818	B10 - Wastepaper Sludge-Fired Boiler 10	Particulate Matter (PM) filterable	Sample #3	8/21/2009		1.42E-03	-6.56E+00	Deinking residuals/Natural gas	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		7	PACHerokeePharm	SG-C, Title V Source ID 037	Particulate Matter (PM) filterable	Sample #1	5/21/1998		2.00E-03	-6.21E+00	/Natural gas/No. 2 Distillate/										
YES	Liquid		7	PACHerokeePharm	SG-C, Title V Source ID 037	Particulate Matter (PM) filterable	Sample #2	5/21/1998		1.30E-03	-6.65E+00	/Natural gas/No. 2 Distillate/										
YES	Liquid		7	PACHerokeePharm	SG-C, Title V Source ID 037	Particulate Matter (PM) filterable	Sample #3	5/21/1998		1.50E-03	-6.50E+00	/Natural gas/No. 2 Distillate/										
YES	Liquid		8	NJSunocoWestville	Boiler #7	Particulate Matter (PM) filterable	Sample #1	12/19/2005		1.95E-03	-6.24E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-

Appendix C-4: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Liquid		8	NJSunocoWestville	Boiler #7	Particulate Matter (PM) filterable	Sample #2	12/19/2005		2.07E-03	-6.18E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		8	NJSunocoWestville	Boiler #7	Particulate Matter (PM) filterable	Sample #3	12/19/2005		1.13E-03	-6.79E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		9	PACHerokeePharm	SG-B, Title V Source ID 036	Particulate Matter (PM) filterable	Sample #1	5/19/1998		2.20E-03	-6.12E+00	/Natural gas/No. 2 Distillate/										
YES	Liquid		9	PACHerokeePharm	SG-B, Title V Source ID 036	Particulate Matter (PM) filterable	Sample #2	5/19/1998		2.00E-03	-6.21E+00	/Natural gas/No. 2 Distillate/										
YES	Liquid		9	PACHerokeePharm	SG-B, Title V Source ID 036	Particulate Matter (PM) filterable	Sample #3	5/19/1998		1.20E-03	-6.73E+00	/Natural gas/No. 2 Distillate/										
YES	Liquid		10	NJSunocoWestville	Boiler #5	Particulate Matter (PM) filterable	Sample #1	11/16/2007		2.08E-03	-6.18E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		10	NJSunocoWestville	Boiler #5	Particulate Matter (PM) filterable	Sample #2	11/16/2007		1.23E-03	-6.70E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		10	NJSunocoWestville	Boiler #5	Particulate Matter (PM) filterable	Sample #3	11/16/2007		2.15E-03	-6.14E+00	/Jet Fuel/	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		11	SCMilliken-Dewey	D30	Particulate Matter (PM) filterable	Sample #1	8/12/2009		4.00E-03	-5.52E+00	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		11	SCMilliken-Dewey	D30	Particulate Matter (PM) filterable	Sample #2	8/12/2009		1.50E-03	-6.50E+00	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		11	SCMilliken-Dewey	D30	Particulate Matter (PM) filterable	Sample #3	8/12/2009		1.00E-03	-6.91E+00	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-

Appendix C-5: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass		1	FLUSSugarCorp	Boiler No. 7	Mercury (Hg)	Sample #1	1/2/2003	ND	1.15E-07	-1.60E+01	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		1	FLUSSugarCorp	Boiler No. 7	Mercury (Hg)	Sample #2	1/2/2003	ND	9.08E-08	-1.62E+01	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		1	FLUSSugarCorp	Boiler No. 7	Mercury (Hg)	Sample #3	1/2/2003	ND	8.60E-08	-1.63E+01	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass		2	ORFlakeboardEugene	Boiler-2	Mercury (Hg)	M29-1	8/26/2009	ND	9.90E-08	-1.61E+01	Natural gas/Wood: Unadulterated Lumber										
YES	Biomass		2	ORFlakeboardEugene	Boiler-2	Mercury (Hg)	M29-2	8/27/2009	ND	2.20E-07	-1.53E+01	Natural gas/Wood: Unadulterated Lumber										
YES	Biomass		2	ORFlakeboardEugene	Boiler-2	Mercury (Hg)	M29-3	8/27/2009	ND	9.00E-08	-1.62E+01	Natural gas/Wood: Unadulterated Lumber										
YES	Biomass		3	MESDWarrenSomerset	No2 Power Boiler	Mercury (Hg)	1	7/28/2009	DLL	1.98E-07	-1.54E+01	Biomass/Industrial Sludge/No. 2 Distillate/No. 6 Residual oil/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)	-	-	-	51.78	38.68	3.28	-	-	6.26	-
YES	Biomass		3	MESDWarrenSomerset	No2 Power Boiler	Mercury (Hg)	2	7/28/2009	DLL	1.21E-07	-1.59E+01	Biomass/Industrial Sludge/No. 2 Distillate/No. 6 Residual oil/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)	-	-	-	51.78	38.68	3.28	-	-	6.26	-
YES	Biomass		3	MESDWarrenSomerset	No2 Power Boiler	Mercury (Hg)	3	7/28/2009	DLL	1.13E-07	-1.60E+01	Biomass/Industrial Sludge/No. 2 Distillate/No. 6 Residual oil/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)	-	-	-	51.78	38.68	3.28	-	-	6.26	-
YES	Biomass		3	MESDWarrenSomerset	No2 Power Boiler	Mercury (Hg)	Sample #1	4/24/2008		3.26E-07	-1.49E+01	/Hog Fuel/No. 6 Residual oil/Wood: Bark/										
YES	Biomass		3	MESDWarrenSomerset	No2 Power Boiler	Mercury (Hg)	Sample #2	4/24/2008		3.48E-07	-1.49E+01	/Hog Fuel/No. 6 Residual oil/Wood: Bark/										
YES	Biomass		3	MESDWarrenSomerset	No2 Power Boiler	Mercury (Hg)	Sample #3	4/24/2008		3.44E-07	-1.49E+01	/Hog Fuel/No. 6 Residual oil/Wood: Bark/										
YES	Biomass		4	SCBwaterCoatedPaper	Combination Boiler No. 1	Mercury (Hg)	Sample #1	4/21/2004	ND	1.89E-07	-1.55E+01	/No. 6 Residual oil/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	76.48	-	19.62	-	-	-	3.91	-
YES	Biomass		4	SCBwaterCoatedPaper	Combination Boiler No. 1	Mercury (Hg)	Sample #2	4/21/2004		1.61E-07	-1.56E+01	/No. 6 Residual oil/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	76.48	-	19.62	-	-	-	3.91	-
YES	Biomass		5	TNKimberlyClark2397	WB	Mercury (Hg)	Sample #1	8/4/2005		2.10E-07	-1.54E+01	/Deinking Residuals/Wood: Unadulterated Lumber/										
YES	Biomass		5	TNKimberlyClark2397	WB	Mercury (Hg)	Sample #2	8/4/2005		1.90E-07	-1.55E+01	/Deinking Residuals/Wood: Unadulterated Lumber/										
YES	Biomass		5	TNKimberlyClark2397	WB	Mercury (Hg)	Sample #3	8/4/2005		1.30E-07	-1.59E+01	/Deinking Residuals/Wood: Unadulterated Lumber/										
YES	Biomass		6	FLSmurfit-Stone	5PB	Mercury (Hg)	Sample #1	7/10/2007		2.55E-07	-1.52E+01	/Biomass/No. 6 Residual oil/	-	-	-	51.85	48.15	-	-	-	-	-
YES	Biomass		6	FLSmurfit-Stone	5PB	Mercury (Hg)	Sample #3	7/10/2007		1.54E-07	-1.57E+01	/Biomass/No. 6 Residual oil/	-	-	-	51.85	48.15	-	-	-	-	-
YES	Biomass		7	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Mercury (Hg)	Sample #1	8/5/2009	ND	7.81E-07	-1.41E+01	Natural gas/No. 6 Residual oil/Wood: Bark										
YES	Biomass		7	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Mercury (Hg)	Sample #1	4/27/2006		3.78E-08	-1.71E+01	/No. 6 Residual oil/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	83.32	-	8.59	-	-	-	8.09	-
YES	Biomass		7	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Mercury (Hg)	Sample #1	8/5/2009	ND	7.81E-07	-1.41E+01	Natural gas/No. 6 Residual oil/Wood: Bark										
YES	Biomass		7	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Mercury (Hg)	Sample #2	8/6/2009	ND	7.95E-07	-1.40E+01	Natural gas/No. 6 Residual oil/Wood: Bark	-	-	85.43	-	0.40	-	14.16	-	-	-
YES	Biomass		7	GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Mercury (Hg)	Sample #2	4/27/2006		3.68E-07	-1.48E+01	/No. 6 Residual oil/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	83.32	-	8.59	-	-	-	8.09	-

Appendix C-5: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Coal		5	INPurdueUniversity	Boiler 5	Mercury (Hg)	M5-2	7/21/2009		1.35E-07	-1.58E+01	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		5	INPurdueUniversity	Boiler 5	Mercury (Hg)	M5-3	7/22/2009		1.19E-07	-1.59E+01	Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	1	9/9/2009		1.62E-07	-1.56E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	2	9/9/2009		1.42E-07	-1.58E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	3	9/10/2009		6.46E-08	-1.66E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	Sample #1	11/14/2006		2.22E-07	-1.53E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #1	7/26/2007	ND	3.96E-07	-1.47E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #1	7/25/2007	ND	1.41E-07	-1.58E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #2	7/26/2007	ND	1.54E-07	-1.57E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #2	7/25/2007	ND	9.27E-08	-1.62E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #3	7/25/2007	ND	1.98E-07	-1.54E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #3	7/26/2007	ND	3.07E-07	-1.50E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		8	MNADMComDivision	Coal Boiler #1 EU049	Mercury (Hg)	Sample #2	10/25/2008		1.59E-07	-1.57E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		8	MNADMComDivision	Coal Boiler #2 EU050	Mercury (Hg)	Sample #2	10/25/2008		1.59E-07	-1.57E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #1	11/25/2003		4.50E-07	-1.46E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	57.02	-	42.98	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #1	8/18/2009		1.28E-07	-1.59E+01	Biomass/Coal: Bituminous	42.30	-	-	57.70	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #1	11/7/2007		8.90E-07	-1.39E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	68.84	-	31.16	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #1	11/3/2005		2.40E-07	-1.52E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	40.69	-	59.31	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #2	8/18/2009		1.33E-07	-1.58E+01	Biomass/Coal: Bituminous	42.30	-	-	57.70	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #2	11/25/2003		3.10E-07	-1.50E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	57.02	-	42.98	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #2	11/7/2007		8.40E-07	-1.40E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	68.84	-	31.16	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #2	11/3/2005		2.50E-07	-1.52E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	40.69	-	59.31	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #3	11/25/2003		4.00E-07	-1.47E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	57.02	-	42.98	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #3	11/7/2007		7.00E-07	-1.42E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	68.84	-	31.16	-	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #3	8/19/2009		2.50E-07	-1.52E+01	Biomass/Coal: Bituminous	42.30	-	-	57.70	-	-	-	-	-	-
YES	Coal		10	SCCogenSouth	B001 - Main Boiler	Mercury (Hg)	Sample #3	11/3/2005		2.10E-07	-1.54E+01	/Coal: Bituminous/Industrial Sludge/Wood: Bark/	40.69	-	59.31	-	-	-	-	-	-	-
YES	Coal		11	NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Mercury (Hg)	Sample #1	8/18/2009	ND	1.68E-07	-1.56E+01	Coal: Bituminous/Hog Fuel/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Used Petroleum-based Oils	21.27	-	-	78.47	0.26	-	-	-	-	-
YES	Coal		11	NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Mercury (Hg)	Sample #1	3/25/2008	ND	2.01E-06	-1.31E+01	/Coal: Bituminous/Hog Fuel/No. 6 Residual oil/	48.01	-	-	51.99	-	-	-	-	-	-
YES	Coal		11	NCDomtar	65-25-0310 (No. 2 Hog Fuel Boiler)	Mercury (Hg)	Sample #2	8/18/2009	ND	1.81E-07	-1.55E+01	Coal: Bituminous/Hog Fuel/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Used Petroleum-based Oils	21.27	-	-	78.47	0.26	-	-	-	-	-

Appendix C-5: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Coal		16	VAStanleyFurniture	FB-2	Mercury (Hg)	Sample #2	5/3/2006		1.02E-06	-1.38E+01	/Coal: Bituminous/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/										
YES	Coal		16	VAStanleyFurniture	FB-2	Mercury (Hg)	Sample #2	9/14/2006		3.01E-07	-1.50E+01	/Coal: Bituminous/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/										
YES	Coal		16	VAStanleyFurniture	FB-2	Mercury (Hg)	Sample #2	10/4/2006		3.19E-06	-1.27E+01	/Coal: Bituminous/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/										
YES	Coal		16	VAStanleyFurniture	FB-2	Mercury (Hg)	Sample #3	10/4/2006		2.98E-06	-1.27E+01	/Coal: Bituminous/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/										
YES	Coal		16	VAStanleyFurniture	FB-2	Mercury (Hg)	Sample #3	5/3/2006		9.64E-07	-1.39E+01	/Coal: Bituminous/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/										
YES	Coal		16	VAStanleyFurniture	FB-2	Mercury (Hg)	Sample #3	9/14/2006		3.69E-07	-1.48E+01	/Coal: Bituminous/Wood: Plywood, Particleboard (containing glues or resins)/Wood: Unadulterated Lumber/										
YES	Coal		17	GASPNewsprint	PB2	Mercury (Hg)	1	8/25/2009	BDL	1.17E-07	-1.60E+01	Coal: Bituminous/Industrial Sludge/Tire Derived Fuel (TDF)	30.00	-	-	-	50.03	-	-	-	19.96	-
YES	Coal		17	GASPNewsprint	PB2	Mercury (Hg)	2	8/26/2009	BDL	3.45E-07	-1.49E+01	Coal: Bituminous/Industrial Sludge/Tire Derived Fuel (TDF)	30.00	-	-	-	50.03	-	-	-	19.96	-
YES	Coal		17	GASPNewsprint	PB2	Mercury (Hg)	3	8/26/2009	BDL	4.19E-07	-1.47E+01	Coal: Bituminous/Industrial Sludge/Tire Derived Fuel (TDF)	30.00	-	-	-	50.03	-	-	-	19.96	-
YES	Coal		18	MENewPage-Rumford	Cogen#6	Mercury (Hg)	1	12/8/2009	DLL	9.18E-07	-1.39E+01	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-
YES	Coal		18	MENewPage-Rumford	Cogen#6	Mercury (Hg)	2	12/8/2009	DLL	6.80E-07	-1.42E+01	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-
YES	Coal		18	MENewPage-Rumford	Cogen#6	Mercury (Hg)	3	12/9/2009	DLL	8.69E-07	-1.40E+01	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-
YES	Coal		18	MENewPage-Rumford	Cogen#6	Mercury (Hg)	Sample #1	11/25/2003		4.69E-07	-1.46E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		18	MENewPage-Rumford	Cogen#6	Mercury (Hg)	Sample #1	11/25/2003		2.96E-07	-1.50E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		18	MENewPage-Rumford	Cogen#7	Mercury (Hg)	1	12/8/2009	DLL	9.18E-07	-1.39E+01	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-
YES	Coal		18	MENewPage-Rumford	Cogen#7	Mercury (Hg)	2	12/8/2009	DLL	6.80E-07	-1.42E+01	/Biomass/Coal: Bituminous/Industrial Sludge/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)/	10.17	-	-	58.91	3.29	-	-	-	27.64	-

Appendix C-5: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %	
YES	Coal		33	ALIPCourtland	No.2 Combination Boiler / 11CU201	Mercury (Hg)	Sample #2	9/10/1996		4.84E-07	-1.45E+01	/Coal: Bituminous/Natural gas/Noncondensable Gas (includes stripper offgas)/Wood: Bark/											
YES	Coal		33	ALIPCourtland	No.2 Combination Boiler / 11CU201	Mercury (Hg)	Sample #3	9/10/1996		5.66E-07	-1.44E+01	/Coal: Bituminous/Natural gas/Noncondensable Gas (includes stripper offgas)/Wood: Bark/											
YES	Coal		34	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #1	10/12/2004		7.88E-07	-1.41E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		34	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #1	10/12/2004		2.50E-06	-1.29E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		34	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #2	10/12/2004		4.60E-07	-1.46E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		34	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #2	10/12/2004		1.91E-06	-1.32E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		34	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #3	10/12/2004		2.30E-06	-1.30E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		34	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #3	10/12/2004		3.70E-07	-1.48E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		35	TNNissanSmyrna	Boiler 2	Mercury (Hg)	Sample #1	3/2/2007		8.00E-07	-1.40E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		35	TNNissanSmyrna	Boiler 2	Mercury (Hg)	Sample #2	3/2/2007		5.20E-07	-1.45E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Coal		35	TNNissanSmyrna	Boiler 2	Mercury (Hg)	Sample #3	3/2/2007		3.20E-07	-1.50E+01	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-	-
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Mercury (Hg)	Sample #1	9/30/2009		9.94E-08	-1.61E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Mercury (Hg)	Sample #2	10/1/2009		9.16E-08	-1.62E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Mercury (Hg)	Sample #3	10/1/2009		8.95E-08	-1.62E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1		2	CAConocoPhilipsLosAng	D146 B-202 U90	Mercury (Hg)	Sample #1	4/23/1995		1.37E-07	-1.58E+01	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1		2	CAConocoPhilipsLosAng	D146 B-202 U90	Mercury (Hg)	Sample #2	4/24/1995		1.65E-07	-1.56E+01	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1		2	CAConocoPhilipsLosAng	D146 B-202 U90	Mercury (Hg)	Sample #3	4/25/1995		6.11E-08	-1.66E+01	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1	y	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Sample #1	8/26/2009		6.28E-08	-1.66E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1	y	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Sample #2	8/27/2009		2.47E-08	-1.75E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 1	y	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Sample #3	8/28/2009		1.20E-08	-1.82E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-	-
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Mercury (Hg)	1	8/25/2009	DLL	1.03E-07	-1.61E+01	Landfill Gas	-	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Mercury (Hg)	2	8/25/2009	DLL	6.83E-08	-1.65E+01	Landfill Gas	-	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Mercury (Hg)	3	8/26/2009	DLL	7.61E-08	-1.64E+01	Landfill Gas	-	-	-	-	-	-	-	100.00	-	-	-
YES	Liquid		1	MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	1	9/10/2009	DLL	9.66E-08	-1.62E+01	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-	-
YES	Liquid		1	MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	2	9/10/2009	DLL	4.34E-08	-1.70E+01	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-	-
YES	Liquid		1	MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	3	9/10/2009	DLL	3.59E-08	-1.71E+01	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-	-
YES	Liquid		2	MEFPLEnergyWyman	Unit #5	Mercury (Hg)	PM/TM-R1	10/5/2009		8.92E-08	-1.62E+01	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-	-

Appendix C-6: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Na me	TestID	TestDate_co mmon	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	1	9/8/2009	<	3.61E-06	-1.25E+01	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	2	9/8/2009	<	3.69E-06	-1.25E+01	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	3	9/8/2009	<	3.78E-06	-1.25E+01	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Sample #1	8/8/2006		8.00E-04	-7.13E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Sample #2	8/8/2006		2.10E-03	-6.17E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Sample #3	9/8/2006		1.80E-03	-6.32E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		2	TXDibollTemple-Inland	PB-44	Hydrogen Chloride (HCl)	Sample #1	6/29/2007	ND	2.50E-05	-1.06E+01	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		2	TXDibollTemple-Inland	PB-44	Hydrogen Chloride (HCl)	Sample #2	6/29/2007	ND	2.50E-05	-1.06E+01	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		2	TXDibollTemple-Inland	PB-44	Hydrogen Chloride (HCl)	Sample #3	6/29/2007	ND	2.50E-05	-1.06E+01	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		3	IDPotlatch	PB-1 CE	Hydrogen Chloride (HCl)	Sample #1	7/28/2009	ND	2.80E-05	-1.05E+01	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		3	IDPotlatch	PB-1 CE	Hydrogen Chloride (HCl)	Sample #2	7/28/2009	ND	2.80E-05	-1.05E+01	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		3	IDPotlatch	PB-1 CE	Hydrogen Chloride (HCl)	Sample #3	7/28/2009	ND	2.90E-05	-1.04E+01	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass		4	MESDWarrenSomerset	No2 Power Boiler	Hydrogen Chloride (HCl)	2	7/30/2009		5.86E-04	-7.44E+00	Biomass/Industrial Sludge/No. 2 Distillate/No. 6 Residual oil/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)	-	-	-	51.78	38.68	3.28	-	-	6.26	-
YES	Biomass		4	MESDWarrenSomerset	No2 Power Boiler	Hydrogen Chloride (HCl)	3	7/30/2009		5.39E-04	-7.53E+00	Biomass/Industrial Sludge/No. 2 Distillate/No. 6 Residual oil/Noncondensable Gas (includes stripper offgas)/Tire Derived Fuel (TDF)	-	-	-	51.78	38.68	3.28	-	-	6.26	-
YES	Biomass		4	MESDWarrenSomerset	No2 Power Boiler	Hydrogen Chloride (HCl)	Sample #1	4/18/2008		6.09E-05	-9.71E+00	/Hog Fuel/No. 6 Residual oil/Wood: Bark/	-	-	-							
YES	Biomass		4	MESDWarrenSomerset	No2 Power Boiler	Hydrogen Chloride (HCl)	Sample #2	4/18/2008		5.87E-05	-9.74E+00	/Hog Fuel/No. 6 Residual oil/Wood: Bark/	-	-	-							
YES	Biomass		5	GAGPMadisonPly	800 Wood Waste Boiler	Hydrogen Chloride (HCl)	Sample #1	8/13/2009		9.00E-05	-9.32E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		5	GAGPMadisonPly	800 Wood Waste Boiler	Hydrogen Chloride (HCl)	Sample #2	8/13/2009		1.20E-04	-9.03E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		5	GAGPMadisonPly	800 Wood Waste Boiler	Hydrogen Chloride (HCl)	Sample #3	8/14/2009	ND	4.00E-05	-1.01E+01	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass		6	WABoisePaperWallula	Hog Fuel Boiler	Hydrogen Chloride (HCl)	Sample #1	5/6/2008		8.67E-05	-9.35E+00	/Hog Fuel/Natural gas/Noncondensable Gas (includes stripper offgas)/	-	-	-							

Appendix C-6: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID	Pollutant_Na me	TestID	TestDate_co mmon	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Coal		19	WINewPage-WisconsinRapids	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Sample #1	12/14/2005		3.00E-04	-8.11E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		19	WINewPage-WisconsinRapids	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Sample #2	12/15/2005		1.40E-03	-6.57E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		19	WINewPage-WisconsinRapids	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Sample #3	12/15/2005		7.00E-04	-7.26E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		20	PADomtarJohnsonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Sample #1	7/18/2007		8.00E-04	-7.13E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		20	PADomtarJohnsonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Sample #2	7/18/2007		1.00E-03	-6.91E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		20	PADomtarJohnsonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Sample #3	7/17/2007		7.00E-04	-7.26E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		20	PADomtarJohnsonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Sample #1	7/18/2007		8.00E-04	-7.13E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		20	PADomtarJohnsonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Sample #2	7/18/2007		1.00E-03	-6.91E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		20	PADomtarJohnsonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Sample #3	7/17/2007		7.00E-04	-7.26E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Sample #1	12/5/2006		9.00E-04	-7.01E+00	/Coal: Sub-bituminous/Natural gas/										
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Sample #2	12/5/2006		9.00E-04	-7.01E+00	/Coal: Sub-bituminous/Natural gas/										
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Sample #3	12/5/2006		9.00E-04	-7.01E+00	/Coal: Sub-bituminous/Natural gas/										
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Sample #1	12/5/2006		9.00E-04	-7.01E+00	/Coal: Sub-bituminous/Natural gas/										
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Sample #2	12/5/2006		9.00E-04	-7.01E+00	/Coal: Sub-bituminous/Natural gas/										
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Sample #3	12/5/2006		9.00E-04	-7.01E+00	/Coal: Sub-bituminous/Natural gas/										
YES	Coal		22	WINewPage-WisconsinRapids	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #1	5/22/2003		9.90E-03	-4.62E+00	/Coal: Sub-bituminous/Wood: Bark/	44.51	-	55.49	-	-	-	-	-	-	-
YES	Coal		22	WINewPage-WisconsinRapids	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #1	5/21/2003		8.00E-04	-7.13E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		22	WINewPage-WisconsinRapids	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #2	5/22/2003	ND	1.00E-04	-9.21E+00	/Coal: Sub-bituminous/Wood: Bark/	44.51	-	55.49	-	-	-	-	-	-	-
YES	Coal		22	WINewPage-WisconsinRapids	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #2	5/21/2003		1.10E-03	-6.81E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		22	WINewPage-WisconsinRapids	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #3	5/21/2003		8.00E-04	-7.13E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		25	NCBlueRidgePaper	G11042	Hydrogen Chloride (HCl)	1	8/4/2009		7.47E-04	-7.20E+00	Coal: Bituminous/Wood: Unadulterated Timber	65.97	-	34.03	-	-	-	-	-	-	-

Appendix C-6: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Coal		35	MNAmericanCrystalMoorhead	Boiler 3	Hydrogen Chloride (HCl)	Sample #2	11/16/2004		2.89E-03	-5.85E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		35	MNAmericanCrystalMoorhead	Boiler 3	Hydrogen Chloride (HCl)	Sample #3	11/16/2004		2.20E-03	-6.12E+00	/Coal: Sub-bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		36	OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Sample #1	5/28/2004		4.00E-03	-5.52E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		36	OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Sample #1	8/4/2006		2.00E-03	-6.21E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		36	OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Sample #2	8/4/2006		2.00E-03	-6.21E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		36	OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Sample #2	5/28/2004		1.20E-02	-4.42E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		36	OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Sample #3	8/4/2006		2.00E-03	-6.21E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		36	OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Sample #3	5/28/2004		6.00E-03	-5.12E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #1	4/6/2005		3.17E-03	-5.75E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #1	6/27/2006		3.30E-03	-5.71E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #2	4/6/2005		1.75E-03	-6.35E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #2	6/27/2006		5.50E-03	-5.20E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #3	4/6/2005		3.05E-03	-5.79E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #3	6/27/2006		5.90E-03	-5.13E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #1	6/27/2006		3.30E-03	-5.71E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #1	4/7/2005		3.17E-03	-5.75E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #2	6/27/2006		5.50E-03	-5.20E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #2	4/7/2005		1.75E-03	-6.35E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #3	6/27/2006		5.90E-03	-5.13E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		37	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #3	4/7/2005		3.05E-03	-5.79E+00	/Coal: Bituminous/	100.00	-	-	-	-	-	-	-	-	-
YES	Coal		39	WINNewPage-Whiting	B24	Hydrogen Chloride (HCl)	Sample #1	8/24/2006		2.00E-03	-6.21E+00	/Coal: Bituminous/Wood: Bark/	66.09	-	33.91	-	-	-	-	-	-	-

Appendix C-6: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Na me	TestID	TestDate_co mmon	Non-Detect?	lb/mmBtu	In (lb/mmBtu)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Coal		39	WINewPage-Whiting	B24	Hydrogen Chloride (HCl)	Sample #2	8/24/2006		3.30E-03	-5.71E+00	/Coal: Bituminous/Wood: Bark/	66.09	-	33.91	-	-	-	-	-	-	-
YES	Coal		39	WINewPage-Whiting	B24	Hydrogen Chloride (HCl)	Sample #3	8/24/2006		2.90E-03	-5.84E+00	/Coal: Bituminous/Wood: Bark/	66.09	-	33.91	-	-	-	-	-	-	-
YES	Gas 1		1	SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Sample #1	9/10/2009		1.14E-04	-9.08E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Sample #2	9/10/2009	ND	3.84E-05	-1.02E+01	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Sample #3	9/10/2009	ND	6.56E-05	-9.63E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		2	WYSinclairWyoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	1	11/18/2009	DL	1.26E-04	-8.98E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		2	WYSinclairWyoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	2	11/18/2009	DL	1.30E-04	-8.95E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		2	WYSinclairWyoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	3	11/18/2009	DL	1.30E-04	-8.95E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	M26-1	8/13/2009		9.81E-05	-9.23E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	M26-2	8/14/2009		8.39E-05	-9.39E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	M26-3	8/14/2009		7.58E-05	-9.49E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	2	INALcoaWarrick	Annealing Furnace #15	Hydrogen Chloride (HCl)	M26A-1	8/17/2009	BDL	2.54E-04	-8.28E+00	/Natural gas/										
YES	Gas 1	y	2	INALcoaWarrick	Annealing Furnace #15	Hydrogen Chloride (HCl)	M26A-2	8/17/2009	BDL	2.34E-04	-8.36E+00	/Natural gas/										
YES	Gas 1	y	2	INALcoaWarrick	Annealing Furnace #15	Hydrogen Chloride (HCl)	M26A-3	8/17/2009	BDL	2.48E-04	-8.30E+00	/Natural gas/										
YES	Gas 1	y	2	INALcoaWarrick	Pre-Heat Furnace #36	Hydrogen Chloride (HCl)	M26A-1	8/17/2009	BDL	2.54E-04	-8.28E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	2	INALcoaWarrick	Pre-Heat Furnace #36	Hydrogen Chloride (HCl)	M26A-2	8/17/2009	BDL	2.34E-04	-8.36E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	y	2	INALcoaWarrick	Pre-Heat Furnace #36	Hydrogen Chloride (HCl)	M26A-3	8/17/2009	BDL	2.48E-04	-8.30E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Hydrogen Chloride (HCl)	Sample #1	8/25/2009	ND	1.57E-06	-1.34E+01	Heavy Recycle/Natural gas/Petrochemical process gas	-	-	-	-	-	-	32.76	55.48	11.77	-
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Hydrogen Chloride (HCl)	Sample #2	8/26/2009	ND	1.85E-06	-1.32E+01	Heavy Recycle/Natural gas/Petrochemical process gas	-	-	-	-	-	-	32.76	55.48	11.77	-
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Hydrogen Chloride (HCl)	Sample #3	8/27/2009	ND	1.68E-06	-1.33E+01	Heavy Recycle/Natural gas/Petrochemical process gas	-	-	-	-	-	-	32.76	55.48	11.77	-
YES	Liquid		3	SCMilliken-Dewey	D30	Hydrogen Chloride (HCl)	Sample #1	8/13/2009	ND	1.00E-04	-9.21E+00	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-

Appendix C-7: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant	TestID	TestDate_common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %	
YES	Gas 1		1	OKVRCOKlahoma	H-101	CO	Sample #3	10/22/1998		9.36E-03	-4.67E+00	/Refinery gas/							100.00				
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #1	10/20/1998		3.46E-01	-1.06E+00	/Refinery gas/							100.00				
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #1	10/21/1998		1.01E-02	-4.59E+00	/Refinery gas/							100.00				
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #2	12/3/1997		1.74E-01	-1.75E+00	/Refinery gas/							100.00				
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #2	12/3/1997		1.04E-01	-2.27E+00	/Refinery gas/							100.00				
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #2	10/20/1998		9.43E+00	2.24E+00	/Refinery gas/							100.00				
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #3	10/20/1998		2.04E+01	3.02E+00	/Refinery gas/							100.00				
YES	Gas 1		3	TXRohmHaasDeerPark	ACET-2B-4	CO	Sample #1	11/29/2006	ND	1.00E-02	-4.61E+00	/Refinery gas/							100.00				
YES	Gas 1		3	TXRohmHaasDeerPark	ACET-2B-4	CO	Sample #1	11/30/2006		1.96E+00	6.73E-01	/Natural gas/							100.00				
YES	Gas 1		3	TXRohmHaasDeerPark	ACET-2B-4	CO	Sample #2	11/30/2006		4.16E+00	1.43E+00	/Natural gas/							100.00				
YES	Gas 1		3	TXRohmHaasDeerPark	ACET-2B-4	CO	Sample #2	11/29/2006	ND	2.00E-02	-3.91E+00	/Refinery gas/							100.00				
YES	Gas 1		3	TXRohmHaasDeerPark	ACET-2B-4	CO	Sample #3	11/30/2006		4.91E+00	1.59E+00	/Natural gas/							100.00				
YES	Gas 1		3	TXRohmHaasDeerPark	ACET-2B-4	CO	Sample #3	11/29/2006	ND	1.00E-02	-4.61E+00	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #1	7/7/2006		6.40E-01	-4.46E-01	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #1	10/5/2006		3.00E-01	-1.20E+00	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #1	5/9/2007		1.16E+00	1.48E-01	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #1	6/4/2008		1.19E+01	2.48E+00	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #2	5/24/2006		4.00E-02	-3.22E+00	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #2	10/5/2006		1.56E+00	4.45E-01	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #2	5/9/2007		9.60E-01	-4.08E-02	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #2	5/11/2006		1.00E-02	-4.61E+00	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #3	5/11/2006		3.00E-02	-3.51E+00	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #3	5/24/2006		2.24E+00	8.06E-01	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #3	10/5/2006		2.57E+00	9.44E-01	/Refinery gas/							100.00				
YES	Gas 1		4	OKConocoPhillipsPoncaCity	H-9902	CO	Sample #3	5/9/2007		1.23E+00	2.07E-01	/Refinery gas/							100.00				
YES	Gas 1		5	TXDiamondShamrockThreeRivers	H-201	CO	Sample #1	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		5	TXDiamondShamrockThreeRivers	H-201	CO	Sample #2	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		5	TXDiamondShamrockThreeRivers	H-201	CO	Sample #3	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		6	TXDiamondShamrockThreeRivers	H-203	CO	Sample #1	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		6	TXDiamondShamrockThreeRivers	H-203	CO	Sample #2	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		6	TXDiamondShamrockThreeRivers	H-203	CO	Sample #3	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		7	TXDiamondShamrockThreeRivers	H-204	CO	Sample #1	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		7	TXDiamondShamrockThreeRivers	H-204	CO	Sample #2	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		7	TXDiamondShamrockThreeRivers	H-204	CO	Sample #3	7/3/1997		2.71E-02	-3.61E+00	/Refinery gas/							100.00				
YES	Gas 1		8	VAVesternRefiningYorktown	F-562	CO	Sample #1	3/7/2007		3.94E-02	-3.23E+00	/Refinery gas/							100.00				
YES	Gas 1		9	OKConocoPhillipsPoncaCity	H-9851	CO	Sample #1	6/5/2008		4.00E-02	-3.22E+00	/Process gas/Refinery gas/							98.62	1.38			
YES	Gas 1		9	OKConocoPhillipsPoncaCity	H-9851	CO	Sample #1	5/4/2006		5.00E-02	-3.00E+00	/Process gas/Refinery gas/							98.77	1.23			
YES	Gas 1		9	OKConocoPhillipsPoncaCity	H-9851	CO	Sample #2	5/4/2006		1.10E-01	-2.21E+00	/Process gas/Refinery gas/							98.77	1.23			
YES	Gas 1		9	OKConocoPhillipsPoncaCity	H-9851	CO	Sample #3	5/4/2006		1.00E-01	-2.30E+00	/Process gas/Refinery gas/							98.77	1.23			
YES	Gas 1		10	INBPWhitingRefinery	B-601	CO	Sample #1	8/20/2007		1.10E-01	-2.21E+00	/Natural gas/							100.00				
YES	Gas 1		10	INBPWhitingRefinery	B-601	CO	Sample #2	8/20/2007	ND	1.00E-02	-4.61E+00	/Natural gas/							100.00				
YES	Gas 1		10	INBPWhitingRefinery	B-601	CO	Sample #3	8/20/2007	ND	1.00E-02	-4.61E+00	/Natural gas/							100.00				
YES	Gas 1		11	OKConocoPhillipsPoncaCity	H-0016	CO	Sample #1	4/6/2005		6.00E-02	-2.81E+00	/Refinery gas/							100.00				
YES	Gas 1		11	OKConocoPhillipsPoncaCity	H-0016	CO	Sample #2	4/6/2005		2.00E-02	-3.91E+00	/Refinery gas/							100.00				
YES	Gas 1		11	OKConocoPhillipsPoncaCity	H-0016	CO	Sample #3	4/6/2005		5.00E-02	-3.00E+00	/Refinery gas/							100.00				
YES	Gas 1		12	TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	Sample #1	3/5/1991	ND	5.06E-02	-2.98E+00	/Natural gas/							100.00				
YES	Gas 1		12	TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	Sample #2	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/							100.00				

Appendix C-7: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor Fuel/Cat	Metal Furnace?	Rank	Facility/D	Combustor/D _common	Pollutant	TestID	TestDate_co mmon	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Gas 1		12	TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	Sample #3	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		13	TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	Sample #1	3/5/1991	ND	5.06E-02	-2.98E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		13	TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	Sample #2	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		13	TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	Sample #3	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	Sample #1	3/5/1991	ND	5.06E-02	-2.98E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	Sample #2	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		14	TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	Sample #3	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	Sample #1	3/5/1991	ND	5.06E-02	-2.98E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	Sample #2	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		15	TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	Sample #3	3/5/1991	ND	5.00E-02	-3.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		16	MSChevronPascagoula	F-2103	CO	Sample #1	3/27/2008		5.41E-02	-2.92E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		16	MSChevronPascagoula	F-2103	CO	Sample #2	3/27/2008		5.41E-02	-2.92E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		16	MSChevronPascagoula	F-2103	CO	Sample #3	3/27/2008		5.41E-02	-2.92E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		17	TXDiamondShamrockThreeRivers	H-1102	CO	Sample #1	7/9/1997		6.77E-02	-2.69E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		17	TXDiamondShamrockThreeRivers	H-1102	CO	Sample #2	7/9/1997		6.77E-02	-2.69E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		17	TXDiamondShamrockThreeRivers	H-1102	CO	Sample #3	7/9/1997		5.41E-02	-2.92E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		18	NJSunocoWestville	Boiler #8	CO	Sample #1	10/15/2007		7.89E-02	-2.54E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		18	NJSunocoWestville	Boiler #8	CO	Sample #2	10/15/2007		7.89E-02	-2.54E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		18	NJSunocoWestville	Boiler #8	CO	Sample #3	10/15/2007		3.95E-02	-3.23E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		19	ILAkzoNobelMorris	B-1 Nebraska Boiler	CO	Sample #1	3/20/2002		5.87E-02	-2.84E+00	/Natural gas/Nitrile Pitch Residue/	-	-	-	-	-	-	85.71	-	14.29	-
YES	Gas 1		19	ILAkzoNobelMorris	B-1 Nebraska Boiler	CO	Sample #1	7/28/2009		1.34E+00	2.91E-01	/Natural gas/Nitrile Pitch Residue/	-	-	-	-	-	-	85.71	-	14.29	-
YES	Gas 1		19	ILAkzoNobelMorris	B-1 Nebraska Boiler	CO	Sample #2	3/20/2002		4.24E-02	-3.16E+00	/Natural gas/Nitrile Pitch Residue/	-	-	-	-	-	-	88.10	-	11.90	-
YES	Gas 1		19	ILAkzoNobelMorris	B-1 Nebraska Boiler	CO	Sample #2	7/28/2009		8.18E-01	-2.00E-01	/Natural gas/Nitrile Pitch Residue/	-	-	-	-	-	-	88.10	-	11.90	-
YES	Gas 1		19	ILAkzoNobelMorris	B-1 Nebraska Boiler	CO	Sample #3	3/20/2002		1.19E-01	-2.13E+00	/Natural gas/Nitrile Pitch Residue/	-	-	-	-	-	-	87.80	-	12.20	-
YES	Gas 1		19	ILAkzoNobelMorris	B-1 Nebraska Boiler	CO	Sample #3	7/29/2009		1.23E-01	-2.10E+00	/Natural gas/Nitrile Pitch Residue/	-	-	-	-	-	-	87.80	-	12.20	-
YES	Gas 1		20	KYCatlettsburgRefining	2-23-B-4	CO	Sample #1	8/12/2005	ND	7.72E-02	-2.56E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		20	KYCatlettsburgRefining	2-23-B-4	CO	Sample #1	4/21/2004		4.12E-01	-8.87E-01	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-

Appendix C-7: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant	TestID	TestDate_common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Gas 1		38	TXValeroTexasCity	Heater 35	CO	Sample #2	3/14/2007	ND	1.00E-01	-2.30E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		38	TXValeroTexasCity	Heater 35	CO	Sample #3	3/14/2007	ND	1.00E-01	-2.30E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		39	TXValeroTexasCity	Heater 44	CO	Sample #1	1/6/2000	ND	1.00E-01	-2.30E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		39	TXValeroTexasCity	Heater 44	CO	Sample #2	1/6/2000	ND	1.00E-01	-2.30E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		39	TXValeroTexasCity	Heater 44	CO	Sample #3	1/6/2000	ND	1.00E-01	-2.30E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		40	LAWestlakeStyrene	1-90	CO	Sample #1	11/10/1992	ND	1.01E-01	-2.29E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		40	LAWestlakeStyrene	1-90	CO	Sample #2	11/10/1992	ND	1.02E-01	-2.29E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		40	LAWestlakeStyrene	1-90	CO	Sample #3	11/10/1992		1.00E-01	-2.30E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		41	OREvrazOregonSteel	EU-5 Vacuum Degasser Boiler	CO	Sample #3	4/25/2003		1.02E-01	-2.29E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #1	9/12/2000	ND	1.02E-01	-2.28E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #1	9/13/2000	ND	1.35E-01	-2.00E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #1	9/12/2000	ND	1.02E-01	-2.28E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #2	9/13/2000	ND	9.30E-02	-2.38E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #2	9/12/2000	ND	1.02E-01	-2.28E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #3	9/12/2000		5.60E+01	4.03E+00	/Natural gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		43	TXValeroTexasCity	Heater 45	CO	Sample #1	4/3/2001	ND	1.05E-01	-2.26E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		43	TXValeroTexasCity	Heater 45	CO	Sample #2	4/3/2001	ND	1.09E-01	-2.22E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		43	TXValeroTexasCity	Heater 45	CO	Sample #3	4/3/2001	ND	1.10E-01	-2.20E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		44	MSChevronPascagoula	F-8400	CO	Sample #1	11/7/2007		1.08E-01	-2.22E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		44	MSChevronPascagoula	F-8400	CO	Sample #2	11/7/2007		1.08E-01	-2.22E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		44	MSChevronPascagoula	F-8400	CO	Sample #3	11/7/2007		1.13E-01	-2.18E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		45	TXValeroTexasCity	Heater 46	CO	Sample #1	4/4/2001	ND	1.10E-01	-2.21E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		45	TXValeroTexasCity	Heater 46	CO	Sample #2	4/4/2001	ND	1.09E-01	-2.22E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		45	TXValeroTexasCity	Heater 46	CO	Sample #3	4/4/2001	ND	1.10E-01	-2.20E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #1	8/10/2005	ND	1.14E-01	-2.18E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #1	4/23/2004		5.27E-01	-6.40E-01	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #2	8/10/2005	ND	1.17E-01	-2.15E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #3	8/10/2005	ND	1.19E-01	-2.13E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		47	LAShellChemicaGeismar	Furnace F-S2801	CO	Sample #1	2/14/2006	ND	1.01E-01	-2.29E+00	/Heavy Recycle/Natural gas/Petrochemical process gas/	-	-	-	-	-	-	54.09	29.41	16.50	-
YES	Gas 1		47	LAShellChemicaGeismar	Furnace F-S2801	CO	Sample #2	2/14/2006	ND	1.19E-01	-2.13E+00	/Heavy Recycle/Natural gas/Petrochemical process gas/	-	-	-	-	-	-	54.09	29.41	16.50	-
YES	Gas 1		47	LAShellChemicaGeismar	Furnace F-S2801	CO	Sample #3	2/14/2006	ND	1.33E-01	-2.02E+00	/Heavy Recycle/Natural gas/Petrochemical process gas/	-	-	-	-	-	-	54.09	29.41	16.50	-
YES	Gas 1		48	KYCatlettsburgRefining	2-23-B-3	CO	Sample #1	8/16/2005	ND	1.19E-01	-2.13E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		48	KYCatlettsburgRefining	2-23-B-3	CO	Sample #2	8/16/2005	ND	1.17E-01	-2.14E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		48	KYCatlettsburgRefining	2-23-B-3	CO	Sample #3	8/16/2005	ND	1.18E-01	-2.13E+00	/Refinery gas/	-	-	-	-	-	-	100.00	-	-	-

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	Pollutant _Name	TestID	TestDate _common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %	
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #2	1/9/2002		3.98E+02	5.99E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #2	12/17/1999		1.53E+02	5.03E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #2	11/15/2002		1.71E+02	5.14E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #2	1/24/2008		2.76E+02	5.62E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #2	12/30/2003		4.83E+02	6.18E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	1/5/2006		2.22E+02	5.40E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	5/5/2005		1.84E+02	5.21E+00	/Bagasse/Wood: Unadulterated Lumber/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	1/9/2002		7.49E+02	6.62E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	12/30/2003		4.40E+02	6.09E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	1/24/2008		6.10E+02	6.41E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	2/8/1999		2.07E+02	5.33E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	1/31/2000		4.24E+02	6.05E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	11/15/2002		1.45E+02	4.98E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	1/5/2001		1.91E+01	2.95E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	12/17/1999		2.56E+02	5.55E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	1/25/2007		1.36E+02	4.92E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarCorp	Boiler No. 7	CO	Sample #3	2/4/2005		1.42E+02	4.95E+00	/Bagasse/	-	100.00	-	-	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	2	TXDibollTemple-Inland	PB-44	CO	Sample #1	6/29/2007		8.61E+01	4.46E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	2	TXDibollTemple-Inland	PB-44	CO	Sample #2	6/29/2007		3.99E+01	3.69E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-	-

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	Pollutant _Name	TestID	TestDate _common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass	Dutch Oven/Susp. Burner	2	TXDibollTemple-Inland	PB-44	CO	Sample #3	6/29/2007		8.19E+01	4.41E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #1	6/22/2006		1.72E+03	7.45E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #1	8/11/2009		1.80E+02	5.19E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #1	8/11/2009		1.68E+02	5.12E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #2	8/11/2009		3.25E+02	5.78E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #2	6/22/2006		7.65E+02	6.64E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #2	8/11/2009		3.15E+02	5.75E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #3	8/12/2009		2.79E+02	5.63E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #3	8/12/2009		2.74E+02	5.61E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	3	WAGraysHarborP	No. 6 Boiler (EU2)	CO	Sample #3	6/22/2006		4.92E+02	6.20E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacific WaunaMill	EU35 - Fluidized Bed Boiler	CO	2	7/14/2009		2.73E+01	3.31E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacific WaunaMill	EU35 - Fluidized Bed Boiler	CO	3	7/15/2009		3.03E+01	3.41E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacific WaunaMill	EU35 - Fluidized Bed Boiler	CO	4	7/15/2009		2.55E+01	3.24E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacific WaunaMill	EU35 - Fluidized Bed Boiler	CO	Sample #1	3/27/2007		2.82E+01	3.34E+00	/Hog Fuel/Industrial Sludge/Natural gas/	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacific WaunaMill	EU35 - Fluidized Bed Boiler	CO	Sample #2	3/27/2007		2.14E+01	3.06E+00	/Hog Fuel/Industrial Sludge/Natural gas/	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacific WaunaMill	EU35 - Fluidized Bed Boiler	CO	Sample #3	3/27/2007		2.21E+01	3.10E+00	/Hog Fuel/Industrial Sludge/Natural gas/	-	-	-	63.71	18.74	-	17.55	-	-	-
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boier / 11CU301	CO	Sample #1	8/13/1999		3.60E+01	3.58E+00	/Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	-	-	-	-	-	-	-	-
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boier / 11CU301	CO	Sample #1	7/8/2009		1.39E+02	4.94E+00	Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	-	8.61

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %	
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11CU301	CO	Sample #2	7/9/2009		3.04E+02	5.72E+00	Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	-	-	8.61
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11CU301	CO	Sample #2	8/13/1999		3.60E+01	3.58E+00	/Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark/											
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11CU301	CO	Sample #3	8/13/1999		4.74E+01	3.86E+00	/Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark/											
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11CU301	CO	Sample #3	7/10/2009		3.48E+02	5.85E+00	Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	-	-	8.61
YES	Biomass	FB	3	TNDomtar2384	HFB1-1	CO	1	9/16/2009		9.10E+01	4.51E+00	Hog Fuel/Industrial Sludge	-	-	-	99.43	0.57	-	-	-	-	-	-
YES	Biomass	FB	3	TNDomtar2384	HFB1-1	CO	2	9/16/2009		8.03E+01	4.39E+00	Hog Fuel/Industrial Sludge	-	-	-	99.43	0.57	-	-	-	-	-	-
YES	Biomass	FB	3	TNDomtar2384	HFB1-1	CO	3	9/17/2009		7.39E+01	4.30E+00	Hog Fuel/Industrial Sludge	-	-	-	99.43	0.57	-	-	-	-	-	-
YES	Biomass	FB	4	GATempleInland Rome	WF	CO	Sample #1	7/29/2009		1.36E+02	4.91E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass	FB	4	GATempleInland Rome	WF	CO	Sample #1	7/22/2008		7.54E+01	4.32E+00	/Industrial Sludge/Tire Derived Fuel (TDF)/Used Petroleum-based Oils (on-spec)/Wood: Bark/											
YES	Biomass	FB	4	GATempleInland Rome	WF	CO	Sample #2	7/29/2009		6.09E+01	4.11E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass	FB	4	GATempleInland Rome	WF	CO	Sample #2	7/22/2008		1.47E+02	4.99E+00	/Industrial Sludge/Tire Derived Fuel (TDF)/Used Petroleum-based Oils (on-spec)/Wood: Bark/											
YES	Biomass	FB	4	GATempleInland Rome	WF	CO	Sample #3	7/30/2009		9.92E+01	4.60E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-	-
YES	Biomass	FB	4	GATempleInland Rome	WF	CO	Sample #3	7/22/2008		1.65E+02	5.11E+00	/Industrial Sludge/Tire Derived Fuel (TDF)/Used Petroleum-based Oils (on-spec)/Wood: Bark/											
YES	Biomass	FB	5	KYDomtarHawesville	Biofuel Boiler B-900	CO	Sample #1	12/18/1998		1.27E+02	4.84E+00	/Hog Fuel/Natural gas/	-	-	-	84.75	-	-	15.25	-	-	-	-
YES	Biomass	FB	5	KYDomtarHawesville	Biofuel Boiler B-900	CO	Sample #2	12/18/1998		1.05E+02	4.65E+00	/Hog Fuel/Natural gas/	-	-	-	84.75	-	-	15.25	-	-	-	-
YES	Biomass	FB	5	KYDomtarHawesville	Biofuel Boiler B-900	CO	Sample #3	12/18/1998		1.03E+02	4.64E+00	/Hog Fuel/Natural gas/	-	-	-	84.75	-	-	15.25	-	-	-	-
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #1	6/18/2008		5.87E+01	4.07E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #1	6/19/2008		5.36E+01	3.98E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #2	6/19/2008		1.30E+02	4.87E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #2	6/18/2008		5.61E+01	4.03E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #2	6/18/2008		1.72E+02	5.15E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #3	6/19/2008		6.25E+01	4.14E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %	
YES	Biomass	Fuel Cell	1	KYWeyerhaeuser EKY	MP 01-01	CO	Sample #3	6/18/2008		2.33E+02	5.45E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #1	6/19/2008		5.36E+01	3.98E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #1	6/18/2008		5.87E+01	4.07E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #2	6/18/2008		5.61E+01	4.03E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #2	6/18/2008		1.72E+02	5.15E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #2	6/19/2008		1.30E+02	4.87E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #3	6/18/2008		2.33E+02	5.45E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	KYWeyerhaeuser EKY	MP 01-03	CO	Sample #3	6/19/2008		6.25E+01	4.14E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #1	8/11/2009		4.98E+01	3.91E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #1	7/17/2009		7.67E+01	4.34E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #1	9/28/2004		7.13E+01	4.27E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #1	12/3/2003		1.90E+02	5.25E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #2	7/17/2009		3.45E+01	3.54E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #2	8/12/2009		2.03E+02	5.31E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #2	12/3/2003		2.50E+02	5.52E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #2	9/28/2004		6.45E+01	4.17E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #3	8/12/2009		1.61E+02	5.08E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #3	9/28/2004		6.21E+01	4.13E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #3	7/20/2009		7.51E+01	4.32E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	ARWeyerhaeuser DierksMill	SN-45	CO	Sample #3	12/3/2003		2.75E+02	5.62E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #1	8/12/2009		1.55E+02	5.04E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #1	11/10/2004		1.19E+02	4.78E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #1	9/18/1996		1.10E+02	4.70E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #2	8/13/2009		3.10E+02	5.74E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #2	9/18/1996		1.26E+02	4.83E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #2	11/10/2004		1.18E+02	4.77E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #3	11/10/2004		1.12E+02	4.72E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #3	8/13/2009		3.09E+02	5.73E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_r_Raymond	Hog Fuel Boiler EU1	CO	Sample #3	9/18/1996		1.43E+02	4.96E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-	-

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	Pollutant _Name	TestID	TestDate _common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass	Fuel Cell	5	WVGPMtHopeOS B	5600 - Wellons Energy System	CO	Sample #1	7/11/2006		6.76E+01	4.21E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	5	WVGPMtHopeOS B	5600 - Wellons Energy System	CO	Sample #2	7/11/2006		2.23E+02	5.41E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	5	WVGPMtHopeOS B	5600 - Wellons Energy System	CO	Sample #3	7/11/2006		9.04E+01	4.50E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	1	GATempleInland Thomson	BW-B001	CO	Sample #1	1/30/2003		5.49E+00	1.70E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	1	GATempleInland Thomson	BW-B001	CO	Sample #1	12/7/2004		8.16E+02	6.70E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	1	GATempleInland Thomson	BW-B001	CO	Sample #2	1/30/2003		1.40E+00	3.39E-01	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	1	GATempleInland Thomson	BW-B001	CO	Sample #2	12/7/2004		1.91E+03	7.56E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	1	GATempleInland Thomson	BW-B001	CO	Sample #3	12/7/2004		2.78E+03	7.93E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	1	GATempleInland Thomson	BW-B001	CO	Sample #3	1/30/2003		5.36E+00	1.68E+00	/Wood: Plywood, Particleboard (containing glues or resins)/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	2	WVWeyerhaeuserBuckhannon	001-01	CO	Sample #1	8/23/2005		4.23E+01	3.74E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	2	WVWeyerhaeuserBuckhannon	001-01	CO	Sample #2	8/23/2005		1.36E+01	2.61E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	2	WVWeyerhaeuserBuckhannon	001-01	CO	Sample #3	8/23/2005		1.25E+01	2.53E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	3	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	CO	1	8/18/2009		6.71E+01	4.21E+00	Hog Fuel/Natural gas	-	-	-	78.83	-	-	21.17	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	3	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	CO	2	8/18/2009		4.23E+00	1.44E+00	Hog Fuel/Natural gas	-	-	-	78.83	-	-	21.17	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	3	WAKimberlyClarkEverett	No. 14 Cogeneration Boiler	CO	3	8/19/2009		3.05E+01	3.42E+00	Hog Fuel/Natural gas	-	-	-	78.83	-	-	21.17	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	4	IDChilcoLakeSawmill	HFB1	CO	Sample #1	3/30/2005		5.44E+01	4.00E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	4	IDChilcoLakeSawmill	HFB1	CO	Sample #2	3/30/2005		4.77E+01	3.86E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	4	IDChilcoLakeSawmill	HFB1	CO	Sample #3	3/30/2005		5.10E+01	3.93E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass	Stoker/SlopedGrate/Other	5	ARWestFraserHuttig	SN-24	CO	Sample #1	3/1/2005		6.21E+01	4.13E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	5	ARWestFraserHuttig	SN-24	CO	Sample #2	3/1/2005		7.66E+01	4.34E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	5	ARWestFraserHuttig	SN-24	CO	Sample #3	3/1/2005		5.57E+01	4.02E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	6	MILPCSagola	TOH-Wood	CO	Sample #1	3/12/2008		5.18E+01	3.95E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	6	MILPCSagola	TOH-Wood	CO	Sample #2	3/12/2008		5.61E+01	4.03E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	6	MILPCSagola	TOH-Wood	CO	Sample #3	3/12/2008		9.60E+01	4.56E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	7	INConsolidatedGrainandBarge	P17B	CO	Sample #1	3/5/2008		7.14E+01	4.27E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	7	INConsolidatedGrainandBarge	P17B	CO	Sample #2	3/5/2008		1.11E+02	4.71E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	7	INConsolidatedGrainandBarge	P17B	CO	Sample #3	3/5/2008		7.91E+01	4.37E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	8	INConsolidatedGrainandBarge	P17C	CO	Sample #1	3/5/2008		7.14E+01	4.27E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	8	INConsolidatedGrainandBarge	P17C	CO	Sample #2	3/5/2008		1.11E+02	4.71E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	8	INConsolidatedGrainandBarge	P17C	CO	Sample #3	3/5/2008		7.91E+01	4.37E+00	/Wood: Unadulterated Lumber/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #1	6/16/2007		1.61E+02	5.08E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	87.59	-	-	12.41	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #1	4/22/2008		8.60E+01	4.45E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #1	4/23/2008		1.29E+02	4.86E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #2	4/22/2008		9.19E+01	4.52E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #2	6/16/2007		2.36E+02	5.47E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	87.59	-	-	12.41	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #2	4/23/2008		1.08E+02	4.68E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #3	6/16/2007		9.05E+01	4.51E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	87.59	-	-	12.41	-	-	-

Appendix C-8: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ppm @ 3% O2	In (ppm @ 3% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #3	4/23/2008		1.23E+02	4.81E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	9	MNAndersonCorp Bayport	Boiler 11 EU620	CO	Sample #3	4/22/2008		9.96E+01	4.60E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #1	4/22/2008		9.29E+01	4.53E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #1	4/23/2008		1.30E+02	4.87E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #1	6/16/2007		1.61E+02	5.08E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	87.59	-	-	12.41	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #2	4/22/2008		9.77E+01	4.58E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #2	6/16/2007		2.36E+02	5.47E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	87.59	-	-	12.41	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #2	4/23/2008		1.06E+02	4.66E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #3	6/16/2007		9.05E+01	4.51E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	87.59	-	-	12.41	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #3	4/23/2008		1.23E+02	4.81E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	93.13	-	-	6.87	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	10	MNAndersonCorp Bayport	Boiler 12 EU621	CO	Sample #3	4/22/2008		1.08E+02	4.69E+00	/Natural gas/Wood: Unadulterated Lumber/	-	-	-	92.11	-	-	7.89	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	11	MSGPNewAugusta	AA-015 Power Boiler	CO	Sample #1	9/12/2007		5.46E+01	4.00E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	11	MSGPNewAugusta	AA-015 Power Boiler	CO	Sample #2	9/12/2007		4.12E+01	3.72E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	11	MSGPNewAugusta	AA-015 Power Boiler	CO	Sample #3	9/12/2007		2.10E+02	5.35E+00	/Hog Fuel/	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Stoker/SlopedGrate/Other	12	KYNewPage-Wickliffe	B09	CO	1	10/28/2009		1.28E+02	4.86E+00	Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	83.68	-	-	-	13.35	-	-	2.97
YES	Biomass	Stoker/SlopedGrate/Other	12	KYNewPage-Wickliffe	B09	CO	2	10/29/2009		1.10E+02	4.70E+00	Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	83.68	-	-	-	13.35	-	-	2.97
YES	Biomass	Stoker/SlopedGrate/Other	12	KYNewPage-Wickliffe	B09	CO	3	10/29/2009		1.00E+02	4.61E+00	Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	83.68	-	-	-	13.35	-	-	2.97
YES	Biomass	Stoker/SlopedGrate/Other	12	KYNewPage-Wickliffe	B09	CO	Sample #1	9/28/2005		3.68E+02	5.91E+00	/Tire Derived Fuel (TDF)/Wood: Bark/	-	-	87.59	-	-	-	-	-	-	12.41
YES	Biomass	Stoker/SlopedGrate/Other	12	KYNewPage-Wickliffe	B09	CO	Sample #1	9/29/2008		2.95E+02	5.69E+00	/Wood: Bark/	-	-	100.00	-	-	-	-	-	-	-

Appendix C-9: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ng/dscm @ 7% O2	In (ng/dscm @ 7% O2)	Fuel	Coal %	Bagasse %	WetBiomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Gas 1		1	ILAkzoNobelMorris	B-1 Nebraska Boiler	D/F Total Mass	Sample #1	7/29/2009	DLL	6.21E-02	-2.78E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	ILAkzoNobelMorris	B-1 Nebraska Boiler	D/F Total Mass	Sample #2	7/30/2009	BDL	1.51E-01	-1.89E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	ILAkzoNobelMorris	B-1 Nebraska Boiler	D/F Total Mass	Sample #3	7/31/2009	BDL	1.51E-01	-1.89E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	yes	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	D/F Total Mass	Sample #1	8/25/2009	BDL	1.27E-02	-4.37E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	yes	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	D/F Total Mass	Sample #2	8/25/2009	DLL	1.27E-02	-4.37E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	yes	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	D/F Total Mass	Sample #3	8/26/2009	BDL	1.27E-02	-4.37E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 2		1	INTateLyleSagamore	21B501	D/F Total Mass	Sample #1	8/25/2009	DLL	6.46E-02	-2.74E+00	Biogas/Natural gas	-	-	-	-	-	-	66.67	33.33	-	-
YES	Gas 2		1	INTateLyleSagamore	21B501	D/F Total Mass	Sample #2	8/26/2009	DLL	2.41E-02	-3.73E+00	Biogas/Natural gas	-	-	-	-	-	-	66.67	33.33	-	-
YES	Gas 2		1	INTateLyleSagamore	21B501	D/F Total Mass	Sample #3	8/27/2009	DLL	4.64E-02	-3.07E+00	Biogas/Natural gas	-	-	-	-	-	-	66.67	33.33	-	-
YES	Liquid		1	SCMilliken-Dewey	D30	D/F Total Mass	Sample #1	8/11/2009	BDL	2.18E-05	-1.07E+01	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		1	SCMilliken-Dewey	D30	D/F Total Mass	Sample #2	8/11/2009	BDL	2.18E-05	-1.07E+01	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		1	SCMilliken-Dewey	D30	D/F Total Mass	Sample #3	8/1/2009	BDL	2.18E-05	-1.07E+01	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	NYConEd59thStStationNewYork	Boiler 118	D/F Total Mass	Sample #1	8/19/2009	DLL	2.05E-03	-6.19E+00	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	NYConEd59thStStationNewYork	Boiler 118	D/F Total Mass	Sample #2	8/19/2009	DLL	1.93E-03	-6.25E+00	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	NYConEd59thStStationNewYork	Boiler 118	D/F Total Mass	Sample #3	8/19/2009	DLL	1.33E-03	-6.62E+00	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		3	CTElectric Boat	EMU 17	D/F Total Mass	Sample #1	8/19/2009		9.90E-03	-4.62E+00	No. 4 Fuel oil	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		3	CTElectric Boat	EMU 17	D/F Total Mass	Sample #2	8/20/2009		8.80E-03	-4.73E+00	No. 4 Fuel oil	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		3	CTElectric Boat	EMU 17	D/F Total Mass	Sample #3	8/20/2009		7.90E-03	-4.84E+00	No. 4 Fuel oil	-	-	-	-	-	100.00	-	-	-	-

Appendix C-10: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant	TestID	TestDate_common	Non-Detect?	ng/dscm @ 7% O2	In (ng/dscm @ 7% O2)	ND?	Fuel	Coal %	Bagasse %	Wet Biomass%	Dry Biomass%	Heavy Liquid%	Light Liquid %	Gas 1%	Gas 2%	Other%	Waste %
YES	Biomass	Dutch Oven/Susp. Burner	1	ORFlakeboardEugene	Boiler-2	D/F Total Mass	M23-1	8/25/2009	DLL	1.76E-01	-1.74E+00		Natural gas/Wood: Unadulterated Lumber	-	-	-	30.60	-	-	69.40	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	ORFlakeboardEugene	Boiler-2	D/F Total Mass	M23-2	8/25/2009	DLL	9.37E-02	-2.37E+00		Natural gas/Wood: Unadulterated Lumber	-	-	-	30.60	-	-	69.40	-	-	-
YES	Biomass	Dutch Oven/Susp. Burner	1	ORFlakeboardEugene	Boiler-2	D/F Total Mass	M23-3	8/26/2009	DLL	2.19E-01	-1.52E+00		Natural gas/Wood: Unadulterated Lumber	-	-	-	30.60	-	-	69.40	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacificWauna Mill	EU35- Fluidized Bed Boiler	D/F Total Mass	Sample #1	7/14/2009	DLL	2.30E-02	-3.77E+00		Hog Fuel/Industrial Sludge/Natural gas	-	-	-	76.28	20.70	-	3.02	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacificWauna Mill	EU35- Fluidized Bed Boiler	D/F Total Mass	Sample #2	7/15/2009	DLL	4.25E-02	-3.16E+00		Hog Fuel/Industrial Sludge/Natural gas	-	-	-	76.28	20.70	-	3.02	-	-	-
YES	Biomass	FB	1	ORGeorgiaPacificWauna Mill	EU35- Fluidized Bed Boiler	D/F Total Mass	Sample #3	7/15/2009	DLL	2.45E-02	-3.71E+00		Hog Fuel/Industrial Sludge/Natural gas	-	-	-	76.28	20.70	-	3.02	-	-	-
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11Cu301	D/F Total Mass	Sample #1	7/8/2009	DLL	5.36E-02	-2.93E+00		Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	8.61	-
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11Cu301	D/F Total Mass	Sample #2	7/9/2009	DLL	8.00E-02	-2.53E+00		Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	8.61	-
YES	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11Cu301	D/F Total Mass	Sample #3	7/10/2009	DLL	1.93E-01	-1.65E+00		Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	8.61	-
YES	Biomass	FB	3	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	D/F Total Mass	Sample #1	8/27/2009	DLL	4.76E-01	-7.42E-01		Biomass	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	FB	3	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	D/F Total Mass	Sample #2	8/29/2009	DLL	3.57E-02	-3.33E+00		Biomass	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	FB	3	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	D/F Total Mass	Sample #3	8/29/2009	DLL	3.76E-02	-3.28E+00		Biomass	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	FB	4	TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	D/F Total Mass	Sample #1	8/5/2009	DLL	1.40E-01	-1.97E+00		Biomass/Tire Derived Fuel (TDF)/Wood: Bark	-	-	93.79	2.59	-	-	-	-	3.62	-
YES	Biomass	FB	4	TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	D/F Total Mass	Sample #2	8/5/2009	DLL	2.20E-01	-1.51E+00		Biomass/Tire Derived Fuel (TDF)/Wood: Bark	-	-	93.79	2.59	-	-	-	-	3.62	-
YES	Biomass	FB	4	TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	D/F Total Mass	Sample #3	8/6/2009	DLL	2.10E-01	-1.56E+00		Biomass/Tire Derived Fuel (TDF)/Wood: Bark	-	-	93.79	2.59	-	-	-	-	3.62	-
YES	Biomass	FB	5	GATempleInlandRome	WF	D/F Total Mass	Sample #1	7/29/2009	DLL	1.24E+00	2.13E-01		1 Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	FB	5	GATempleInlandRome	WF	D/F Total Mass	Sample #2	7/29/2009	DLL	2.09E-01	-1.56E+00		1 Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	FB	5	GATempleInlandRome	WF	D/F Total Mass	Sample #3	7/30/2009	DLL	2.32E-01	-1.46E+00		1 Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	ARWeyerhaeuserDierksMill	SN-45	D/F Total Mass	Sample #1	7/17/2009	DLL	2.01E-02	-3.91E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	ARWeyerhaeuserDierksMill	SN-45	D/F Total Mass	Sample #2	7/17/2009	DLL	3.85E-04	-7.86E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	1	ARWeyerhaeuserDierksMill	SN-45	D/F Total Mass	Sample #3	7/20/2009	DLL	3.31E-02	-3.41E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	D/F Total Mass	Sample #1	8/12/2009	DLL	3.85E-02	-3.26E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	D/F Total Mass	Sample #2	8/13/2009	DLL	3.78E-02	-3.28E+00		0 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	2	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	D/F Total Mass	Sample #3	8/13/2009	DLL	1.94E-02	-3.94E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	D/F Total Mass	Sample #1	8/4/2009	DLL	2.14E-01	-1.54E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	D/F Total Mass	Sample #2	8/4/2009	DLL	1.36E-01	-2.00E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	3	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	D/F Total Mass	Sample #3	8/4/2009	DLL	1.51E-01	-1.89E+00		1 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	4	ORWeyerhaeuserCoWarrontonLumberMill	3-HFB	D/F Total Mass	Sample #2	8/6/2009	DLL	3.07E-01	-1.18E+00		0 Hog Fuel	-	-	-	100.00	-	-	-	-	-	-
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	D/F Total Mass	Sample #1	9/2/2009	DLL	4.97E-01	-6.99E-01		Wood: Bark/Wood: Unadulterated Lumber/Wood: Unadulterated Timber	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	D/F Total Mass	Sample #2	9/2/2009	DLL	3.58E-01	-1.03E+00		Wood: Bark/Wood: Unadulterated Lumber/Wood: Unadulterated Timber	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	D/F Total Mass	Sample #3	9/3/2009	DLL	8.40E-01	-1.75E-01		Wood: Bark/Wood: Unadulterated Lumber/Wood: Unadulterated Timber	-	-	100.00	-	-	-	-	-	-	-

Appendix C-10: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant	TestID	TestDate_common	Non-Detected?	ng/dscm @ 7% O ₂	In (ng/dscm @ 7% O ₂)	ND?	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Biomass	Stoker/Sloped Grate/Other	1	GAGPMadisonPly	800 Wood Waste Boiler	D/F Total Mass	Sample #1	8/13/2009	DLL	4.61E-02	-3.08E+00		1 Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/Sloped Grate/Other	1	GAGPMadisonPly	800 Wood Waste Boiler	D/F Total Mass	Sample #2	8/14/2009	DLL	2.22E-02	-3.81E+00		1 Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/Sloped Grate/Other	1	GAGPMadisonPly	800 Wood Waste Boiler	D/F Total Mass	Sample #3	8/14/2009	DLL	1.95E-02	-3.94E+00		1 Wood: Bark	-	-	100.00	-	-	-	-	-	-	-
YES	Biomass	Stoker/Sloped Grate/Other	2	SCMarlboroPaper	Hogged Fuel Boiler	D/F Total Mass	Sample #1	7/15/2009	DLL	3.70E-02	-3.30E+00		Industrial Sludge/Wood: Bark/Natural gas/Wood: Plywood, Particleboard 1 (containing glues or resins)	-	-	95.71	4.29	-	-	0.00	-	-	-
YES	Biomass	Stoker/Sloped Grate/Other	2	SCMarlboroPaper	Hogged Fuel Boiler	D/F Total Mass	Sample #2	7/15/2009	DLL	4.01E-02	-3.22E+00		Industrial Sludge/Wood: Bark/Natural gas/Wood: Plywood, Particleboard 1 (containing glues or resins)	-	-	95.71	4.29	-	-	0.00	-	-	-
YES	Biomass	Stoker/Sloped Grate/Other	2	SCMarlboroPaper	Hogged Fuel Boiler	D/F Total Mass	Sample #3	7/15/2009	DLL	4.25E-02	-3.16E+00		Industrial Sludge/Wood: Bark/Natural gas/Wood: Plywood, Particleboard 1 (containing glues or resins)	-	-	95.71	4.29	-	-	0.00	-	-	-
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	D/F Total Mass	Sample #1	7/22/2009	DLL	2.18E-03	-6.13E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	D/F Total Mass	Sample #2	7/23/2009	DLL	1.74E-03	-6.35E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	D/F Total Mass	Sample #3	7/23/2009	DLL	1.82E-03	-6.31E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	D/F Total Mass	Sample #1	6/4/2009	DLL	3.18E-02	-3.45E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	D/F Total Mass	Sample #2	6/5/2009	DLL	1.51E-02	-4.19E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	D/F Total Mass	Sample #3	6/5/2009	DLL	2.78E-03	-5.89E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	PC	1	WVPPGMartinsville	R011-Boiler 3	D/F Total Mass	Sample #1	7/22/2009	DLL	2.52E-02	-3.68E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	PC	1	WVPPGMartinsville	R011-Boiler 3	D/F Total Mass	Sample #2	7/23/2009	DLL	1.41E-02	-4.26E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	PC	1	WVPPGMartinsville	R011-Boiler 3	D/F Total Mass	Sample #3	7/23/2009	DLL	1.52E-02	-4.18E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	PC	2	NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	D/F Total Mass	Sample #1	10/20/2009	DLL	1.91E-02	-3.96E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	PC	2	NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	D/F Total Mass	Sample #2	10/20/2009	DLL	1.91E-02	-3.96E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	PC	2	NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	D/F Total Mass	Sample #3	10/20/2009	DLL	1.91E-02	-3.96E+00		1 Coal: Bituminous	100.00	-	-	-	-	-	-	-	-	-
YES	Coal	Stoker/Sloped Grate/Other	1	KYISPCchemicals	0AA (Riley)	D/F Total Mass	Sample #1	11/17/2009		3.20E-03	-5.74E+00		Coal: Sub-bituminous/Process 0 coproduct gas	99.96	-	-	-	-	-	-	0.04	-	-
YES	Coal	Stoker/Sloped Grate/Other	1	KYISPCchemicals	0AA (Riley)	D/F Total Mass	Sample #2	11/17/2009		2.30E-03	-6.07E+00		Coal: Sub-bituminous/Process 0 coproduct gas	99.96	-	-	-	-	-	-	0.04	-	-
YES	Coal	Stoker/Sloped Grate/Other	1	KYISPCchemicals	0AA (Riley)	D/F Total Mass	Sample #3	11/18/2009		2.10E-03	-6.17E+00		Coal: Sub-bituminous/Process 0 coproduct gas	99.96	-	-	-	-	-	-	0.04	-	-
YES	Coal	Stoker/Sloped Grate/Other	2	WINNewPageBiron	B24	D/F Total Mass	Sample #1	9/24/2009	DLL	1.33E-02	-4.32E+00		1 Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal	Stoker/Sloped Grate/Other	2	WINNewPageBiron	B24	D/F Total Mass	Sample #2	9/24/2009	DLL	1.38E-02	-4.28E+00		1 Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-
YES	Coal	Stoker/Sloped Grate/Other	2	WINNewPageBiron	B24	D/F Total Mass	Sample #3	9/24/2009	DLL	9.99E-03	-4.61E+00		1 Coal: Sub-bituminous/Wood: Bark	97.04	-	2.96	-	-	-	-	-	-	-

Appendix C-11: Ranked Existing Unit Performance by Fuel

In top 12%?	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ng/dscm @ 7% O2	In (ng/dscm @ 7% O2)	Fuel	Ccoal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy/Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	TEQ Dioxin/Furans	Sample #1	no		3.73E-03	-5.59E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	TEQ Dioxin/Furans	Sample #2	no		1.27E-03	-6.67E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	TEQ Dioxin/Furans	Sample #3	no		2.70E-03	-5.92E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	TEQ Dioxin/Furans	M23-1	no	DLL	2.70E-03	-5.92E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	TEQ Dioxin/Furans	M23-2	no	DLL	2.33E-03	-6.06E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	TEQ Dioxin/Furans	M23-3	no	DLL	2.70E-03	-5.91E+00	Natural gas	-	-	-	-	-	-	100.00	-	-	-
YES	Gas 2		1	SCBMWManufacturingCo	HB03	TEQ Dioxin/Furans	Sample #1	no	DLL	2.21E-03	-6.11E+00	Landfill Gas	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		1	SCBMWManufacturingCo	HB03	TEQ Dioxin/Furans	Sample #2	no	DLL	3.80E-03	-5.57E+00	Landfill Gas	-	-	-	-	-	-	-	100.00	-	-
YES	Gas 2		1	SCBMWManufacturingCo	HB03	TEQ Dioxin/Furans	Sample #3	no	DLL	2.00E-03	-6.22E+00	Landfill Gas	-	-	-	-	-	-	-	100.00	-	-
YES	Liquid		1	SCMilliken-Dewey	D30	TEQ Dioxin/Furans	Sample #1	no	BDL	3.43E-06	-1.26E+01	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		1	SCMilliken-Dewey	D30	TEQ Dioxin/Furans	Sample #2	no	BDL	2.88E-06	-1.28E+01	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		1	SCMilliken-Dewey	D30	TEQ Dioxin/Furans	Sample #3	no	BDL	2.67E-06	-1.28E+01	Anhydrides Waste	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		2	CTElectric Boat	EMU 17	TEQ Dioxin/Furans	Sample #1	no		1.18E-03	-6.75E+00	No. 4 Fuel oil	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		2	CTElectric Boat	EMU 17	TEQ Dioxin/Furans	Sample #2	no		1.08E-03	-6.83E+00	No. 4 Fuel oil	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		2	CTElectric Boat	EMU 17	TEQ Dioxin/Furans	Sample #3	no		1.03E-03	-6.88E+00	No. 4 Fuel oil	-	-	-	-	-	100.00	-	-	-	-
YES	Liquid		3	NYConEd59thStStationNewYork	Boiler 118	TEQ Dioxin/Furans	Sample #1	no	DLL	1.28E-03	-6.66E+00	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		3	NYConEd59thStStationNewYork	Boiler 118	TEQ Dioxin/Furans	Sample #2	no	DLL	1.23E-03	-6.70E+00	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-
YES	Liquid		3	NYConEd59thStStationNewYork	Boiler 118	TEQ Dioxin/Furans	Sample #3	no	DLL	7.90E-04	-7.14E+00	No. 6 Residual oil	-	-	-	-	100.00	-	-	-	-	-

Appendix C-12: Ranked Existing Unit Performance by Fuel and Combustor Design

In top 12%?	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	ng/dscm @ 7% O2	In (ng/dscm @ 7% O2)	Fuel	Coal %	Bagasse %	Wet Biomass %	Dry Biomass %	Heavy Liquid %	Light Liquid %	Gas 1%	Gas 2%	Other %	Waste %	
yes	Biomass	Dutch Oven/Susp. Burner	1	ORFlakeboardEugene	Boiler-2	TEQ Dioxin/Furans	M23-1	no	DLL	9.27E-03	-4.68E+00	Natural gas/Wood: Unadulterated Lumber	-	-	-	30.60	-	-	69.40	-	-	-	
yes	Biomass	Dutch Oven/Susp. Burner	1	ORFlakeboardEugene	Boiler-2	TEQ Dioxin/Furans	M23-2	no	DLL	6.42E-03	-5.05E+00	Natural gas/Wood: Unadulterated Lumber	-	-	-	30.60	-	-	69.40	-	-	-	
yes	Biomass	Dutch Oven/Susp. Burner	1	ORFlakeboardEugene	Boiler-2	TEQ Dioxin/Furans	M23-3	no	DLL	1.29E-02	-4.35E+00	Natural gas/Wood: Unadulterated Lumber	-	-	-	30.60	-	-	69.40	-	-	-	
yes	Biomass	FB	1	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	TEQ Dioxin/Furans	Sample #1	no	DLL	2.29E-03	-6.08E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	76.28	20.70	-	3.02	-	-	-	
yes	Biomass	FB	1	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	TEQ Dioxin/Furans	Sample #2	no	DLL	3.00E-03	-5.81E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	76.28	20.70	-	3.02	-	-	-	
yes	Biomass	FB	1	ORGeorgiaPacificWaunaMill	EU35 - Fluidized Bed Boiler	TEQ Dioxin/Furans	Sample #3	no	DLL	1.52E-03	-6.49E+00	Hog Fuel/Industrial Sludge/Natural gas	-	-	-	76.28	20.70	-	3.02	-	-	-	
yes	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11Cu301	TEQ Dioxin/Furans	Sample #1	no	DLL	2.44E-03	-6.02E+00	Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	-	8.61	-
yes	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11Cu301	TEQ Dioxin/Furans	Sample #2	no	DLL	3.05E-03	-5.79E+00	Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	-	8.61	-
yes	Biomass	FB	2	ALIPCourtland	No. 3 Combination Boiler / 11Cu301	TEQ Dioxin/Furans	Sample #3	no	DLL	4.32E-03	-5.44E+00	Industrial Sludge/Natural gas/Tire Derived Fuel (TDF)/Wood: Bark	-	-	88.42	-	2.96	-	-	-	-	8.61	-
yes	Biomass	FB	3	TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	TEQ Dioxin/Furans	Sample #1	no	DLL	2.97E-03	-5.82E+00	Biomass/Tire Derived Fuel (TDF)/Wood: Bark	-	-	93.79	2.59	-	-	-	-	-	3.62	-
yes	Biomass	FB	3	TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	TEQ Dioxin/Furans	Sample #2	no	DLL	6.09E-03	-5.10E+00	Biomass/Tire Derived Fuel (TDF)/Wood: Bark	-	-	93.79	2.59	-	-	-	-	-	3.62	-
yes	Biomass	FB	3	TNBowaterNewsprint	Bubbling Fluidized Bed Boiler	TEQ Dioxin/Furans	Sample #3	no	DLL	6.83E-03	-4.99E+00	Biomass/Tire Derived Fuel (TDF)/Wood: Bark	-	-	93.79	2.59	-	-	-	-	-	3.62	-
yes	Biomass	FB	4	GATempleInlandRome	WF	TEQ Dioxin/Furans	Sample #1	no	DLL	1.89E-02	-3.97E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-	-
yes	Biomass	FB	4	GATempleInlandRome	WF	TEQ Dioxin/Furans	Sample #2	no	DLL	3.80E-03	-5.57E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-	-
yes	Biomass	FB	4	GATempleInlandRome	WF	TEQ Dioxin/Furans	Sample #3	no	DLL	5.64E-03	-5.18E+00	Wood: Bark	-	-	100.00	-	-	-	-	-	-	-	-
yes	Biomass	Fuel Cell	1	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	TEQ Dioxin/Furans	Sample #1	no	DLL	2.45E-04	-8.31E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
yes	Biomass	Fuel Cell	1	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	TEQ Dioxin/Furans	Sample #2	no	DLL	2.71E-04	-8.21E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
yes	Biomass	Fuel Cell	1	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	TEQ Dioxin/Furans	Sample #3	no	DLL	2.09E-04	-8.47E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
yes	Biomass	Fuel Cell	2	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	TEQ Dioxin/Furans	Sample #1	no	DLL	4.06E-03	-5.51E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-
yes	Biomass	Fuel Cell	2	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	TEQ Dioxin/Furans	Sample #2	no	DLL	2.78E-03	-5.89E+00	Hog Fuel	-	-	-	100.00	-	-	-	-	-	-	-

Appendix D-1: UPL Calculations for Existing Units

MACT Floor by Fuel Type	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Biomass		
No. of sources =	192	192
No. in MACT floor =	24	24
Avg of top 12% =	6.06E-03	-5.69E+00
Std Deviation of top 12% =	7.79E-03	1.15E+00
Skewness =	4.03	-0.46
Kurtosis =	25.75	1.18
SE Skewness	0.17	0.17
Skewness Test	non-normal	normal
SE Kurtosis	0.35	0.35
Kurtosis Test	non-normal	non-normal
Number of test runs =	197	197
Number of test runs that contained non-detect values	2	2
Highest test run =	7.10E-02	-2.65E+00
99% t-statistic for UPL	2.35E+00	2.35E+00
99% UPL of top 12% (test runs) =	1.67E-02	1.62E-02
Coal		
No. of sources =	366	366
No. in MACT floor =	44	44
Avg of top 12% =	7.24E-03	-5.66E+00
Std Deviation of top 12% =	1.11E-02	1.21E+00
Skewness =	3.08	0.05
Kurtosis =	9.98	0.33
SE Skewness	0.15	0.15
Skewness Test	non-normal	normal
SE Kurtosis	0.29	0.29
Kurtosis Test	non-normal	normal
Number of test runs =	279	279
Number of test runs that contained non-detect values	3	3
Highest test run =	6.40E-02	-2.75E+00
99% t-statistic for UPL	2.34E+00	2.34E+00
99% UPL of top 12% (test runs) =	2.23E-02	1.79E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-1: UPL Calculations for Existing Units

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Liquid		
No. of sources =	91	91
No. in MACT floor =	11	11
Avg of top 12% =	1.40E-03	-6.77E+00
Std Deviation of top 12% =	8.09E-04	7.09E-01
Skewness =	1.06	-1.33
Kurtosis =	1.62	3.41
SE Skewness	0.39	0.39
Skewness Test	non-normal	normal
SE Kurtosis	0.78	0.78
Kurtosis Test	non-normal	non-normal
Number of test runs =	39	39
Number of test runs that contained non-detect values	1	1
Highest test run =	4.00E-03	-5.52E+00
99% t-statistic for UPL	2.43E+00	2.43E+00
99% UPL of top 12% (test runs) =	2.57E-03	3.23E-03
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	144	144
No. in MACT floor =	18	18
Avg of top 12% =	3.88E-03	-7.45E+00
Std Deviation of top 12% =	1.45E-02	1.48E+00
Skewness =	6.14	1.69
Kurtosis =	42.28	2.99
SE Skewness	0.30	0.30
Skewness Test	non-normal	non-normal
SE Kurtosis	0.60	0.60
Kurtosis Test	non-normal	non-normal
Number of test runs =	66	66
Number of test runs that contained non-detect values	0	0
Highest test run =	1.08E-01	-2.23E+00
99% t-statistic for UPL	2.39E+00	2.39E+00
99% UPL of top 12% (test runs) =	2.42E-02	4.67E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-1: UPL Calculations for Existing Units

Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	9	9
No. in MACT floor =	2	2
Avg of top 12% =	4.70E-03	-7.84E+00
Std Deviation of top 12% =	6.45E-03	3.50E+00
Skewness =	1.00	-0.49
Kurtosis =	-1.03	-1.70
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	0	0
Highest test run =	1.53E-02	-4.18E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	1.72E-02	3.41E-01
Gas 2		
No. of sources =	13	13
No. in MACT floor =	2	2
Avg of top 12% =	1.10E-02	-5.24E+00
Std Deviation of top 12% =	1.15E-02	1.45E+00
Skewness =	1.23	-0.61
Kurtosis =	0.71	-0.39
SE Skewness	0.43	0.43
Skewness Test	non-normal	normal
SE Kurtosis	0.85	0.85
Kurtosis Test	normal	normal
Number of test runs =	33	33
Number of test runs that contained non-detect values	0	0
Highest test run =	4.21E-02	-3.17E+00
99% t-statistic for UPL	2.45E+00	2.45E+00
99% UPL of top 12% (test runs) =	2.79E-02	4.50E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-2: UPL Calculations for Existing Units

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Biomass		
No. of sources =	91	91
No. in MACT floor =	11	11
Avg of top 12% =	3.46E-07	-1.51E+01
Std Deviation of top 12% =	2.31E-07	7.04E-01
Skewness =	0.94	-0.27
Kurtosis =	-0.27	-0.07
SE Skewness	0.34	0.34
Skewness Test	non-normal	normal
SE Kurtosis	0.67	0.67
Kurtosis Test	normal	normal
Number of test runs =	53	53
Number of test runs that contained non-detect values	30	30
Highest test run =	9.18E-07	-1.39E+01
99% t-statistic for UPL	2.40E+00	2.40E+00
99% UPL of top 12% (test runs) =	6.76E-07	7.52E-07
Coal		
No. of sources =	285	285
No. in MACT floor =	35	35
Avg of top 12% =	5.95E-07	-1.49E+01
Std Deviation of top 12% =	7.76E-07	1.19E+00
Skewness =	3.17	-0.44
Kurtosis =	12.04	0.48
SE Skewness	0.19	0.19
Skewness Test	non-normal	normal
SE Kurtosis	0.39	0.39
Kurtosis Test	non-normal	normal
Number of test runs =	161	161
Number of test runs that contained non-detect values	60	60
Highest test run =	5.07E-06	-1.22E+01
99% t-statistic for UPL	2.35E+00	2.35E+00
99% UPL of top 12% (test runs) =	1.66E-06	1.64E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-2: UPL Calculations for Existing Units

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Liquid		
No. of sources =	177	177
No. in MACT floor =	22	22
Avg of top 12% =	1.91E-06	-1.34E+01
Std Deviation of top 12% =	6.40E-07	8.59E-01
Skewness =	-2.26	-2.68
Kurtosis =	3.28	5.94
SE Skewness	0.12	0.12
Skewness Test	normal	normal
SE Kurtosis	0.24	0.24
Kurtosis Test	non-normal	non-normal
Number of test runs =	400	400
Number of test runs that contained non-detect values	377	377
Highest test run =	2.25E-06	-1.30E+01
99% t-statistic for UPL	2.34E+00	2.34E+00
99% UPL of top 12% (test runs) =	2.78E-06	5.05E-06
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	14	14
No. in MACT floor =	2	2
Avg of top 12% =	1.07E-07	-1.61E+01
Std Deviation of top 12% =	3.73E-08	3.49E-01
Skewness =	0.64	-0.01
Kurtosis =	-0.27	-0.12
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	1.65E-07	-1.56E+01
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.96E-07	2.34E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-2: UPL Calculations for Existing Units

Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	7	7
No. in MACT floor =	1	1
Avg of top 12% =	3.32E-08	-1.74E+01
Std Deviation of top 12% =	2.65E-08	8.31E-01
Skewness =	1.29	0.38
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	6.28E-08	-1.66E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.84E-07	2.98E-06
Gas 2		
No. of sources =	8	8
No. in MACT floor =	1	1
Avg of top 12% =	8.25E-08	-1.63E+01
Std Deviation of top 12% =	1.82E-08	2.13E-01
Skewness =	1.38	1.24
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.03E-07	-1.61E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.86E-07	2.73E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-3: UPL Calculations for Existing Units

Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Biomass		
No. of sources =	92	92
No. in MACT floor =	12	12
Avg of top 12% =	4.34E-03	-8.39E+00
Std Deviation of top 12% =	1.26E-02	2.29E+00
Skewness =	3.48	0.82
Kurtosis =	12.51	0.71
SE Skewness	0.34	0.34
Skewness Test	non-normal	non-normal
SE Kurtosis	0.68	0.68
Kurtosis Test	non-normal	normal
Number of test runs =	52	52
Number of test runs that contained non-detect values	17	17
Highest test run =	6.43E-02	-2.74E+00
99% t-statistic for UPL	2.40E+00	2.40E+00
99% UPL of top 12% (test runs) =	2.22E-02	6.00E-03
Coal		
No. of sources =	318	318
No. in MACT floor =	39	39
Avg of top 12% =	4.23E-03	-7.08E+00
Std Deviation of top 12% =	1.89E-02	1.59E+00
Skewness =	6.98	0.02
Kurtosis =	47.84	1.25
SE Skewness	0.20	0.20
Skewness Test	non-normal	normal
SE Kurtosis	0.39	0.39
Kurtosis Test	non-normal	non-normal
Number of test runs =	157	157
Number of test runs that contained non-detect values	25	25
Highest test run =	1.40E-01	-1.97E+00
99% t-statistic for UPL	2.35E+00	2.35E+00
99% UPL of top 12% (test runs) =	3.02E-02	7.38E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-3: UPL Calculations for Existing Units

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Liquid		
No. of sources =	190	190
No. in MACT floor =	23	23
Avg of top 12% =	2.59E-04	-8.34E+00
Std Deviation of top 12% =	4.97E-05	6.59E-01
Skewness =	-1.31	-6.35
Kurtosis =	29.24	40.99
SE Skewness	0.10	0.10
Skewness Test	normal	normal
SE Kurtosis	0.21	0.21
Kurtosis Test	non-normal	non-normal
Number of test runs =	556	556
Number of test runs that contained non-detect values	535	535
Highest test run =	6.24E-04	-7.38E+00
99% t-statistic for UPL	2.33E+00	2.33E+00
99% UPL of top 12% (test runs) =	3.26E-04	5.82E-04
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	11	11
No. in MACT floor =	2	2
Avg of top 12% =	1.01E-04	-9.29E+00
Std Deviation of top 12% =	3.91E-05	5.02E-01
Skewness =	-1.08	-1.39
Kurtosis =	-0.72	0.79
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	5	5
Highest test run =	1.30E-04	-8.95E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.94E-04	3.04E-04

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-3: UPL Calculations for Existing Units

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	9	9
No. in MACT floor =	2	2
Avg of top 12% =	1.92E-04	-8.66E+00
Std Deviation of top 12% =	8.04E-05	5.32E-01
Skewness =	-0.85	-0.90
Kurtosis =	-1.63	-1.47
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	6	6
Highest test run =	2.54E-04	-8.28E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	3.48E-04	4.83E-04
Gas 2		
No. of sources =	8	8
No. in MACT floor =	1	1
Avg of top 12% =	1.70E-06	-1.33E+01
Std Deviation of top 12% =	1.41E-07	8.25E-02
Skewness =	0.63	0.51
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.85E-06	-1.32E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	2.50E-06	2.71E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-4: UPL Calculations for Existing Units

Parameters	Reported Values	LN(reported values)
	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Liquid		
No. of sources =	116	116
No. in MACT floor =	14	14
Avg of top 12% =	4.43E-01	-1.16E+00
Std Deviation of top 12% =	3.22E-01	9.31E-01
Skewness =	0.61	-0.60
Kurtosis =	-0.64	-0.50
SE Skewness	0.39	0.39
Skewness Test	normal	normal
SE Kurtosis	0.77	0.77
Kurtosis Test	normal	normal
Number of test runs =	40	40
Number of test runs that contained non-detect values	11	11
Highest test run =	1.22E+00	1.95E-01
99% t-statistic for UPL	2.43E+00	2.43E+00
99% UPL of top 12% (test runs) =	9.11E-01	1.22E+00
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	754	754
No. in MACT floor =	91	91
Avg of top 12% =	1.45E+00	-1.95E+00
Std Deviation of top 12% =	1.16E+01	1.32E+00
Skewness =	13.74	2.08
Kurtosis =	207.35	6.81
SE Skewness	0.14	0.14
Skewness Test	non-normal	non-normal
SE Kurtosis	0.28	0.28
Kurtosis Test	non-normal	non-normal
Number of test runs =	299	299
Number of test runs that contained non-detect values	120	120
Highest test run =	1.84E+02	5.21E+00
99% t-statistic for UPL	2.34E+00	2.34E+00
99% UPL of top 12% (test runs) =	1.72E+01	8.55E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-4: UPL Calculations for Existing Units

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	15	15
No. in MACT floor =	2	2
Avg of top 12% =	3.79E-01	-1.27E+00
Std Deviation of top 12% =	2.99E-01	8.79E-01
Skewness =	0.81	-0.01
Kurtosis =	-0.51	-1.88
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	8.59E-01	-1.52E-01
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.09E+00	2.28E+00
Gas 2		
No. of sources =	75	75
No. in MACT floor =	9	9
Avg of top 12% =	7.37E-02	-2.89E+00
Std Deviation of top 12% =	4.04E-02	8.91E-01
Skewness =	-0.77	-0.90
Kurtosis =	-1.43	-1.13
SE Skewness	0.45	0.45
Skewness Test	normal	normal
SE Kurtosis	0.89	0.89
Kurtosis Test	normal	normal
Number of test runs =	30	30
Number of test runs that contained non-detect values	2	2
Highest test run =	1.10E-01	-2.21E+00
99% t-statistic for UPL	2.46E+00	2.46E+00
99% UPL of top 12% (test runs) =	1.34E-01	2.10E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-4: UPL Calculations for Existing Units

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
MACT Floor by Combustor	Reported Values	LN(reported values)
Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Dutch Oven		
No. of sources =	17	17
No. in MACT floor =	3	3
Avg of top 12% =	3.62E+02	5.51E+00
Std Deviation of top 12% =	3.32E+02	9.79E-01
Skewness =	2.34	-0.92
Kurtosis =	6.84	1.59
SE Skewness	0.35	0.35
Skewness Test	non-normal	normal
SE Kurtosis	0.71	0.71
Kurtosis Test	non-normal	non-normal
Number of test runs =	48	48
Number of test runs that contained non-detect values	0	0
Highest test run =	1.72E+03	7.45E+00
99% t-statistic for UPL	2.41E+00	2.41E+00
99% UPL of top 12% (test runs) =	8.38E+02	1.01E+03
Biomass - Fluidized Bed		
No. of sources =	7	7
No. in MACT floor =	5	5
Avg of top 12% =	9.71E+01	4.27E+00
Std Deviation of top 12% =	8.34E+01	8.08E-01
Skewness =	1.83	0.14
Kurtosis =	3.56	-0.83
SE Skewness	0.50	0.50
Skewness Test	non-normal	normal
SE Kurtosis	1.00	1.00
Kurtosis Test	non-normal	normal
Number of test runs =	24	24
Number of test runs that contained non-detect values	0	0
Highest test run =	3.48E+02	5.85E+00
99% t-statistic for UPL	2.50E+00	2.50E+00
99% UPL of top 12% (test runs) =	2.25E+02	2.45E+02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-4: UPL Calculations for Existing Units

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Fuel Cell		
No. of sources =	16	16
No. in MACT floor =	5	5
Avg of top 12% =	1.30E+02	4.69E+00
Std Deviation of top 12% =	7.82E+01	6.03E-01
Skewness =	0.86	0.12
Kurtosis =	-0.26	-1.17
SE Skewness	0.40	0.40
Skewness Test	non-normal	normal
SE Kurtosis	0.79	0.79
Kurtosis Test	normal	normal
Number of test runs =	38	38
Number of test runs that contained non-detect values	0	0
Highest test run =	3.10E+02	5.74E+00
99% t-statistic for UPL	2.43E+00	2.43E+00
99% UPL of top 12% (test runs) =	2.44E+02	2.62E+02
Biomass - Stoker		
No. of sources =	119	119
No. in MACT floor =	15	15
Avg of top 12% =	2.03E+02	4.57E+00
Std Deviation of top 12% =	4.08E+02	1.23E+00
Skewness =	5.12	-0.67
Kurtosis =	28.47	2.92
SE Skewness	0.30	0.30
Skewness Test	non-normal	normal
SE Kurtosis	0.60	0.60
Kurtosis Test	non-normal	non-normal
Number of test runs =	67	67
Number of test runs that contained non-detect values	0	0
Highest test run =	2.78E+03	7.93E+00
99% t-statistic for UPL	2.38E+00	2.38E+00
99% UPL of top 12% (test runs) =	7.77E+02	5.51E+02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-4: UPL Calculations for Existing Units

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Coal - FB		
No. of sources =	17	17
No. in MACT floor =	3	3
Avg of top 12% =	1.25E+01	2.43E+00
Std Deviation of top 12% =	4.64E+00	5.41E-01
Skewness =	-1.15	-1.92
Kurtosis =	0.63	3.72
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	non-normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	0	0
Highest test run =	1.68E+01	2.82E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	2.14E+01	3.21E+01
Coal - PC		
No. of sources =	41	41
No. in MACT floor =	5	5
Avg of top 12% =	1.92E+01	-2.38E-01
Std Deviation of top 12% =	3.29E+01	3.04E+00
Skewness =	1.24	0.59
Kurtosis =	-0.50	-1.34
SE Skewness	0.50	0.50
Skewness Test	non-normal	normal
SE Kurtosis	1.00	1.00
Kurtosis Test	normal	normal
Number of test runs =	24	24
Number of test runs that contained non-detect values	0	0
Highest test run =	7.79E+01	4.36E+00
99% t-statistic for UPL	2.50E+00	2.50E+00
99% UPL of top 12% (test runs) =	6.97E+01	8.28E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-4: UPL Calculations for Existing Units

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Coal - Stoker		
No. of sources =	61	61
No. in MACT floor =	8	8
Avge of top 12% =	2.14E+01	2.90E+00
Std Deviation of top 12% =	1.10E+01	6.43E-01
Skewness =	1.04	-1.26
Kurtosis =	3.21	1.67
SE Skewness	0.50	0.50
Skewness Test	non-normal	normal
SE Kurtosis	1.00	1.00
Kurtosis Test	non-normal	normal
Number of test runs =	24	24
Number of test runs that contained non-detect values	0	0
Highest test run =	5.57E+01	4.02E+00
99% t-statistic for UPL	2.50E+00	2.50E+00
99% UPL of top 12% (test runs) =	3.82E+01	4.88E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-5: UPL Calculations for Existing Units

Parameters	Reported Values	LN(reported values)
	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Liquid		
No. of sources =	17	17
No. in MACT floor =	3	3
Avg of top 12% =	7.33E-04	-8.79E+00
Std Deviation of top 12% =	5.65E-04	2.95E+00
Skewness =	-0.64	-0.85
Kurtosis =	-1.78	-1.71
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	6	6
Highest test run =	1.28E-03	-6.66E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	1.82E-03	4.54E-02
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	8	8
No. in MACT floor =	1	1
Avg of top 12% =	2.57E-03	-6.06E+00
Std Deviation of top 12% =	1.23E-03	5.52E-01
Skewness =	-0.47	-1.08
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	3.73E-03	-5.59E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	9.59E-03	5.41E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-5: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	7	7
No. in MACT floor =	1	1
Avg of top 12% =	2.58E-03	-5.96E+00
Std Deviation of top 12% =	2.15E-04	8.58E-02
Skewness =	-1.73	-1.73
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.70E-03	-5.91E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	3.80E-03	4.19E-03
Gas 2		
No. of sources =	5	5
No. in MACT floor =	1	1
Avg of top 12% =	2.67E-03	-5.97E+00
Std Deviation of top 12% =	9.86E-04	3.46E-01
Skewness =	1.64	1.56
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	3.80E-03	-5.57E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	8.28E-03	1.83E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-5: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
MACT Floor by Combustor		
	Reported Values	LN(Reported values)
Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Dutch Oven		
No. of sources =	3	3
No. in MACT floor =	1	1
Avg of top 12% =	9.52E-03	-4.69E+00
Std Deviation of top 12% =	3.23E-03	3.48E-01
Skewness =	0.34	-0.17
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.29E-02	-4.35E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	2.79E-02	6.63E-02
Biomass - Fluidized Bed		
No. of sources =	6	6
No. in MACT floor =	5	5
Avg of top 12% =	5.07E-03	-5.52E+00
Std Deviation of top 12% =	4.65E-03	6.56E-01
Skewness =	2.75	1.06
Kurtosis =	8.40	1.91
SE Skewness	0.71	0.71
Skewness Test	non-normal	normal
SE Kurtosis	1.41	1.41
Kurtosis Test	non-normal	normal
Distribution =	L	N
Number of test runs =	12	12
Number of test runs that contained non-detect values	12	12
Highest test run =	1.89E-02	-3.97E+00
99% t-statistic for UPL	2.72E+00	2.72E+00
99% t-statistic for UL	2.68E+00	2.68E+00
99% UPL of top 12% (test runs) =	1.32E-02	1.27E-02
99% UL of top 12% (test runs) =	1.75E-02	2.32E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-5: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Fuel Cell		
No. of sources =	7	7
No. in MACT floor =	5	5
Avg of top 12% =	5.52E-03	-6.21E+00
Std Deviation of top 12% =	5.43E-03	1.99E+00
Skewness =	0.75	-0.98
Kurtosis =	-0.86	-0.11
SE Skewness	0.68	0.68
Skewness Test	normal	normal
SE Kurtosis	1.36	1.36
Kurtosis Test	normal	normal
Number of test runs =	13	13
Number of test runs that contained non-detect values	11	11
Highest test run =	1.48E-02	-4.21E+00
99% t-statistic for UPL	2.68E+00	2.68E+00
99% UPL of top 12% (test runs) =	1.48E-02	6.15E-02
Biomass - Stoker		
No. of sources =	16	16
No. in MACT floor =	2	2
Avg of top 12% =	8.19E-04	-8.84E+00
Std Deviation of top 12% =	1.08E-03	2.56E+00
Skewness =	1.38	0.05
Kurtosis =	1.72	-3.00
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	4	4
Highest test run =	2.76E-03	-5.89E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	3.39E-03	6.35E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-5: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Coal - FB		
No. of sources =	12	12
No. in MACT floor =	2	2
Avg of top 12% =	4.71E-04	-9.31E+00
Std Deviation of top 12% =	5.09E-04	2.57E+00
Skewness =	0.04	-0.03
Kurtosis =	-3.22	-3.25
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	6	6
Highest test run =	1.00E-03	-6.91E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.68E-03	4.04E-02
Coal - PC		
No. of sources =	10	10
No. in MACT floor =	2	2
Avg of top 12% =	1.58E-03	-6.52E+00
Std Deviation of top 12% =	6.25E-04	4.02E-01
Skewness =	0.34	0.14
Kurtosis =	-2.16	-2.64
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	6	6
Highest test run =	2.44E-03	-6.02E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	3.07E-03	3.85E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-5: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Coal - Stoker		
No. of sources =	14	14
No. in MACT floor =	2	2
Avge of top 12% =	1.82E-03	-6.33E+00
Std Deviation of top 12% =	3.87E-04	2.18E-01
Skewness =	-0.05	-0.27
Kurtosis =	-1.65	-1.71
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	6	6
Highest test run =	2.32E-03	-6.07E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	2.74E-03	3.00E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-6: UPL Calculations for Existing Units

Parameters	Reported Values	LN(reported values)
	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Liquid		
No. of sources =	17	17
No. in MACT floor =	3	3
Avg of top 12% =	3.55E-03	-7.27E+00
Std Deviation of top 12% =	4.09E-03	2.69E+00
Skewness =	0.78	-0.59
Kurtosis =	-1.48	-1.72
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	6	6
Highest test run =	9.90E-03	-4.62E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	1.15E-02	1.26E-01
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	8	8
No. in MACT floor =	1	1
Avg of top 12% =	1.21E-01	-2.19E+00
Std Deviation of top 12% =	5.12E-02	5.12E-01
Skewness =	-1.73	-1.73
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.51E-01	-1.89E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	4.12E-01	2.06E+00

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-6: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	7	7
No. in MACT floor =	1	1
Avg of top 12% =	1.27E-02	-4.37E+00
Std Deviation of top 12% =	2.12E-18	0.00E+00
Skewness =	-2.45	#DIV/0!
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	#DIV/0!
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.27E-02	-4.37E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.27E-02	1.27E-02
Gas 2		
No. of sources =	5	5
No. in MACT floor =	1	1
Avg of top 12% =	4.50E-02	-3.18E+00
Std Deviation of top 12% =	2.03E-02	5.02E-01
Skewness =	-0.30	-0.92
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	6.46E-02	-2.74E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.60E-01	7.23E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-6: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
MACT Floor by Combustor		
	Reported Values	LN(reported values)
Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Dutch Oven		
No. of sources =	3	3
No. in MACT floor =	1	1
Avg of top 12% =	1.63E-01	-1.88E+00
Std Deviation of top 12% =	6.36E-02	4.40E-01
Skewness =	-0.88	-1.26
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.19E-01	-1.52E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	5.24E-01	1.87E+00
Biomass - Fluidized Bed		
No. of sources =	6	6
No. in MACT floor =	5	5
Avg of top 12% =	2.14E-01	-2.20E+00
Std Deviation of top 12% =	3.08E-01	1.16E+00
Skewness =	2.96	0.37
Kurtosis =	9.69	-0.47
SE Skewness	0.63	0.63
Skewness Test	non-normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	non-normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	1.24E+00	2.13E-01
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	7.26E-01	7.65E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-6: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Fuel Cell		
No. of sources =	7	7
No. in MACT floor =	5	5
Avg of top 12% =	2.04E-01	-2.63E+00
Std Deviation of top 12% =	2.46E-01	2.01E+00
Skewness =	1.66	-1.42
Kurtosis =	2.78	2.94
SE Skewness	0.68	0.68
Skewness Test	non-normal	normal
SE Kurtosis	1.36	1.36
Kurtosis Test	non-normal	non-normal
Number of test runs =	13	13
Number of test runs that contained non-detect values	11	11
Highest test run =	8.40E-01	-1.75E-01
99% t-statistic for UPL	2.68E+00	2.68E+00
99% UPL of top 12% (test runs) =	6.26E-01	2.30E+00
Biomass - Stoker		
No. of sources =	16	16
No. in MACT floor =	2	2
Avg of top 12% =	3.46E-02	-3.42E+00
Std Deviation of top 12% =	1.11E-02	3.63E-01
Skewness =	-0.69	-0.85
Kurtosis =	-1.71	-1.57
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	6	6
Highest test run =	4.61E-02	-3.08E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	6.09E-02	7.80E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-6: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Coal - FB		
No. of sources =	12	12
No. in MACT floor =	2	2
Avg of top 12% =	9.23E-03	-5.39E+00
Std Deviation of top 12% =	1.22E-02	1.25E+00
Skewness =	1.68	1.05
Kurtosis =	2.25	-1.00
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	6	6
Highest test run =	3.18E-02	-3.45E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	3.83E-02	8.88E-02
Coal - PC		
No. of sources =	10	10
No. in MACT floor =	2	2
Avg of top 12% =	1.86E-02	-4.00E+00
Std Deviation of top 12% =	3.90E-03	2.05E-01
Skewness =	0.79	0.33
Kurtosis =	1.15	0.27
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	6	6
Highest test run =	2.52E-02	-3.68E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	2.79E-02	2.98E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix D-6: UPL Calculations for Existing Units

Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Coal - Stoker		
No. of sources =	14	14
No. in MACT floor =	2	2
Avge of top 12% =	7.45E-03	-5.20E+00
Std Deviation of top 12% =	5.55E-03	8.90E-01
Skewness =	0.19	-0.03
Kurtosis =	-2.80	-2.93
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	3	3
Highest test run =	1.38E-02	-4.28E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	2.07E-02	4.59E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix E-1: Specific Data Excluded From Floor Analysis

Classification	10% Fuel Cat	Data Source	SourceTab	FacilityID	CombustorID	TestID	TestDate	Pollutant_Name	Emission Value	Emission Units	Note	Use in Floor?
Boiler	Gas 1	ICR Phase I	PM and Metals (3)	CAConocoPhilipsLosAng	D687 - Boiler 8	Sample #1	6/17/1998	Mercury (Hg)	4.073E-08	lb/MMBtu	Test report notes this value is reported based on 1/2 detection limit values. This data should not be used for baseline or floor analyses.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (3)	CAConocoPhilipsLosAng	D687 - Boiler 8	Sample #2	6/18/1998	Mercury (Hg)	5.753E-09	lb/MMBtu	Test report notes this value is reported based on 1/2 detection limit values. This data should not be used for baseline or floor analyses.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (3)	CAConocoPhilipsLosAng	D687 - Boiler 8	Sample #3	6/19/1998	Mercury (Hg)	5.754E-09	lb/MMBtu	Test report notes this value is reported based on 1/2 detection limit values. This data should not be used for baseline or floor analyses.	N
Boiler	Gas 1	ICR Phase I	PMandMetals(75F-1)020590	CAExxonMobil-Torrance	75F-1	Sample #1	2/5/1990	Mercury (Hg)	0.0000817	lb/MMBtu	This test is from 1990 and mercury tests two orders of magnitude higher than other tests taken during the same year at the same facility. Only one test run is available. Data was not used in floor analysis.	N
Process Heater	Gas 1	ICR Phase II - Templates	Metals	CTCytec Wallingford	150 Furnace	Sample #1	9/2/2009	Mercury (Hg)	0.000293	lb/MMBtu	ERT data does not match values reported in test report. However, report lists zero as values while detection limits are listed here. DL is abnormally high, so values were not used in baseline or floor analyses.	N
Process Heater	Gas 1	ICR Phase II - Templates	Metals	CTCytec Wallingford	150 Furnace	Sample #2	9/2/2009	Mercury (Hg)	0.000293	lb/MMBtu	ERT data does not match values reported in test report. However, report lists zero as values while detection limits are listed here. DL is abnormally high, so values were not used in baseline or floor analyses.	N
Process Heater	Gas 1	ICR Phase II - Templates	Metals	CTCytec Wallingford	150 Furnace	Sample #3	9/3/2009	Mercury (Hg)	0.000293	lb/MMBtu	ERT data does not match values reported in test report. However, report lists zero as values while detection limits are listed here. DL is abnormally high, so values were not used in baseline or floor analyses.	N
Boiler	Dry Biomass	ICR Phase II - Templates	PM (filter) Duct	WAGrays HarborParker	No. 6 Boiler (EU2)	Sample #1	8/12/2009	Particulate Matter (PM) filterable	0.000482024	lb/MMBtu	Cannot use OTM 27 data on wet stacks for PM. Not used in floor analyses.	N
Boiler	Dry Biomass	ICR Phase II - Templates	PM (filter) Duct	WAGrays HarborParker	No. 6 Boiler (EU2)	Sample #2	8/13/2009	Particulate Matter (PM) filterable	0.001005905	lb/MMBtu	Cannot use OTM 27 data on wet stacks for PM. Not used in floor analyses.	N
Boiler	Dry Biomass	ICR Phase II - Templates	PM (filter) Duct	WAGrays HarborParker	No. 6 Boiler (EU2)	Sample #3	8/13/2009	Particulate Matter (PM) filterable	0.000503881	lb/MMBtu	Cannot use OTM 27 data on wet stacks for PM. Not used in floor analyses.	N
Boiler	Dry Biomass	ICR Phase II - Templates	PM (filter) Stack	WAGrays HarborParker	No. 6 Boiler (EU2)	Sample #1	8/12/2009	Particulate Matter (PM) filterable	0.000482024	lb/MMBtu	Cannot use OTM 27 data on wet stacks for PM. Not used in floor analyses.	N
Boiler	Dry Biomass	ICR Phase II - Templates	PM (filter) Stack	WAGrays HarborParker	No. 6 Boiler (EU2)	Sample #2	8/13/2009	Particulate Matter (PM) filterable	0.001005905	lb/MMBtu	Cannot use OTM 27 data on wet stacks for PM. Not used in floor analyses.	N

Appendix E-1: Specific Data Excluded From Floor Analysis

Classification	10% Fuel Cat	Data Source	SourceTab	FacilityID	CombustorID	TestID	TestDate	Pollutant_Name	Emission Value	Emission Units	Note	Use in Floor?
Boiler	Dry Biomass	ICR Phase II - Templates	PM (filter) Stack	WAGrays HarborPa per	No. 6 Boiler (EU2)	Sample #3	8/13/2009	Particulate Matter (PM) filterable	0.000503881	lb/MMBtu	Cannot use OTM 27 data on wet stacks for PM. Not used in floor analyses.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12)	TXEastmanChemL ongview	UD030B12	Sample #1	8/28/1981	Particulate Matter (PM) filterable	0.05	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12)	TXEastmanChemL ongview	UD030B12	Sample #2	8/28/1981	Particulate Matter (PM) filterable	0.057	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12)	TXEastmanChemL ongview	UD030B12	Sample #3	8/28/1981	Particulate Matter (PM) filterable	0.035	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12-2)	TXEastmanChemL ongview	UD030B12	Sample #1	6/13/1978	Particulate Matter (PM) filterable	0.044057971	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12-2)	TXEastmanChemL ongview	UD030B12	Sample #2	6/13/1978	Particulate Matter (PM) filterable	0.079130435	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12-2)	TXEastmanChemL ongview	UD030B12	Sample #3	6/13/1978	Particulate Matter (PM) filterable	0.093333333	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 2	ICR Phase I	PM and Metals	TXEastmanChemL ongview	OL225B1A	Sample #1	4/19/1984	Particulate Matter (PM) filterable	0.018	lb/MMBtu	Unit has not burned liquid fuel (pyrolysis tar) in over 20 years. This test is not indicative of current operations.	N
Boiler	Gas 2	ICR Phase I	PM and Metals	TXEastmanChemL ongview	OL225B1A	Sample #2	4/19/1984	Particulate Matter (PM) filterable	0.016	lb/MMBtu	Unit has not burned liquid fuel (pyrolysis tar) in over 20 years. This test is not indicative of current operations.	N
Boiler	Gas 2	ICR Phase I	PM and Metals	TXEastmanChemL ongview	OL225B1A	Sample #3	4/19/1984	Particulate Matter (PM) filterable	0.013	lb/MMBtu	Unit has not burned liquid fuel (pyrolysis tar) in over 20 years. This test is not indicative of current operations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12-2)	TXEastmanChemL ongview	UD030B12	Sample #1	6/13/1978	Particulate Matter (total, including condensibles)	0.076231884	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N

Appendix E-1: Specific Data Excluded From Floor Analysis

Classification	10% Fuel Cat	Data Source	SourceTab	FacilityID	CombustorID	TestID	TestDate	Pollutant_Name	Emission Value	Emission Units	Note	Use in Floor?
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12-2)	TXEastmanChemLongview	UD030B12	Sample #2	6/13/1978	Particulate Matter (total, including condensibles)	0.096811594	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Boiler	Gas 1	ICR Phase I	PM and Metals (030B12-2)	TXEastmanChemLongview	UD030B12	Sample #3	6/13/1978	Particulate Matter (total, including condensibles)	0.792753623	lb/MMBtu	Not reflective of current conditions. Do not use this data point for baseline determinations.	N
Process Heater	Gas 1	ICR Phase II - Test Report	Phase II D/F From Test Report	WICharter Steel	P31	Sample #2	9/14/2009	Total Dioxins/Furans	650	ng/dscm @ 7% O2	Not used for baseline/MACT floor calculations. This value is a TEQ value.	N

Appendix F-1 : UPL Calculations for New Sources

Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Biomass		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.16E-03	-6.89E+00
Std Deviation of top performer =	2.56E-03	1.35E+00
Skewness =	1.17	0.31
Kurtosis =	-0.07	-1.43
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	0	0
Highest test run =	7.10E-03	-4.95E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top performer (test runs) =	7.11E-03	1.38E-02
Coal		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	3.96E-04	-7.98E+00
Std Deviation of top performer =	2.24E-04	5.98E-01
Skewness =	0.33	0.12
Kurtosis =	-2.23	-2.95
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	7.06E-04	-7.26E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	9.28E-04	1.42E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-1 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Liquid		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	5.11E-04	-7.62E+00
Std Deviation of top performer =	1.80E-04	3.29E-01
Skewness =	1.73	1.72
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	1	1
Highest test run =	7.19E-04	-7.24E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.54E-03	3.19E-03
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.33E-04	-8.98E+00
Std Deviation of top performer =	5.77E-05	4.00E-01
Skewness =	1.73	1.73
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	2.00E-04	-8.52E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	4.62E-04	1.23E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-1 : UPL Calculations for New Sources

Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	6.54E-03	-8.31E+00
Std Deviation of top performer =	7.37E-03	4.34E+00
Skewness =	0.22	0.00
Kurtosis =	-2.79	-3.31
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	1.53E-02	-4.18E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	2.41E-02	7.45E+00
Gas 2		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	4.20E-04	-7.99E+00
Std Deviation of top performer =	3.48E-04	7.65E-01
Skewness =	1.72	1.68
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	8.21E-04	-7.10E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.40E-03	2.64E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-2 : UPL Calculations for New Sources

MACT Floor by Fuel Type	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Biomass		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	9.73E-08	-1.62E+01
Std Deviation of top performer =	1.55E-08	1.54E-01
Skewness =	1.55	1.49
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.15E-07	-1.60E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.86E-07	2.32E-07
Coal		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.18E-07	-1.67E+01
Std Deviation of top performer =	1.40E-07	1.35E+00
Skewness =	1.38	-0.03
Kurtosis =	0.37	-0.89
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	4	4
Highest test run =	3.77E-07	-1.48E+01
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top performer (test runs) =	3.89E-07	7.90E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-2 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Liquid		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	5.87E-08	-1.67E+01
Std Deviation of top performer =	3.31E-08	5.25E-01
Skewness =	1.63	1.48
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	9.66E-08	-1.62E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.47E-07	1.05E-06
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	9.35E-08	-1.62E+01
Std Deviation of top performer =	5.21E-09	5.50E-02
Skewness =	1.42	1.40
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	9.94E-08	-1.61E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.23E-07	1.28E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-2 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	3.32E-08	-1.74E+01
Std Deviation of top performer =	2.65E-08	8.31E-01
Skewness =	1.29	0.38
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	6.28E-08	-1.66E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.84E-07	2.98E-06
Gas 2		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	8.25E-08	-1.63E+01
Std Deviation of top performer =	1.82E-08	2.13E-01
Skewness =	1.38	1.24
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.03E-07	-1.61E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.86E-07	2.73E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-3 : UPL Calculations for New Sources

MACT Floor by Fuel Type	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Biomass		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	7.85E-04	-9.52E+00
Std Deviation of top performer =	9.58E-04	3.29E+00
Skewness =	0.64	0.04
Kurtosis =	-1.96	-3.23
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	3	3
Highest test run =	2.10E-03	-6.17E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	3.07E-03	1.82E-01
Coal		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	3.85E-05	-1.02E+01
Std Deviation of top performer =	2.39E-06	6.32E-02
Skewness =	-1.63	-1.64
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	4.02E-05	-1.01E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	5.21E-05	5.51E-05

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-3 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Liquid		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	3.99E-04	-8.02E+00
Std Deviation of top performer =	2.44E-04	7.18E-01
Skewness =	-0.05	-0.23
Kurtosis =	-3.17	-2.58
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	3	3
Highest test run =	6.24E-04	-7.38E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	9.80E-04	1.81E-03
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	7.26E-05	-9.63E+00
Std Deviation of top performer =	3.82E-05	5.44E-01
Skewness =	0.80	0.04
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	2	2
Highest test run =	1.14E-04	-9.08E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.90E-04	1.45E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-3 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	8.59E-05	-9.37E+00
Std Deviation of top performer =	1.13E-05	1.30E-01
Skewness =	0.78	0.62
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	9.81E-05	-9.23E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.50E-04	1.79E-04
Gas 2		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.70E-06	-1.33E+01
Std Deviation of top performer =	1.41E-07	8.25E-02
Skewness =	0.63	0.51
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.85E-06	-1.32E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.50E-06	2.71E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-4 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Liquid		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.25E-01	-2.08E+00
Std Deviation of top performer =	0.00E+00	0.00E+00
Skewness =	#DIV/0!	#DIV/0!
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	#DIV/0!	#DIV/0!
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.25E-01	-2.08E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.25E-01	1.25E-01
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	5.08E+00	-7.35E-01
Std Deviation of top performer =	8.37E+00	2.87E+00
Skewness =	1.64	0.22
Kurtosis =	1.99	-1.07
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	2.04E+01	3.02E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	2.50E+01	4.47E+02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-4 : UPL Calculations for New Sources

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	5.03E-01	-8.65E-01
Std Deviation of top performer =	2.95E-01	7.51E-01
Skewness =	0.01	-1.19
Kurtosis =	0.54	1.83
SE Skewness	1.22	1.22
Skewness Test	normal	normal
SE Kurtosis	2.45	2.45
Kurtosis Test	normal	normal
Number of test runs =	4	4
Number of test runs that contained non-detect values	0	0
Highest test run =	8.59E-01	-1.52E-01
99% t-statistic for UPL	4.54E+00	4.54E+00
99% UPL of top performer (test runs) =	1.53E+00	5.70E+00
Gas 2		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.29E-02	-4.35E+00
Std Deviation of top performer =	1.90E-18	0.00E+00
Skewness =	1.37	#DIV/0!
Kurtosis =	-3.33	#DIV/0!
SE Skewness	1.00	1.00
Skewness Test	normal	#DIV/0!
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	#DIV/0!
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	1.29E-02	-4.35E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	1.29E-02	1.29E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-4 : UPL Calculations for New Sources

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
MACT Floor by Combustor	Reported Values	LN(reported values)
Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Dutch Oven		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	3.52E+02	5.52E+00
Std Deviation of top performer =	2.83E+02	9.78E-01
Skewness =	1.95	-1.29
Kurtosis =	5.37	2.41
SE Skewness	0.41	0.41
Skewness Test	non-normal	normal
SE Kurtosis	0.82	0.82
Kurtosis Test	non-normal	non-normal
Number of test runs =	36	36
Number of test runs that contained non-detect values	0	0
Highest test run =	1.45E+03	7.28E+00
99% t-statistic for UPL	2.44E+00	2.44E+00
99% UPL of top performer (test runs) =	7.66E+02	1.05E+03
Biomass - Fluidized Bed		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.58E+01	3.24E+00
Std Deviation of top performer =	3.51E+00	1.39E-01
Skewness =	-0.19	-0.33
Kurtosis =	-1.51	-1.59
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	3.03E+01	3.41E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	3.42E+01	3.56E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-4 : UPL Calculations for New Sources

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Fuel Cell		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.10E+02	4.53E+00
Std Deviation of top performer =	7.13E+01	6.15E-01
Skewness =	1.03	0.64
Kurtosis =	-0.32	-1.75
SE Skewness	0.93	0.93
Skewness Test	normal	normal
SE Kurtosis	1.85	1.85
Kurtosis Test	normal	normal
Number of test runs =	7	7
Number of test runs that contained non-detect values	0	0
Highest test run =	2.33E+02	5.45E+00
99% t-statistic for UPL	3.14E+00	3.14E+00
99% UPL of top performer (test runs) =	2.64E+02	3.51E+02
Biomass - Stoker		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	9.20E+02	4.32E+00
Std Deviation of top performer =	1.18E+03	3.43E+00
Skewness =	0.93	-0.03
Kurtosis =	-0.83	-2.92
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	2.78E+03	7.93E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top performer (test runs) =	3.73E+03	2.64E+05
Coal - FB		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	8.26E+00	1.94E+00
Std Deviation of top performer =	5.55E+00	7.47E-01
Skewness =	0.69	-0.36
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	1.42E+01	2.65E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	3.99E+01	4.87E+02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-4 : UPL Calculations for New Sources

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Coal - PC		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.50E+01	-4.81E-01
Std Deviation of top performer =	3.75E+01	3.60E+00
Skewness =	0.87	0.86
Kurtosis =	-1.68	-1.71
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	0	0
Highest test run =	7.79E+01	4.36E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top performer (test runs) =	9.75E+01	6.44E+02
Coal - Stoker		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	4.29E+00	1.45E+00
Std Deviation of top performer =	3.93E-01	9.24E-02
Skewness =	-0.34	-0.47
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	4.67E+00	1.54E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	6.53E+00	7.24E+00

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-5 : UPL Calculations for New Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)
Liquid	14	16
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.09E-03	-6.82E+00
Std Deviation of top performer =	7.48E-05	6.78E-02
Skewness =	0.94	0.86
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	1.18E-03	-6.75E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.52E-03	1.61E-03
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.57E-03	-6.06E+00
Std Deviation of top performer =	1.23E-03	5.52E-01
Skewness =	-0.47	-1.08
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	3.73E-03	-5.59E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	9.59E-03	5.41E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-5 : UPL Calculations for New Sources

Parameters	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.58E-03	-5.96E+00
Std Deviation of top performer =	2.15E-04	8.58E-02
Skewness =	-1.73	-1.73
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.70E-03	-5.91E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	3.80E-03	4.19E-03
Gas 2		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.67E-03	-5.97E+00
Std Deviation of top performer =	9.86E-04	3.46E-01
Skewness =	1.64	1.56
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	3.80E-03	-5.57E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	8.28E-03	1.83E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-5 : UPL Calculations for New Sources

Parameters	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)
MACT Floor by Combustor	Reported Values	LN(reported values)
Parameters	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Dutch Oven		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	9.52E-03	-4.69E+00
Std Deviation of top performer =	3.23E-03	3.48E-01
Skewness =	0.34	-0.17
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.29E-02	-4.35E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.79E-02	6.63E-02
Biomass - Fluidized Bed		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.27E-03	-6.13E+00
Std Deviation of top performer =	7.41E-04	3.42E-01
Skewness =	-0.10	-0.58
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	3.00E-03	-5.81E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	6.48E-03	1.53E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-5 : UPL Calculations for New Sources

Parameters	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Fuel Cell		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.42E-04	-8.33E+00
Std Deviation of top performer =	3.09E-05	1.30E-01
Skewness =	-0.45	-0.62
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	2	2
Highest test run =	2.71E-04	-8.21E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	4.17E-04	5.03E-04
Biomass - Stoker		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.52E-05	-1.11E+01
Std Deviation of top performer =	5.87E-06	3.59E-01
Skewness =	1.72	1.71
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	2	2
Highest test run =	2.20E-05	-1.07E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	4.86E-05	1.12E-04
Coal - FB		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	9.05E-06	-1.16E+01
Std Deviation of top performer =	2.87E-06	3.32E-01
Skewness =	-0.13	-0.60
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.19E-05	-1.13E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.54E-05	5.76E-05

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-5 : UPL Calculations for New Sources

Parameters	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)	Total Mass PCDD/PCDF (ng/dscm @ 7% O2)
Coal - PC		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.04E-03	-6.87E+00
Std Deviation of top performer =	7.60E-05	7.23E-02
Skewness =	1.18	1.12
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.12E-03	-6.79E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.47E-03	1.56E-03
Coal - Stoker		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.52E-03	-6.50E+00
Std Deviation of top performer =	2.30E-04	1.46E-01
Skewness =	1.56	1.51
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.78E-03	-6.33E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	2.82E-03	3.46E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-6 : UPL Calculations for New Sources

Parameters	Reported Values	LN(reported values)
	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Liquid		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.77E-03	-6.35E+00
Std Deviation of top performer =	3.86E-04	2.34E-01
Skewness =	-1.55	-1.60
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.05E-03	-6.19E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	3.96E-03	6.59E-03
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.21E-01	-2.19E+00
Std Deviation of top performer =	5.12E-02	5.12E-01
Skewness =	-1.73	-1.73
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.51E-01	-1.89E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	4.12E-01	2.06E+00

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-6 : UPL Calculations for New Sources

Parameters	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.27E-02	-4.37E+00
Std Deviation of top performer =	2.12E-18	0.00E+00
Skewness =	-2.45	#DIV/0!
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	#DIV/0!
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.27E-02	-4.37E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.27E-02	1.27E-02
Gas 2		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	4.50E-02	-3.18E+00
Std Deviation of top performer =	2.03E-02	5.02E-01
Skewness =	-0.30	-0.92
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	6.46E-02	-2.74E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.60E-01	7.23E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-6 : UPL Calculations for New Sources

Parameters	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
MACT Floor by Combustor	Reported Values	LN(reported values)
Parameters	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Dutch Oven		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.63E-01	-1.88E+00
Std Deviation of top performer =	6.36E-02	4.40E-01
Skewness =	-0.88	-1.26
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.19E-01	-1.52E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	5.24E-01	1.87E+00
Biomass - Fluidized Bed		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	3.00E-02	-3.55E+00
Std Deviation of top performer =	1.09E-02	3.38E-01
Skewness =	1.69	1.66
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	4.25E-02	-3.16E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	9.17E-02	1.97E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-6 : UPL Calculations for New Sources

Parameters	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Fuel Cell		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.79E-02	-5.06E+00
Std Deviation of top performer =	1.65E-02	2.44E+00
Skewness =	-0.61	-1.65
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	3.31E-02	-3.41E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.12E-01	6.78E+03
Biomass - Stoker		35
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.93E-02	-3.61E+00
Std Deviation of top performer =	1.46E-02	4.63E-01
Skewness =	1.67	1.59
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	4.61E-02	-3.08E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	1.12E-01	3.77E-01
Coal - FB		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.91E-03	-6.26E+00
Std Deviation of top performer =	2.34E-04	1.19E-01
Skewness =	1.51	1.46
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.18E-03	-6.13E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	3.25E-03	3.75E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix F-6 : UPL Calculations for New Sources

Parameters	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Coal - PC		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	1.82E-02	-4.04E+00
Std Deviation of top performer =	6.13E-03	3.16E-01
Skewness =	1.66	1.61
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	2.52E-02	-3.68E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	5.30E-02	1.06E-01
Coal - Stoker		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top performer =	2.53E-03	-6.00E+00
Std Deviation of top performer =	5.86E-04	2.22E-01
Skewness =	1.51	1.41
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	3.20E-03	-5.74E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top performer (test runs) =	5.87E-03	8.79E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-1: Summary of Number of Sources with Test Data and Top 12 Percent under Alternative Solid Waste Definition

MACT Floor by Fuel Type

Parameters	PM Filterable (lb/mmBtu)	Hg	HCl	CO	D/F total mass	D/F TEQ	Total Count of Units in Subcategory
Biomass							239
No. of sources =	108	42	51				
No. in MACT floor =	13	6	7				
Coal							525
No. of sources =	335	265	296				
No. in MACT floor =	41	32	36				
Liquid							791
No. of sources =	81	173	185	106	14	14	
No. in MACT floor =	10	21	23	13	2	2	
Gas 1							10775
No. of sources =	143	13	10	753	7	7	
No. in MACT floor =	18	2	2	91	1	1	
Gas 1 - metallurgical furnaces							749
No. of sources =	9	7	9	14	7	7	
No. in MACT floor =	2	1	2	2	1	1	
Gas 2							196
No. of sources =	13	8	8	74	5	5	
No. in MACT floor =	2	1	1	9	1	1	

Parameters	CO (ppm @ 3% O2)	Dioxin/Furans (Total Mass) ppm@ 3% O2)	Dioxin/Furans (TEQ) ppm@ 3% O2)	Total Count of Units in Subcategory
Biomass - Dutch Oven				40
No. of sources =	13	2	2	
No. in MACT floor =	2	1	1	
Biomass - Fluidized Bed				7
No. of sources =	1	1	1	
No. in MACT floor =	1	1	1	
Biomass - Fuel Cell				16
No. of sources =	11	5	5	
No. in MACT floor =	5	5	5	
Biomass - Stoker				176
No. of sources =	71	3	3	
No. in MACT floor =	9	1	1	
Coal - FB				26
No. of sources =	12	8	8	
No. in MACT floor =	5	5	5	
Coal - PC				180
No. of sources =	39	8	8	
No. in MACT floor =	5	1	1	
Coal - Stoker				319
No. of sources =	45	8	8	
No. in MACT floor =	6	1	1	

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
FLUSSugarCorp	Boiler No. 7	Mercury (Hg)	Biomass	9.73E-08		1	YES
FLSmurfit-Stone	5PB	Mercury (Hg)	Biomass	2.05E-07		2	YES
NYIntlPaperTiconde roga	PB1	Mercury (Hg)	Biomass	2.27E-07		3	YES
NDCargillWestFarg o	Foster Wheeler Boiler (EU43)	Mercury (Hg)	Biomass	2.30E-07		4	YES
NCGPRoxboro	ES-1 Wood fired Boiler	Mercury (Hg)	Biomass	2.67E-07		5	YES
FLSugarCaneGrow ersCoop	Boiler No. 8	Mercury (Hg)	Biomass	3.40E-07		6	YES
TXMeadWestvacoE vadale	21-2105	Mercury (Hg)	Biomass	3.73E-07		7	NO
HIPuuneneSugarMil l	Boiler 1	Mercury (Hg)	Biomass	4.26E-07		8	NO
HIPuuneneSugarMil l	Boiler 2	Mercury (Hg)	Biomass	4.26E-07		9	NO
SCNewSouthCamd en	WWB1	Mercury (Hg)	Biomass	4.39E-07		10	NO
MNDESPHansONy man	EU007	Mercury (Hg)	Biomass	4.43E-07		11	NO
SCNewSouthCoCo nway	WWB1	Mercury (Hg)	Biomass	4.76E-07		12	NO
ORRoseburgForest Dillard	Boiler #6	Mercury (Hg)	Biomass	5.04E-07		13	NO
ARPotlatchForestW arren	Wellons Boiler	Mercury (Hg)	Biomass	5.41E-07		14	NO
GAInternationalPap erAugustaMills	PB3A	Mercury (Hg)	Biomass	5.57E-07		15	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ALIPCourtland	No. 1 Combination Boiler / 11CU101	Mercury (Hg)	Biomass	6.08E-07		16	NO
ARWeyerhaeuserDi erksMill	SN-45	Mercury (Hg)	Biomass	6.24E-07		17	NO
SCSmurfitStone	Unit 15: Boiler #3	Mercury (Hg)	Biomass	6.67E-07		18	NO
ORRoseburgRiddle 2	Boiler #2	Mercury (Hg)	Biomass	7.45E-07		19	NO
GAGPCelluloseBru nswick	U700 -- No. 4 Power Boiler	Mercury (Hg)	Biomass	7.66E-07		20	NO
ARAnthonyForestPr oducts	SN-12	Mercury (Hg)	Biomass	8.24E-07		21	NO
NCLPRoaringRiver	Boiler #2	Mercury (Hg)	Biomass	9.13E-07		22	NO
MSWeyerhaeuserBr uce	AA-002 No. 2 Boiler	Mercury (Hg)	Biomass	9.93E-07		23	NO
IDMoyieSprings Lumber420	HFB1	Mercury (Hg)	Biomass	1.02E-06		24	NO
MSGPNewAugusta	AA-015 Power Boiler	Mercury (Hg)	Biomass	1.10E-06		25	NO
GARayonierJesupM ill	PB01	Mercury (Hg)	Biomass	1.19E-06		26	NO
ARGBPMorrilton	SN-04	Mercury (Hg)	Biomass	1.22E-06		27	NO
GAGPWarmSprings	EU600 Wood Fuel Boiler	Mercury (Hg)	Biomass	1.36E-06		28	NO
ORRoseburgCoquill e	Boiler 1	Mercury (Hg)	Biomass	1.41E-06		29	NO
ORRoseburgForest Dillard	Boiler #2	Mercury (Hg)	Biomass	1.64E-06		30	NO
ORRosboroSpringfi eld	DV 01.1	Mercury (Hg)	Biomass	1.65E-06		31	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
FLUSSugarCorp	Boiler No. 4	Mercury (Hg)	Biomass	1.77E-06		32	NO
WAWeyerhaeuser_ Raymond	Hog Fuel Boiler EU1	Mercury (Hg)	Biomass	1.86E-06		33	NO
ORRoseburgForest Dillard	Boiler #1	Mercury (Hg)	Biomass	2.28E-06		34	NO
WAGraysHarborPa per	No. 8 Boiler (EU1)	Mercury (Hg)	Biomass	2.42E-06		35	NO
WASimpsonLumber Company	EU1	Mercury (Hg)	Biomass	2.50E-06		36	NO
WAGraysHarborPa per	No. 6 Boiler (EU2)	Mercury (Hg)	Biomass	2.74E-06		37	NO
ORWeyerhaeuserC oWarrentonLumber Mill	3-HFB	Mercury (Hg)	Biomass	2.92E-06		38	NO
MIWhitePineElectric	IBW Boiler	Mercury (Hg)	Biomass	2.97E-06		39	NO
FLOsceolaFarms	Boiler No. 4	Mercury (Hg)	Biomass	3.21E-06		40	NO
FLOsceolaFarms	Boiler No. 2	Mercury (Hg)	Biomass	6.30E-06		41	NO
NCLPRoaringRiver	Boiler #3	Mercury (Hg)	Biomass	8.00E-06		42	NO
IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Coal	1.43E-08		1	YES
MITBSimonPowerPl ant	Unit 4	Mercury (Hg)	Coal	2.87E-08		2	YES
IAArchersDanielsMi dlandDesMoines	Asea Boiler #1	Mercury (Hg)	Coal	3.84E-08		3	YES
IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Mercury (Hg)	Coal	6.17E-08		4	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
INPurdueUniverisity	Boiler 5	Mercury (Hg)	Coal	1.23E-07		5	YES
ILPolyOne	B1	Mercury (Hg)	Coal	1.23E-07		6	YES
MITBSimonPowerPl ant	Unit 2	Mercury (Hg)	Coal	1.44E-07		7	YES
MNADMCornDivisio n	Coal Boiler #1 EU049	Mercury (Hg)	Coal	1.59E-07		8	YES
MNADMCornDivisio n	Coal Boiler #2 EU050	Mercury (Hg)	Coal	1.59E-07		9	YES
MITBSimonPowerPl ant	Unit 1	Mercury (Hg)	Coal	1.84E-07		10	YES
NCTysonHarmony	TYS-ES-21	Mercury (Hg)	Coal	2.43E-07		11	YES
IDAmalgamatedSug arCoTwinFalls	S-B1	Mercury (Hg)	Coal	2.56E-07		12	YES
AKDoyonUtilities_A K	4	Mercury (Hg)	Coal	3.52E-07		13	YES
IAADMCornProcess ingCR	EU-501B	Mercury (Hg)	Coal	3.58E-07		14	YES
VAUniversityofVirgi nia	7103-1-01R	Mercury (Hg)	Coal	3.70E-07		15	YES
VADukeEnergyNarr ows	Boiler #1	Mercury (Hg)	Coal	3.83E-07		16	YES
MINeenahPaperMI	Boiler 1	Mercury (Hg)	Coal	3.94E-07		17	YES
OHAppletonIdeas	Boiler 4 (B003)	Mercury (Hg)	Coal	3.94E-07		18	YES
TNNissanSmyrna	Boiler 3	Mercury (Hg)	Coal	4.17E-07		19	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCUNCCogen	ES-001	Mercury (Hg)	Coal	4.18E-07		20	YES
INTateLyleSagamore	31B1	Mercury (Hg)	Coal	4.31E-07		21	YES
OKGPMuskogeeMill	B-3	Mercury (Hg)	Coal	4.67E-07		22	YES
TNCargillMemphis	Stoker Boiler 8001	Mercury (Hg)	Coal	4.67E-07		23	YES
WIWausauRhine	B26	Mercury (Hg)	Coal	4.80E-07		24	YES
ALIPCourtland	No.2 Combination Boiler / 11CU201	Mercury (Hg)	Coal	5.38E-07		25	YES
VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Coal	5.39E-07		26	YES
TNNissanSmyrna	Boiler 2	Mercury (Hg)	Coal	5.47E-07		27	YES
PANorfolkSouthern	031	Mercury (Hg)	Coal	6.60E-07		28	YES
PANorfolkSouthern	032	Mercury (Hg)	Coal	6.60E-07		29	YES
PANorfolkSouthern	033	Mercury (Hg)	Coal	6.60E-07		30	YES
MNRochesterUtilities	EU003	Mercury (Hg)	Coal	6.61E-07		31	YES
VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Coal	6.71E-07		32	YES
ILBungeDanville	CFB Boiler	Mercury (Hg)	Coal	7.04E-07		33	NO
AKDoyonUtilities_AK	7	Mercury (Hg)	Coal	7.22E-07		34	NO
IAUofNorthernIowa	Boiler #3	Mercury (Hg)	Coal	7.68E-07		35	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VARadfordArmyAm munitionPlant	Boiler No. 5	Mercury (Hg)	Coal	7.74E-07		36	NO
OHCargillSidney	B002	Mercury (Hg)	Coal	7.93E-07		37	NO
GAInternationalPap erAugustaMills	PB1A	Mercury (Hg)	Coal	8.41E-07		38	NO
TNEastman_NO_C BIDATA	Boiler 30	Mercury (Hg)	Coal	8.89E-07		39	NO
NJVinelandMuniEle ctric-HowardDown	Unit 10	Mercury (Hg)	Coal	8.97E-07		40	NO
VASmurfitStoneWe stpt	PB08	Mercury (Hg)	Coal	9.48E-07		41	NO
NCMCASCherryPoi nt	CP-152-BOIL-02	Mercury (Hg)	Coal	9.50E-07		42	NO
VAVirginiaPolytechn ic	Boiler 11	Mercury (Hg)	Coal	1.00E-06		43	NO
WVPPGMartinsville	R011-Boiler 3	Mercury (Hg)	Coal	1.02E-06		44	NO
WIGreenBayPacka gingMillDivision	Boiler B26- Coal Fired Boiler	Mercury (Hg)	Coal	1.03E-06		45	NO
IDTASCONampa	Babcock and Wilcox (B&W) #1	Mercury (Hg)	Coal	1.04E-06		46	NO
IDTASCONampa	Babcock and Wilcox (B&W) #2	Mercury (Hg)	Coal	1.04E-06		47	NO
MNRochesterUtilitie s	EU002	Mercury (Hg)	Coal	1.06E-06		48	NO
IDAmalgamatedSug arCoTwinFalls	S-B2	Mercury (Hg)	Coal	1.13E-06		49	NO
NDMinnDakFarmer s	Babcock and Wilcox Boiler #5	Mercury (Hg)	Coal	1.14E-06		50	NO
IDTASCOPaul	Erie City Boiler	Mercury (Hg)	Coal	1.19E-06		51	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VADukeEnergyNarrows	Boiler #4	Mercury (Hg)	Coal	1.20E-06		52	NO
MOAnheuserBusch	Boiler 5	Mercury (Hg)	Coal	1.21E-06		53	NO
MOAnheuserBusch	Boiler 1	Mercury (Hg)	Coal	1.25E-06		54	NO
GAGPSRMRiincon	EU BO01	Mercury (Hg)	Coal	1.26E-06		55	NO
VAMeadWestVaco-CovingtonVA	PWR006	Mercury (Hg)	Coal	1.29E-06		56	NO
VAMeadWestVaco-CovingtonVA	PWR007	Mercury (Hg)	Coal	1.29E-06		57	NO
VAMeadWestVaco-CovingtonVA	PWR008	Mercury (Hg)	Coal	1.29E-06		58	NO
VAMeadWestVaco-CovingtonVA	PWR009	Mercury (Hg)	Coal	1.29E-06		59	NO
WIAppleton	B22 Coal Fired Boiler	Mercury (Hg)	Coal	1.30E-06		60	NO
INSABICInnovative Plastics	01-001 BW1 Boiler	Mercury (Hg)	Coal	1.34E-06		61	NO
INSABICInnovative Plastics	01-001 BW2 Boiler	Mercury (Hg)	Coal	1.34E-06		62	NO
OHSmartPapersHoldingsLLC	B020	Mercury (Hg)	Coal	1.39E-06		63	NO
WIGPGreenBay2818	B25 - Stoker Boiler #5	Mercury (Hg)	Coal	1.39E-06		64	NO
WIGPGreenBay2818	B26 - Stoker Boiler #6	Mercury (Hg)	Coal	1.39E-06		65	NO
WIGPGreenBay2818	B27 - Cyclone Boiler #7	Mercury (Hg)	Coal	1.39E-06		66	NO
WIGPGreenBay2818	B28 - Stoker Boiler #8	Mercury (Hg)	Coal	1.39E-06		67	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VADukeEnergyNarrow s	Boiler #5	Mercury (Hg)	Coal	1.41E-06		68	NO
ALGeorgiaPacificNa heola	Z016 - CB2	Mercury (Hg)	Coal	1.43E-06		69	NO
MNRochesterUtilitie s	EU001	Mercury (Hg)	Coal	1.47E-06		70	NO
VADukeEnergyNarrow s	Boiler #3	Mercury (Hg)	Coal	1.47E-06		71	NO
MIHollandBPW	Unit 3	Mercury (Hg)	Coal	1.49E-06		72	NO
GACaraustar	CB01	Mercury (Hg)	Coal	1.54E-06		73	NO
WVPPGMartinsville	R072-Boiler 5	Mercury (Hg)	Coal	1.55E-06		74	NO
WIWausauRhine	B20	Mercury (Hg)	Coal	1.60E-06		75	NO
WIWausauRhine	B21	Mercury (Hg)	Coal	1.60E-06		76	NO
WIWausauRhine	B22	Mercury (Hg)	Coal	1.60E-06		77	NO
WIWausauRhine	B23	Mercury (Hg)	Coal	1.60E-06		78	NO
OHDukeEnergyGen erationCincinnati	B022 (Boiler #4, IG- 4A)	Mercury (Hg)	Coal	1.71E-06		79	NO
MNAmericanCrystal Crookston	Boiler 1	Mercury (Hg)	Coal	1.72E-06		80	NO
MNWausauPaper- Brainerd	EU 002	Mercury (Hg)	Coal	1.72E-06		81	NO
MNWausauPaper- Brainerd	EU 003	Mercury (Hg)	Coal	1.72E-06		82	NO
IDTASCOPaul	Babcock and Wilcox (B&W) Boiler	Mercury (Hg)	Coal	1.76E-06		83	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WIDairylandPower- Alma	Alma 1	Mercury (Hg)	Coal	1.78E-06		84	NO
WIDairylandPower- Alma	Alma 2	Mercury (Hg)	Coal	1.78E-06		85	NO
WIDairylandPower- Alma	Alma 3	Mercury (Hg)	Coal	1.78E-06		86	NO
MAUMass	EU#3	Mercury (Hg)	Coal	1.79E-06		87	NO
MAUMass	EU#4	Mercury (Hg)	Coal	1.79E-06		88	NO
MAUMass	EU#5	Mercury (Hg)	Coal	1.79E-06		89	NO
OHCargillSidney	B001	Mercury (Hg)	Coal	1.80E-06		90	NO
MIPharma&Upjohn1 180	Boiler 3	Mercury (Hg)	Coal	1.82E-06		91	NO
OHPainesvilleMunic ipalElectric	B004	Mercury (Hg)	Coal	1.84E-06		92	NO
WIThilmanyLLC	B11	Mercury (Hg)	Coal	1.85E-06		93	NO
WIThilmanyLLC	B09	Mercury (Hg)	Coal	1.85E-06		94	NO
WINewPage- WisconsinRapids	Power Boiler 2 - B20	Mercury (Hg)	Coal	1.85E-06		95	NO
GACargill- Gainesville	B001	Mercury (Hg)	Coal	1.90E-06		96	NO
OHMortonSaltRittm an	B003 - Coal-Fired Boiler #1	Mercury (Hg)	Coal	1.90E-06		97	NO
VARadfordArmyAm munitionPlant	Boiler No. 3	Mercury (Hg)	Coal	1.90E-06		98	NO
NCUNCCogen	ES-002	Mercury (Hg)	Coal	1.93E-06		99	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IAMuscatinePower andWater	Unit 7	Mercury (Hg)	Coal	1.96E-06		100	NO
OKGPMuskogeeMill	B-4	Mercury (Hg)	Coal	2.00E-06		101	NO
MOIPLBlueValley	Unit 1	Mercury (Hg)	Coal	2.09E-06		102	NO
PABayValleyFoods Pittsburgh	Boiler No. 3	Mercury (Hg)	Coal	2.09E-06		103	NO
PABayValleyFoods Pittsburgh	Boiler No. 4	Mercury (Hg)	Coal	2.09E-06		104	NO
MDDeptofNavySup portFacilityIndianHe ad	PTO - 873 - E3 (3- 0006) (Boiler 3)	Mercury (Hg)	Coal	2.10E-06		105	NO
OHMortonSaltRittm an	B002 - Coal-Fired Boiler #2	Mercury (Hg)	Coal	2.10E-06		106	NO
NCBlueRidgePaper	G11040	Mercury (Hg)	Coal	2.10E-06		107	NO
MOAnheuserBusch	Boiler 8	Mercury (Hg)	Coal	2.13E-06		108	NO
MITBSimonPowerPl ant	Unit 3	Mercury (Hg)	Coal	2.13E-06		109	NO
TNEastman_NO_C BIDATA	Boiler 31	Mercury (Hg)	Coal	2.13E-06		110	NO
ALGeorgiaPacificNa heola	Z015 - CB1	Mercury (Hg)	Coal	2.14E-06		111	NO
WYGeneralChemic al	GR-2-L (C BOILER)	Mercury (Hg)	Coal	2.18E-06		112	NO
VARadfordArmyAm munitionPlant	Boiler No. 2	Mercury (Hg)	Coal	2.26E-06		113	NO
ILPrairiePowerPearl	B1	Mercury (Hg)	Coal	2.27E-06		114	NO
WINewPage- WisconsinRapids	Power Boiler 1 - B21	Mercury (Hg)	Coal	2.28E-06		115	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
OHUofCincinnati	B108	Mercury (Hg)	Coal	2.28E-06		116	NO
NYAESWestover	Boiler 13	Mercury (Hg)	Coal	2.29E-06		117	NO
VAGPBigIsland270 3	PWR04 - No. 4 Power Boiler	Mercury (Hg)	Coal	2.29E-06		118	NO
VAPhilipMorrisPark 500	B3	Mercury (Hg)	Coal	2.34E-06		119	NO
MOIP&LMissouriCit y	Unit 1	Mercury (Hg)	Coal	2.35E-06		120	NO
MOIP&LMissouriCit y	Unit 2	Mercury (Hg)	Coal	2.35E-06		121	NO
MOBASFHannibal	Coal Fired Boiler #5	Mercury (Hg)	Coal	2.38E-06		122	NO
VAINVISTAWaynes boro	2-205 (B#2) Boiler #2	Mercury (Hg)	Coal	2.46E-06		123	NO
WVUCCSouthCharl eston	B25	Mercury (Hg)	Coal	2.46E-06		124	NO
MOMallinckrodt	Boiler 6	Mercury (Hg)	Coal	2.47E-06		125	NO
WINewPageBiron	B24	Mercury (Hg)	Coal	2.54E-06		126	NO
TNOakRidge-Y12	Boiler/Unit 31	Mercury (Hg)	Coal	2.57E-06		127	NO
OHSelbyMuniLight Plant	B008	Mercury (Hg)	Coal	2.63E-06		128	NO
SCClemson	04-B04	Mercury (Hg)	Coal	2.63E-06		129	NO
OKGPMuskogeeMill	B-2	Mercury (Hg)	Coal	2.67E-06		130	NO
TNBowaterNewspr int	Power Boiler No. 3	Mercury (Hg)	Coal	2.77E-06		131	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WIWausau	# 6 Power Boiler (B20)	Mercury (Hg)	Coal	2.79E-06		132	NO
OHShelbyMuniLight Plant	B007	Mercury (Hg)	Coal	2.80E-06		133	NO
VADukeEnergyNarr ows	Boiler #6	Mercury (Hg)	Coal	2.83E-06		134	NO
WIthilmanyPapers NicoletMill	B23	Mercury (Hg)	Coal	2.86E-06		135	NO
WIthilmanyPapers NicoletMill	B24	Mercury (Hg)	Coal	2.86E-06		136	NO
NYCornellUniversity	B1	Mercury (Hg)	Coal	2.95E-06		137	NO
TNEastman_NO_C BIDATA	Boiler 25	Mercury (Hg)	Coal	2.97E-06		138	NO
WIWausau	# 5 Power Boiler (B24)	Mercury (Hg)	Coal	3.08E-06		139	NO
NCBlueRidgePaper	G11039	Mercury (Hg)	Coal	3.13E-06		140	NO
PAPHGlatfelter	PB4	Mercury (Hg)	Coal	3.14E-06		141	NO
PAPHGlatfelter	PB1	Mercury (Hg)	Coal	3.15E-06		142	NO
PAPHGlatfelter	PB3	Mercury (Hg)	Coal	3.15E-06		143	NO
ILRockIslandArsena l	Boiler #4	Mercury (Hg)	Coal	3.15E-06		144	NO
TNEastman_NO_C BIDATA	Boiler 27	Mercury (Hg)	Coal	3.23E-06		145	NO
ILADMPeoria	EU-PH101	Mercury (Hg)	Coal	3.25E-06		146	NO
ILADMPeoria	EU-PH102	Mercury (Hg)	Coal	3.25E-06		147	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WYGeneralChemical	GR-3-W (D BOILER)	Mercury (Hg)	Coal	3.27E-06		148	NO
WVSunocoIncNeal PlantKenova	B602, Coal Boiler	Mercury (Hg)	Coal	3.30E-06		149	NO
MOIPLBlueValley	Unit 2	Mercury (Hg)	Coal	3.32E-06		150	NO
GAInternationalPaper AugustaMills	PB2A	Mercury (Hg)	Coal	3.35E-06		151	NO
ILRockIslandArsenal	NBN 12602 (Boiler #1)	Mercury (Hg)	Coal	3.36E-06		152	NO
MIManistiquePaper	EUBLR001	Mercury (Hg)	Coal	3.37E-06		153	NO
MIManistiquePaper	EUBLR002	Mercury (Hg)	Coal	3.37E-06		154	NO
ILADMQuincy	EU-5003	Mercury (Hg)	Coal	3.42E-06		155	NO
ILADMQuincy	EU-5004	Mercury (Hg)	Coal	3.42E-06		156	NO
MIHollandBPW	Unit 4	Mercury (Hg)	Coal	3.45E-06		157	NO
VAVirginiaPolytechnic	Boiler 7	Mercury (Hg)	Coal	3.50E-06		158	NO
MNHibbing	Unit 2A	Mercury (Hg)	Coal	3.50E-06		159	NO
PABayValleyFoods Pittsburgh	Boiler No. 1	Mercury (Hg)	Coal	3.55E-06		160	NO
PABayValleyFoods Pittsburgh	Boiler No. 2	Mercury (Hg)	Coal	3.55E-06		161	NO
VAPhilipMorrisPark 500	B2	Mercury (Hg)	Coal	3.57E-06		162	NO
MNWausauPaper- Brainerd	EU 004	Mercury (Hg)	Coal	3.67E-06		163	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MNHibbing	Unit 1A	Mercury (Hg)	Coal	3.70E-06		164	NO
PADomtarJohnsonb urg	#81 Coal Boiler	Mercury (Hg)	Coal	3.77E-06		165	NO
PADomtarJohnsonb urg	#82 Coal Boiler	Mercury (Hg)	Coal	3.77E-06		166	NO
MNAmericanCrystal Moorhead	Boiler 3	Mercury (Hg)	Coal	3.78E-06		167	NO
TNViskase	Boiler 1	Mercury (Hg)	Coal	3.80E-06		168	NO
TNViskase	Boiler 2	Mercury (Hg)	Coal	3.80E-06		169	NO
NCMillerCoors	ES-1 Coal/No. 2 & 6 Fuel Oil Boiler	Mercury (Hg)	Coal	3.86E-06		170	NO
OHUSEnrichmentC orpPiketon	X-600 Boiler No. 3	Mercury (Hg)	Coal	3.92E-06		171	NO
WIDomtarNekoosa	B20 - Boiler No. 1	Mercury (Hg)	Coal	3.93E-06		172	NO
WIDomtarNekoosa	B21 - Boiler No. 2	Mercury (Hg)	Coal	3.93E-06		173	NO
WIDomtarNekoosa	B22 - Boiler No. 7	Mercury (Hg)	Coal	3.93E-06		174	NO
WIDomtarNekoosa	B24 - Boiler No. 10	Mercury (Hg)	Coal	3.93E-06		175	NO
ILAbbottAbbottPark	Unit 5AP	Mercury (Hg)	Coal	3.94E-06		176	NO
MICityofEscanaba	EUBOILER#1	Mercury (Hg)	Coal	4.00E-06		177	NO
NCKapStone	PB1	Mercury (Hg)	Coal	4.01E-06		178	NO
MNDESPHansONy man	EU003	Mercury (Hg)	Coal	4.09E-06		179	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MDDeptofNavySupportFacilityIndianHead	PTO - 873 - E2 (3-0005) (Boiler 2)	Mercury (Hg)	Coal	4.10E-06		180	NO
MIPharma&Upjohn1178	EUEBLR43-5 (Boiler No. 5)	Mercury (Hg)	Coal	4.11E-06		181	NO
NCBlueRidgePaper	G11037	Mercury (Hg)	Coal	4.24E-06		182	NO
NCBlueRidgePaper	G11038	Mercury (Hg)	Coal	4.24E-06		183	NO
MNDESPHansONyman	EU002	Mercury (Hg)	Coal	4.27E-06		184	NO
VAPhilipMorrisMC	PC	Mercury (Hg)	Coal	4.37E-06		185	NO
OHAkronThermalEnergy	Boiler #32 (B001)	Mercury (Hg)	Coal	4.37E-06		186	NO
OHAppletonIdeas	Boiler 2 (B002)	Mercury (Hg)	Coal	4.38E-06		187	NO
OHCampbellsSoupCo	B001	Mercury (Hg)	Coal	4.60E-06		188	NO
OHCampbellsSoupCo	B002	Mercury (Hg)	Coal	4.60E-06		189	NO
WVATKRocketCenter	NB2766 W-17479-W (Boiler 17)	Mercury (Hg)	Coal	4.76E-06		190	NO
MIPharma&Upjohn1178	EUEBLR43-2 (Boiler No. 2)	Mercury (Hg)	Coal	4.79E-06		191	NO
VARadfordArmyAmmunitionPlant	Boiler No. 4	Mercury (Hg)	Coal	4.80E-06		192	NO
NCMCASCherryPoint	CP-152-BOIL-01	Mercury (Hg)	Coal	4.83E-06		193	NO
NYCornellUniversity	B8	Mercury (Hg)	Coal	4.83E-06		194	NO
KYISPCChemicals	0AA (Riley)	Mercury (Hg)	Coal	4.91E-06		195	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WVBayerInstitute	Boiler #10	Mercury (Hg)	Coal	4.93E-06		196	NO
WVBayerInstitute	Boiler #11	Mercury (Hg)	Coal	4.93E-06		197	NO
WVBayerInstitute	Boiler #12	Mercury (Hg)	Coal	4.93E-06		198	NO
OHSelbyMuniLight Plant	B006	Mercury (Hg)	Coal	4.98E-06		199	NO
MDNewPage-Luke	No. 25	Mercury (Hg)	Coal	5.21E-06		200	NO
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Mercury (Hg)	Coal	5.25E-06		201	NO
TNDuPontOldHickor yPlant	#24 Boiler	Mercury (Hg)	Coal	5.27E-06		202	NO
PAARGBradford	37	Mercury (Hg)	Coal	5.51E-06		203	NO
NCCampLejeuneM CB	A-HP-1700-01	Mercury (Hg)	Coal	5.65E-06		204	NO
NCCampLejeuneM CB	A-HP-1700-02	Mercury (Hg)	Coal	5.65E-06		205	NO
TNDuPontOldHickor yPlant	#20 Boiler	Mercury (Hg)	Coal	5.67E-06		206	NO
MOTrigenKansasCit y	Boiler 6	Mercury (Hg)	Coal	5.72E-06		207	NO
MOTrigenKansasCit y	Boiler 8	Mercury (Hg)	Coal	5.76E-06		208	NO
FLIPPensacola	Power Boiler 3 / EU ID 33	Mercury (Hg)	Coal	5.85E-06		209	NO
OHBataviaTransmis sions	Boiler 2 (B002)	Mercury (Hg)	Coal	6.00E-06		210	NO
OHPainesvilleMunic ipalElectric	B001	Mercury (Hg)	Coal	6.04E-06		211	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
OHSmartPapersHol dingsLLC	B010	Mercury (Hg)	Coal	6.16E-06		212	NO
INSABICInnovative Plastics	09-002 Erie Boiler	Mercury (Hg)	Coal	6.24E-06		213	NO
INSABICInnovative Plastics	09-002 Lasker Boiler	Mercury (Hg)	Coal	6.24E-06		214	NO
FLIPPensacola	Power Boiler 4 / EU ID 37	Mercury (Hg)	Coal	6.30E-06		215	NO
OHPainesvilleMunic ipalElectric	B003	Mercury (Hg)	Coal	6.34E-06		216	NO
MIMenominee	#3 Boiler	Mercury (Hg)	Coal	6.60E-06		217	NO
ALCargill-Decatur	Keeler (S-407)	Mercury (Hg)	Coal	6.63E-06		218	NO
OHMedicalCenterC o1915	B003	Mercury (Hg)	Coal	6.83E-06		219	NO
OHMedicalCenterC o1915	B004	Mercury (Hg)	Coal	6.83E-06		220	NO
TNBowaterNewspr int	Power Boiler No. 1	Mercury (Hg)	Coal	6.93E-06		221	NO
NCCampLejeuneM CB	A-HP-1700-03	Mercury (Hg)	Coal	6.95E-06		222	NO
NCCampLejeuneM CB	A-HP-1700-04	Mercury (Hg)	Coal	6.95E-06		223	NO
WVDuPontWashing tonWorks	P05	Mercury (Hg)	Coal	7.14E-06		224	NO
ILDukeEnergyTusco la	Unit 1	Mercury (Hg)	Coal	7.19E-06		225	NO
OHUSEnrichmentC orpPiketon	X-600 Boiler No. 1	Mercury (Hg)	Coal	7.39E-06		226	NO
VAGPJarrattFiberbo ard	EP-15 No. 3 Keeler Boiler	Mercury (Hg)	Coal	7.40E-06		227	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MIEBddyPaper	EUBOILER5	Mercury (Hg)	Coal	7.43E-06		228	NO
WINewPageBiron	B23	Mercury (Hg)	Coal	7.69E-06		229	NO
OHUSEnrichmentC orpPiketon	X-600 Boiler No. 2	Mercury (Hg)	Coal	8.06E-06		230	NO
MNHibbing	Unit 3A	Mercury (Hg)	Coal	8.43E-06		231	NO
IAJohnDeereDubuq ue	Boiler 1	Mercury (Hg)	Coal	8.49E-06		232	NO
IAJohnDeereDubuq ue	Boiler 4	Mercury (Hg)	Coal	8.49E-06		233	NO
MOColumbiaPower Plant	Boiler Unit 6	Mercury (Hg)	Coal	8.52E-06		234	NO
MOColumbiaPower Plant	Boiler Unit 7	Mercury (Hg)	Coal	8.52E-06		235	NO
INNotreDame	B-4	Mercury (Hg)	Coal	8.53E-06		236	NO
WINewPage- Whiting	B24	Mercury (Hg)	Coal	8.69E-06		237	NO
WVPPGMartinsville	R015-Boiler 4	Mercury (Hg)	Coal	8.85E-06		238	NO
IACentrallAPower	EP1 Unit 1 PC Boiler	Mercury (Hg)	Coal	9.03E-06		239	NO
MDDeptofNavySup portFacilityIndianHe ad	PTO - 873 - E1 (3- 0004) (Boiler 1)	Mercury (Hg)	Coal	9.17E-06		240	NO
PAPennState	31	Mercury (Hg)	Coal	9.34E-06		241	NO
PAPennState	32	Mercury (Hg)	Coal	9.34E-06		242	NO
PAPennState	34	Mercury (Hg)	Coal	9.34E-06		243	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
PAPennState	35	Mercury (Hg)	Coal	9.34E-06		244	NO
MICityofEsanaba	EUBOILER#2	Mercury (Hg)	Coal	9.48E-06		245	NO
PABellefieldPlant	Boiler 3	Mercury (Hg)	Coal	9.75E-06		246	NO
INTateLyleLafayette South	LA-45	Mercury (Hg)	Coal	9.86E-06		247	NO
IAUofIowa	EP6 Boiler 10	Mercury (Hg)	Coal	1.00E-05		248	NO
INBungeDecatur	B&W (1SP1)	Mercury (Hg)	Coal	1.05E-05		249	NO
INBungeDecatur	Keeler (2SP1)	Mercury (Hg)	Coal	1.05E-05		250	NO
TNInvistaChattanooga	EU002 - Boiler #4	Mercury (Hg)	Coal	1.22E-05		251	NO
WVDuPontWashing tonWorks	P02	Mercury (Hg)	Coal	1.37E-05		252	NO
INNotreDame	B-2	Mercury (Hg)	Coal	1.43E-05		253	NO
INNotreDame	B-3	Mercury (Hg)	Coal	1.43E-05		254	NO
WVDuPontWashing tonWorks	P03	Mercury (Hg)	Coal	1.60E-05		255	NO
WVDuPontWashing tonWorks	P06	Mercury (Hg)	Coal	1.97E-05		256	NO
MDNewPage-Luke	No. 24	Mercury (Hg)	Coal	1.97E-05		257	NO
DEINVISTA	EU 001 - Coal Boiler No. 1	Mercury (Hg)	Coal	2.80E-05		258	NO
MNVersoPaper	EU018 Bros	Mercury (Hg)	Coal	2.81E-05		259	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
DEINVISTA	EU 003 - Coal Boiler No. 3	Mercury (Hg)	Coal	3.50E-05		260	NO
OHCargillAkron	B001	Mercury (Hg)	Coal	8.03E-05		261	NO
MSDuPontDeLisle1 342	AF-101A (BLR- 1342)	Mercury (Hg)	Coal	5.36E-04		262	NO
MSDuPontDeLisle1 342	AF-101B (BLR- 1342)	Mercury (Hg)	Coal	5.36E-04		263	NO
WINewPageKimberl y	B21	Mercury (Hg)	Coal	1.73E-03		264	NO
WINewPageKimberl y	B22	Mercury (Hg)	Coal	1.73E-03		265	NO
NCCampLejeuneM CB	C-AS-4151-16	Mercury (Hg)	Gas 1	9.35E-08		1	YES
CAConocoPhilipsLo sAng	D146 B-202 U90	Mercury (Hg)	Gas 1	1.21E-07		2	YES
CAExxonMobil- Torrance	25F-1A	Mercury (Hg)	Gas 1	2.30E-07		3	NO
CAExxonMobil- Torrance	25F-1B	Mercury (Hg)	Gas 1	2.30E-07		4	NO
CAExxonMobil- Torrance	25F-2A	Mercury (Hg)	Gas 1	2.30E-07		5	NO
CAExxonMobil- Torrance	25F-2B	Mercury (Hg)	Gas 1	2.30E-07		6	NO
SCEastmanColombi a	HTM Heater #3 (Equip ID 1101)	Mercury (Hg)	Gas 1	3.35E-07		7	NO
SCMichelinSandyS prings	B:02:01	Mercury (Hg)	Gas 1	3.55E-07		8	NO
KSCoffeyvilleRefine ry	EU-39-FH0027	Mercury (Hg)	Gas 1	3.63E-07		9	NO
WYSinclairWyomin g	Pt 74 #2 H2 Plant Heater	Mercury (Hg)	Gas 1	5.40E-07		10	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WYSinclairWyoming	Pt 41 #9 HPB	Mercury (Hg)	Gas 1	7.02E-07		11	NO
CAExxonMobil-Torrance	24F-1	Mercury (Hg)	Gas 1	1.59E-06		12	NO
MNStPaulParkRef	EU 026	Mercury (Hg)	Gas 1	1.87E-06		13	NO
ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Gas 1	3.32E-08	yes	1	YES
INNucorSteel	Cold Mill Annealing	Mercury (Hg)	Gas 1	1.29E-07	yes	2	NO
INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	Mercury (Hg)	Gas 1	1.51E-07	yes	3	NO
UTWestinghouse	202	Mercury (Hg)	Gas 1	7.50E-07	yes	4	NO
INOutokumpuStainlessPlate	Heppenstall Annealing Furnace	Mercury (Hg)	Gas 1	1.17E-06	yes	5	NO
INAlcoaWarrick	Annealing Furnace #15	Mercury (Hg)	Gas 1	2.68E-06	yes	6	NO
INAlcoaWarrick	Pre-Heat Furnace #36	Mercury (Hg)	Gas 1	2.68E-06	yes	7	NO
SCBMWManufacturingCo	HB03	Mercury (Hg)	Gas 2	8.25E-08		1	YES
LAShellChemicalGeismar	Furnace F-S801	Mercury (Hg)	Gas 2	1.07E-07		2	NO
INTateLyleSagamore	21B501	Mercury (Hg)	Gas 2	1.58E-07		3	NO
INRollsRoyceIndianapolis	70-65	Mercury (Hg)	Gas 2	2.51E-07		4	NO
WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Mercury (Hg)	Gas 2	3.64E-07		5	NO
GAGPSRMRiincon	EU BO02	Mercury (Hg)	Gas 2	5.67E-07		6	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MDSeverstalSparrows	1BLR (No. 1 Boiler)	Mercury (Hg)	Gas 2	1.30E-06		7	NO
WVMountainStateCarbonFollansbee	S1	Mercury (Hg)	Gas 2	6.20E-06		8	NO
MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	Liquid	5.87E-08		1	YES
MEFPLEnergyWymann	Unit #5	Mercury (Hg)	Liquid	8.60E-08		2	YES
PABoeingRidleyPark	033	Mercury (Hg)	Liquid	1.22E-07		3	YES
NYConEd59thStStationNewYork	Boiler 118	Mercury (Hg)	Liquid	1.39E-07		4	YES
NJVinelandMuniElectric-HowardDown	Unit 9	Mercury (Hg)	Liquid	3.87E-07		5	YES
MESDWarrenSomeerset	Package Boiler	Mercury (Hg)	Liquid	3.92E-07		6	YES
CTElectric Boat	EMU 18	Mercury (Hg)	Liquid	4.36E-07		7	YES
CTElectric Boat	EMU 17	Mercury (Hg)	Liquid	4.36E-07		8	YES
INUSSteelGaryWorks	O4B10459	Mercury (Hg)	Liquid	7.79E-07		9	YES
TNMilanArmyAmmunitionPlant	F52L-1, Source #27-0010-30	Mercury (Hg)	Liquid	2.15E-06		10	YES
TNMilanArmyAmmunitionPlant	A15L-2, Source #27-0010-05	Mercury (Hg)	Liquid	2.15E-06		11	YES
TNMilanArmyAmmunitionPlant	I3A-1, Source #27-0010-12	Mercury (Hg)	Liquid	2.15E-06		12	YES
TNMilanArmyAmmunitionPlant	F52L-2, Source #27-0010-30	Mercury (Hg)	Liquid	2.15E-06		13	YES
TNMilanArmyAmmunitionPlant	I4A-1, Source #27-0010-13	Mercury (Hg)	Liquid	2.15E-06		14	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TNMilanArmyAmmu nitionPlant	D88L-2, Source #27- 0010-86	Mercury (Hg)	Liquid	2.15E-06		15	YES
TNMilanArmyAmmu nitionPlant	D88L-1, Source #27- 0010-86	Mercury (Hg)	Liquid	2.15E-06		16	YES
TNMilanArmyAmmu nitionPlant	D2A-1, Source #27- 0010-09	Mercury (Hg)	Liquid	2.15E-06		17	YES
TNMilanArmyAmmu nitionPlant	B21L-1, Source #27- 0010-28	Mercury (Hg)	Liquid	2.15E-06		18	YES
TNMilanArmyAmmu nitionPlant	A15L-1, Source #27- 0010-05	Mercury (Hg)	Liquid	2.15E-06		19	YES
TNMilanArmyAmmu nitionPlant	I5A-1, Source #27- 0010-14	Mercury (Hg)	Liquid	2.15E-06		20	YES
TNMilanArmyAmmu nitionPlant	K313A-1, Source #27-0010-83	Mercury (Hg)	Liquid	2.15E-06		21	YES
TNMilanArmyAmmu nitionPlant	B21L-2, Source #27- 0010-28	Mercury (Hg)	Liquid	2.15E-06		22	NO
TNMilanArmyAmmu nitionPlant	T116A-1, Source #27-0010-84	Mercury (Hg)	Liquid	2.15E-06		23	NO
TNMilanArmyAmmu nitionPlant	X21L-2, Source #27- 0010-29	Mercury (Hg)	Liquid	2.15E-06		24	NO
TNMilanArmyAmmu nitionPlant	X21L-3, Source #27- 0010-29	Mercury (Hg)	Liquid	2.15E-06		25	NO
TNMilanArmyAmmu nitionPlant	K300A-1, Source #27-0010-19	Mercury (Hg)	Liquid	2.15E-06		26	NO
TNMilanArmyAmmu nitionPlant	T116A-2, Source #27-0010-84	Mercury (Hg)	Liquid	2.15E-06		27	NO
TNMilanArmyAmmu nitionPlant	I6A-1, Source #27- 0010-15	Mercury (Hg)	Liquid	2.15E-06		28	NO
TNMilanArmyAmmu nitionPlant	S101A-2, Source #27-0010-21	Mercury (Hg)	Liquid	2.15E-06		29	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TNMilanArmyAmmu nitionPlant	S101A-1, Source #27-0010-21	Mercury (Hg)	Liquid	2.15E-06		30	NO
TNMilanArmyAmmu nitionPlant	K313A-2, Source #27-0010-83	Mercury (Hg)	Liquid	2.15E-06		31	NO
TNMilanArmyAmmu nitionPlant	K300A-2, Source #27-0010-19	Mercury (Hg)	Liquid	2.15E-06		32	NO
TNMilanArmyAmmu nitionPlant	X21L-1, Source #27- 0010-29	Mercury (Hg)	Liquid	2.15E-06		33	NO
TNMilanArmyAmmu nitionPlant	K102L-1, Source #27-0010-42	Mercury (Hg)	Liquid	2.15E-06		34	NO
TNMilanArmyAmmu nitionPlant	J107A-2, Source #27-0010-31	Mercury (Hg)	Liquid	2.15E-06		35	NO
TNMilanArmyAmmu nitionPlant	J107A-1, Source #27-0010-31	Mercury (Hg)	Liquid	2.15E-06		36	NO
TNMilanArmyAmmu nitionPlant	I7A-1, Source #27- 0010-16	Mercury (Hg)	Liquid	2.15E-06		37	NO
TNMilanArmyAmmu nitionPlant	V1L-1, Source #27- 0010-46	Mercury (Hg)	Liquid	2.15E-06		38	NO
NCDomtar	66-25-2050 (No. 1 Package Boiler)	Mercury (Hg)	Liquid	5.03E-06		39	NO
TNInvistaChattanoo ga	EU003 - Vaporizer #2	Mercury (Hg)	Liquid	5.16E-06		40	NO
NCMCASCherryPoi nt	CP-4810-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		41	NO
NCMCASCherryPoi nt	CP-3916-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		42	NO
NCMCASCherryPoi nt	CP-487-BOIL-02	Mercury (Hg)	Liquid	5.20E-06		43	NO
NCMCASCherryPoi nt	CP-487-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		44	NO
NCMCASCherryPoi nt	CP-486-BOIL-02	Mercury (Hg)	Liquid	5.20E-06		45	NO
NCMCASCherryPoi nt	CP-486-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		46	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCMCASCherryPoint	CP-1782-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		47	NO
NCMCASCherryPoint	CP-4041-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		48	NO
NCMCASCherryPoint	CP-192-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		49	NO
NCMCASCherryPoint	CP-1799-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		50	NO
NCMCASCherryPoint	CP-1795-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		51	NO
NCMCASCherryPoint	CP-1791-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		52	NO
NCMCASCherryPoint	CP-1787-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		53	NO
NCMCASCherryPoint	CP-3919-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		54	NO
NCMCASCherryPoint	CP-1783-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		55	NO
NCMCASCherryPoint	CP-4049-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		56	NO
NCMCASCherryPoint	CP-1781-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		57	NO
NCMCASCherryPoint	CP-1780-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		58	NO
NCMCASCherryPoint	CP-1779-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		59	NO
NCMCASCherryPoint	CP-1777-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		60	NO
NCMCASCherryPoint	CP-152-BOIL-04	Mercury (Hg)	Liquid	5.20E-06		61	NO
NCMCASCherryPoint	CP-152-BOIL-03	Mercury (Hg)	Liquid	5.20E-06		62	NO
NCMCASCherryPoint	CP-1229-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		63	NO
NCMCASCherryPoint	CP-1786-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		64	NO
NCMCASCherryPoint	CP-4402-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		65	NO
NCMCASCherryPoint	CP-4639-BOIL-02	Mercury (Hg)	Liquid	5.20E-06		66	NO
NCMCASCherryPoint	CP-4639-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		67	NO
NCMCASCherryPoint	CP-4576-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		68	NO
NCMCASCherryPoint	CP-4571-BOIL-02	Mercury (Hg)	Liquid	5.20E-06		69	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCMCASCherryPoint	CP-4571-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		70	NO
NCMCASCherryPoint	CP-4564-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		71	NO
NCMCASCherryPoint	CP-248-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		72	NO
NCMCASCherryPoint	CP-4465-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		73	NO
NCMCASCherryPoint	CP-4639-BOIL-03	Mercury (Hg)	Liquid	5.20E-06		74	NO
NCMCASCherryPoint	CP-4401-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		75	NO
NCMCASCherryPoint	CP-4390-BOIL-03	Mercury (Hg)	Liquid	5.20E-06		76	NO
NCMCASCherryPoint	CP-4390-BOIL-02	Mercury (Hg)	Liquid	5.20E-06		77	NO
NCMCASCherryPoint	CP-4390-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		78	NO
NCMCASCherryPoint	CP-4344-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		79	NO
NCMCASCherryPoint	CP-4298-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		80	NO
NCMCASCherryPoint	CP-4213-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		81	NO
NCMCASCherryPoint	CP-4563-BOIL-01	Mercury (Hg)	Liquid	5.20E-06		82	NO
NCCampLejeuneM CB	C-AS-3525-15	Mercury (Hg)	Liquid	5.21E-06		83	NO
NCCampLejeuneM CB	B-A71-H5	Mercury (Hg)	Liquid	5.21E-06		84	NO
NCCampLejeuneM CB	A-PP-1943-H7	Mercury (Hg)	Liquid	5.21E-06		85	NO
NCCampLejeuneM CB	C-AS-2800-12	Mercury (Hg)	Liquid	5.21E-06		86	NO
NCCampLejeuneM CB	C-AS-1000-H21	Mercury (Hg)	Liquid	5.21E-06		87	NO
NCCampLejeuneM CB	C-AS-1000-20	Mercury (Hg)	Liquid	5.21E-06		88	NO
NCCampLejeuneM CB	B-BB-9-55	Mercury (Hg)	Liquid	5.21E-06		89	NO
NCCampLejeuneM CB	B-BB-9-54	Mercury (Hg)	Liquid	5.21E-06		90	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneM CB	B-BB-9-53B	Mercury (Hg)	Liquid	5.21E-06		91	NO
NCCampLejeuneM CB	B-BB-49-52	Mercury (Hg)	Liquid	5.21E-06		92	NO
NCCampLejeuneM CB	C-AS-4044-22	Mercury (Hg)	Liquid	5.21E-06		93	NO
NCCampLejeuneM CB	B-A-A1-50	Mercury (Hg)	Liquid	5.21E-06		94	NO
NCCampLejeuneM CB	C-AS-4044-23	Mercury (Hg)	Liquid	5.21E-06		95	NO
NCCampLejeuneM CB	B-A71-49	Mercury (Hg)	Liquid	5.21E-06		96	NO
NCCampLejeuneM CB	B-A66-H3	Mercury (Hg)	Liquid	5.21E-06		97	NO
NCCampLejeuneM CB	B-A66-48	Mercury (Hg)	Liquid	5.21E-06		98	NO
NCCampLejeuneM CB	A-TT-60-79	Mercury (Hg)	Liquid	5.21E-06		99	NO
NCCampLejeuneM CB	A-TT-60-78	Mercury (Hg)	Liquid	5.21E-06		100	NO
NCCampLejeuneM CB	A-TT-44-30	Mercury (Hg)	Liquid	5.21E-06		101	NO
NCCampLejeuneM CB	A-TT-2457-66	Mercury (Hg)	Liquid	5.21E-06		102	NO
NCCampLejeuneM CB	A-PP-2615-10	Mercury (Hg)	Liquid	5.21E-06		103	NO
NCCampLejeuneM CB	C-AS-3502-08	Mercury (Hg)	Liquid	5.21E-06		104	NO
NCCampLejeuneM CB	B-A-A47-51	Mercury (Hg)	Liquid	5.21E-06		105	NO
NCCampLejeuneM CB	C-CG-650-84B	Mercury (Hg)	Liquid	5.21E-06		106	NO
NCCampLejeuneM CB	C-VL-TFM204-02	Mercury (Hg)	Liquid	5.21E-06		107	NO
NCCampLejeuneM CB	C-VL-TFM204-01	Mercury (Hg)	Liquid	5.21E-06		108	NO
NCCampLejeuneM CB	C-VL-TFM203-02	Mercury (Hg)	Liquid	5.21E-06		109	NO
NCCampLejeuneM CB	C-VL-TFM203-01	Mercury (Hg)	Liquid	5.21E-06		110	NO
NCCampLejeuneM CB	C-VL-TFM104-01	Mercury (Hg)	Liquid	5.21E-06		111	NO
NCCampLejeuneM CB	C-VL-TFM103-01	Mercury (Hg)	Liquid	5.21E-06		112	NO
NCCampLejeuneM CB	C-TC-1500-60	Mercury (Hg)	Liquid	5.21E-06		113	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneM CB	C-RR-15-47B	Mercury (Hg)	Liquid	5.21E-06		114	NO
NCCampLejeuneM CB	C-AS-3504-09	Mercury (Hg)	Liquid	5.21E-06		115	NO
NCCampLejeuneM CB	C-CG-650-85	Mercury (Hg)	Liquid	5.21E-06		116	NO
NCCampLejeuneM CB	A-PP-1943-08	Mercury (Hg)	Liquid	5.21E-06		117	NO
NCCampLejeuneM CB	C-CG-650-83B	Mercury (Hg)	Liquid	5.21E-06		118	NO
NCCampLejeuneM CB	C-CG-480-89	Mercury (Hg)	Liquid	5.21E-06		119	NO
NCCampLejeuneM CB	C-AS-843-14	Mercury (Hg)	Liquid	5.21E-06		120	NO
NCCampLejeuneM CB	C-AS-840-13	Mercury (Hg)	Liquid	5.21E-06		121	NO
NCCampLejeuneM CB	C-AS-710-03	Mercury (Hg)	Liquid	5.21E-06		122	NO
NCCampLejeuneM CB	C-AS-705-11	Mercury (Hg)	Liquid	5.21E-06		123	NO
NCCampLejeuneM CB	C-AS-4151-18	Mercury (Hg)	Liquid	5.21E-06		124	NO
NCCampLejeuneM CB	C-AS-4151-17A	Mercury (Hg)	Liquid	5.21E-06		125	NO
NCCampLejeuneM CB	C-AS-4151-16	Mercury (Hg)	Liquid	5.21E-06		126	NO
NCCampLejeuneM CB	C-RR-15-46B	Mercury (Hg)	Liquid	5.21E-06		127	NO
NCCampLejeuneM CB	A-BM-890-H9	Mercury (Hg)	Liquid	5.21E-06		128	NO
NCCampLejeuneM CB	A-PP-2615-09	Mercury (Hg)	Liquid	5.21E-06		129	NO
NCCampLejeuneM CB	A-HP-2027-H15	Mercury (Hg)	Liquid	5.21E-06		130	NO
NCCampLejeuneM CB	A-HP-2027-H14	Mercury (Hg)	Liquid	5.21E-06		131	NO
NCCampLejeuneM CB	A-HP-2027-H13	Mercury (Hg)	Liquid	5.21E-06		132	NO
NCCampLejeuneM CB	A-HP-2027-21	Mercury (Hg)	Liquid	5.21E-06		133	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneM CB	A-HP-2027-20	Mercury (Hg)	Liquid	5.21E-06		134	NO
NCCampLejeuneM CB	A-HP-1700-05	Mercury (Hg)	Liquid	5.21E-06		135	NO
NCCampLejeuneM CB	A-FC-989-31	Mercury (Hg)	Liquid	5.21E-06		136	NO
NCCampLejeuneM CB	A-HP-40-75	Mercury (Hg)	Liquid	5.21E-06		137	NO
NCCampLejeuneM CB	A-FC-260-90	Mercury (Hg)	Liquid	5.21E-06		138	NO
NCCampLejeuneM CB	A-HP-40-76	Mercury (Hg)	Liquid	5.21E-06		139	NO
NCCampLejeuneM CB	A-BM-890-H10	Mercury (Hg)	Liquid	5.21E-06		140	NO
NCCampLejeuneM CB	A-BM-890-15	Mercury (Hg)	Liquid	5.21E-06		141	NO
NCCampLejeuneM CB	A-BM-890-14	Mercury (Hg)	Liquid	5.21E-06		142	NO
NCCampLejeuneM CB	A-BM-835-07	Mercury (Hg)	Liquid	5.21E-06		143	NO
NCCampLejeuneM CB	A-BM-835-06	Mercury (Hg)	Liquid	5.21E-06		144	NO
NCCampLejeuneM CB	A-BM-825-H1	Mercury (Hg)	Liquid	5.21E-06		145	NO
NCCampLejeuneM CB	A-BM-825-13	Mercury (Hg)	Liquid	5.21E-06		146	NO
NCCampLejeuneM CB	A-BM-825-12	Mercury (Hg)	Liquid	5.21E-06		147	NO
NCCampLejeuneM CB	A-BM-5400-81	Mercury (Hg)	Liquid	5.21E-06		148	NO
NCCampLejeuneM CB	A-FC-440-87	Mercury (Hg)	Liquid	5.21E-06		149	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneM CB	A-MP-625-72	Mercury (Hg)	Liquid	5.21E-06		150	NO
NCCampLejeuneM CB	A-NH-121-H1	Mercury (Hg)	Liquid	5.21E-06		151	NO
NCCampLejeuneM CB	A-NH-121-01	Mercury (Hg)	Liquid	5.21E-06		152	NO
NCCampLejeuneM CB	A-NH-120-H4	Mercury (Hg)	Liquid	5.21E-06		153	NO
NCCampLejeuneM CB	A-NH-120-04	Mercury (Hg)	Liquid	5.21E-06		154	NO
NCCampLejeuneM CB	A-NH-118-03	Mercury (Hg)	Liquid	5.21E-06		155	NO
NCCampLejeuneM CB	A-NH-100-05	Mercury (Hg)	Liquid	5.21E-06		156	NO
NCCampLejeuneM CB	A-NH-100-02	Mercury (Hg)	Liquid	5.21E-06		157	NO
NCCampLejeuneM CB	A-NH-100-01	Mercury (Hg)	Liquid	5.21E-06		158	NO
NCCampLejeuneM CB	A-HP-2027-H16	Mercury (Hg)	Liquid	5.21E-06		159	NO
NCCampLejeuneM CB	A-MP-625-73	Mercury (Hg)	Liquid	5.21E-06		160	NO
NCCampLejeuneM CB	A-BM-5400-80	Mercury (Hg)	Liquid	5.21E-06		161	NO
NCCampLejeuneM CB	A-MP-230-40	Mercury (Hg)	Liquid	5.21E-06		162	NO
NCCampLejeuneM CB	A-MP-230-39	Mercury (Hg)	Liquid	5.21E-06		163	NO
NCCampLejeuneM CB	A-MP-230-38	Mercury (Hg)	Liquid	5.21E-06		164	NO
NCCampLejeuneM CB	A-MG-SH8-58	Mercury (Hg)	Liquid	5.21E-06		165	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 1-Hg Floor

FacilityID	CombustorID_com mon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneM CB	A-LCH-4022-19	Mercury (Hg)	Liquid	5.21E-06		166	NO
NCCampLejeuneM CB	A-LCH-4014-17	Mercury (Hg)	Liquid	5.21E-06		167	NO
NCCampLejeuneM CB	A-HP-989-31	Mercury (Hg)	Liquid	5.21E-06		168	NO
NCCampLejeuneM CB	A-HP-738-59	Mercury (Hg)	Liquid	5.21E-06		169	NO
NCCampLejeuneM CB	A-HP-670-88	Mercury (Hg)	Liquid	5.21E-06		170	NO
NCCampLejeuneM CB	A-HP-500-86	Mercury (Hg)	Liquid	5.21E-06		171	NO
NCCampLejeuneM CB	A-MP-625-74	Mercury (Hg)	Liquid	5.21E-06		172	NO
SCGPChemRussell ville	FO Boiler	Mercury (Hg)	Liquid	4.90E-05		173	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Biomass	3.69E-06		1	YES
WABoisePaperWallula	Hog Fuel Boiler	Hydrogen Chloride (HCl)	Biomass	8.93E-05		2	YES
FLSugarCaneGrowersCoop	Boiler No. 8	Hydrogen Chloride (HCl)	Biomass	1.99E-04		3	YES
ARAnthonyForestProducts	SN-12	Hydrogen Chloride (HCl)	Biomass	2.00E-04		4	YES
WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Biomass	2.00E-04		5	YES
FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Biomass	2.02E-04		6	YES
MSHoodWaynesboro	AA-001 (Wood-Fired Boiler)	Hydrogen Chloride (HCl)	Biomass	2.11E-04		7	YES
NCGPRoxboro	ES-1 Wood fired Boiler	Hydrogen Chloride (HCl)	Biomass	2.17E-04		8	NO
ORWeyerhaeuserCoWarrentonLumberMill	3-HFB	Hydrogen Chloride (HCl)	Biomass	2.25E-04		9	NO
NCLPRoaringRiver	Boiler #2	Hydrogen Chloride (HCl)	Biomass	2.53E-04		10	NO
MSHankinsLumber	Boiler #1 (AA-001)	Hydrogen Chloride (HCl)	Biomass	2.60E-04		11	NO
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Hydrogen Chloride (HCl)	Biomass	2.67E-04		12	NO
ORRoseburgCoquille	Boiler 1	Hydrogen Chloride (HCl)	Biomass	3.40E-04		13	NO
NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Hydrogen Chloride (HCl)	Biomass	3.56E-04		14	NO
GARayonierJesupMill	PB01	Hydrogen Chloride (HCl)	Biomass	3.67E-04		15	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MNDESPHans ONyman	EU007	Hydrogen Chloride (HCl)	Biomass	3.70E-04		16	NO
IDMoyieSprings Lumber420	HFB1	Hydrogen Chloride (HCl)	Biomass	3.83E-04		17	NO
MNAndersonCorpBayport	Boiler 11 EU620	Hydrogen Chloride (HCl)	Biomass	4.00E-04		18	NO
MNAndersonCorpBayport	Boiler 12 EU621	Hydrogen Chloride (HCl)	Biomass	4.00E-04		19	NO
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Hydrogen Chloride (HCl)	Biomass	5.07E-04		20	NO
FLUSSugarCorp	Boiler No. 7	Hydrogen Chloride (HCl)	Biomass	5.37E-04		21	NO
GAGPCellulose Brunswick	U700 -- No. 4 Power Boiler	Hydrogen Chloride (HCl)	Biomass	5.53E-04		22	NO
ORRoseburgRiddle2	Boiler #2	Hydrogen Chloride (HCl)	Biomass	5.67E-04		23	NO
ORRoseburgForestDillard	Boiler #6	Hydrogen Chloride (HCl)	Biomass	7.90E-04		24	NO
SCNewSouthCarmden	WWB1	Hydrogen Chloride (HCl)	Biomass	8.67E-04		25	NO
ORRoseburgForestDillard	Boiler #1	Hydrogen Chloride (HCl)	Biomass	9.39E-04		26	NO
ARWeyerhaeuserDierksMill	SN-45	Hydrogen Chloride (HCl)	Biomass	1.00E-03		27	NO
GARayonierJesupMill	PB03	Hydrogen Chloride (HCl)	Biomass	1.00E-03		28	NO
MIWhitePineElectric	IBW Boiler	Hydrogen Chloride (HCl)	Biomass	1.00E-03		29	NO
MSGPNewAugusta	AA-015 Power Boiler	Hydrogen Chloride (HCl)	Biomass	1.00E-03		30	NO
HIPuuneneSugarMill	Boiler 1	Hydrogen Chloride (HCl)	Biomass	1.03E-03		31	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
HIPuuneneSugarMill	Boiler 2	Hydrogen Chloride (HCl)	Biomass	1.03E-03		32	NO
SCNewSouthCoConway	WWB1	Hydrogen Chloride (HCl)	Biomass	1.20E-03		33	NO
GAGPWarmSprings	EU600 Wood Fuel Boiler	Hydrogen Chloride (HCl)	Biomass	1.20E-03		34	NO
SCSmurfitStone	Unit 15: Boiler #3	Hydrogen Chloride (HCl)	Biomass	1.27E-03		35	NO
NYIntlPaperTiconderoga	PB1	Hydrogen Chloride (HCl)	Biomass	1.32E-03		36	NO
ARGBPMorrilton	SN-04	Hydrogen Chloride (HCl)	Biomass	1.34E-03		37	NO
ORRoseburgRiddle2	Boiler #1	Hydrogen Chloride (HCl)	Biomass	1.40E-03		38	NO
ORRoseburgForestDillard	Boiler #2	Hydrogen Chloride (HCl)	Biomass	2.24E-03		39	NO
FLUSSugarCorp	Boiler No. 8	Hydrogen Chloride (HCl)	Biomass	2.30E-03		40	NO
GARayonierJesupMill	PB02	Hydrogen Chloride (HCl)	Biomass	2.33E-03		41	NO
NCLPРоaringRiver	Boiler #3	Hydrogen Chloride (HCl)	Biomass	3.63E-03		42	NO
WAGraysHarborPaper	No. 8 Boiler (EU1)	Hydrogen Chloride (HCl)	Biomass	3.67E-03		43	NO
FLSugarCaneGrowersCoop	Boiler No. 2	Hydrogen Chloride (HCl)	Biomass	3.83E-03		44	NO
ALIPCourtland	No. 1 Combination Boiler / 11CU101	Hydrogen Chloride (HCl)	Biomass	4.18E-03		45	NO
ARPotlatchForestPrescott	McBurney Boiler	Hydrogen Chloride (HCl)	Biomass	4.27E-03		46	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ORRosboroSpr ingfield	DV 01.1	Hydrogen Chloride (HCl)	Biomass	5.60E-03		47	NO
FLSmurfit- Stone	5PB	Hydrogen Chloride (HCl)	Biomass	6.25E-03		48	NO
KYWeyerhaeus erEKY	MP 01-01	Hydrogen Chloride (HCl)	Biomass	1.38E-02		49	NO
KYWeyerhaeus erEKY	MP 01-02	Hydrogen Chloride (HCl)	Biomass	1.38E-02		50	NO
KYWeyerhaeus erEKY	MP 01-03	Hydrogen Chloride (HCl)	Biomass	1.38E-02		51	NO
INAlcoaWarrick	Unit #3	Hydrogen Chloride (HCl)	Coal	1.50E-05		1	YES
IDTASCOPaul	Erie City Boiler	Hydrogen Chloride (HCl)	Coal	3.85E-05		2	YES
INAlcoaWarrick	Unit #2	Hydrogen Chloride (HCl)	Coal	5.91E-05		3	YES
IARoquetteAme rica	Circulating Fluidized Bed Boiler (121)	Hydrogen Chloride (HCl)	Coal	6.18E-05		4	YES
TNEastman_N O_CBIDATA	Boiler 30	Hydrogen Chloride (HCl)	Coal	7.23E-05		5	YES
AZCatalystPape rSnowflake	Power Boiler #2 Coal	Hydrogen Chloride (HCl)	Coal	1.16E-04		6	YES
MOJamesRiver PowerStation	Unit 1	Hydrogen Chloride (HCl)	Coal	2.12E-04		7	YES
MOJamesRiver PowerStation	Unit 2	Hydrogen Chloride (HCl)	Coal	2.12E-04		8	YES
ALIPCourtland	No.2 Combination Boiler / 11CU201	Hydrogen Chloride (HCl)	Coal	2.82E-04		9	YES
IDTASCOPaul	Babcock and Wilcox (B&W) Boiler	Hydrogen Chloride (HCl)	Coal	3.00E-04		10	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NDMinnDakFar mers	Babcock and Wilcox Boiler #5	Hydrogen Chloride (HCl)	Coal	3.64E-04		11	YES
IAArchersDaniel sMidlandDesMo ines	Asea Boiler #1	Hydrogen Chloride (HCl)	Coal	3.88E-04		12	YES
VAUniversityofV irginia	7103-1-01R	Hydrogen Chloride (HCl)	Coal	5.69E-04		13	YES
WINewPageBir on	B24	Hydrogen Chloride (HCl)	Coal	5.87E-04		14	YES
MICityofEscana ba	EUBOILER#1	Hydrogen Chloride (HCl)	Coal	6.00E-04		15	YES
VASmurfitStone Westpt	PB08	Hydrogen Chloride (HCl)	Coal	6.69E-04		16	YES
TNEastman_N O_CBIDATA	Boiler 31	Hydrogen Chloride (HCl)	Coal	7.00E-04		17	YES
WINewPage- WisconsinRapid s	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Coal	8.00E-04		18	YES
PADomtarJohn sonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Coal	8.33E-04		19	YES
PADomtarJohn sonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Coal	8.33E-04		20	YES
IDTASCONamp a	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Coal	9.00E-04		21	YES
IDTASCONamp a	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Coal	9.00E-04		22	YES
WINewPage- WisconsinRapid s	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Coal	9.00E-04		23	YES
IAMuscatinePo werandWater	Unit 7	Hydrogen Chloride (HCl)	Coal	1.14E-03		24	YES
IDAmalgamated SugarCoTwinFa lls	S-B2	Hydrogen Chloride (HCl)	Coal	1.33E-03		25	YES
OHPainesvilleM unicipalElectric	B004	Hydrogen Chloride (HCl)	Coal	1.33E-03		26	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MIPharma&Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Coal	1.45E-03		27	YES
WYGeneralChemical	GR-2-L (C BOILER)	Hydrogen Chloride (HCl)	Coal	1.80E-03		28	YES
TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Coal	1.87E-03		29	YES
ILPrairiePowerPearl	B1	Hydrogen Chloride (HCl)	Coal	1.93E-03		30	YES
WYGeneralChemical	GR-3-W (D BOILER)	Hydrogen Chloride (HCl)	Coal	1.97E-03		31	YES
MNAmericanCrystalMoorhead	Boiler 3	Hydrogen Chloride (HCl)	Coal	2.00E-03		32	YES
OHPainesvilleMunicipalElectric	B003	Hydrogen Chloride (HCl)	Coal	2.00E-03		33	YES
INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Coal	2.65E-03		34	YES
INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Coal	2.65E-03		35	YES
WINewPage-Whiting	B24	Hydrogen Chloride (HCl)	Coal	2.73E-03		36	YES
AKDoyonUtilities_AK	7	Hydrogen Chloride (HCl)	Coal	3.03E-03		37	NO
AKDoyonUtilities_AK	4	Hydrogen Chloride (HCl)	Coal	3.27E-03		38	NO
NCMCASCherryPoint	CP-152-BOIL-02	Hydrogen Chloride (HCl)	Coal	3.67E-03		39	NO
GAGPSRMRincon	EU BO01	Hydrogen Chloride (HCl)	Coal	3.97E-03		40	NO
OHDukeEnergyGenerationCincinnati	B022 (Boiler #4, IG-4A)	Hydrogen Chloride (HCl)	Coal	4.00E-03		41	NO
OHOrrvilleUtilities	B006	Hydrogen Chloride (HCl)	Coal	4.00E-03		42	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
INPurdueUniversity	Boiler 5	Hydrogen Chloride (HCl)	Coal	4.33E-03		43	NO
OHOrrvilleUtilities	B001	Hydrogen Chloride (HCl)	Coal	4.67E-03		44	NO
OHOrrvilleUtilities	B004	Hydrogen Chloride (HCl)	Coal	4.67E-03		45	NO
OHPainesvilleMunicipalElectric	B001	Hydrogen Chloride (HCl)	Coal	5.67E-03		46	NO
INTateLyleLafayetteSouth	LA-45	Hydrogen Chloride (HCl)	Coal	6.47E-03		47	NO
NCBlueRidgePaper	G11040	Hydrogen Chloride (HCl)	Coal	6.93E-03		48	NO
OHAkronThermalEnergy	Boiler #32 (B001)	Hydrogen Chloride (HCl)	Coal	7.03E-03		49	NO
GAIPSavannah	No. 13 Power Boiler - PB13	Hydrogen Chloride (HCl)	Coal	7.17E-03		50	NO
INTateLyleSagamore	31B1	Hydrogen Chloride (HCl)	Coal	7.27E-03		51	NO
SCGaley&Lord	1EB1	Hydrogen Chloride (HCl)	Coal	7.47E-03		52	NO
SCGaley&Lord	1FB1	Hydrogen Chloride (HCl)	Coal	7.47E-03		53	NO
OHShelbyMuniLightPlant	B008	Hydrogen Chloride (HCl)	Coal	8.00E-03		54	NO
TNBowaterNewsprint	Power Boiler No. 3	Hydrogen Chloride (HCl)	Coal	8.00E-03		55	NO
TNEastman_NO_CBIDATA	Boiler 25	Hydrogen Chloride (HCl)	Coal	8.00E-03		56	NO
ALGeorgiaPacificNaheola	Z015 - CB1	Hydrogen Chloride (HCl)	Coal	8.30E-03		57	NO
NCEIDuPontKinston	ES6022B	Hydrogen Chloride (HCl)	Coal	8.57E-03		58	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TNBowaterNew sprint	Power Boiler No. 1	Hydrogen Chloride (HCl)	Coal	8.67E-03		59	NO
NCMCASCherryPoint	CP-152-BOIL-01	Hydrogen Chloride (HCl)	Coal	9.40E-03		60	NO
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Hydrogen Chloride (HCl)	Coal	1.00E-02		61	NO
WIWausauRhine	B26	Hydrogen Chloride (HCl)	Coal	1.03E-02		62	NO
ALCargill-Decatur	Keeler (S-407)	Hydrogen Chloride (HCl)	Coal	1.07E-02		63	NO
MIHollandBPW	Unit 3	Hydrogen Chloride (HCl)	Coal	1.07E-02		64	NO
OHShelbyMuniLightPlant	B007	Hydrogen Chloride (HCl)	Coal	1.07E-02		65	NO
TNOakRidge-Y12	Boiler/Unit 31	Hydrogen Chloride (HCl)	Coal	1.07E-02		66	NO
NCEIDuPontKinston	ES6022A	Hydrogen Chloride (HCl)	Coal	1.10E-02		67	NO
GAInternationalPaperAugustaMills	PB2A	Hydrogen Chloride (HCl)	Coal	1.13E-02		68	NO
IDAmalgamatedSugarCoTwinFalls	S-B1	Hydrogen Chloride (HCl)	Coal	1.17E-02		69	NO
OHShelbyMuniLightPlant	B006	Hydrogen Chloride (HCl)	Coal	1.20E-02		70	NO
NCNC_DukeUniversity_Durham	7754-01	Hydrogen Chloride (HCl)	Coal	1.20E-02		71	NO
OKGPMuskogeeMill	B-2	Hydrogen Chloride (HCl)	Coal	1.23E-02		72	NO
NJVinelandMuniElectric-HowardDown	Unit 10	Hydrogen Chloride (HCl)	Coal	1.24E-02		73	NO
NCUNCCogen	ES-001	Hydrogen Chloride (HCl)	Coal	1.28E-02		74	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VAGPBigIsland 2703	PWR04 - No. 4 Power Boiler	Hydrogen Chloride (HCl)	Coal	1.31E-02		75	NO
VAGPJarrattFib erboard	EP-15 No. 3 Keeler Boiler	Hydrogen Chloride (HCl)	Coal	1.37E-02		76	NO
INSABICInnova tivePlastics	01-001 BW1 Boiler	Hydrogen Chloride (HCl)	Coal	1.47E-02		77	NO
INSABICInnova tivePlastics	01-001 BW2 Boiler	Hydrogen Chloride (HCl)	Coal	1.47E-02		78	NO
OHMedicalCent erCo1915	B003	Hydrogen Chloride (HCl)	Coal	1.65E-02		79	NO
OHMedicalCent erCo1915	B004	Hydrogen Chloride (HCl)	Coal	1.65E-02		80	NO
NCCampLejeun eMCB	A-HP-1700-03	Hydrogen Chloride (HCl)	Coal	1.67E-02		81	NO
NCCampLejeun eMCB	A-HP-1700-04	Hydrogen Chloride (HCl)	Coal	1.67E-02		82	NO
VAINVISTAWa ynesboro	2-205 (B#2) Boiler #2	Hydrogen Chloride (HCl)	Coal	1.73E-02		83	NO
MOAnheuserBu sch	Boiler 5	Hydrogen Chloride (HCl)	Coal	1.77E-02		84	NO
ALGeorgiaPacifi cNaheola	Z016 - CB2	Hydrogen Chloride (HCl)	Coal	1.88E-02		85	NO
MIHollandBPW	Unit 4	Hydrogen Chloride (HCl)	Coal	2.00E-02		86	NO
TNViskase	Boiler 1	Hydrogen Chloride (HCl)	Coal	2.00E-02		87	NO
TNViskase	Boiler 2	Hydrogen Chloride (HCl)	Coal	2.00E-02		88	NO
IAJohnDeereDu buque	Boiler 4	Hydrogen Chloride (HCl)	Coal	2.15E-02		89	NO
IAJohnDeereDu buque	Boiler 1	Hydrogen Chloride (HCl)	Coal	2.17E-02		90	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_ommon	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IAJohnDeereDubuque	Boiler 3	Hydrogen Chloride (HCl)	Coal	2.17E-02		91	NO
IAUoflowa	EP7 Boiler 11	Hydrogen Chloride (HCl)	Coal	2.30E-02		92	NO
OHMortonSaltRittman	B003 - Coal-Fired Boiler #1	Hydrogen Chloride (HCl)	Coal	2.30E-02		93	NO
MOTrigenKansasCity	Boiler 6	Hydrogen Chloride (HCl)	Coal	2.35E-02		94	NO
NCMillerCoors	ES-1 Coal/No. 2 & 6 Fuel Oil Boiler	Hydrogen Chloride (HCl)	Coal	2.37E-02		95	NO
WVBayerInstitute	Boiler #10	Hydrogen Chloride (HCl)	Coal	2.37E-02		96	NO
NCTysonHarmony	TYS-ES-21	Hydrogen Chloride (HCl)	Coal	2.40E-02		97	NO
IAADMCornProcessingCR	EU-501B	Hydrogen Chloride (HCl)	Coal	2.53E-02		98	NO
MOUofMissouri	Boiler 11	Hydrogen Chloride (HCl)	Coal	2.58E-02		99	NO
OKGPMuskogeeMill	B-3	Hydrogen Chloride (HCl)	Coal	3.03E-02		100	NO
WIGPGreenBay2818	B26 - Stoker Boiler #6	Hydrogen Chloride (HCl)	Coal	3.16E-02		101	NO
WIGPGreenBay2818	B27 - Cyclone Boiler #7	Hydrogen Chloride (HCl)	Coal	3.16E-02		102	NO
WIGPGreenBay2818	B28 - Stoker Boiler #8	Hydrogen Chloride (HCl)	Coal	3.16E-02		103	NO
MNWausauPaper-Brainerd	EU 003	Hydrogen Chloride (HCl)	Coal	3.20E-02		104	NO
MDNewPage-Luke	No. 25	Hydrogen Chloride (HCl)	Coal	3.23E-02		105	NO
OKGPMuskogeeMill	B-4	Hydrogen Chloride (HCl)	Coal	3.23E-02		106	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ILBungeDanville	CFB Boiler	Hydrogen Chloride (HCl)	Coal	3.28E-02		107	NO
MNDESPHans ONyman	EU003	Hydrogen Chloride (HCl)	Coal	3.30E-02		108	NO
WVBayerInstitute	Boiler #11	Hydrogen Chloride (HCl)	Coal	3.33E-02		109	NO
IACentrallAPower	EP1 Unit 1 PC Boiler	Hydrogen Chloride (HCl)	Coal	3.35E-02		110	NO
MNWausauPaper-Brainerd	EU 002	Hydrogen Chloride (HCl)	Coal	3.39E-02		111	NO
GACaraustar	CB01	Hydrogen Chloride (HCl)	Coal	3.53E-02		112	NO
MDDeptofNavy SupportFacilityIndianHead	PTO - 873 - E3 (3-0006) (Boiler 3)	Hydrogen Chloride (HCl)	Coal	3.65E-02		113	NO
MOTrigenKansasCity	Boiler 8	Hydrogen Chloride (HCl)	Coal	3.74E-02		114	NO
NCUNCCogen	ES-002	Hydrogen Chloride (HCl)	Coal	3.83E-02		115	NO
NCBlueRidgePaper	G11039	Hydrogen Chloride (HCl)	Coal	4.10E-02		116	NO
MDDeptofNavy SupportFacilityIndianHead	PTO - 873 - E2 (3-0005) (Boiler 2)	Hydrogen Chloride (HCl)	Coal	4.39E-02		117	NO
WVPPGMartinsville	R011-Boiler 3	Hydrogen Chloride (HCl)	Coal	4.67E-02		118	NO
MNWausauPaper-Brainerd	EU 004	Hydrogen Chloride (HCl)	Coal	4.77E-02		119	NO
OHUSEnrichmentCorpPiketon	X-600 Boiler No. 1	Hydrogen Chloride (HCl)	Coal	4.83E-02		120	NO
MOIPLBlueValley	Unit 1	Hydrogen Chloride (HCl)	Coal	4.97E-02		121	NO
IACargillEddyville	1.001	Hydrogen Chloride (HCl)	Coal	5.00E-02		122	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IACargillEddyville	1.002	Hydrogen Chloride (HCl)	Coal	5.00E-02		123	NO
IACargillEddyville	1.039	Hydrogen Chloride (HCl)	Coal	5.00E-02		124	NO
ILRockIslandArsenal	Boiler #4	Hydrogen Chloride (HCl)	Coal	5.08E-02		125	NO
VADukeEnergyNarrows	Boiler #1	Hydrogen Chloride (HCl)	Coal	5.19E-02		126	NO
NYCornellUniversity	B8	Hydrogen Chloride (HCl)	Coal	5.27E-02		127	NO
IAJohnDeereDubuque	Boiler 2	Hydrogen Chloride (HCl)	Coal	5.28E-02		128	NO
PABellefieldPlant	Boiler 3	Hydrogen Chloride (HCl)	Coal	5.30E-02		129	NO
MDDeptofNavySupportFacilityIndianHead	PTO - 873 - E1 (3-0004) (Boiler 1)	Hydrogen Chloride (HCl)	Coal	5.48E-02		130	NO
MOIPLBlueValley	Unit 2	Hydrogen Chloride (HCl)	Coal	5.53E-02		131	NO
WIWausau	# 6 Power Boiler (B20)	Hydrogen Chloride (HCl)	Coal	5.60E-02		132	NO
MOAnheuserBusch	Boiler 1	Hydrogen Chloride (HCl)	Coal	5.95E-02		133	NO
TNDuPontOld HickoryPlant	#24 Boiler	Hydrogen Chloride (HCl)	Coal	6.00E-02		134	NO
NCBlueRidgePaper	G11037	Hydrogen Chloride (HCl)	Coal	6.03E-02		135	NO
NCBlueRidgePaper	G11038	Hydrogen Chloride (HCl)	Coal	6.03E-02		136	NO
GACargill-Gainesville	B001	Hydrogen Chloride (HCl)	Coal	6.07E-02		137	NO
OHUSEnrichmentCorpPiketon	X-600 Boiler No. 2	Hydrogen Chloride (HCl)	Coal	6.07E-02		138	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WIWausau	# 5 Power Boiler (B24)	Hydrogen Chloride (HCl)	Coal	6.13E-02		139	NO
TNDuPontOldHickoryPlant	#20 Boiler	Hydrogen Chloride (HCl)	Coal	6.17E-02		140	NO
PAPHGlatfelter	PB4	Hydrogen Chloride (HCl)	Coal	6.20E-02		141	NO
PAPHGlatfelter	PB3	Hydrogen Chloride (HCl)	Coal	6.20E-02		142	NO
OHUSEnrichmentCorpPiketon	X-600 Boiler No. 3	Hydrogen Chloride (HCl)	Coal	6.20E-02		143	NO
TNInvistaChattanooga	EU002 - Boiler #3	Hydrogen Chloride (HCl)	Coal	6.20E-02		144	NO
PAPHGlatfelter	PB1	Hydrogen Chloride (HCl)	Coal	6.20E-02		145	NO
VAPhilipMorrisMC	PC	Hydrogen Chloride (HCl)	Coal	6.28E-02		146	NO
NYCornellUniversity	B1	Hydrogen Chloride (HCl)	Coal	6.40E-02		147	NO
NCCampLejeuneMCB	A-HP-1700-01	Hydrogen Chloride (HCl)	Coal	6.47E-02		148	NO
NCCampLejeuneMCB	A-HP-1700-02	Hydrogen Chloride (HCl)	Coal	6.47E-02		149	NO
WVDuPontWashingtonWorks	P01	Hydrogen Chloride (HCl)	Coal	6.53E-02		150	NO
ILAbbottAbbottPark	Unit 5AP	Hydrogen Chloride (HCl)	Coal	6.54E-02		151	NO
WVDuPontWashingtonWorks	P02	Hydrogen Chloride (HCl)	Coal	6.57E-02		152	NO
MOMarshallMunicipal	Unit # 4	Hydrogen Chloride (HCl)	Coal	6.71E-02		153	NO
VAINVISTAWaynesboro	2-205 (B#1) Boiler #1	Hydrogen Chloride (HCl)	Coal	6.75E-02		154	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ILRockIslandAr senal	NBN 12602 (Boiler #1)	Hydrogen Chloride (HCl)	Coal	6.85E-02		155	NO
MOColumbiaPo werPlant	Boiler Unit 6	Hydrogen Chloride (HCl)	Coal	7.10E-02		156	NO
MOColumbiaPo werPlant	Boiler Unit 7	Hydrogen Chloride (HCl)	Coal	7.10E-02		157	NO
VAPhilipMorrisP ark500	B2	Hydrogen Chloride (HCl)	Coal	7.20E-02		158	NO
IAIAStateUnivP owerPlant	B5	Hydrogen Chloride (HCl)	Coal	7.34E-02		159	NO
MITBSimonPow erPlant	Unit 4	Hydrogen Chloride (HCl)	Coal	7.46E-02		160	NO
IAUofNorthernlo wa	Boiler #3	Hydrogen Chloride (HCl)	Coal	7.53E-02		161	NO
VARadfordArmy AmmunitionPla nt	Boiler No. 4	Hydrogen Chloride (HCl)	Coal	7.57E-02		162	NO
WINewPageBir on	B23	Hydrogen Chloride (HCl)	Coal	7.62E-02		163	NO
MSDuPontDeLi sle1342	AF-101A (BLR- 1342)	Hydrogen Chloride (HCl)	Coal	7.67E-02		164	NO
MSDuPontDeLi sle1342	AF-101B (BLR- 1342)	Hydrogen Chloride (HCl)	Coal	7.67E-02		165	NO
IAIAStateUnivP owerPlant	B4	Hydrogen Chloride (HCl)	Coal	7.70E-02		166	NO
WIDairylandPo wer-Alma	Alma 1	Hydrogen Chloride (HCl)	Coal	7.72E-02		167	NO
WIDairylandPo wer-Alma	Alma 2	Hydrogen Chloride (HCl)	Coal	7.72E-02		168	NO
WIDairylandPo wer-Alma	Alma 3	Hydrogen Chloride (HCl)	Coal	7.72E-02		169	NO
WVDuPontWas hingtonWorks	P04	Hydrogen Chloride (HCl)	Coal	7.83E-02		170	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IAIAStateUnivPowerPlant	B1	Hydrogen Chloride (HCl)	Coal	7.84E-02		171	NO
OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	Hydrogen Chloride (HCl)	Coal	7.90E-02		172	NO
MITBSimonPowerPlant	Unit 3	Hydrogen Chloride (HCl)	Coal	7.95E-02		173	NO
MNRochesterUtilities	EU003	Hydrogen Chloride (HCl)	Coal	7.97E-02		174	NO
INNotreDame	B-4	Hydrogen Chloride (HCl)	Coal	8.07E-02		175	NO
ILRockIslandArsenal	NBN 12888 (Boiler #2)	Hydrogen Chloride (HCl)	Coal	8.15E-02		176	NO
MOAnheuserBusch	Boiler 8	Hydrogen Chloride (HCl)	Coal	8.24E-02		177	NO
VAPhilipMorrisPark500	B3	Hydrogen Chloride (HCl)	Coal	8.31E-02		178	NO
ILRockIslandArsenal	NBN 3059 (Boiler #3)	Hydrogen Chloride (HCl)	Coal	8.38E-02		179	NO
MNDESPHansNyman	EU002	Hydrogen Chloride (HCl)	Coal	8.40E-02		180	NO
MNRochesterUtilities	EU001	Hydrogen Chloride (HCl)	Coal	8.43E-02		181	NO
WVDuPontWashingtonWorks	P06	Hydrogen Chloride (HCl)	Coal	8.73E-02		182	NO
WIThilmanyPapersNicoletMill	B23	Hydrogen Chloride (HCl)	Coal	8.80E-02		183	NO
WIThilmanyPapersNicoletMill	B24	Hydrogen Chloride (HCl)	Coal	8.80E-02		184	NO
IAIAStateUnivPowerPlant	B2	Hydrogen Chloride (HCl)	Coal	8.84E-02		185	NO
OHCargillDayton	B004	Hydrogen Chloride (HCl)	Coal	8.97E-02		186	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MAUMass	EU#3	Hydrogen Chloride (HCl)	Coal	9.23E-02		187	NO
MAUMass	EU#4	Hydrogen Chloride (HCl)	Coal	9.23E-02		188	NO
MAUMass	EU#5	Hydrogen Chloride (HCl)	Coal	9.23E-02		189	NO
OHBataviaTranmissions	Boiler 2 (B002)	Hydrogen Chloride (HCl)	Coal	9.23E-02		190	NO
MOCentralElectricChamois	UNIT 1	Hydrogen Chloride (HCl)	Coal	9.40E-02		191	NO
OHAppletonIdeas	Boiler 2 (B002)	Hydrogen Chloride (HCl)	Coal	9.40E-02		192	NO
NCCargillFayetteville	ES-22	Hydrogen Chloride (HCl)	Coal	9.43E-02		193	NO
IAIAStateUnivPowerPlant	B3	Hydrogen Chloride (HCl)	Coal	9.67E-02		194	NO
MASolutiaIncSpringfield	EU 150 S03	Hydrogen Chloride (HCl)	Coal	9.68E-02		195	NO
INBungeDecatur	B&W (1SP1)	Hydrogen Chloride (HCl)	Coal	9.78E-02		196	NO
WVDuPontWashingtonWorks	P05	Hydrogen Chloride (HCl)	Coal	9.87E-02		197	NO
IAUoflowa	EP6 Boiler 10	Hydrogen Chloride (HCl)	Coal	9.91E-02		198	NO
WVATKRocketCenter	NB2766 W-17479-W (Boiler 17)	Hydrogen Chloride (HCl)	Coal	9.94E-02		199	NO
OHcargillAkron	B001	Hydrogen Chloride (HCl)	Coal	1.04E-01		200	NO
WIDomtarNekosa	B21 - Boiler No. 2	Hydrogen Chloride (HCl)	Coal	1.05E-01		201	NO
WIDomtarNekosa	B24 - Boiler No. 10	Hydrogen Chloride (HCl)	Coal	1.05E-01		202	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WIDomtarNekosa	B20 - Boiler No. 1	Hydrogen Chloride (HCl)	Coal	1.05E-01		203	NO
WIDomtarNekosa	B22 - Boiler No. 7	Hydrogen Chloride (HCl)	Coal	1.05E-01		204	NO
KYISPCchemicals	0AA (Riley)	Hydrogen Chloride (HCl)	Coal	1.07E-01		205	NO
MOIP&LMissouriCity	Unit 1	Hydrogen Chloride (HCl)	Coal	1.08E-01		206	NO
MOIP&LMissouriCity	Unit 2	Hydrogen Chloride (HCl)	Coal	1.08E-01		207	NO
SCINVESTACamdennPlant	Unit ID 1 - Boiler No. 1	Hydrogen Chloride (HCl)	Coal	1.09E-01		208	NO
SCINVESTACamdennPlant	Unit ID 2 - Boiler No. 2	Hydrogen Chloride (HCl)	Coal	1.09E-01		209	NO
MIManistiquePaper	EUBLR001	Hydrogen Chloride (HCl)	Coal	1.10E-01		210	NO
MIManistiquePaper	EUBLR002	Hydrogen Chloride (HCl)	Coal	1.10E-01		211	NO
VARadfordArmyAmmunitionPlant	Boiler No. 3	Hydrogen Chloride (HCl)	Coal	1.11E-01		212	NO
VARadfordArmyAmmunitionPlant	Boiler No. 5	Hydrogen Chloride (HCl)	Coal	1.11E-01		213	NO
INBungeDecatur	Keeler (2SP1)	Hydrogen Chloride (HCl)	Coal	1.12E-01		214	NO
MOUofMissouri	Boiler 7	Hydrogen Chloride (HCl)	Coal	1.13E-01		215	NO
MOUofMissouri	Boiler 8	Hydrogen Chloride (HCl)	Coal	1.13E-01		216	NO
MOUofMissouri	Boiler 9	Hydrogen Chloride (HCl)	Coal	1.13E-01		217	NO
MITBSimonPowerPlant	Unit 1	Hydrogen Chloride (HCl)	Coal	1.13E-01		218	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_ommon	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MOMallinckrodt	Boiler 6	Hydrogen Chloride (HCl)	Coal	1.13E-01		219	NO
TNInvistaChattanooga	EU002 - Boiler #5	Hydrogen Chloride (HCl)	Coal	1.14E-01		220	NO
VADukeEnergyNarrows	Boiler #6	Hydrogen Chloride (HCl)	Coal	1.14E-01		221	NO
MICityofEscanaba	EUBOILER#2	Hydrogen Chloride (HCl)	Coal	1.14E-01		222	NO
WVSunocoIncNealPlantKenova	B602, Coal Boiler	Hydrogen Chloride (HCl)	Coal	1.15E-01		223	NO
OHApletonIdeas	Boiler 4 (B003)	Hydrogen Chloride (HCl)	Coal	1.15E-01		224	NO
MIEB EddyPaper	EUBOILER5	Hydrogen Chloride (HCl)	Coal	1.15E-01		225	NO
VADukeEnergyNarrows	Boiler #3	Hydrogen Chloride (HCl)	Coal	1.19E-01		226	NO
VAINVISTAWaynesboro	2-205 (B#3) Boiler #3	Hydrogen Chloride (HCl)	Coal	1.20E-01		227	NO
VADukeEnergyNarrows	Boiler #2	Hydrogen Chloride (HCl)	Coal	1.22E-01		228	NO
IAGrainProcessing	Boiler #1	Hydrogen Chloride (HCl)	Coal	1.22E-01		229	NO
IAGrainProcessing	Boiler #2	Hydrogen Chloride (HCl)	Coal	1.22E-01		230	NO
IAGrainProcessing	Boiler #3	Hydrogen Chloride (HCl)	Coal	1.22E-01		231	NO
IAGrainProcessing	Boiler #4	Hydrogen Chloride (HCl)	Coal	1.22E-01		232	NO
IAGrainProcessing	Boiler #6	Hydrogen Chloride (HCl)	Coal	1.22E-01		233	NO
IAGrainProcessing	Boiler #7	Hydrogen Chloride (HCl)	Coal	1.22E-01		234	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ILAbbottAbbott Park	Unit 4AP	Hydrogen Chloride (HCl)	Coal	1.22E-01		235	NO
ILPolyOne	B1	Hydrogen Chloride (HCl)	Coal	1.23E-01		236	NO
MOBASFHanni bal	Coal Fired Boiler #4	Hydrogen Chloride (HCl)	Coal	1.23E-01		237	NO
MOBASFHanni bal	Coal Fired Boiler #5	Hydrogen Chloride (HCl)	Coal	1.27E-01		238	NO
TNInvistaChatta nooga	EU002 - Boiler #4	Hydrogen Chloride (HCl)	Coal	1.27E-01		239	NO
MINeenahPape rMI	Boiler 1	Hydrogen Chloride (HCl)	Coal	1.27E-01		240	NO
TNCargillMemp his	Stoker Boiler 8001	Hydrogen Chloride (HCl)	Coal	1.28E-01		241	NO
MIWhitePineEle ctric	Power Boiler #2	Hydrogen Chloride (HCl)	Coal	1.31E-01		242	NO
VARadfordArmy AmmunitionPla nt	Boiler No. 2	Hydrogen Chloride (HCl)	Coal	1.31E-01		243	NO
VADukeEnergy Narrows	Boiler #4	Hydrogen Chloride (HCl)	Coal	1.35E-01		244	NO
PABayValleyFo odsPittsburgh	Boiler No. 1	Hydrogen Chloride (HCl)	Coal	1.37E-01		245	NO
PABayValleyFo odsPittsburgh	Boiler No. 2	Hydrogen Chloride (HCl)	Coal	1.37E-01		246	NO
MNRochesterUt ilities	EU002	Hydrogen Chloride (HCl)	Coal	1.42E-01		247	NO
INNewEnergy	Riley Boiler	Hydrogen Chloride (HCl)	Coal	1.42E-01		248	NO
SCInternational PaperEastover	No. 1 Power Boiler	Hydrogen Chloride (HCl)	Coal	1.46E-01		249	NO
INNotreDame	B-3	Hydrogen Chloride (HCl)	Coal	1.46E-01		250	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VADukeEnergy Narrows	Boiler #5	Hydrogen Chloride (HCl)	Coal	1.48E-01		251	NO
PAPennState	31	Hydrogen Chloride (HCl)	Coal	1.49E-01		252	NO
PAPennState	32	Hydrogen Chloride (HCl)	Coal	1.49E-01		253	NO
PAPennState	34	Hydrogen Chloride (HCl)	Coal	1.49E-01		254	NO
PAPennState	35	Hydrogen Chloride (HCl)	Coal	1.49E-01		255	NO
OHOrrvilleUtilities	B005	Hydrogen Chloride (HCl)	Coal	1.51E-01		256	NO
MIMenominee	#3 Boiler	Hydrogen Chloride (HCl)	Coal	1.51E-01		257	NO
SCINVISTACamdenvillePlant	Unit ID 3 - Boiler No. 3	Hydrogen Chloride (HCl)	Coal	1.51E-01		258	NO
SCINVISTACamdenvillePlant	Unit ID 4 - Boiler No. 4	Hydrogen Chloride (HCl)	Coal	1.51E-01		259	NO
MIWhitePineElectric	Power Boiler #1	Hydrogen Chloride (HCl)	Coal	1.53E-01		260	NO
WINewPageKimmerly	B21	Hydrogen Chloride (HCl)	Coal	1.54E-01		261	NO
WINewPageKimmerly	B22	Hydrogen Chloride (HCl)	Coal	1.54E-01		262	NO
PAARGBradford	37	Hydrogen Chloride (HCl)	Coal	1.55E-01		263	NO
KYMoreheadStateUniv	02	Hydrogen Chloride (HCl)	Coal	1.58E-01		264	NO
PABayValleyFoodsPittsburgh	Boiler No. 3	Hydrogen Chloride (HCl)	Coal	1.63E-01		265	NO
PABayValleyFoodsPittsburgh	Boiler No. 4	Hydrogen Chloride (HCl)	Coal	1.63E-01		266	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VADukeEnergy Narrows	Boiler #7	Hydrogen Chloride (HCl)	Coal	1.63E-01		267	NO
WVBayerInstitute	Boiler #12	Hydrogen Chloride (HCl)	Coal	1.63E-01		268	NO
OHCargillSidney	B002	Hydrogen Chloride (HCl)	Coal	1.64E-01		269	NO
WVPPGMartinsville	R072-Boiler 5	Hydrogen Chloride (HCl)	Coal	1.65E-01		270	NO
WVDuPontWashingtonWorks	P03	Hydrogen Chloride (HCl)	Coal	1.66E-01		271	NO
OHCargillSidney	B001	Hydrogen Chloride (HCl)	Coal	1.67E-01		272	NO
WIPCATomahawk	B24	Hydrogen Chloride (HCl)	Coal	1.68E-01		273	NO
WIPCATomahawk	B27	Hydrogen Chloride (HCl)	Coal	1.68E-01		274	NO
WIPCATomahawk	B28	Hydrogen Chloride (HCl)	Coal	1.68E-01		275	NO
ILADMQuincy	EU-5003	Hydrogen Chloride (HCl)	Coal	1.70E-01		276	NO
ILADMQuincy	EU-5004	Hydrogen Chloride (HCl)	Coal	1.70E-01		277	NO
IAUofNorthernIowa	Boiler #4	Hydrogen Chloride (HCl)	Coal	1.71E-01		278	NO
WIGreenBayPackagingMillDivision	Boiler B26-Coal Fired Boiler	Hydrogen Chloride (HCl)	Coal	1.72E-01		279	NO
WVPPGMartinsville	R015-Boiler 4	Hydrogen Chloride (HCl)	Coal	1.73E-01		280	NO
MITBSimonPowerPlant	Unit 2	Hydrogen Chloride (HCl)	Coal	1.74E-01		281	NO
MIMortonSaltManistee	No. 6 Boiler	Hydrogen Chloride (HCl)	Coal	1.78E-01		282	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_ommon	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCargillCharlotte	ES-1	Hydrogen Chloride (HCl)	Coal	1.84E-01		283	NO
MIPharma&Upjohn1178	EUEBLR43-5 (Boiler No. 5)	Hydrogen Chloride (HCl)	Coal	1.88E-01		284	NO
ILJohnDeereHarvester	B8	Hydrogen Chloride (HCl)	Coal	1.97E-01		285	NO
ILJohnDeereHarvester	B7	Hydrogen Chloride (HCl)	Coal	1.97E-01		286	NO
ILJohnDeereHarvester	B9	Hydrogen Chloride (HCl)	Coal	1.97E-01		287	NO
WVUCCSouthCharleston	B25	Hydrogen Chloride (HCl)	Coal	2.01E-01		288	NO
OHRockTennCincinnati	B001	Hydrogen Chloride (HCl)	Coal	2.14E-01		289	NO
ILADMPeoria	EU-PH101	Hydrogen Chloride (HCl)	Coal	2.47E-01		290	NO
ILADMPeoria	EU-PH102	Hydrogen Chloride (HCl)	Coal	2.47E-01		291	NO
MIPharma&Upjohn1178	EUEBLR43-2 (Boiler No. 2)	Hydrogen Chloride (HCl)	Coal	2.51E-01		292	NO
TNCargillMemphis	Pulverized Coal Boiler (8301)	Hydrogen Chloride (HCl)	Coal	3.02E-01		293	NO
MOUofMissouri	Boiler 10	Hydrogen Chloride (HCl)	Coal	3.65E-01		294	NO
INNotreDame	B-2	Hydrogen Chloride (HCl)	Coal	5.22E-01		295	NO
MICargillSalt	EGBOILER5	Hydrogen Chloride (HCl)	Coal	7.67E-01		296	NO
SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Gas 1	7.26E-05		1	YES
WYSinclairWyoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	Gas 1	1.29E-04		2	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WYSinclairWyoming	Pt 41 #9 HPB	Hydrogen Chloride (HCl)	Gas 1	1.37E-04		3	NO
CTCytexWallingford	150 Furnace	Hydrogen Chloride (HCl)	Gas 1	1.65E-04		4	NO
KSCoffeyvilleRefinery	EU-39-FH0027	Hydrogen Chloride (HCl)	Gas 1	3.17E-04		5	NO
SCEastmanColumbia	HTM Heater #3 (Equip ID 1101)	Hydrogen Chloride (HCl)	Gas 1	3.25E-04		6	NO
NCCampLejeuneMCB	C-AS-4151-16	Hydrogen Chloride (HCl)	Gas 1	5.50E-04		7	NO
LARubiconLLC	North Variants Boiler	Hydrogen Chloride (HCl)	Gas 1	6.32E-04		8	NO
CAExxonMobil-Torrance	19F-1	Hydrogen Chloride (HCl)	Gas 1	2.85E-03		9	NO
MIFordWayneAssembly	Powerhouse Boiler 3	Hydrogen Chloride (HCl)	Gas 1	5.16E-03		10	NO
CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	Gas 1	8.59E-05	yes	1	YES
INAlcoaWarrick	Annealing Furnace #15	Hydrogen Chloride (HCl)	Gas 1	2.46E-04	yes	2	YES
INAlcoaWarrick	Pre-Heat Furnace #36	Hydrogen Chloride (HCl)	Gas 1	2.46E-04	yes	3	NO
ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Hydrogen Chloride (HCl)	Gas 1	3.45E-04	yes	4	NO
UTWestinghouse	202	Hydrogen Chloride (HCl)	Gas 1	3.99E-04	yes	5	NO
INOutokumpuStainlessPlate	Heppenstall Annealing Furnace	Hydrogen Chloride (HCl)	Gas 1	6.51E-04	yes	6	NO
WICharterSteel	P31	Hydrogen Chloride (HCl)	Gas 1	1.00E-03	yes	7	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
INNucorSteel	Cold Mill Annealing	Hydrogen Chloride (HCl)	Gas 1	1.64E-03	yes	8	NO
INArcelorMittalBURNSHarbor	Hot Dip Coating Line Annealing Furnace	Hydrogen Chloride (HCl)	Gas 1	2.70E-03	yes	9	NO
LAShellChemicaGeismar	Furnace F-S801	Hydrogen Chloride (HCl)	Gas 2	1.70E-06		1	YES
INTateLyleSagamore	21B501	Hydrogen Chloride (HCl)	Gas 2	1.85E-04		2	NO
MDSeverstalSpawarrows	1BLR (No. 1 Boiler)	Hydrogen Chloride (HCl)	Gas 2	3.53E-04		3	NO
WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	Hydrogen Chloride (HCl)	Gas 2	3.89E-04		4	NO
INRollsRoyceIndianapolis	70-65	Hydrogen Chloride (HCl)	Gas 2	1.15E-03		5	NO
WVMountainStateCarbonFollansbee	S1	Hydrogen Chloride (HCl)	Gas 2	1.23E-03		6	NO
SCBMWManufacturingCo	HB03	Hydrogen Chloride (HCl)	Gas 2	1.76E-03		7	NO
GAGPSRMRIincon	EU BO02	Hydrogen Chloride (HCl)	Gas 2	6.53E-03		8	NO
CTElectric Boat	EMU 18	Chlorine (Cl)	Liquid	5.60E-07		1	YES
TNInvistaChattanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Liquid	1.77E-04		2	YES
INUSSteelGaryWorks	O4B10459	Hydrogen Chloride (HCl)	Liquid	2.07E-04		3	YES
VAINVISTAWaynesboro	2-205 (V#1) Vaporizer #1	Hydrogen Chloride (HCl)	Liquid	2.43E-04		4	YES
NCCampLejeuneMCB	A-MP-230-40	Chlorine (Cl)	Liquid	2.65E-04		5	YES
NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Liquid	2.65E-04		6	YES
NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Liquid	2.65E-04		7	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Liquid	2.65E-04		8	YES
NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Liquid	2.65E-04		9	YES
NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Liquid	2.65E-04		10	YES
NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Liquid	2.65E-04		11	YES
NCCampLejeuneMCB	A-NH-120-H4	Chlorine (Cl)	Liquid	2.65E-04		12	YES
NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Liquid	2.65E-04		13	YES
NCCampLejeuneMCB	A-PP-1943-08	Chlorine (Cl)	Liquid	2.65E-04		14	YES
NCCampLejeuneMCB	A-MP-230-39	Chlorine (Cl)	Liquid	2.65E-04		15	YES
NCCampLejeuneMCB	A-MP-230-38	Chlorine (Cl)	Liquid	2.65E-04		16	YES
NCCampLejeuneMCB	A-MG-SH8-58	Chlorine (Cl)	Liquid	2.65E-04		17	YES
NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Liquid	2.65E-04		18	YES
NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Liquid	2.65E-04		19	YES
NCCampLejeuneMCB	A-NH-121-H1	Chlorine (Cl)	Liquid	2.65E-04		20	YES
NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Liquid	2.65E-04		21	YES
NCCampLejeuneMCB	A-PP-1943-H7	Chlorine (Cl)	Liquid	2.65E-04		22	YES
NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Liquid	2.65E-04		23	YES
NCCampLejeuneMCB	A-PP-2615-10	Chlorine (Cl)	Liquid	2.65E-04		24	NO
NCCampLejeuneMCB	A-TT-2457-66	Chlorine (Cl)	Liquid	2.65E-04		25	NO
NCCampLejeuneMCB	A-TT-44-30	Chlorine (Cl)	Liquid	2.65E-04		26	NO
NCCampLejeuneMCB	A-TT-60-78	Chlorine (Cl)	Liquid	2.65E-04		27	NO
NCCampLejeuneMCB	B-A66-48	Chlorine (Cl)	Liquid	2.65E-04		28	NO
NCCampLejeuneMCB	B-A71-49	Chlorine (Cl)	Liquid	2.65E-04		29	NO
NCCampLejeuneMCB	B-A71-H5	Chlorine (Cl)	Liquid	2.65E-04		30	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_ommon	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneMBC	B-A-A1-50	Chlorine (Cl)	Liquid	2.65E-04		31	NO
NCCampLejeuneMBC	A-NH-121-01	Chlorine (Cl)	Liquid	2.65E-04		32	NO
NCCampLejeuneMBC	A-FC-989-31	Chlorine (Cl)	Liquid	2.65E-04		33	NO
NCCampLejeuneMBC	C-CG-650-83B	Chlorine (Cl)	Liquid	2.65E-04		34	NO
NCCampLejeuneMBC	A-BM-5400-80	Chlorine (Cl)	Liquid	2.65E-04		35	NO
NCCampLejeuneMBC	A-BM-5400-81	Chlorine (Cl)	Liquid	2.65E-04		36	NO
NCCampLejeuneMBC	A-BM-825-12	Chlorine (Cl)	Liquid	2.65E-04		37	NO
NCCampLejeuneMBC	A-BM-825-13	Chlorine (Cl)	Liquid	2.65E-04		38	NO
NCCampLejeuneMBC	A-BM-825-H1	Chlorine (Cl)	Liquid	2.65E-04		39	NO
NCCampLejeuneMBC	A-BM-835-06	Chlorine (Cl)	Liquid	2.65E-04		40	NO
NCCampLejeuneMBC	A-BM-835-07	Chlorine (Cl)	Liquid	2.65E-04		41	NO
NCCampLejeuneMBC	A-BM-890-14	Chlorine (Cl)	Liquid	2.65E-04		42	NO
NCCampLejeuneMBC	A-BM-890-15	Chlorine (Cl)	Liquid	2.65E-04		43	NO
NCCampLejeuneMBC	A-BM-890-H10	Chlorine (Cl)	Liquid	2.65E-04		44	NO
NCCampLejeuneMBC	A-BM-890-H9	Chlorine (Cl)	Liquid	2.65E-04		45	NO
NCCampLejeuneMBC	A-LCH-4014-17	Chlorine (Cl)	Liquid	2.65E-04		46	NO
NCCampLejeuneMBC	A-FC-440-87	Chlorine (Cl)	Liquid	2.65E-04		47	NO
NCCampLejeuneMBC	B-A-A47-51	Chlorine (Cl)	Liquid	2.65E-04		48	NO
NCCampLejeuneMBC	A-HP-1700-05	Chlorine (Cl)	Liquid	2.65E-04		49	NO
NCCampLejeuneMBC	A-HP-2027-20	Chlorine (Cl)	Liquid	2.65E-04		50	NO
NCCampLejeuneMBC	A-HP-2027-21	Chlorine (Cl)	Liquid	2.65E-04		51	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeuneMBC	A-HP-2027-H13	Chlorine (Cl)	Liquid	2.65E-04		52	NO
NCCampLejeuneMBC	A-HP-2027-H14	Chlorine (Cl)	Liquid	2.65E-04		53	NO
NCCampLejeuneMBC	A-HP-2027-H15	Chlorine (Cl)	Liquid	2.65E-04		54	NO
NCCampLejeuneMBC	A-HP-2027-H16	Chlorine (Cl)	Liquid	2.65E-04		55	NO
NCCampLejeuneMBC	A-HP-40-75	Chlorine (Cl)	Liquid	2.65E-04		56	NO
NCCampLejeuneMBC	A-HP-40-76	Chlorine (Cl)	Liquid	2.65E-04		57	NO
NCCampLejeuneMBC	A-HP-500-86	Chlorine (Cl)	Liquid	2.65E-04		58	NO
NCCampLejeuneMBC	A-HP-670-88	Chlorine (Cl)	Liquid	2.65E-04		59	NO
NCCampLejeuneMBC	B-A66-H3	Chlorine (Cl)	Liquid	2.65E-04		60	NO
NCCampLejeuneMBC	A-HP-989-31	Chlorine (Cl)	Liquid	2.65E-04		61	NO
NCCampLejeuneMBC	A-FC-260-90	Chlorine (Cl)	Liquid	2.65E-04		62	NO
NCCampLejeuneMBC	C-AS-843-14	Chlorine (Cl)	Liquid	2.65E-04		63	NO
NCCampLejeuneMBC	B-BB-49-52	Chlorine (Cl)	Liquid	2.65E-04		64	NO
NCCampLejeuneMBC	C-AS-1000-H21	Chlorine (Cl)	Liquid	2.65E-04		65	NO
NCCampLejeuneMBC	A-TT-60-79	Chlorine (Cl)	Liquid	2.65E-04		66	NO
NCCampLejeuneMBC	C-AS-3502-08	Chlorine (Cl)	Liquid	2.65E-04		67	NO
NCCampLejeuneMBC	C-AS-3504-09	Chlorine (Cl)	Liquid	2.65E-04		68	NO
NCCampLejeuneMBC	C-AS-3525-15	Chlorine (Cl)	Liquid	2.65E-04		69	NO
NCCampLejeuneMBC	C-AS-4044-22	Chlorine (Cl)	Liquid	2.65E-04		70	NO
NCCampLejeuneMBC	C-AS-4044-23	Chlorine (Cl)	Liquid	2.65E-04		71	NO
NCCampLejeuneMBC	C-AS-4151-17A	Chlorine (Cl)	Liquid	2.65E-04		72	NO
NCCampLejeuneMBC	C-AS-4151-18	Chlorine (Cl)	Liquid	2.65E-04		73	NO
NCCampLejeuneMBC	C-AS-705-11	Chlorine (Cl)	Liquid	2.65E-04		74	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeune MCB	B-BB-9-55	Chlorine (Cl)	Liquid	2.65E-04		75	NO
NCCampLejeune MCB	C-AS-840-13	Chlorine (Cl)	Liquid	2.65E-04		76	NO
NCCampLejeune MCB	C-AS-1000-20	Chlorine (Cl)	Liquid	2.65E-04		77	NO
NCCampLejeune MCB	C-CG-480-89	Chlorine (Cl)	Liquid	2.65E-04		78	NO
NCCampLejeune MCB	C-VL-TFM204-02	Chlorine (Cl)	Liquid	2.65E-04		79	NO
NCCampLejeune MCB	C-VL-TFM204-01	Chlorine (Cl)	Liquid	2.65E-04		80	NO
NCCampLejeune MCB	C-VL-TFM203-02	Chlorine (Cl)	Liquid	2.65E-04		81	NO
NCCampLejeune MCB	C-VL-TFM203-01	Chlorine (Cl)	Liquid	2.65E-04		82	NO
NCCampLejeune MCB	C-VL-TFM104-01	Chlorine (Cl)	Liquid	2.65E-04		83	NO
NCCampLejeune MCB	C-VL-TFM103-01	Chlorine (Cl)	Liquid	2.65E-04		84	NO
NCCampLejeune MCB	C-TC-1500-60	Chlorine (Cl)	Liquid	2.65E-04		85	NO
NCCampLejeune MCB	C-RR-15-46B	Chlorine (Cl)	Liquid	2.65E-04		86	NO
NCCampLejeune MCB	C-CG-650-85	Chlorine (Cl)	Liquid	2.65E-04		87	NO
NCCampLejeune MCB	C-CG-650-84B	Chlorine (Cl)	Liquid	2.65E-04		88	NO
NCCampLejeune MCB	C-AS-710-03	Chlorine (Cl)	Liquid	2.65E-04		89	NO
NCCampLejeune MCB	C-AS-2800-12	Chlorine (Cl)	Liquid	2.65E-04		90	NO
NCCampLejeune MCB	B-BB-9-53B	Chlorine (Cl)	Liquid	2.65E-04		91	NO
NCCampLejeune MCB	B-BB-9-54	Chlorine (Cl)	Liquid	2.65E-04		92	NO
PABoeingRidley Park	033	Hydrogen Chloride (HCl)	Liquid	4.21E-04		93	NO
CTElectric Boat	EMU 17	Hydrogen Chloride (HCl)	Liquid	4.21E-04		94	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_ommon	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
SCDAKAmericas	P8F	Hydrogen Chloride (HCl)	Liquid	4.23E-04		95	NO
MEFPLEnergyWyman	Unit #5	Hydrogen Chloride (HCl)	Liquid	4.89E-04		96	NO
NCMCASCherryPoint	CP-152-BOIL-03	Hydrogen Chloride (HCl)	Liquid	7.00E-04		97	NO
MNGPDuluth	EU33 Boiler #3	Hydrogen Chloride (HCl)	Liquid	7.42E-04		98	NO
MIConsumerEnergyCo-Campbell	EUAUXBLR12	Hydrogen Chloride (HCl)	Liquid	7.78E-04		99	NO
NJVinelandMuniElectric-HowardDown	Unit 9	Hydrogen Chloride (HCl)	Liquid	8.22E-04		100	NO
NCInvistaHwy421	B7600	Hydrogen Chloride (HCl)	Liquid	8.25E-04		101	NO
MNMinnesotaSoybeanProcessors	Boiler 1 EU026	Hydrogen Chloride (HCl)	Liquid	8.73E-04		102	NO
MNMinnesotaSoybeanProcessors	Boiler 2 EU027	Hydrogen Chloride (HCl)	Liquid	8.73E-04		103	NO
SCINVISTACamdennPlant	Unit ID 8 - Vaporizer No. 3	Hydrogen Chloride (HCl)	Liquid	1.00E-03		104	NO
SCINVISTACamdennPlant	Unit ID 9 - Vaporizer No. 4	Hydrogen Chloride (HCl)	Liquid	1.00E-03		105	NO
VANewportNewsShipbuildingDryDock	78-E1	Hydrogen Chloride (HCl)	Liquid	1.14E-03		106	NO
TNMilanArmyAmmunitionPlant	I5A-1, Source #27-0010-14	Chlorine (Cl)	Liquid	1.51E-03		107	NO
TNMilanArmyAmmunitionPlant	I4A-1, Source #27-0010-13	Chlorine (Cl)	Liquid	1.51E-03		108	NO
TNMilanArmyAmmunitionPlant	I3A-1, Source #27-0010-12	Chlorine (Cl)	Liquid	1.51E-03		109	NO
TNMilanArmyAmmunitionPlant	F52L-2, Source #27-0010-30	Chlorine (Cl)	Liquid	1.51E-03		110	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TNMilanArmyA mmunitionPlant	T116A-2, Source #27- 0010-84	Chlorine (Cl)	Liquid	1.51E-03		111	NO
TNMilanArmyA mmunitionPlant	I6A-1, Source #27-0010-15	Chlorine (Cl)	Liquid	1.51E-03		112	NO
TNMilanArmyA mmunitionPlant	D2A-1, Source #27-0010-09	Chlorine (Cl)	Liquid	1.51E-03		113	NO
TNMilanArmyA mmunitionPlant	F52L-1, Source #27-0010-30	Chlorine (Cl)	Liquid	1.51E-03		114	NO
TNMilanArmyA mmunitionPlant	B21L-2, Source #27-0010-28	Chlorine (Cl)	Liquid	1.51E-03		115	NO
TNMilanArmyA mmunitionPlant	B21L-1, Source #27-0010-28	Chlorine (Cl)	Liquid	1.51E-03		116	NO
TNMilanArmyA mmunitionPlant	A15L-2, Source #27-0010-05	Chlorine (Cl)	Liquid	1.51E-03		117	NO
TNMilanArmyA mmunitionPlant	A15L-1, Source #27-0010-05	Chlorine (Cl)	Liquid	1.51E-03		118	NO
TNMilanArmyA mmunitionPlant	D88L-2, Source #27-0010-86	Chlorine (Cl)	Liquid	1.51E-03		119	NO
TNMilanArmyA mmunitionPlant	X21L-2, Source #27-0010-29	Chlorine (Cl)	Liquid	1.51E-03		120	NO
TNMilanArmyA mmunitionPlant	V1L-1, Source #27-0010-46	Chlorine (Cl)	Liquid	1.51E-03		121	NO
TNMilanArmyA mmunitionPlant	D88L-1, Source #27-0010-86	Chlorine (Cl)	Liquid	1.51E-03		122	NO
TNMilanArmyA mmunitionPlant	X21L-1, Source #27-0010-29	Chlorine (Cl)	Liquid	1.51E-03		123	NO
TNMilanArmyA mmunitionPlant	I7A-1, Source #27-0010-16	Chlorine (Cl)	Liquid	1.51E-03		124	NO
TNMilanArmyA mmunitionPlant	X21L-3, Source #27-0010-29	Chlorine (Cl)	Liquid	1.51E-03		125	NO
TNMilanArmyA mmunitionPlant	T116A-1, Source #27- 0010-84	Chlorine (Cl)	Liquid	1.51E-03		126	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TNMilanArmyA mmunitionPlant	S101A-2, Source #27- 0010-21	Chlorine (Cl)	Liquid	1.51E-03		127	NO
TNMilanArmyA mmunitionPlant	J107A-1, Source #27- 0010-31	Chlorine (Cl)	Liquid	1.51E-03		128	NO
TNMilanArmyA mmunitionPlant	K313A-2, Source #27- 0010-83	Chlorine (Cl)	Liquid	1.51E-03		129	NO
TNMilanArmyA mmunitionPlant	K313A-1, Source #27- 0010-83	Chlorine (Cl)	Liquid	1.51E-03		130	NO
TNMilanArmyA mmunitionPlant	K300A-2, Source #27- 0010-19	Chlorine (Cl)	Liquid	1.51E-03		131	NO
TNMilanArmyA mmunitionPlant	K300A-1, Source #27- 0010-19	Chlorine (Cl)	Liquid	1.51E-03		132	NO
TNMilanArmyA mmunitionPlant	K102L-1, Source #27- 0010-42	Chlorine (Cl)	Liquid	1.51E-03		133	NO
TNMilanArmyA mmunitionPlant	J107A-2, Source #27- 0010-31	Chlorine (Cl)	Liquid	1.51E-03		134	NO
TNMilanArmyA mmunitionPlant	S101A-1, Source #27- 0010-21	Chlorine (Cl)	Liquid	1.51E-03		135	NO
SCGPChemRu ssellville	FO Boiler	Hydrogen Chloride (HCl)	Liquid	1.67E-03		136	NO
VASmurfitStone Westpt	PB08	Hydrogen Chloride (HCl)	Liquid	1.82E-03		137	NO
NMCMASCherr yPoint	CP-1786-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		138	NO
NMCMASCherr yPoint	CP-1783-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		139	NO
NMCMASCherr yPoint	CP-1782-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		140	NO
NMCMASCherr yPoint	CP-1781-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		141	NO
NMCMASCherr yPoint	CP-1780-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		142	NO
NMCMASCherr yPoint	CP-1779-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		143	NO
NMCMASCherr yPoint	CP-1777-BOIL- 01	Chlorine (Cl)	Liquid	2.05E-03		144	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCMCASCherryPoint	CP-4344-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		145	NO
NCMCASCherryPoint	CP-1229-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		146	NO
NCMCASCherryPoint	CP-1787-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		147	NO
NCMCASCherryPoint	CP-152-BOIL-04	Chlorine (Cl)	Liquid	2.05E-03		148	NO
NCMCASCherryPoint	CP-4639-BOIL-02	Chlorine (Cl)	Liquid	2.05E-03		149	NO
NCMCASCherryPoint	CP-4402-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		150	NO
NCMCASCherryPoint	CP-4465-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		151	NO
NCMCASCherryPoint	CP-4563-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		152	NO
NCMCASCherryPoint	CP-4564-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		153	NO
NCMCASCherryPoint	CP-4571-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		154	NO
NCMCASCherryPoint	CP-4571-BOIL-02	Chlorine (Cl)	Liquid	2.05E-03		155	NO
NCMCASCherryPoint	CP-4401-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		156	NO
NCMCASCherryPoint	CP-4639-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		157	NO
NCMCASCherryPoint	CP-487-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		158	NO
NCMCASCherryPoint	CP-4639-BOIL-03	Chlorine (Cl)	Liquid	2.05E-03		159	NO
NCMCASCherryPoint	CP-4810-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		160	NO
NCMCASCherryPoint	CP-486-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		161	NO
NCMCASCherryPoint	CP-486-BOIL-02	Chlorine (Cl)	Liquid	2.05E-03		162	NO
NCMCASCherryPoint	CP-487-BOIL-02	Chlorine (Cl)	Liquid	2.05E-03		163	NO
NCMCASCherryPoint	CP-1791-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		164	NO
NCMCASCherryPoint	CP-4213-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		165	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 2-HCl Floor							
FacilityID	CombustorID_c ommon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCMCASCherryPoint	CP-4576-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		166	NO
NCMCASCherryPoint	CP-3916-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		167	NO
NCMCASCherryPoint	CP-1799-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		168	NO
NCMCASCherryPoint	CP-1795-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		169	NO
NCMCASCherryPoint	CP-192-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		170	NO
NCMCASCherryPoint	CP-248-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		171	NO
NCMCASCherryPoint	CP-3919-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		172	NO
NCMCASCherryPoint	CP-4041-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		173	NO
NCMCASCherryPoint	CP-4049-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		174	NO
NCMCASCherryPoint	CP-4298-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		175	NO
NCMCASCherryPoint	CP-4390-BOIL-02	Chlorine (Cl)	Liquid	2.05E-03		176	NO
NCMCASCherryPoint	CP-4390-BOIL-03	Chlorine (Cl)	Liquid	2.05E-03		177	NO
NCMCASCherryPoint	CP-4390-BOIL-01	Chlorine (Cl)	Liquid	2.05E-03		178	NO
NCCampLejeuneMCB	C-RR-15-47B	Hydrogen Chloride (HCl)	Liquid	2.07E-03		179	NO
MINeenahPaperMI	Boiler 2	Chlorine (Cl)	Liquid	3.19E-03		180	NO
ALGPBrewtonMill	BR-PSG0-S018 No. 1 Power Boiler	Chlorine (Cl)	Liquid	3.20E-03		181	NO
NYConEd59thStStationNewYork	Boiler 118	Hydrogen Chloride (HCl)	Liquid	3.67E-03		182	NO
NCCampLejeuneMCB	C-AS-4151-16	Hydrogen Chloride (HCl)	Liquid	7.33E-03		183	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 2-HCl Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCDomtar	66-25-2050 (No. 1 Package Boiler)	Hydrogen Chloride (HCl)	Liquid	7.90E-03		184	NO
MESDWarrenSomerset	Package Boiler	Chlorine (Cl)	Liquid	8.72E-03		185	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Particulate	Biomass	5.33E-04		1	YES
MNAndersonCorpBayport	Boiler 11 EU620	Particulate	Biomass	6.00E-04		2	YES
MNAndersonCorpBayport	Boiler 12 EU621	Particulate	Biomass	6.00E-04		3	YES
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Particulate	Biomass	6.33E-04		4	YES
ARPotlatchForestWarren	Wellons Boiler	Particulate	Biomass	8.00E-04		5	YES
ARWeyerhaeuserDierksMill	SN-45	Particulate	Biomass	1.37E-03		6	YES
ARWeyerhaeuserDierksMill	SN-32	Particulate	Biomass	1.73E-03		7	YES
MSGPNNewAugusta	AA-015 Power Boiler	Particulate	Biomass	1.80E-03		8	YES
IDRileyCreekLumber	HFB1	Particulate	Biomass	2.11E-03		9	YES
FLUSugarCorp	Boiler No. 8	Particulate	Biomass	2.23E-03		10	YES
FLSmurfit-Stone	5PB	Particulate	Biomass	2.67E-03		11	YES
WIDomtar2814	B11, S11	Particulate	Biomass	3.10E-03		12	YES
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate	Biomass	3.33E-03		13	YES
LAWeyerhaeuserDodson	ES-017 WFB	Particulate	Biomass	3.33E-03		14	NO
ARLeolaLumberMill	SN-01A	Particulate	Biomass	3.67E-03		15	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
SCNewSouthCo Conway	WWB1	Particulate	Biomass	5.10E-03		16	NO
FLUSSugarCorp	Boiler No. 7	Particulate	Biomass	5.33E-03		17	NO
ARLeolaLumber Mill	SN-01B	Particulate	Biomass	5.57E-03		18	NO
OKWeyerhaeuse rWrightCity	EUG 19	Particulate	Biomass	5.80E-03		19	NO
ORBBSMMedfor d	B1	Particulate	Biomass	6.33E-03		20	NO
ORBBSMMedfor d	B3	Particulate	Biomass	6.33E-03		21	NO
ORBBSMMedfor d	B2	Particulate	Biomass	6.33E-03		22	NO
MNDESPHansO Nyman	EU007	Particulate	Biomass	6.67E-03		23	NO
SCNewSouthCa mden	WWB1	Particulate	Biomass	7.10E-03		24	NO
SCSmurfitStone	Unit 15: Boiler #3	Particulate	Biomass	9.17E-03		25	NO
ALManningtonW oodFloors	BB01	Particulate	Biomass	9.67E-03		26	NO
ALManningtonW oodFloors	BB02	Particulate	Biomass	9.67E-03		27	NO
GARayonierBaxle y	PB02	Particulate	Biomass	1.18E-02		28	NO
MNHibbing	Unit 4A	Particulate	Biomass	1.20E-02		29	NO
CARoseburgWee d	Boiler	Particulate	Biomass	1.65E-02		30	NO
ORBlueHeronPa per	G Boiler	Particulate	Biomass	1.80E-02		31	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
WABoiseKettleFallsPlywood	B1	Particulate	Biomass	1.80E-02		32	NO
ARGBPMorrilton	SN-04	Particulate	Biomass	1.99E-02		33	NO
IDChilcoLakeSawmill	HFB1	Particulate	Biomass	2.09E-02		34	NO
ARPotlatchForestPrescott	McBurney Boiler	Particulate	Biomass	2.36E-02		35	NO
ALGPBelkLumber	EU 001 Wood Fired Boiler	Particulate	Biomass	2.67E-02		36	NO
IDMoyieSpringsLumber420	HFB1	Particulate	Biomass	2.90E-02		37	NO
GAInternationalPaperAugustaMills	PB3A	Particulate	Biomass	3.17E-02		38	NO
GAGPWarrenton	400B Wood Waste Boiler	Particulate	Biomass	3.53E-02		39	NO
GAGPWoodClaxton	400	Particulate	Biomass	3.67E-02		40	NO
TXNorbordTexasNacogdoches	Konus No. 1	Particulate	Biomass	3.73E-02		41	NO
TXNorbordTexasNacogdoches	Konus No. 2	Particulate	Biomass	3.73E-02		42	NO
LABoiseCascadeOakdale	B-1	Particulate	Biomass	3.87E-02		43	NO
MNHill	Boiler 2	Particulate	Biomass	4.37E-02		44	NO
GAWeyerhaeuserCoOglethorpe	Power Boiler (U400)	Particulate	Biomass	4.47E-02		45	NO
IDRileyCreekLumber	HFB2	Particulate	Biomass	4.50E-02		46	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TXwestfraser	Boiler-1	Particulate	Biomass	4.52E-02		47	NO
NCSeaboardLumber	ES-3	Particulate	Biomass	5.24E-02		48	NO
FLSugarCaneGrowersCoop	Boiler No. 3	Particulate	Biomass	5.60E-02		49	NO
GAGPWarmSprings	EU600 Wood Fuel Boiler	Particulate	Biomass	6.10E-02		50	NO
OKPanPacificProducts	EU 100	Particulate	Biomass	6.11E-02		51	NO
GAPCAValdosta	1005	Particulate	Biomass	6.23E-02		52	NO
GAPCAValdosta	1006	Particulate	Biomass	6.23E-02		53	NO
FLSugarCaneGrowersCoop	Boiler No. 5	Particulate	Biomass	6.27E-02		54	NO
FLSugarCaneGrowersCoop	Boiler No. 8	Particulate	Biomass	6.27E-02		55	NO
MNHill	Boiler 1	Particulate	Biomass	6.47E-02		56	NO
NYIntlPaperTiconderoga	PB1	Particulate	Biomass	6.77E-02		57	NO
FLUSSugarCorp	Boiler No. 4	Particulate	Biomass	6.97E-02		58	NO
ALWestFraserMaplesville	Boiler-1	Particulate	Biomass	7.04E-02		59	NO
FLSugarCaneGrowersCoop	Boiler No. 4	Particulate	Biomass	7.23E-02		60	NO
HIPuuneneSugar Mill	Boiler 1	Particulate	Biomass	8.11E-02		61	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
HIPuuneneSugar Mill	Boiler 2	Particulate	Biomass	8.11E-02		62	NO
FLSugarCaneGro wersCoop	Boiler No. 2	Particulate	Biomass	9.00E-02		63	NO
NDCargillWestFa rgo	Foster Wheeler Boiler (EU43)	Particulate	Biomass	9.03E-02		64	NO
GARayonierJesu pMill	PB02	Particulate	Biomass	9.33E-02		65	NO
FLOsceolaFarms	Boiler No. 6	Particulate	Biomass	9.37E-02		66	NO
GARayonierJesu pMill	PB03	Particulate	Biomass	9.90E-02		67	NO
FLOsceolaFarms	Boiler No. 3	Particulate	Biomass	1.06E-01		68	NO
FLUSSugarCorp	Boiler No. 1	Particulate	Biomass	1.07E-01		69	NO
WAGraysHarbor Paper	No. 8 Boiler (EU1)	Particulate	Biomass	1.10E-01		70	NO
MNNorbordMinne sota	Konus No. 1	Particulate	Biomass	1.14E-01		71	NO
ALIPineHill	109-0001-Z007	Particulate	Biomass	1.14E-01		72	NO
MNNorbordMinne sota	Konus No. 2	Particulate	Biomass	1.14E-01		73	NO
TXAnthonyForest Prod-ATL	EP 10.1 Superior	Particulate	Biomass	1.14E-01		74	NO
GARayonierJesu pMill	PB01	Particulate	Biomass	1.14E-01		75	NO
GARayonierBaxle y	PB01	Particulate	Biomass	1.17E-01		76	NO
ORRosboroSprin gfield	DV 01.1	Particulate	Biomass	1.20E-01		77	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
FLUSSugarCorp	Boiler No. 2	Particulate	Biomass	1.27E-01		78	NO
ARAnthonyForest Products	SN-12	Particulate	Biomass	1.29E-01		79	NO
FLGPPalatka	EU16	Particulate	Biomass	1.30E-01		80	NO
NCGPDudley	ES-B1	Particulate	Biomass	1.33E-01		81	NO
TXAnthonyForest Prod-ATL	EP 11.1 Hurst	Particulate	Biomass	1.42E-01		82	NO
FLOsceolaFarms	Boiler No. 5	Particulate	Biomass	1.45E-01		83	NO
FLOsceolaFarms	Boiler No. 4	Particulate	Biomass	1.49E-01		84	NO
MEDomtarBailey ville	#9 Power Boiler	Particulate	Biomass	1.50E-01		85	NO
FLOsceolaFarms	Boiler No. 2	Particulate	Biomass	1.53E-01		86	NO
ARWestFraserHu ttig	SN-24	Particulate	Biomass	1.83E-01		87	NO
WAGraysHarbor Paper	No. 6 Boiler (EU2)	Particulate	Biomass	2.04E-01		88	NO
MIWhitePineElec tric	IBW Boiler	Particulate	Biomass	2.13E-01		89	NO
SCNewSouthLum berCoDarlington	BLR1	Particulate	Biomass	2.16E-01		90	NO
ORWeyerhaeuse rCoWarrentonLu mberMill	3-HFB	Particulate	Biomass	2.23E-01		91	NO
LABoiseCascade Florien	B-1	Particulate	Biomass	2.31E-01		92	NO
SCCollumsLumb er	01	Particulate	Biomass	2.33E-01		93	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ARWestFraserHu ttig	SN-01	Particulate	Biomass	2.44E-01		94	NO
SCNewSouthLum berCoDarlington	BLR3	Particulate	Biomass	2.54E-01		95	NO
ARGBPMorrilton	SN-02	Particulate	Biomass	2.60E-01		96	NO
MSWeyerhaeuse rBruce	AA-001 No. 1 Boiler	Particulate	Biomass	2.69E-01		97	NO
NCGPRoxboro	ES-1 Wood fired Boiler	Particulate	Biomass	2.84E-01		98	NO
MILPCSagola	TOH-Wood	Particulate	Biomass	2.90E-01		99	NO
ARWeyerhaeuser	SN-06	Particulate	Biomass	2.98E-01		100	NO
ALWeyerhaeuser Millport	Boiler No. 1	Particulate	Biomass	3.15E-01		101	NO
ARDeltaNaturalKr aft	Hog Fuel Boiler (SN-05)	Particulate	Biomass	3.32E-01		102	NO
ALBrewton	SB-1	Particulate	Biomass	3.33E-01		103	NO
SCSmurfitStone	Unit 15: Boiler #1	Particulate	Biomass	3.39E-01		104	NO
MSBatesvilleMfg	AA-001	Particulate	Biomass	3.46E-01		105	NO
MSBatesvilleMfg	AA-002	Particulate	Biomass	4.68E-01		106	NO
MSWeyerhaeuse r1398	Boiler No. 1	Particulate	Biomass	5.09E-01		107	NO
MSWeyerhaeuse r1398	Boiler No. 2	Particulate	Biomass	2.23E+00		108	NO
IAArchersDaniels MidlandDesMoines	Asea Boiler #1	Particulate	Coal	2.00E-04		1	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IAUofNorthernlow a	Boiler #3	Particulate	Coal	5.91E-04		2	YES
VAUniversityofVir ginia	7103-1-01R	Particulate	Coal	6.00E-04		3	YES
IAIAStateUnivPo werPlant	B2	Particulate	Coal	6.08E-04		4	YES
WIGreenBayPac kagingMillDivision	Boiler B26- Coal Fired Boiler	Particulate	Coal	6.40E-04		5	YES
TNCargillMemphi s	Stoker Boiler 8001	Particulate	Coal	7.12E-04		6	YES
TNEastman_NO_ CBIDATA	Boiler 25	Particulate	Coal	8.67E-04		7	YES
IAIAStateUnivPo werPlant	B1	Particulate	Coal	1.00E-03		8	YES
OHSmartPapers HoldingsLLC	B010	Particulate	Coal	1.00E-03		9	YES
TNEastman_NO_ CBIDATA	Boiler 27	Particulate	Coal	1.20E-03		10	YES
WINewPageBiron	B24	Particulate	Coal	1.37E-03		11	YES
IDTASCONampa	Riley Boiler	Particulate	Coal	1.44E-03		12	YES
INSABICInnovati vePlastics	01-001 BW1 Boiler	Particulate	Coal	1.53E-03		13	YES
INSABICInnovati vePlastics	01-001 BW2 Boiler	Particulate	Coal	1.53E-03		14	YES
MNAmericanCrys talCrockston	Boiler 1	Particulate	Coal	1.73E-03		15	YES
IAADMCornProce ssingCR	EU-502B	Particulate	Coal	2.20E-03		16	YES
WIWausau	# 5 Power Boiler (B24)	Particulate	Coal	2.31E-03		17	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
AKDoyonUtilities_AK	4	Particulate	Coal	2.33E-03		18	YES
INPurdueUniverisity	Boiler 5	Particulate	Coal	2.33E-03		19	YES
VAUniversityofVirginia	7103-1-02R	Particulate	Coal	2.33E-03		20	YES
TNEastman_NO_CBIDATA	Boiler 30	Particulate	Coal	2.60E-03		21	YES
ILRockIslandArsenal	NBN 12602 (Boiler #1)	Particulate	Coal	2.69E-03		22	YES
OHUofCincinnati	B108	Particulate	Coal	2.78E-03		23	YES
SCInternationalPaperEastover	No. 1 Power Boiler	Particulate	Coal	2.90E-03		24	YES
WIThilmayPapersNicoletMill	B23	Particulate	Coal	2.94E-03		25	YES
WIThilmayPapersNicoletMill	B24	Particulate	Coal	2.94E-03		26	YES
IDAmalgamatedSugarCoTwinFalls	S-B1	Particulate	Coal	3.13E-03		27	YES
ILPolyOne	B1	Particulate	Coal	3.20E-03		28	YES
TNEastman_NO_CBIDATA	Boiler 31	Particulate	Coal	3.47E-03		29	YES
IAUofIowa	EP7 Boiler 11	Particulate	Coal	3.53E-03		30	YES
ILAbbottAbbottPark	Unit 5AP	Particulate	Coal	3.59E-03		31	YES
VADukeEnergyNarrows	Boiler #2	Particulate	Coal	3.67E-03		32	YES
OHSmartPapersHoldingsLLC	B020	Particulate	Coal	3.73E-03		33	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
AKDoyonUtilities_AK	7	Particulate	Coal	3.83E-03		34	YES
VAGPBigIsland2703	PWR04 - No. 4 Power Boiler	Particulate	Coal	4.00E-03		35	YES
VAUniversityofVirginia	7103-1-05	Particulate	Coal	4.20E-03		36	YES
VADukeEnergyNarrows	Boiler #3	Particulate	Coal	4.33E-03		37	YES
INNotreDame	B-4	Particulate	Coal	4.50E-03		38	YES
NCHanesDyeWinstonSalem	ES B01	Particulate	Coal	4.63E-03		39	YES
NCHanesDyeWinstonSalem	ES B02	Particulate	Coal	4.63E-03		40	YES
OKGPMuskogeeMill	B-3	Particulate	Coal	4.67E-03		41	YES
TNEastman_NO_CBIDATA	Boiler 26	Particulate	Coal	4.67E-03		42	NO
TNEastman_NO_CBIDATA	Boiler 28	Particulate	Coal	4.70E-03		43	NO
IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Particulate	Coal	4.74E-03		44	NO
MIHollandBPW	Unit 3	Particulate	Coal	5.00E-03		45	NO
OHMortonSaltRitterman	B003 - Coal-Fired Boiler #1	Particulate	Coal	5.00E-03		46	NO
MITBSimonPowerPlant	Unit 1	Particulate	Coal	5.01E-03		47	NO
PAPHGlatfelter	PB1	Particulate	Coal	5.21E-03		48	NO
PAPHGlatfelter	PB4	Particulate	Coal	5.23E-03		49	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
PAPHGlatfelter	PB3	Particulate	Coal	5.26E-03		50	NO
TNInvistaChattanooga	EU002 - Boiler #4	Particulate	Coal	5.30E-03		51	NO
GAIPsSavannah	No. 13 Power Boiler - PB13	Particulate	Coal	5.33E-03		52	NO
IAMuscatinePowerandWater	Unit 7	Particulate	Coal	5.33E-03		53	NO
TNEastman_NO_CBIDATA	Boiler 29	Particulate	Coal	5.60E-03		54	NO
IDTASCONampa	Babcock and Wilcox (B&W) #1	Particulate	Coal	5.67E-03		55	NO
IDTASCONampa	Babcock and Wilcox (B&W) #2	Particulate	Coal	5.67E-03		56	NO
SCSonocoHartsville	Boiler Number 4	Particulate	Coal	5.67E-03		57	NO
VADukeEnergyNarrrows	Boiler #6	Particulate	Coal	5.67E-03		58	NO
INAlcoaWarrick	Unit #3	Particulate	Coal	5.69E-03		59	NO
MIPharma&Upjohn1180	Boiler 3	Particulate	Coal	5.77E-03		60	NO
VAVirginiaPolytechnic	Boiler 7	Particulate	Coal	6.00E-03		61	NO
VAPhilipMorrisPark500	B3	Particulate	Coal	6.00E-03		62	NO
IAADMCorncProcessingCR	EU-530	Particulate	Coal	6.08E-03		63	NO
INNewEnergy	Riley Boiler	Particulate	Coal	6.45E-03		64	NO
PAPennState	31	Particulate	Coal	7.00E-03		65	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_ common	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
PAPennState	32	Particulate	Coal	7.00E-03		66	NO
PAPennState	34	Particulate	Coal	7.00E-03		67	NO
PAPennState	35	Particulate	Coal	7.00E-03		68	NO
VAPhilipMorrisPa rk500	B2	Particulate	Coal	7.33E-03		69	NO
INTateLyleSaga more	31B1	Particulate	Coal	7.33E-03		70	NO
MINeenahPaper MI	Boiler 1	Particulate	Coal	7.33E-03		71	NO
WVPPGMartinsvi lle	R011-Boiler 3	Particulate	Coal	7.48E-03		72	NO
VASmurfitStone Westpt	PB08	Particulate	Coal	7.62E-03		73	NO
WVATKRocketC enter	NB2766 W- 17479-W (Boiler 17)	Particulate	Coal	7.92E-03		74	NO
WIMilwaukeePow erPlant	Boiler B21	Particulate	Coal	8.00E-03		75	NO
WIWausau	# 6 Power Boiler (B20)	Particulate	Coal	8.29E-03		76	NO
NCUNCCogen	ES-001	Particulate	Coal	8.45E-03		77	NO
MAUMass	EU#3	Particulate	Coal	8.50E-03		78	NO
MAUMass	EU#4	Particulate	Coal	8.50E-03		79	NO
MAUMass	EU#5	Particulate	Coal	8.50E-03		80	NO
WIMilwaukeePow erPlant	Boiler B23	Particulate	Coal	8.60E-03		81	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
OHBataviaTrans missions	Boiler 2 (B002)	Particulate	Coal	8.67E-03		82	NO
WIWausauRhine	B26	Particulate	Coal	8.93E-03		83	NO
WVDuPontWashi ngtonWorks	P04	Particulate	Coal	9.03E-03		84	NO
IAADMCorncProce ssingCR	EU-501B	Particulate	Coal	9.23E-03		85	NO
OHCampbellsSo upCo	B002	Particulate	Coal	9.27E-03		86	NO
OHCampbellsSo upCo	B001	Particulate	Coal	9.27E-03		87	NO
MNWausauPaper- Brainerd	EU 004	Particulate	Coal	9.67E-03		88	NO
VADukeEnergyN arrows	Boiler #4	Particulate	Coal	9.67E-03		89	NO
WINewPage- WisconsinRapids	Power Boiler 2 - B20	Particulate	Coal	9.83E-03		90	NO
MIGMOrion1138	EG-Boiler 3	Particulate	Coal	1.00E-02		91	NO
TNOakRidge-Y12	Boiler/Unit 34	Particulate	Coal	1.00E-02		92	NO
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Particulate	Coal	1.03E-02		93	NO
MIHollandBPW	Unit 4	Particulate	Coal	1.07E-02		94	NO
WIMilwaukeePow erPlant	Boiler B22	Particulate	Coal	1.07E-02		95	NO
WYSolvay	AQD #18 Boiler #1	Particulate	Coal	1.07E-02		96	NO
NCHanesDyeWin stonSalem	ES B03	Particulate	Coal	1.17E-02		97	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
COCoEnergyNati ons	Boiler 5	Particulate	Coal	1.20E-02		98	NO
WIGPGreenBay2 818	B25 - Stoker Boiler #5	Particulate	Coal	1.20E-02		99	NO
WIGPGreenBay2 818	B26 - Stoker Boiler #6	Particulate	Coal	1.20E-02		100	NO
WIGPGreenBay2 818	B27 - Cyclone Boiler #7	Particulate	Coal	1.20E-02		101	NO
WIGPGreenBay2 818	B28 - Stoker Boiler #8	Particulate	Coal	1.20E-02		102	NO
MNAmericanCrys talMoorhead	Boiler 2	Particulate	Coal	1.21E-02		103	NO
MSDuPontDeLisl e1342	AF-101B (BLR- 1342)	Particulate	Coal	1.23E-02		104	NO
MSDuPontDeLisl e1342	AF-101A (BLR- 1342)	Particulate	Coal	1.23E-02		105	NO
TNNissanSmyrna	Boiler 2	Particulate	Coal	1.23E-02		106	NO
TNNissanSmyrna	Boiler 3	Particulate	Coal	1.24E-02		107	NO
ILBungeDanville	CFB Boiler	Particulate	Coal	1.26E-02		108	NO
MDNewPage- Luke	No. 25	Particulate	Coal	1.26E-02		109	NO
PADomtarJohnso nburg	#81 Coal Boiler	Particulate	Coal	1.27E-02		110	NO
PADomtarJohnso nburg	#82 Coal Boiler	Particulate	Coal	1.27E-02		111	NO
MIGMDetroitHam tramck	Boiler #2	Particulate	Coal	1.28E-02		112	NO
MIGMDetroitHam tramck	Boiler #3	Particulate	Coal	1.28E-02		113	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MIGMDetroitHam tramck	Boiler #4	Particulate	Coal	1.28E-02		114	NO
WVPPGMartinsvi lle	R072-Boiler 5	Particulate	Coal	1.28E-02		115	NO
NCTysonHarmon y	TYS-ES-21	Particulate	Coal	1.30E-02		116	NO
ALCargill-Decatur	Keeler (S-407)	Particulate	Coal	1.30E-02		117	NO
COCoEnergyNati ons	Boiler 4	Particulate	Coal	1.30E-02		118	NO
TNBowaterNews print	Power Boiler No. 3	Particulate	Coal	1.30E-02		119	NO
IAADMCorncProce ssingCR	EU-502A	Particulate	Coal	1.33E-02		120	NO
INBungeDecatur	Keeler (2SP1)	Particulate	Coal	1.33E-02		121	NO
VAVirginiaPolytec hnic	Boiler 11	Particulate	Coal	1.34E-02		122	NO
MASolutiaIncSpri ngfield	EU 150 S03	Particulate	Coal	1.35E-02		123	NO
INCitizensTherm al	15	Particulate	Coal	1.40E-02		124	NO
INCitizensTherm al	16	Particulate	Coal	1.40E-02		125	NO
TNViskase	Boiler 1	Particulate	Coal	1.40E-02		126	NO
TNViskase	Boiler 2	Particulate	Coal	1.40E-02		127	NO
DEINVISTA	EU 001 - Coal Boiler No. 1	Particulate	Coal	1.41E-02		128	NO
KYISPCchemicals	OAA (Riley)	Particulate	Coal	1.43E-02		129	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MNWausauPaper-Brainerd	EU 002	Particulate	Coal	1.43E-02		130	NO
MNWausauPaper-Brainerd	EU 003	Particulate	Coal	1.43E-02		131	NO
ILRockIslandArsenal	Boiler #4	Particulate	Coal	1.50E-02		132	NO
TNCargillMemphis	Pulverized Coal Boiler (8301)	Particulate	Coal	1.50E-02		133	NO
IACargillEddyville	1.039	Particulate	Coal	1.53E-02		134	NO
IACargillEddyville	1.001	Particulate	Coal	1.53E-02		135	NO
IACargillEddyville	1.002	Particulate	Coal	1.53E-02		136	NO
DEINVISTA	EU 003 - Coal Boiler No. 3	Particulate	Coal	1.53E-02		137	NO
NCBlueRidgePaper	G11040	Particulate	Coal	1.53E-02		138	NO
NYAESWestover	Boiler 11	Particulate	Coal	1.57E-02		139	NO
NYAESWestover	Boiler 12	Particulate	Coal	1.57E-02		140	NO
NYAESWestover	Boiler 13	Particulate	Coal	1.57E-02		141	NO
TNOakRidge-Y12	Boiler/Unit 32	Particulate	Coal	1.57E-02		142	NO
ILRockIslandArsenal	NBN 12888 (Boiler #2)	Particulate	Coal	1.59E-02		143	NO
GAIInternationalPaperAugustaMills	PB2A	Particulate	Coal	1.60E-02		144	NO
WYSolvay	AQD #19 Boiler #2	Particulate	Coal	1.60E-02		145	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
OHRockTennCincinnati	B001	Particulate	Coal	1.63E-02		146	NO
WVDuPontWashingtonWorks	P06	Particulate	Coal	1.64E-02		147	NO
OHAppletonIdeas	Boiler 2 (B002)	Particulate	Coal	1.67E-02		148	NO
VADukeEnergyNarrows	Boiler #7	Particulate	Coal	1.67E-02		149	NO
MDNewPage-Luke	No. 24	Particulate	Coal	1.74E-02		150	NO
MNBlandinPaperEnergyCtr	#5 Boiler	Particulate	Coal	1.77E-02		151	NO
MNBlandinPaperEnergyCtr	#6 Boiler	Particulate	Coal	1.77E-02		152	NO
IAADMCornProcessingCR	EU-501A	Particulate	Coal	1.80E-02		153	NO
WINNewPage-WisconsinRapids	Power Boiler 1 - B21	Particulate	Coal	1.80E-02		154	NO
SCSmurfitStone	Unit 16: Boiler #4	Particulate	Coal	1.85E-02		155	NO
INAlcoaWarrick	Unit #2	Particulate	Coal	1.87E-02		156	NO
WVUCCSouthCharleston	B25	Particulate	Coal	1.97E-02		157	NO
SCINVISTACamdenPlant	Unit ID 3 - Boiler No. 3	Particulate	Coal	2.00E-02		158	NO
SCINVISTACamdenPlant	Unit ID 4 - Boiler No. 4	Particulate	Coal	2.00E-02		159	NO
NEADMLincoln	EU26 Coal Boiler	Particulate	Coal	2.05E-02		160	NO
MNNorthshoreMining	Unit 2 (EU 002)	Particulate	Coal	2.06E-02		161	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
INCitizensThermal	12	Particulate	Coal	2.07E-02		162	NO
WIDomtarNekoosa	B20 - Boiler No. 1	Particulate	Coal	2.09E-02		163	NO
WIDomtarNekoosa	B21 - Boiler No. 2	Particulate	Coal	2.09E-02		164	NO
WIDomtarNekoosa	B22 - Boiler No. 7	Particulate	Coal	2.09E-02		165	NO
WIDomtarNekoosa	B24 - Boiler No. 10	Particulate	Coal	2.09E-02		166	NO
WIWausauRhine	B20	Particulate	Coal	2.10E-02		167	NO
WIWausauRhine	B21	Particulate	Coal	2.10E-02		168	NO
WIWausauRhine	B22	Particulate	Coal	2.10E-02		169	NO
WIWausauRhine	B23	Particulate	Coal	2.10E-02		170	NO
VASmurfitStoneHopewell	Combination Boiler	Particulate	Coal	2.13E-02		171	NO
ILAbbottAbbottPark	Unit 4AP	Particulate	Coal	2.13E-02		172	NO
NCMCASCherryPoint	CP-152-BOIL-01	Particulate	Coal	2.17E-02		173	NO
NCMillerCoors	ES-1 Coal/No. 2 & 6 Fuel Oil Boiler	Particulate	Coal	2.17E-02		174	NO
NCKapStone	PB1	Particulate	Coal	2.25E-02		175	NO
TNInvistaChattanooga	EU002 - Boiler #3	Particulate	Coal	2.33E-02		176	NO
MOIPLBlueValley	Unit 1	Particulate	Coal	2.35E-02		177	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ILADMQuincy	EU-5003	Particulate	Coal	2.38E-02		178	NO
ILADMQuincy	EU-5004	Particulate	Coal	2.38E-02		179	NO
OHOrvilleUtilities	B005	Particulate	Coal	2.43E-02		180	NO
OHUSEnrichment CorpPiketon	X-600 Boiler No. 3	Particulate	Coal	2.47E-02		181	NO
PAHorseheadCor pMonaco	35	Particulate	Coal	2.47E-02		182	NO
MIManistiquePap er	EUBLR001	Particulate	Coal	2.56E-02		183	NO
MIManistiquePap er	EUBLR002	Particulate	Coal	2.56E-02		184	NO
MNAmericanCrys talMoorhead	Boiler 1	Particulate	Coal	2.58E-02		185	NO
TNBowaterNews print	Power Boiler No. 1	Particulate	Coal	2.60E-02		186	NO
GACargill- Gainesville	B001	Particulate	Coal	2.63E-02		187	NO
PAHorseheadCor pMonaco	34	Particulate	Coal	2.63E-02		188	NO
WVDuPontWashi ngtonWorks	P05	Particulate	Coal	2.67E-02		189	NO
COCameoStation	Unit 1	Particulate	Coal	2.67E-02		190	NO
ILBungeCairo470	EU 032 (Coal Fired Boiler No. 2)	Particulate	Coal	2.70E-02		191	NO
ILBungeCairo470	EU 032 (Coal Fired Boiler No.1)	Particulate	Coal	2.70E-02		192	NO
WIUWOshkosh	600425	Particulate	Coal	2.90E-02		193	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
OHAkronThermal Energy	Boiler #32 (B001)	Particulate	Coal	2.96E-02		194	NO
MOCentralElectri cChamois	UNIT 1	Particulate	Coal	2.97E-02		195	NO
MOMallinckrodt	Boiler 6	Particulate	Coal	3.00E-02		196	NO
WVDuPontWashi ngtonWorks	P02	Particulate	Coal	3.03E-02		197	NO
OHMortonSaltRitt man	B002 - Coal-Fired Boiler #2	Particulate	Coal	3.07E-02		198	NO
TNOakRidge-Y12	Boiler/Unit 31	Particulate	Coal	3.10E-02		199	NO
ILRockIslandArse nal	NBN 3059 (Boiler #3)	Particulate	Coal	3.14E-02		200	NO
AZCatalystPaper Snowflake	Power Boiler #2 Coal	Particulate	Coal	3.15E-02		201	NO
MOColumbiaPow erPlant	Boiler Unit 6	Particulate	Coal	3.19E-02		202	NO
MOColumbiaPow erPlant	Boiler Unit 7	Particulate	Coal	3.19E-02		203	NO
MNADMMankato	ASEA Boiler #5	Particulate	Coal	3.20E-02		204	NO
NDAmericanCrys talDrayton	Main Boiler	Particulate	Coal	3.22E-02		205	NO
MNNorthshoreMi ning	Unit 1 (EU 001)	Particulate	Coal	3.23E-02		206	NO
VAMeadWestVac o-CovingtonVA	PWR006	Particulate	Coal	3.25E-02		207	NO
VAMeadWestVac o-CovingtonVA	PWR007	Particulate	Coal	3.25E-02		208	NO
VAMeadWestVac o-CovingtonVA	PWR008	Particulate	Coal	3.25E-02		209	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
VAMeadWestVaco-CovingtonVA	PWR009	Particulate	Coal	3.25E-02		210	NO
OHUSEnrichmentCorpPiketon	X-600 Boiler No. 1	Particulate	Coal	3.33E-02		211	NO
DEINVISTA	EU 002 - Coal Boiler No. 2	Particulate	Coal	3.36E-02		212	NO
WINewPageBiron	B23	Particulate	Coal	3.37E-02		213	NO
TNDuPontOldHickoryPlant	#20 Boiler	Particulate	Coal	3.40E-02		214	NO
MOIP&LMissouriCity	Unit 1	Particulate	Coal	3.46E-02		215	NO
MOIP&LMissouriCity	Unit 2	Particulate	Coal	3.46E-02		216	NO
WYGeneralChemical	GR-3-W (D BOILER)	Particulate	Coal	3.47E-02		217	NO
VADukeEnergyNarrrows	Boiler #1	Particulate	Coal	3.50E-02		218	NO
ALIPPineHill	109-0001-Z010	Particulate	Coal	3.53E-02		219	NO
NCCampLejeuneMCB	A-HP-1700-01	Particulate	Coal	3.53E-02		220	NO
NCCampLejeuneMCB	A-HP-1700-02	Particulate	Coal	3.53E-02		221	NO
COCoEnergyNations	Boiler 3	Particulate	Coal	3.67E-02		222	NO
NCBlueRidgePaper	G11039	Particulate	Coal	3.80E-02		223	NO
SCINVISTACamd enPlant	Unit ID 1 - Boiler No. 1	Particulate	Coal	4.00E-02		224	NO
SCINVISTACamd enPlant	Unit ID 2 - Boiler No. 2	Particulate	Coal	4.00E-02		225	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NCEIDuPontKinston	ES6022B	Particulate	Coal	4.01E-02		226	NO
NCBlueRidgePaper	G11038	Particulate	Coal	4.03E-02		227	NO
TNDuPontOldHickoryPlant	#24 Boiler	Particulate	Coal	4.07E-02		228	NO
MOIPLBlueValley	Unit 2	Particulate	Coal	4.15E-02		229	NO
INBungeDecatur	B&W (1SP1)	Particulate	Coal	4.17E-02		230	NO
OHOrrvilleUtilities	B001	Particulate	Coal	4.23E-02		231	NO
OHAppletonIdeas	Boiler 4 (B003)	Particulate	Coal	4.33E-02		232	NO
OHPainesvilleMunicipalElectric	B004	Particulate	Coal	4.33E-02		233	NO
INSABICInnovativePlastics	09-002 Lasker Boiler	Particulate	Coal	4.36E-02		234	NO
VAINVISTAWaynesboro	2-205 (B#2) Boiler #2	Particulate	Coal	4.36E-02		235	NO
VADukeEnergyNarrrows	Boiler #5	Particulate	Coal	4.37E-02		236	NO
GASPNewsprint	PB1	Particulate	Coal	4.43E-02		237	NO
OHArcelorMittalCleveland	Boiler D	Particulate	Coal	4.54E-02		238	NO
OHPainesvilleMunicipalElectric	B001	Particulate	Coal	4.57E-02		239	NO
GAGPSRMRincon	EU BO01	Particulate	Coal	4.59E-02		240	NO
OHArcelorMittalCleveland	Boiler 3	Particulate	Coal	4.59E-02		241	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
ILPrairiePowerPe arl	B1	Particulate	Coal	4.66E-02		242	NO
NDMinnDakFarm ers	Babcock and Wilcox Boiler #5	Particulate	Coal	4.72E-02		243	NO
NCBlueRidgePap er	G11037	Particulate	Coal	4.80E-02		244	NO
OHDukeEnergyG enerationCincinnati	B022 (Boiler #4, IG-4A)	Particulate	Coal	4.83E-02		245	NO
WYGeneralChem ical	GR-2-L (C BOILER)	Particulate	Coal	4.94E-02		246	NO
MNVersoPaper	EU018 Bros	Particulate	Coal	5.00E-02		247	NO
OHBataviaTrans missions	Boiler 1 (B001)	Particulate	Coal	5.00E-02		248	NO
IAJohnDeereDub uque	Boiler 1	Particulate	Coal	5.05E-02		249	NO
IAJohnDeereDub uque	Boiler 4	Particulate	Coal	5.05E-02		250	NO
TNInvistaChattan ooga	EU002 - Boiler #5	Particulate	Coal	5.07E-02		251	NO
OHBataviaTrans missions	Boiler 3 (B003)	Particulate	Coal	5.33E-02		252	NO
WINewPage- Whiting	B24	Particulate	Coal	5.48E-02		253	NO
NYCornellUnivers ity	B1	Particulate	Coal	5.53E-02		254	NO
INSABICInnovati vePlastics	09-002 Erie Boiler	Particulate	Coal	5.63E-02		255	NO
OHUSEnrichment CorpPiketon	X-600 Boiler No. 2	Particulate	Coal	5.73E-02		256	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_ common	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IAJohnDeereDub uque	Boiler 2	Particulate	Coal	5.84E-02		257	NO
IAJohnDeereDub uque	Boiler 3	Particulate	Coal	5.84E-02		258	NO
NCMCASCherryP oint	CP-152-BOIL-02	Particulate	Coal	5.97E-02		259	NO
NCCampLejeune MCB	A-HP-1700-03	Particulate	Coal	6.43E-02		260	NO
NCCampLejeune MCB	A-HP-1700-04	Particulate	Coal	6.43E-02		261	NO
WVPPGMartinsvi lle	R015-Boiler 4	Particulate	Coal	6.47E-02		262	NO
IAAGPEagleGro ve	Boiler 1	Particulate	Coal	6.51E-02		263	NO
INPurdueUniver sity	Boiler 2	Particulate	Coal	6.93E-02		264	NO
VAPhilipMorris M C	PC	Particulate	Coal	7.13E-02		265	NO
OHOrrvilleUtil ities	B004	Particulate	Coal	7.37E-02		266	NO
GACaraustar	CB01	Particulate	Coal	7.47E-02		267	NO
OHOrrvilleUtil ities	B006	Particulate	Coal	7.67E-02		268	NO
IAIAStateUniv PowerPlant	B4	Particulate	Coal	7.73E-02		269	NO
HIPuuneneSugar Mill	Boiler 1	Particulate	Coal	7.92E-02		270	NO
HIPuuneneSugar Mill	Boiler 2	Particulate	Coal	7.92E-02		271	NO
MIMISugarSebe w aing	Boiler #1 (summer)	Particulate	Coal	7.93E-02		272	NO
MIMISugarSebe w aing	Boiler #2	Particulate	Coal	7.93E-02		273	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MNRochesterUtili ties	EU003	Particulate	Coal	7.98E-02		274	NO
MIMichiganSugar Caro	Boiler #1	Particulate	Coal	8.27E-02		275	NO
MIMichiganSugar Caro	Boiler #2	Particulate	Coal	8.27E-02		276	NO
WIDairylandPow er-Alma	Alma 1	Particulate	Coal	8.40E-02		277	NO
WIDairylandPow er-Alma	Alma 2	Particulate	Coal	8.40E-02		278	NO
WIDairylandPow er-Alma	Alma 3	Particulate	Coal	8.40E-02		279	NO
MNRochesterUtili ties	EU001	Particulate	Coal	8.43E-02		280	NO
OHPainesvilleMu nicipalElectric	B003	Particulate	Coal	8.63E-02		281	NO
WINewPageKimb erly	B21	Particulate	Coal	8.99E-02		282	NO
WINewPageKimb erly	B22	Particulate	Coal	8.99E-02		283	NO
MIMISugarCroswe ll	Boiler #1 (east Wicks)	Particulate	Coal	9.10E-02		284	NO
MIMISugarCroswe ll	Boiler #2 (west Wicks)	Particulate	Coal	9.10E-02		285	NO
PABayValleyFoo dsPittsburgh	Boiler No. 3	Particulate	Coal	9.30E-02		286	NO
PABayValleyFoo dsPittsburgh	Boiler No. 4	Particulate	Coal	9.30E-02		287	NO
SCGaley&Lord	1EB1	Particulate	Coal	9.30E-02		288	NO
SCGaley&Lord	1FB1	Particulate	Coal	9.30E-02		289	NO
INTateLyleLafaye tteSouth	LA-45	Particulate	Coal	1.04E-01		290	NO
NCEIDuPontKinst on	ES6022A	Particulate	Coal	1.09E-01		291	NO
MICargillSalt	EGBOILER5	Particulate	Coal	1.10E-01		292	NO
OHCityofHamilto n	B008	Particulate	Coal	1.17E-01		293	NO
MOBASFHanniba l	Coal Fired Boiler #4	Particulate	Coal	1.22E-01		294	NO
ILDukeEnergyTu scola	Unit 1	Particulate	Coal	1.30E-01		295	NO
ILDukeEnergyTu scola	Unit 3	Particulate	Coal	1.30E-01		296	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IDTASCOPaul	Babcock and Wilcox (B&W) Boiler	Particulate	Coal	1.33E-01		297	NO
IDAmalgamatedS ugarCoTwinFalls	S-B2	Particulate	Coal	1.33E-01		298	NO
GAInternationalP aperAugustaMills	PB1A	Particulate	Coal	1.39E-01		299	NO
MNRochesterUtili ties	EU002	Particulate	Coal	1.42E-01		300	NO
MIDelphiSaginaw	EUBR03	Particulate	Coal	1.48E-01		301	NO
MNDESPHansO Nyman	EU002	Particulate	Coal	1.57E-01		302	NO
MNDESPHansO Nyman	EU003	Particulate	Coal	1.57E-01		303	NO
NYCornellUnivers ity	B8	Particulate	Coal	1.70E-01		304	NO
ILAbbottNorthChi cago	Emission Unit TT- 16 (Boiler #5)	Particulate	Coal	1.70E-01		305	NO
IDTASCOPaul	Erie City Boiler	Particulate	Coal	1.77E-01		306	NO
PABellefieldPlant	Boiler 5	Particulate	Coal	1.77E-01		307	NO
WVDuPontWashi ngtonWorks	P03	Particulate	Coal	1.88E-01		308	NO
ILAbbottNorthChi cago	Emission Unit TT- 20 (Boiler #6)	Particulate	Coal	1.95E-01		309	NO
PABayValleyFoo dsPittsburgh	Boiler No. 2	Particulate	Coal	2.03E-01		310	NO
PABayValleyFoo dsPittsburgh	Boiler No. 1	Particulate	Coal	2.03E-01		311	NO
INNotreDame	B-2	Particulate	Coal	2.06E-01		312	NO
IAGrainProcessin g	Boiler #1	Particulate	Coal	2.31E-01		313	NO
IAGrainProcessin g	Boiler #2	Particulate	Coal	2.31E-01		314	NO
IAGrainProcessin g	Boiler #3	Particulate	Coal	2.31E-01		315	NO
IAGrainProcessin g	Boiler #4	Particulate	Coal	2.31E-01		316	NO
IAGrainProcessin g	Boiler #6	Particulate	Coal	2.31E-01		317	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
IAGrainProcessing	Boiler #7	Particulate	Coal	2.31E-01		318	NO
MIDelphiSaginaw	EUBR05	Particulate	Coal	2.35E-01		319	NO
MIDelphiSaginaw	EUBR04	Particulate	Coal	2.43E-01		320	NO
MIPharma&Upjohn1178	EUEBLR43-2 (Boiler No. 2)	Particulate	Coal	2.56E-01		321	NO
MOBASFHannibal	Coal Fired Boiler #5	Particulate	Coal	2.59E-01		322	NO
IACentrallAPower	EP1 Unit 1 PC Boiler	Particulate	Coal	2.72E-01		323	NO
INNotreDame	B-3	Particulate	Coal	2.74E-01		324	NO
MOJamesRiverPowerStation	Unit 1	Particulate	Coal	2.82E-01		325	NO
MOJamesRiverPowerStation	Unit 2	Particulate	Coal	2.82E-01		326	NO
PABellefieldPlant	Boiler 1	Particulate	Coal	2.85E-01		327	NO
MIDelphiSaginaw	EUBR01	Particulate	Coal	2.85E-01		328	NO
MIPharma&Upjohn1178	EUEBLR43-4 (Boiler No. 4)	Particulate	Coal	2.98E-01		329	NO
MIPharma&Upjohn1178	EUEBLR43-5 (Boiler No. 5)	Particulate	Coal	3.08E-01		330	NO
PABellefieldPlant	Boiler 3	Particulate	Coal	3.15E-01		331	NO
WVDuPontWashingtonWorks	P01	Particulate	Coal	3.17E-01		332	NO
MIDelphiSaginaw	EUBR06	Particulate	Coal	3.40E-01		333	NO
SCSonocoHartsville	Boiler Number 3	Particulate	Coal	4.10E-01		334	NO
INPurdueUniversity	Boiler 1	Particulate	Coal	4.66E-01		335	NO
IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	Particulate	Gas 1	1.33E-04		1	YES
MSChevronPascagoula	F-2103	Particulate	Gas 1	2.67E-04		2	YES
IACargillEddyville	84.000	Particulate	Gas 1	2.83E-04		3	YES
IACargillEddyville	86.000	Particulate	Gas 1	2.83E-04		4	YES
MABostonGeneratingMysticStation	EU-17	Particulate	Gas 1	3.00E-04		5	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MSDuPontDeLisle1342	AH-202 (BLR-1342)	Particulate	Gas 1	3.16E-04		6	YES
IAKochNitrogen	Reformer-Aux Boiler	Particulate	Gas 1	3.58E-04		7	YES
NCCampLejeune MCB	C-AS-4151-16	Particulate	Gas 1	4.20E-04		8	YES
IAGrainProcessing	Boiler #10	Particulate	Gas 1	4.29E-04		9	YES
TNValeroMemphis	P021 - No. 10 Boiler	Particulate	Gas 1	4.33E-04		10	YES
MSChevronPasagoula	F-8510	Particulate	Gas 1	4.35E-04		11	YES
MSDuPontDeLisle1342	AH-101 (BLR-1342)	Particulate	Gas 1	4.49E-04		12	YES
MDUofMaryland	EU 001-4	Particulate	Gas 1	4.98E-04		13	YES
TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate	Gas 1	5.50E-04		14	YES
TNValeroMemphis	P043 - DHT 18 Reactor Feed Heater	Particulate	Gas 1	5.67E-04		15	YES
NJSunocoWestville	Boiler #7	Particulate	Gas 1	6.00E-04		16	YES
NJSunocoWestville	Boiler #6	Particulate	Gas 1	6.22E-04		17	YES
NJSunocoWestville	Boiler #5	Particulate	Gas 1	6.23E-04		18	YES
KSCoffeyvilleRefinery	EU-39-FH0027	Particulate	Gas 1	6.23E-04		19	NO
NJSunocoWestville	H-1 LSG	Particulate	Gas 1	6.54E-04		20	NO
NJSunocoWestville	Boiler #8	Particulate	Gas 1	6.57E-04		21	NO
TNValeroMemphis	P021 - No. 9 Boiler	Particulate	Gas 1	7.00E-04		22	NO
TNValeroMemphis	P037 - SHU Splitter Reboiler Heater	Particulate	Gas 1	8.00E-04		23	NO
SCMichelinSandy Springs	B:02:01	Particulate	Gas 1	8.92E-04		24	NO
MNADMCornDivision	Gas Boiler #4 EU054	Particulate	Gas 1	9.00E-04		25	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
OHSolaeBellvue	B008	Particulate	Gas 1	9.76E-04		26	NO
LAValeroRefining	401E Boiler	Particulate	Gas 1	1.00E-03		27	NO
LAValeroRefining	GDU Heater	Particulate	Gas 1	1.00E-03		28	NO
LAValeroRefining	SMR1 Heater No. 1	Particulate	Gas 1	1.00E-03		29	NO
WATransAltaCentralia	EU 12 BHP Auxiliary Boiler	Particulate	Gas 1	1.00E-03		30	NO
NJSunocoWestville	PH-2 CRU	Particulate	Gas 1	1.03E-03		31	NO
NJSunocoWestville	2H-202 ULSD	Particulate	Gas 1	1.11E-03		32	NO
NJSunocoWestville	PH-6 CRU	Particulate	Gas 1	1.29E-03		33	NO
NJSunocoWestville	HH-1 HTU	Particulate	Gas 1	1.34E-03		34	NO
MSDuPontDeLisle1342	AF-103 (BLR-1342)	Particulate	Gas 1	1.35E-03		35	NO
NJHessCorp-PortReading	U4 - Boiler #4	Particulate	Gas 1	1.35E-03		36	NO
NJSunocoWestville	PH-1 ISOM	Particulate	Gas 1	1.35E-03		37	NO
MSDuPontDeLisle1342	AH-201 (BLR-1342)	Particulate	Gas 1	1.35E-03		38	NO
NJSunocoWestville	B-5A FCCU	Particulate	Gas 1	1.43E-03		39	NO
NJSunocoWestville	B-5B FCCU	Particulate	Gas 1	1.43E-03		40	NO
MDUofMaryland	EU 001-8	Particulate	Gas 1	1.46E-03		41	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
INTateLyleSagamore	21B501	Particulate	Gas 1	1.52E-03		42	NO
NJSunocoWestville	B-301 POLY	Particulate	Gas 1	1.62E-03		43	NO
NJSunocoWestville	HA-4 VPS	Particulate	Gas 1	1.62E-03		44	NO
PASunocoPhiladelphia	CU-138	Particulate	Gas 1	1.66E-03		45	NO
MNStPaulParkRef	EU 028	Particulate	Gas 1	1.67E-03		46	NO
LACitgoLakeCharles	EQT238	Particulate	Gas 1	1.67E-03		47	NO
MNStPaulParkRef	EU 029	Particulate	Gas 1	1.67E-03		48	NO
SCMarlboroPaper	Package Boiler	Particulate	Gas 1	1.67E-03		49	NO
TXTotalPetrochemPortArthur	51DHT1H-1	Particulate	Gas 1	1.67E-03		50	NO
MSChevronPascagoula	F-8400	Particulate	Gas 1	1.69E-03		51	NO
SCEastmanColumbia	HTM Heater #3 (Equip ID 1101)	Particulate	Gas 1	1.73E-03		52	NO
LAValeroRefining	F-15-05	Particulate	Gas 1	2.00E-03		53	NO
LAValeroRefining	KHT Heater F-33-05	Particulate	Gas 1	2.00E-03		54	NO
KYCatlettsburgRefining	1-9-B-588	Particulate	Gas 1	2.07E-03		55	NO
MSChevronPascagoula	F-6531	Particulate	Gas 1	2.09E-03		56	NO
NJSunocoWestville	B-3 FCCU	Particulate	Gas 1	2.21E-03		57	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
TXDiamondShamrockMcKee	B-12 (600# Boiler)	Particulate	Gas 1	2.23E-03		58	NO
LAValeroRefining	F-72-703	Particulate	Gas 1	2.33E-03		59	NO
TXTotalPetrochemPortArthur	52DHT2H-1	Particulate	Gas 1	2.33E-03		60	NO
NJSunocoWestville	HA-3B VPS	Particulate	Gas 1	2.36E-03		61	NO
NJHessCorp-PortReading	U4 - Boiler #3	Particulate	Gas 1	2.38E-03		62	NO
MSChevronPascagoula	F-8300B	Particulate	Gas 1	2.43E-03		63	NO
PASunocoPhiladelphia	CU-137	Particulate	Gas 1	2.49E-03		64	NO
OKTerraNitrogen	#1 Primary Reformer	Particulate	Gas 1	2.50E-03		65	NO
KYDomtarHawesville	Package Boiler C-40	Particulate	Gas 1	2.52E-03		66	NO
MSChevronPascagoula	F-8120	Particulate	Gas 1	2.56E-03		67	NO
NJSunocoWestville	2H-201 ULSD	Particulate	Gas 1	2.70E-03		68	NO
NJSunocoWestville	HA-03A VPS	Particulate	Gas 1	2.71E-03		69	NO
NJSunocoWestville	H-2 LSG	Particulate	Gas 1	2.72E-03		70	NO
NJSunocoWestville	HA-01 VPS	Particulate	Gas 1	2.75E-03		71	NO
MSChevronPascagoula	F-1601	Particulate	Gas 1	2.78E-03		72	NO
NJSunocoWestville	HC-301 Claytreater	Particulate	Gas 1	2.90E-03		73	NO
LAValeroRefining	SMR1 Heater No. 2	Particulate	Gas 1	3.00E-03		74	NO
MNStPaulParkRef	EU 026	Particulate	Gas 1	3.00E-03		75	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MSWeyerhaeuserColumbus	AA-019	Particulate	Gas 1	3.00E-03		76	NO
NJSunocoWestville	PH-5B CRU	Particulate	Gas 1	3.02E-03		77	NO
MSChevronPascagoula	F-8110	Particulate	Gas 1	3.13E-03		78	NO
TXDiamondShamrockThreeRivers	H-201	Particulate	Gas 1	3.17E-03		79	NO
TXDiamondShamrockThreeRivers	H-203	Particulate	Gas 1	3.17E-03		80	NO
TXDiamondShamrockThreeRivers	H-204	Particulate	Gas 1	3.17E-03		81	NO
WIWisconsinPaperboard2879	B24	Particulate	Gas 1	3.29E-03		82	NO
MSChevronPascagoula	F-8620	Particulate	Gas 1	3.49E-03		83	NO
TXTotalPetrochemPortArthur	52DHT2H-2	Particulate	Gas 1	3.50E-03		84	NO
LAValeroRefining	H-60-1	Particulate	Gas 1	3.67E-03		85	NO
LAValeroRefining	H-60-2	Particulate	Gas 1	3.67E-03		86	NO
LAValeroRefining	H-60-3	Particulate	Gas 1	3.67E-03		87	NO
LAValeroRefining	H-60-4	Particulate	Gas 1	3.67E-03		88	NO
MSChevronPascagoula	F-6101	Particulate	Gas 1	3.88E-03		89	NO
MSChevronPascagoula	F-6102	Particulate	Gas 1	3.88E-03		90	NO
MSChevronPascagoula	F-8300C	Particulate	Gas 1	3.94E-03		91	NO
TXTotalPetrochemPortArthur	51DHT1H-3	Particulate	Gas 1	4.00E-03		92	NO
OHSolaeBellvue	B010	Particulate	Gas 1	4.23E-03		93	NO
CTCyttecWallingford	150 Furnace	Particulate	Gas 1	4.33E-03		94	NO
MSMasoniteLauriel	BB-001	Particulate	Gas 1	4.33E-03		95	NO
DEPremcorGroupValero	Boiler 1	Particulate	Gas 1	4.40E-03		96	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MNStPaulParkRef	EU 007	Particulate	Gas 1	4.67E-03		97	NO
MSChevronPascagoula	F-8130	Particulate	Gas 1	4.76E-03		98	NO
MSChevronPascagoula	F-8300A	Particulate	Gas 1	5.15E-03		99	NO
WVWeyerhaeuserBuckhannon	001-02	Particulate	Gas 1	5.54E-03		100	NO
LACitgoLakeCharles	EQT237	Particulate	Gas 1	5.67E-03		101	NO
WAGraysHarborPaper	No. 9 Boiler (EU3)	Particulate	Gas 1	5.81E-03		102	NO
NJSunocoWestville	PH-4A CRU	Particulate	Gas 1	5.96E-03		103	NO
NJSunocoWestville	PH-3 CRU	Particulate	Gas 1	5.98E-03		104	NO
NJSunocoWestville	PH-4B CRU	Particulate	Gas 1	5.98E-03		105	NO
TXDiamondShamrockThreeRivers	100-H2	Particulate	Gas 1	6.00E-03		106	NO
KYDomtarHawesville	No. 2 Backup Boiler C-50	Particulate	Gas 1	7.03E-03		107	NO
TXValeroPortArthur	942 F1300	Particulate	Gas 1	7.72E-03		108	NO
TXValeroPortArthur	942 F2000	Particulate	Gas 1	7.72E-03		109	NO
TXValeroPortArthur	942 F1000	Particulate	Gas 1	7.72E-03		110	NO
MSChevronPascagoula	F-2440	Particulate	Gas 1	8.09E-03		111	NO
MSChevronPascagoula	F-2450	Particulate	Gas 1	8.09E-03		112	NO
MSChevronPascagoula	F-2460	Particulate	Gas 1	8.09E-03		113	NO
MSChevronPascagoula	F-2470	Particulate	Gas 1	8.09E-03		114	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MSChevronPascagoula	F-2480	Particulate	Gas 1	8.09E-03		115	NO
MSChevronPascagoula	F-2490	Particulate	Gas 1	8.09E-03		116	NO
MSChevronPascagoula	F-6250	Particulate	Gas 1	8.38E-03		117	NO
TXDiamondShamrockThreeRivers	H-1102	Particulate	Gas 1	8.43E-03		118	NO
MNStPaulParkRef	EU 005	Particulate	Gas 1	8.90E-03		119	NO
TXDiamondShamrockThreeRivers	H-1402	Particulate	Gas 1	9.00E-03		120	NO
MDUofMaryland	EU 001-2	Particulate	Gas 1	9.35E-03		121	NO
PASunocoMarcusHook	040 (10-4 Feed Heater)	Particulate	Gas 1	9.77E-03		122	NO
MNStPaulParkRef	EU 001	Particulate	Gas 1	1.00E-02		123	NO
MNStPaulParkRef	EU 011	Particulate	Gas 1	1.00E-02		124	NO
MNStPaulParkRef	EU 013	Particulate	Gas 1	1.00E-02		125	NO
MNStPaulParkRef	EU 023	Particulate	Gas 1	1.00E-02		126	NO
MNStPaulParkRef	EU 024	Particulate	Gas 1	1.00E-02		127	NO
TXDiamondShamrockThreeRivers	100-H1	Particulate	Gas 1	1.03E-02		128	NO
DEPremcorGroupValero	Boiler 3	Particulate	Gas 1	1.10E-02		129	NO
GAADMLocation 551	640- Cleaver Brooks	Particulate	Gas 1	1.18E-02		130	NO
MNStPaulParkRef	EU 025	Particulate	Gas 1	1.20E-02		131	NO
MNStPaulParkRef	EU 006	Particulate	Gas 1	1.33E-02		132	NO
DEPremcorGroupValero	Boiler 2	Particulate	Gas 1	1.40E-02		133	NO
IAAlcoaDavenport	CFRN21	Particulate	Gas 1	1.55E-02		134	NO
MNStPaulParkRef	EU 010	Particulate	Gas 1	1.67E-02		135	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MNStPaulParkRef	EU 027	Particulate	Gas 1	2.33E-02		136	NO
MNStPaulParkRef	EU 014	Particulate	Gas 1	3.67E-02		137	NO
DEPremcorGroup Valero	Boiler 4	Particulate	Gas 1	4.80E-02		138	NO
TXEastmanChem Longview	UD030B11	Particulate	Gas 1	7.19E-02		139	NO
TXMeadWestvac oEvadale	21-2069	Particulate	Gas 1	7.80E-02		140	NO
MNStPaulParkRef	EU 002	Particulate	Gas 1	8.00E-02		141	NO
MNStPaulParkRef	EU 015	Particulate	Gas 1	8.00E-02		142	NO
MTE ExxonMobil Billings	KCOB	Particulate	Gas 1	2.53E-01		143	NO
IN ArcelorMittal Burns Harbor	Hot Dip Coating Line Annealing Furnace	Particulate	Gas 1	4.78E-06	yes	1	YES
IN Nucor Steel	Cold Mill Annealing	Particulate	Gas 1	1.04E-03	yes	2	YES
CO Rocky Mtn Steel 212	Rod/Bar Mill Furnace 95OPP088	Particulate	Gas 1	1.38E-03	yes	3	NO
UT Westinghouse	202	Particulate	Gas 1	2.59E-03	yes	4	NO
IL USS Granite City	No. 8 Galvanizing Line Furnace	Particulate	Gas 1	3.28E-03	yes	5	NO
IN Outokumpu Stainless Plate	Heppenstall Annealing Furnace	Particulate	Gas 1	3.33E-03	yes	6	NO
IA Alcoa Davenport	TFRN16	Particulate	Gas 1	1.15E-02	yes	7	NO
IN Alcoa Warrick	Annealing Furnace #15	Particulate	Gas 1	2.93E-02	yes	8	NO
IN Alcoa Warrick	Pre-Heat Furnace #36	Particulate	Gas 1	2.93E-02	yes	9	NO
LA Shell Chemical Geismar	Furnace F-S801	Particulate	Gas 2	4.20E-04		1	YES
WI GPGreen Bay 2818	B29 - Fluidized Bed Boiler #9	Particulate	Gas 2	7.90E-04		2	YES
SC BMW Manufacturing Co	HB03	Particulate	Gas 2	1.38E-03		3	NO
IN Tate Lyle Sagamore	21B501	Particulate	Gas 2	1.43E-03		4	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MDSeverstalSpar rows	1BLR (No. 1 Boiler)	Particulate	Gas 2	4.47E-03		5	NO
WVMountainStat eCarbonFollansb ee	S1	Particulate	Gas 2	6.10E-03		6	NO
KYAKSteel- WestWorks	No. 13 Boiler	Particulate	Gas 2	8.67E-03		7	NO
INArcelorMittalBu rnsHarbor	No. 7 Boiler	Particulate	Gas 2	8.87E-03		8	NO
GAGPSRMRiinc n	EU BO02	Particulate	Gas 2	1.09E-02		9	NO
KYAKSteel- WestWorks	No. 7 Boiler	Particulate	Gas 2	1.67E-02		10	NO
PAUSSClairton	B002 Boiler No. 2	Particulate	Gas 2	1.72E-02		11	NO
KYAKSteel- WestWorks	No. 6 Boiler	Particulate	Gas 2	2.13E-02		12	NO
KYAKSteel- WestWorks	No. 5 Boiler	Particulate	Gas 2	2.60E-02		13	NO
PAUSSMonValle ylrvin	Terne Line Lead Pot	Particulate	Gas 2	3.06E-01	yes		
TNMilanArmyAm munitionPlant	D88L-1, Source #27-0010-86	Particulate	Liquid	5.11E-04		1	YES
SCGPChemRuss ellville	FO Boiler	Particulate	Liquid	6.00E-04		2	YES
NJSunocoWestvil le	Boiler #8	Particulate	Liquid	6.78E-04		3	YES
PAConemaughP owerPlantNewFlo rence	Aux Boiler B	Particulate	Liquid	8.73E-04		4	YES
NJSunocoWestvil le	Boiler #6	Particulate	Liquid	1.02E-03		5	YES
PACherokeePhar m	SG-C, Title V Source ID 037	Particulate	Liquid	1.60E-03		6	YES
NJSunocoWestvil le	Boiler #7	Particulate	Liquid	1.72E-03		7	YES
PACherokeePhar m	SG-B, Title V Source ID 036	Particulate	Liquid	1.80E-03		8	YES
NJSunocoWestvil le	Boiler #5	Particulate	Liquid	1.82E-03		9	YES
ALBP-Decatur24	AB-8301	Particulate	Liquid	2.30E-03		10	YES
MANewarkAmeri ca	Boiler #2	Particulate	Liquid	2.50E-03		11	NO
SCCogenSouth	B002 - Auxiliary Boiler #1	Particulate	Liquid	3.05E-03		12	NO
SCCogenSouth	B003 - Auxiliary Boiler #2	Particulate	Liquid	3.05E-03		13	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
SCCogenSouth	B004 - Auxiliary Boiler #3	Particulate	Liquid	3.05E-03		14	NO
SCMitsubishiPoly esterFilm	Dowtherm Heater 4 (4FPDDOWHSA)	Particulate	Liquid	3.32E-03		15	NO
MIConsumerEner gyCo-Campbell	EUAUXBLR12	Particulate	Liquid	3.37E-03		16	NO
MNMinnesotaSoy beanProcessors	Boiler 1 EU026	Particulate	Liquid	3.77E-03		17	NO
MNMinnesotaSoy beanProcessors	Boiler 2 EU027	Particulate	Liquid	3.77E-03		18	NO
WIWisconsinPap erboard2879	B24	Particulate	Liquid	4.10E-03		19	NO
VAAltavistaPower Station	Unit No. 003	Particulate	Liquid	4.92E-03		20	NO
GAGPCelluloseB runswick	U707 -- No. 7 Power Boiler	Particulate	Liquid	5.23E-03		21	NO
OHSolaeBellvue	B010A	Particulate	Liquid	5.43E-03		22	NO
SCDAKAmericas PAConemaughP owerPlantNewFlo rence	P8E	Particulate	Liquid	6.51E-03		23	NO
	Aux Boiler A	Particulate	Liquid	7.47E-03		24	NO
GAGPCelluloseB runswick	U706 -- No. 6 Power Boiler	Particulate	Liquid	8.27E-03		25	NO
SCDAKAmericas TNInvistaChattan ooga	P8D	Particulate	Liquid	9.04E-03		26	NO
	EU003 - Vaporizer #2	Particulate	Liquid	9.40E-03		27	NO
WYSinclairCasper	Pt. 9 B-1 #4 Crude Heater	Particulate	Liquid	1.03E-02		28	NO
SCDAKAmericas	P8C	Particulate	Liquid	1.03E-02		29	NO
MNGPDuluth	EU33 Boiler #3	Particulate	Liquid	1.10E-02		30	NO
ALGPBrewtonMill	BR-PSG0-S018 No. 1 Power Boiler	Particulate	Liquid	1.23E-02		31	NO
INUSSteelGaryW orks	O4B10459	Particulate	Liquid	1.52E-02		32	NO
NCDomtar	66-25-2050 (No. 1 Package Boiler)	Particulate	Liquid	1.61E-02		33	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
NYConEd59thSt StationNewYork	Boiler 118	Particulate	Liquid	1.75E-02		34	NO
PABoeingRidleyP ark	033	Particulate	Liquid	1.83E-02		35	NO
FLOkeelanta268	Boiler No. 16	Particulate	Liquid	1.83E-02		36	NO
MAUMass	EU#7	Particulate	Liquid	1.88E-02		37	NO
MENewPage- Rumford	PB#3	Particulate	Liquid	2.00E-02		38	NO
MNStPaulParkRe f	EU 021	Particulate	Liquid	2.33E-02		39	NO
NJVinelandMuniE lectric- HowardDown	Unit 9	Particulate	Liquid	2.41E-02		40	NO
MDUofMaryland	EU 001-4	Particulate	Liquid	2.98E-02		41	NO
MENewPage- Rumford	PB#5	Particulate	Liquid	3.00E-02		42	NO
MNStPaulParkRe f	EU 020	Particulate	Liquid	3.00E-02		43	NO
WANipponPaper	#10 Package Boiler	Particulate	Liquid	3.06E-02		44	NO
MDMirantChalkP oint	Unit 4	Particulate	Liquid	3.43E-02		45	NO
MNStPaulParkRe f	EU 018	Particulate	Liquid	3.67E-02		46	NO
NCWeyerhaeuse r-Vanceboro	ES 161-001	Particulate	Liquid	3.70E-02		47	NO
ORCascadePacifi cPulp	PB1EU	Particulate	Liquid	4.03E-02		48	NO
WANipponPaper	#9 Package Boiler	Particulate	Liquid	4.11E-02		49	NO
OHCampbellsSo upCo	B003	Particulate	Liquid	4.30E-02		50	NO
ORGeorgiaPacifi cWaunaMill	EU33 - Power Boiler	Particulate	Liquid	4.41E-02		51	NO
OHCampbellsSo upCo	B004	Particulate	Liquid	4.90E-02		52	NO
MAGEAviationLy nn	99-2	Particulate	Liquid	5.50E-02		53	NO
MAGEAviationLy nn	99-1	Particulate	Liquid	5.67E-02		54	NO
NYDMVInternatio nal	BOIL1	Particulate	Liquid	5.67E-02		55	NO
NYDMVInternatio nal	BOIL2	Particulate	Liquid	5.67E-02		56	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_co mmon	Pollutant_ Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
SCDAKAmericas	P8F	Particulate	Liquid	5.67E-02		57	NO
MAGEAviationLy nn	99-5	Particulate	Liquid	5.80E-02		58	NO
ORWahChang	6633-78 (SEP-AS 502B, Boiler #2)	Particulate	Liquid	6.49E-02		59	NO
MAGEAviationLy nn	99-3	Particulate	Liquid	6.70E-02		60	NO
MEFPLEnergyWy man	Unit #5	Particulate	Liquid	6.97E-02		61	NO
VASmurfitStone Westpt	PB08	Particulate	Liquid	7.21E-02		62	NO
MEPioneerPlastic s	Boiler #6	Particulate	Liquid	7.33E-02		63	NO
MEVersoPaperA ndroscoggin	Power Boiler No. 1	Particulate	Liquid	7.97E-02		64	NO
MEVersoPaperA ndroscoggin	Power Boiler No. 2	Particulate	Liquid	7.97E-02		65	NO
MNStPaulParkRe f	EU 003	Particulate	Liquid	8.00E-02		66	NO
MNStPaulParkRe f	EU 016	Particulate	Liquid	8.00E-02		67	NO
OHGEAviationEv endale	EA-019-D	Particulate	Liquid	8.00E-02		68	NO
OHGEAviationEv endale	EA-019-C	Particulate	Liquid	9.67E-02		69	NO
MNStPaulParkRe f	EU 009	Particulate	Liquid	1.10E-01		70	NO
CTElectric Boat	EMU 17	Particulate	Liquid	1.27E-01		71	NO
MDUofMaryland	EU 001-2	Particulate	Liquid	1.29E-01		72	NO
OHGEAviationEv endale	EA-019-B	Particulate	Liquid	1.33E-01		73	NO
NCWeyerhaeuse r-Vanceboro	ES 150-001	Particulate	Liquid	1.41E-01		74	NO
WYSinclairWyom ing	Pt 40 #8 HPB	Particulate	Liquid	1.55E-01		75	NO
WYSinclairWyom ing	Pt 41 #9 HPB	Particulate	Liquid	1.69E-01		76	NO
NCKapStone	PKG2	Particulate	Liquid	1.70E-01		77	NO
SCBewaterCoate dPaper	Power Boiler	Particulate	Liquid	1.83E-01		78	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 3-PM Floor

FacilityID	CombustorID_common	Pollutant_Name	MACT Floor FuelCat	lb/mmBtu	Metal Furnace?	Rank	Test Data in Top 12pct
MEPioneerPlastics	Boiler #4	Particulate	Liquid	2.00E-01		79	NO
NCInvistaHwy421	B7600	Particulate	Liquid	2.27E-01		80	NO
VANewportNews ShipbuildingDryDock	78-E1	Particulate	Liquid	4.50E-01		81	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	CO	5.03E-01	Gas 1	yes	1	YES
MDSeverstalSparrows	CRM Batch Annealing Furnaces	CO	1.35E+00	Gas 1	yes	2	YES
UTWestinghouse	202	CO	1.39E+01	Gas 1	yes	3	NO
NYArcelorMittal	Hot Dip Galvanizing Despatch Furnace	CO	2.42E+01	Gas 1	yes	4	NO
INAlcoaWarrick	Annealing Furnace #15	CO	2.80E+01	Gas 1	yes	5	NO
INAlcoaWarrick	Pre-Heat Furnace #36	CO	2.80E+01	Gas 1	yes	6	NO
IAAlcoaDavenport	PFRN04	CO	4.69E+01	Gas 1	yes	7	NO
MDSeverstalSparrows	Box Annealing Furnaces	CO	7.17E+01	Gas 1	yes	8	NO
INOutokumpuStainlessPlate	Heppenstall Annealing Furnace	CO	8.74E+01	Gas 1	yes	9	NO
IAAlcoaDavenport	PFRN03	CO	1.09E+02	Gas 1	yes	10	NO
ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	CO	1.44E+02	Gas 1	yes	11	NO
INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	CO	1.46E+02	Gas 1	yes	12	NO
WICharterSteel	P31	CO	3.05E+02	Gas 1	yes	13	NO
WVAIcanRavenswood	Salem 12-Zone Heat Treat (008P102)	CO	1.25E+03	Gas 1	yes	14	NO
OKVRCOklahoma	H-101	CO	9.36E-03	Gas 1		1	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
OKVRCOklahoma	H-102A	CO	1.01E-02	Gas 1		2	YES
TXRohmHaasDeerPark	ACET-2B-4	CO	1.33E-02	Gas 1		3	YES
OKConocoPhillipsPoncaCity	H-9902	CO	2.00E-02	Gas 1		4	YES
TXDiamondShamrockThreeRivers	H-201	CO	2.71E-02	Gas 1		5	YES
TXDiamondShamrockThreeRivers	H-203	CO	2.71E-02	Gas 1		6	YES
TXDiamondShamrockThreeRivers	H-204	CO	2.71E-02	Gas 1		7	YES
VAWesternRefiningYorktown	F-562	CO	3.94E-02	Gas 1		8	YES
OKConocoPhillipsPoncaCity	H-9851	CO	4.00E-02	Gas 1		9	YES
INBPWhitingRefinery	B-601	CO	4.33E-02	Gas 1		10	YES
OKConocoPhillipsPoncaCity	H-0016	CO	4.33E-02	Gas 1		11	YES
TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	5.02E-02	Gas 1		12	YES
TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	5.02E-02	Gas 1		13	YES
TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	5.02E-02	Gas 1		14	YES
TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	5.02E-02	Gas 1		15	YES
MSChevronPascagoula	F-2103	CO	5.41E-02	Gas 1		16	YES
TXDiamondShamrockThreeRivers	H-1102	CO	6.32E-02	Gas 1		17	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
NJSunocoWestville	Boiler #8	CO	6.58E-02	Gas 1		18	YES
KYCatlettsburgRefining	2-23-B-4	CO	7.75E-02	Gas 1		19	YES
ILWoodRiverRefinery	HTR-DU1-F302	CO	7.88E-02	Gas 1		20	YES
PASunocoMarcusHook	705 (12-4 LSG Heater, H01)	CO	8.00E-02	Gas 1		21	YES
OKVRCOklahoma	H-201	CO	8.65E-02	Gas 1		22	YES
LACitgoLakeCharles	EQT242	CO	8.95E-02	Gas 1		23	YES
INNucorSteel	Cold Mill Annealing	CO	9.01E-02	Gas 1		24	YES
MSChevronPascagoula	F-6701	CO	9.35E-02	Gas 1		25	YES
KYCatlettsburgRefining	2-122-B-1	CO	9.92E-02	Gas 1		26	YES
ALHuntRefining	HS-2041A	CO	1.00E-01	Gas 1		27	YES
ALHuntRefining	HS-2041B	CO	1.00E-01	Gas 1		28	YES
ALHuntRefining	HS-2041C	CO	1.00E-01	Gas 1		29	YES
OKConocoPhillipsPoncaCity	H-0003	CO	1.00E-01	Gas 1		30	YES
TXAirProductsBaytown	BOILER (EPN 7)	CO	1.00E-01	Gas 1		31	YES
TXChevronBaytown	H-1001	CO	1.00E-01	Gas 1		32	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXEquistarPasadena	Boiler (P-25)	CO	1.00E-01	Gas 1		33	YES
TXValeroTexasCity	Heater 13-1451	CO	1.00E-01	Gas 1		34	YES
TXValeroTexasCity	Heater 16	CO	1.00E-01	Gas 1		35	YES
TXValeroTexasCity	Heater 17	CO	1.00E-01	Gas 1		36	YES
TXValeroTexasCity	Heater 28	CO	1.00E-01	Gas 1		37	YES
TXValeroTexasCity	Heater 35	CO	1.00E-01	Gas 1		38	YES
TXValeroTexasCity	Heater 44	CO	1.00E-01	Gas 1		39	YES
LAWestlakeStyrone	1-90	CO	1.01E-01	Gas 1		40	YES
OREvrazOregon Steel	EU-5 Vacuum Degasser Boiler	CO	1.02E-01	Gas 1		41	YES
LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	1.02E-01	Gas 1		42	YES
TXValeroTexasCity	Heater 45	CO	1.08E-01	Gas 1		43	YES
MSChevronPasagoula	F-8400	CO	1.10E-01	Gas 1		44	YES
TXValeroTexasCity	Heater 46	CO	1.10E-01	Gas 1		45	YES
KYCatlettsburgRefining	2-30-B-1	CO	1.16E-01	Gas 1		46	YES
LAShellChemicalGeismar	Furnace F-S2801	CO	1.18E-01	Gas 1		47	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
KYCatlettsburgR efining	2-23-B-3	CO	1.18E-01	Gas 1		48	YES
TXRohmHaasDe erPark	N-13	CO	1.20E-01	Gas 1		49	YES
TXWesternRefini ng	F-4150	CO	1.22E-01	Gas 1		50	YES
TXWesternRefini ng	F-4160	CO	1.22E-01	Gas 1		51	YES
TXValeroTexasC ity	Heater 57	CO	1.27E-01	Gas 1		52	YES
MSChevronPasc agoula	F-2440	CO	1.28E-01	Gas 1		53	YES
MSChevronPasc agoula	F-2450	CO	1.28E-01	Gas 1		54	YES
MSChevronPasc agoula	F-2460	CO	1.28E-01	Gas 1		55	YES
MSChevronPasc agoula	F-2470	CO	1.28E-01	Gas 1		56	YES
MSChevronPasc agoula	F-2480	CO	1.28E-01	Gas 1		57	YES
MSChevronPasc agoula	F-2490	CO	1.28E-01	Gas 1		58	YES
WAConocoPhilli psFerndale	38F-101	CO	1.29E-01	Gas 1		59	YES
TXValeroTexasC ity	Heater 58	CO	1.29E-01	Gas 1		60	YES
TXRohmHaasDe erPark	ACET-2B-1	CO	1.30E-01	Gas 1		61	YES
TXValeroTexasC ity	Heater 18	CO	1.33E-01	Gas 1		62	YES
TXValeroTexasC ity	Heater 19	CO	1.33E-01	Gas 1		63	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXValeroTexasC ity	Heater 20	CO	1.33E-01	Gas 1		64	YES
TXValeroTexasC ity	Heater 21	CO	1.33E-01	Gas 1		65	YES
TXValeroTexasC ity	Heater 22	CO	1.33E-01	Gas 1		66	YES
TXValeroTexasC ity	Heater 23	CO	1.33E-01	Gas 1		67	YES
TXWesternRefini ng	H-8801	CO	1.33E-01	Gas 1		68	YES
TXWesternRefini ng	H-8802	CO	1.33E-01	Gas 1		69	YES
IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	CO	1.35E-01	Gas 1		70	YES
TXDeerParkRefi nery	H31003	CO	1.35E-01	Gas 1		71	YES
TXDeerParkRefi nery	H5104	CO	1.35E-01	Gas 1		72	YES
TXLyondellPasa dena	B-1751	CO	1.35E-01	Gas 1		73	YES
TXLyondellPasa dena	B-2890	CO	1.35E-01	Gas 1		74	YES
TXLyondellPasa dena	B-801	CO	1.35E-01	Gas 1		75	YES
TXWesternRefini ng	F-1602	CO	1.35E-01	Gas 1		76	YES
TXRohmHaasDe erPark	HT-49	CO	1.40E-01	Gas 1		77	YES
TXRohmHaasDe erPark	N-12	CO	1.40E-01	Gas 1		78	YES
LAShellChemica Geismar	Furnace F-S801	CO	1.40E-01	Gas 1		79	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
DEDuPontEdge moor	RX-9	CO	1.40E-01	Gas 1		80	YES
PANorfolkSouth ern	Boiler 1	CO	1.50E-01	Gas 1		81	YES
TXWesternRefini ng	109	CO	1.57E-01	Gas 1		82	YES
TXRohmHaasDe erPark	ACET-2A-1	CO	1.67E-01	Gas 1		83	YES
TXValeroCorpus Christi	154-H-1	CO	1.67E-01	Gas 1		84	YES
MSChevronPasc agoula	F-6410	CO	1.68E-01	Gas 1		85	YES
KYCatlettsburgR efining	2-36-B-1	CO	1.69E-01	Gas 1		86	YES
OKConocoPhillip sPoncaCity	H-0048	CO	1.70E-01	Gas 1		87	YES
MTMontanaRefi ning	H-1801 Hydrogen Plant Heater	CO	1.71E-01	Gas 1		88	YES
TXRohmHaasDe erPark	ACET-2A-3	CO	1.77E-01	Gas 1		89	YES
MSChevronPasc agoula	F-8300B	CO	1.84E-01	Gas 1		90	YES
VAUniversityofVi rginia	7103-1-01R	CO	1.95E-01	Gas 1		91	YES
WAUSOilandRef iningTacoma	H-3	CO	2.00E-01	Gas 1		92	NO
TXEquistarChan nelview	F4360	CO	2.03E-01	Gas 1		93	NO
TXValeroCorpus Christi	169-B-5	CO	2.07E-01	Gas 1		94	NO
ORGeorgiaPacifi cWaunaMill	EU33 - Power Boiler	CO	2.09E-01	Gas 1		95	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
OKTerraInternati onalWoodward	Primary Reformer H- 2030	CO	2.19E-01	Gas 1		96	NO
LACitgoLakeCha rles	EQT032	CO	2.23E-01	Gas 1		97	NO
TXWesternRefini ng	F-4170	CO	2.26E-01	Gas 1		98	NO
TXWesternRefini ng	F-4180	CO	2.26E-01	Gas 1		99	NO
TXRohmHaasDe erPark	ACET-2B-5	CO	2.30E-01	Gas 1		100	NO
TXDeerParkRefi nery	H5301	CO	2.40E-01	Gas 1		101	NO
TXDeerParkRefi nery	H5302	CO	2.40E-01	Gas 1		102	NO
TXDeerParkRefi nery	H5303	CO	2.40E-01	Gas 1		103	NO
TXDeerParkRefi nery	H5304	CO	2.40E-01	Gas 1		104	NO
TXDeerParkRefi nery	H5305	CO	2.40E-01	Gas 1		105	NO
TXDeerParkRefi nery	H5350	CO	2.40E-01	Gas 1		106	NO
OKConocoPhillip sPoncaCity	H-8602	CO	2.43E-01	Gas 1		107	NO
TXRohmHaasDe erPark	ACET-2A-4	CO	2.60E-01	Gas 1		108	NO
NJSunocoWestv ille	Boiler #5	CO	2.62E-01	Gas 1		109	NO
PASunocoPhilad elphia	CU-138	CO	2.64E-01	Gas 1		110	NO
TXDiamondSha mrockMcKee	B-3 (Boiler #10)	CO	2.64E-01	Gas 1		111	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
MSChevronPasc agoula	F-6250	CO	2.66E-01	Gas 1		112	NO
MAUMass	EU#7	CO	2.71E-01	Gas 1		113	NO
ORCascadePaci ficPulp	PB2EU	CO	2.71E-01	Gas 1		114	NO
KYCatlettsburgR efining	2-103-B-3	CO	2.71E-01	Gas 1		115	NO
WVQuadGraphis Martinsburg	B-03	CO	2.71E-01	Gas 1		116	NO
TXWesternRefini ng	B-1	CO	2.72E-01	Gas 1		117	NO
TXWesternRefini ng	B-3	CO	2.84E-01	Gas 1		118	NO
LAWestlakeStyr ene	2-90	CO	2.88E-01	Gas 1		119	NO
TXL- 3Communication sIntergrated	A0769	CO	3.00E-01	Gas 1		120	NO
KYCatlettsburgR efining	2-103-B-2	CO	3.02E-01	Gas 1		121	NO
LAShellChemica Geismar	Boiler F-U202	CO	3.10E-01	Gas 1		122	NO
TXEquistarChem icals	QE5802UB	CO	3.40E-01	Gas 1		123	NO
TXRohmHaasDe erPark	ACET-2B-3	CO	3.47E-01	Gas 1		124	NO
TXDiamondSha mrockMcKee	H-9 (#2 Crude Charge - Petrochem)	CO	3.47E-01	Gas 1		125	NO
WYSinclairCasp er	Pt. 26 #2 Reformer Heater	CO	3.50E-01	Gas 1		126	NO
MSChevronPasc agoula	F-8130	CO	3.64E-01	Gas 1		127	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXValeroTexasC ity	Heater 13-1421	CO	3.67E-01	Gas 1		128	NO
TXWesternRefini ng	F-3902	CO	3.73E-01	Gas 1		129	NO
MTCHSLaurel14 01	H-902	CO	3.77E-01	Gas 1		130	NO
TXValeroCorpus Christi	148-H-1	CO	4.00E-01	Gas 1		131	NO
TXValeroCorpus Christi	148-H-2	CO	4.00E-01	Gas 1		132	NO
ILRentech	S-7	CO	4.06E-01	Gas 1		133	NO
TXDiamondSha mrockMcKee	H-36 (#2 NAP Hydrotreater Charge)	CO	4.29E-01	Gas 1		134	NO
NJSunocoWestv ille	Boiler #7	CO	4.38E-01	Gas 1		135	NO
MSChevronPasc agoula	F-6531	CO	4.46E-01	Gas 1		136	NO
LAAmericasStyr enics	HS-1102	CO	4.57E-01	Gas 1		137	NO
FLSolutiaIncPen sacola	B-7	CO	4.73E-01	Gas 1		138	NO
TNValeroMemph is	P044-DHT 18 Stripper Reboiler Heater	CO	4.74E-01	Gas 1		139	NO
OKConocoPhillip sPoncaCity	H-9901	CO	4.90E-01	Gas 1		140	NO
OHUSEnrichme ntCorpPiketon	X-6002 Boiler No. 1 (North)	CO	4.96E-01	Gas 1		141	NO
OKQuadGraphic sOKCity	SG03	CO	4.96E-01	Gas 1		142	NO
CATesoro	S-922 Furnace 22	CO	5.00E-01	Gas 1		143	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXInvistaVictoria	16STK001	CO	5.15E-01	Gas 1		144	NO
TXWesternRefini ng	F-1010	CO	5.19E-01	Gas 1		145	NO
TXRohmHaasDe erPark	N-14	CO	5.23E-01	Gas 1		146	NO
TXValeroTexasC ity	Heater 13-1401	CO	5.33E-01	Gas 1		147	NO
OKSinclairTulsa Refining	NHDS Charge Heater	CO	5.41E-01	Gas 1		148	NO
LACalumet	VII-L Hydrogen plant heater 2006 R-101-A	CO	5.41E-01	Gas 1		149	NO
NJMerckRahway	E750009 - Boiler #9	CO	5.41E-01	Gas 1		150	NO
TXOccidentalCh emGregory	VCM Plant 2 Furnace 1	CO	5.50E-01	Gas 1		151	NO
TXOccidentalCh emGregory	VCM Plant 2 Furnace 2	CO	5.50E-01	Gas 1		152	NO
CATesoro	S-974 Furance 55	CO	5.56E-01	Gas 1		153	NO
MSChevronPasc agoula	F-2410	CO	5.56E-01	Gas 1		154	NO
TXValeroCorpus Christi	116-H-125B	CO	5.67E-01	Gas 1		155	NO
TXValeroCorpus Christi	116-H-125C	CO	5.67E-01	Gas 1		156	NO
TXValeroCorpus Christi	116-H-125A	CO	5.67E-01	Gas 1		157	NO
KYCatlettsburgR efining	2-104-B-1	CO	5.83E-01	Gas 1		158	NO
MSChevronPasc agoula	F-2930	CO	5.86E-01	Gas 1		159	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
ILJohnDeereHar vester	B10	CO	5.86E-01	Gas 1		160	NO
CATesoro	S-908 Furnace 8 / S-1470 Furnace 71	CO	6.00E-01	Gas 1		161	NO
CATesoro	S-937 Furnace 37	CO	6.00E-01	Gas 1		162	NO
KSSpiritAero	3-224R-BLR4	CO	6.00E-01	Gas 1		163	NO
MTCHSLaurel14 01	NHT Charge Heater	CO	6.00E-01	Gas 1		164	NO
PADominionHarr ison	Heater 1	CO	6.00E-01	Gas 1		165	NO
NCCampLejeune MCB	C-AS-4151-16	CO	6.01E-01	Gas 1		166	NO
ILWoodRiverRefi nery	HTR-ULD-H4	CO	6.17E-01	Gas 1		167	NO
MABostonGener atingMysticStatio n	EU-17	CO	6.63E-01	Gas 1		168	NO
TXValeroTexasC ity	Heater 50	CO	6.67E-01	Gas 1		169	NO
TXValeroCorpus Christi	139-H-7	CO	6.95E-01	Gas 1		170	NO
PASunocoPhilad elphia	CU-137	CO	6.95E-01	Gas 1		171	NO
CATesoro	S-927 Furnace 27	CO	7.00E-01	Gas 1		172	NO
CAMillerCoorslr windale	D2 Keeler	CO	7.00E-01	Gas 1		173	NO
WYShuteCreek2 926	1H-9201	CO	7.22E-01	Gas 1		174	NO
MSGAGulfAberd een	Boiler 4	CO	7.33E-01	Gas 1		175	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
WVMountainStateCarbonFollansbee	S1	CO	7.33E-01	Gas 1		176	NO
MSChevronPascagoula	F-6102	CO	7.62E-01	Gas 1		177	NO
MSChevronPascagoula	F-6101	CO	7.62E-01	Gas 1		178	NO
WATransAltaCentralia	EU 12 BHP Auxiliary Boiler	CO	7.63E-01	Gas 1		179	NO
TNValeroMemphis	P003 - West Crude Unit Heater	CO	7.67E-01	Gas 1		180	NO
TXOxyVinylsPasadena	F6 Boiler	CO	7.67E-01	Gas 1		181	NO
KSCoffeyvilleRefinery	IA-06-FH0035	CO	7.67E-01	Gas 1		182	NO
OKConocoPhillipsPoncaCity	H-1001	CO	7.90E-01	Gas 1		183	NO
MSChevronPascagoula	F-6550	CO	8.20E-01	Gas 1		184	NO
MSChevronPascagoula	F-6560	CO	8.20E-01	Gas 1		185	NO
MSChevronPascagoula	F-6570	CO	8.20E-01	Gas 1		186	NO
MSChevronPascagoula	F-6580	CO	8.20E-01	Gas 1		187	NO
UTHollyRefining	19H1	CO	8.53E-01	Gas 1		188	NO
MSChevronPascagoula	F-1101	CO	8.85E-01	Gas 1		189	NO
MSChevronPascagoula	F-1102	CO	8.85E-01	Gas 1		190	NO
KYCatlettsburgRefining	2-103-B-1	CO	9.01E-01	Gas 1		191	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXDiamondSha mrockThreeRive rs	H-28002	CO	9.02E-01	Gas 1		192	NO
WYSinclairWyo ming	Pt 60 #4HDS Heater HT-101	CO	9.02E-01	Gas 1		193	NO
NJMerckRahway	E750005 - Boiler #5	CO	9.02E-01	Gas 1		194	NO
ILMarathon	16F-3A	CO	9.47E-01	Gas 1		195	NO
ILMarathon	16F-3B	CO	9.47E-01	Gas 1		196	NO
ILMarathon	16F-3C	CO	9.47E-01	Gas 1		197	NO
ILMarathon	16F-3D	CO	9.47E-01	Gas 1		198	NO
WVWeyerhaeus erBuckhannon	001-02	CO	9.67E-01	Gas 1		199	NO
CAAerojet	Small Boilers	CO	1.00E+00	Gas 1		200	NO
CATesoro	S-909 Furnace 9	CO	1.00E+00	Gas 1		201	NO
CATesoro	S-912 Furnace 12	CO	1.00E+00	Gas 1		202	NO
CATesoro	S-913 Furnace 13	CO	1.00E+00	Gas 1		203	NO
CATesoro	S-916 Furnace 16	CO	1.00E+00	Gas 1		204	NO
CATesoro	S-928 Furnace 28	CO	1.00E+00	Gas 1		205	NO
CATesoro	S-929 Furnace 29	CO	1.00E+00	Gas 1		206	NO
CATesoro	S-930 Furnace 30	CO	1.00E+00	Gas 1		207	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
CATesoro	S-932 Furnace 32	CO	1.00E+00	Gas 1		208	NO
CATesoro	S-933 Furnace 33	CO	1.00E+00	Gas 1		209	NO
CATesoro	S-934 Furnace 34	CO	1.00E+00	Gas 1		210	NO
TXLyondellChan nelview	F66850	CO	1.00E+00	Gas 1		211	NO
TXLyondellChan nelview	F67830	CO	1.00E+00	Gas 1		212	NO
KYCatlettsburgR efining	2-26-B-2	CO	1.01E+00	Gas 1		213	NO
DEDuPontEdge moor	OX-5	CO	1.03E+00	Gas 1		214	NO
MTCHSLaurel14 01	H-201 Reactor Charge Heater	CO	1.03E+00	Gas 1		215	NO
ILMarathon	69F-1A	CO	1.04E+00	Gas 1		216	NO
TXValeroCorpus Christi	108-H-3	CO	1.04E+00	Gas 1		217	NO
MNBoisePaper1 212	EU 440 Boiler #3	CO	1.05E+00	Gas 1		218	NO
ILMarathon	74F-1	CO	1.07E+00	Gas 1		219	NO
TXDiamondSha mrockMcKee	H-48 (Diesel HDS Charge)	CO	1.08E+00	Gas 1		220	NO
TXValeroCorpus Christi	108-H-5	CO	1.08E+00	Gas 1		221	NO
WABoeingRento n	BOIL04	CO	1.08E+00	Gas 1		222	NO
ALBoiseWhitePa perJackson	102-0001-X020	CO	1.08E+00	Gas 1		223	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
CATesoro	S-950 Furnace 50	CO	1.10E+00	Gas 1		224	NO
PADominionSabi nsville	Kewanee Boiler	CO	1.10E+00	Gas 1		225	NO
TXDeerParkRefi nery	H5404	CO	1.14E+00	Gas 1		226	NO
TXValeroCorpus Christi	112-H-1	CO	1.15E+00	Gas 1		227	NO
CATesoro	S-971 Furnace 53	CO	1.17E+00	Gas 1		228	NO
COSEIncComm erceCity	H-1716	CO	1.19E+00	Gas 1		229	NO
OHLimaRefining Company	B028	CO	1.20E+00	Gas 1		230	NO
OKVRCOklahom a	H-6701	CO	1.21E+00	Gas 1		231	NO
TXDeerParkRefi nery	H613	CO	1.22E+00	Gas 1		232	NO
TXDiamondSha mrockMcKee	H-64 (#4 Hydrotreater Charge)	CO	1.22E+00	Gas 1		233	NO
ILCognisCorp	Boiler #1	CO	1.23E+00	Gas 1		234	NO
MSChevronPasc agoula	F-5337A	CO	1.24E+00	Gas 1		235	NO
KYCatlettsburgR efining	2-23-B-6	CO	1.24E+00	Gas 1		236	NO
NJConocoPhillip sBayway	F-500	CO	1.25E+00	Gas 1		237	NO
MTMontanaRefi ning	H-1701 HTU Heater	CO	1.27E+00	Gas 1		238	NO
MSGeorgiaPacifi cMonticello	AA-404 (UT-4) Power Boiler	CO	1.27E+00	Gas 1		239	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
MNVersoPaper	EU015 Wickes	CO	1.29E+00	Gas 1		240	NO
MTCHSLaurel1401	H-101 Reformer Heater	CO	1.29E+00	Gas 1		241	NO
TXL-3Communication Intergrated	E2011	CO	1.30E+00	Gas 1		242	NO
KYCatlettsburgRefining	1-2-B-3	CO	1.30E+00	Gas 1		243	NO
FLSolutiaIncPensacola	H2 Plant	CO	1.35E+00	Gas 1		244	NO
IAADMClinton	EUCOG-4 #1 Gas Fired Boiler	CO	1.35E+00	Gas 1		245	NO
LAValeroRefining	F-15-05	CO	1.35E+00	Gas 1		246	NO
LAValeroRefining	F-53-1A	CO	1.35E+00	Gas 1		247	NO
LAValeroRefining	F-53-1B	CO	1.35E+00	Gas 1		248	NO
LAValeroRefining	F-53-1C	CO	1.35E+00	Gas 1		249	NO
LAValeroRefining	F-53-1D	CO	1.35E+00	Gas 1		250	NO
LAValeroRefining	F-72-703	CO	1.35E+00	Gas 1		251	NO
LAValeroRefining	GDU Heater	CO	1.35E+00	Gas 1		252	NO
LAValeroRefining	H-60-1	CO	1.35E+00	Gas 1		253	NO
LAValeroRefining	H-60-2	CO	1.35E+00	Gas 1		254	NO
LAValeroRefining	H-60-3	CO	1.35E+00	Gas 1		255	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
LAValeroRefining	H-60-4	CO	1.35E+00	Gas 1		256	NO
LAValeroRefining	KHT Heater F-3305	CO	1.35E+00	Gas 1		257	NO
LAValeroRefining	NHT Reactor Feed Heater H-39-01	CO	1.35E+00	Gas 1		258	NO
LAValeroRefining	NHT Stripper Feed Heater H-39-02	CO	1.35E+00	Gas 1		259	NO
LAValeroRefining	NHT Stripper Reboiler H-39-03	CO	1.35E+00	Gas 1		260	NO
LAValeroRefining	SMR1 Heater No. 1	CO	1.35E+00	Gas 1		261	NO
LAValeroRefining	SMR1 Heater No. 2	CO	1.35E+00	Gas 1		262	NO
OKTerraNitrogen	#2 Primary Reformer	CO	1.35E+00	Gas 1		263	NO
TXBASFFreepor t	Dehydro Heaters-2	CO	1.35E+00	Gas 1		264	NO
TXBASFFreepor t	Vaporizers	CO	1.35E+00	Gas 1		265	NO
TXBASFFreepor t	W-900A	CO	1.35E+00	Gas 1		266	NO
TXLubrizolBayport	BOIL-2	CO	1.35E+00	Gas 1		267	NO
TXSolutiaInc	51H5	CO	1.35E+00	Gas 1		268	NO
TXTotalPetrochemPortArthur	51DHT1H-3	CO	1.35E+00	Gas 1		269	NO
TXTotalPetrochemPortArthur	52DHT2H-1	CO	1.35E+00	Gas 1		270	NO
WAGraysHarbor Paper	No. 9 Boiler (EU3)	CO	1.35E+00	Gas 1		271	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
WYSinclairWyo ming	Pt 10 781 Naphtha Splitter Heater	CO	1.35E+00	Gas 1		272	NO
DEPremcorGrou pValero	21-H-701	CO	1.35E+00	Gas 1		273	NO
VAUniversityofVi rginia	7103-1-04R	CO	1.37E+00	Gas 1		274	NO
NJHessCorp- PortReading	U19 - H2 Heater	CO	1.40E+00	Gas 1		275	NO
CATesoro	S-904 No. 6 Boiler	CO	1.40E+00	Gas 1		276	NO
OHLimaRefining Company	B004	CO	1.40E+00	Gas 1		277	NO
NYFarRockaway PowerStation	U-HB002	CO	1.42E+00	Gas 1		278	NO
IAMidAmericanE nergyBettendorf 390	H1	CO	1.42E+00	Gas 1		279	NO
LALakeCharlesC hemical	LAB-LH-3 (Hot Oil Heater)	CO	1.43E+00	Gas 1		280	NO
TXDowChemical Freeport2629	B27P3S511	CO	1.43E+00	Gas 1		281	NO
ILMarathon	74F-2	CO	1.44E+00	Gas 1		282	NO
MSChevronPasc agoula	F-8620	CO	1.44E+00	Gas 1		283	NO
TXDowChemical LaPorte	B2105	CO	1.47E+00	Gas 1		284	NO
NJMerckRahway	E750003 - Boiler #3	CO	1.49E+00	Gas 1		285	NO
OHFordCleveland dCasting	Boiler No. 4 (BO23)	CO	1.49E+00	Gas 1		286	NO
CATesoro	S-972 Furnace 54	CO	1.50E+00	Gas 1		287	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXRohmHaasDe erPark	ACET-2A-5	CO	1.53E+00	Gas 1		288	NO
WATesoroAnaco rtes	F-104	CO	1.53E+00	Gas 1		289	NO
TXOxyVinylsPas adena	F7 Boiler	CO	1.56E+00	Gas 1		290	NO
TNValeroMemph is	P043 - DHT 18 Reactor Feed Heater	CO	1.58E+00	Gas 1		291	NO
WVMountainStat eCarbonFollansb ee	S5	CO	1.58E+00	Gas 1		292	NO
MTCHSLaurel14 01	H-901	CO	1.59E+00	Gas 1		293	NO
TXDowChemical Freeport2629	B56P9FB1	CO	1.60E+00	Gas 1		294	NO
TXDowChemical Freeport2629	B56P9FB2	CO	1.60E+00	Gas 1		295	NO
TXDowChemical Freeport2629	B56P9FB3	CO	1.60E+00	Gas 1		296	NO
TXDowChemical Freeport2629	B56P9FB4	CO	1.60E+00	Gas 1		297	NO
TXValeroTexasC ity	Boiler 27	CO	1.60E+00	Gas 1		298	NO
OHDukeEnergy GenerationCinci nnati	B045 (PB2)	CO	1.62E+00	Gas 1		299	NO
NJMerckRahway	E750011 - Boiler #11	CO	1.62E+00	Gas 1		300	NO
OKSinclairTulsa Refining	Pt. 19 Scanfiner Charge Heater	CO	1.62E+00	Gas 1		301	NO
MTExxonMobilBi llings	F-1201	CO	1.63E+00	Gas 1		302	NO
TXRohmHaasDe erPark	N-3	CO	1.65E+00	Gas 1		303	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXDeerParkRefinery	H31001	CO	1.65E+00	Gas 1		304	NO
TXDeerParkRefinery	H31002	CO	1.65E+00	Gas 1		305	NO
OHLimaRefining Company	B029	CO	1.67E+00	Gas 1		306	NO
WIMurphyOilRefinery	GGU 29-H01	CO	1.67E+00	Gas 1		307	NO
TXDowChemical Freeport2629	A36MDH621	CO	1.70E+00	Gas 1		308	NO
VAAUniversityofVirginia	7103-1-03R	CO	1.70E+00	Gas 1		309	NO
MNMinnesotaSoybeanProcessors	Boiler 1 EU026	CO	1.73E+00	Gas 1		310	NO
MNMinnesotaSoybeanProcessors	Boiler 2 EU027	CO	1.73E+00	Gas 1		311	NO
VADuPontSpruance	Dowtherm Vaporizer No. 3	CO	1.80E+00	Gas 1		312	NO
CAConocoPhillipsSanFran	S# 336	CO	1.80E+00	Gas 1		313	NO
ILMarathon	3F-1	CO	1.80E+00	Gas 1		314	NO
ILMarathon	3F-2	CO	1.80E+00	Gas 1		315	NO
TXDiamondShamrockMcKee	H-46 (#1 Reformer #1 Interheater)	CO	1.80E+00	Gas 1		316	NO
MOMcDonnellDouglasStLouis	63-3	CO	1.82E+00	Gas 1		317	NO
TNValeroMemphis	P021 - No. 10 Boiler	CO	1.85E+00	Gas 1		318	NO
MDUofMaryland	EU 001-8	CO	1.90E+00	Gas 1		319	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
LACalumet	VII-g DHT 92-H- 101 reboiler heater	CO	1.90E+00	Gas 1		320	NO
COSEIncComm erceCity	H-1717	CO	1.95E+00	Gas 1		321	NO
CAConocoPhillip sSanFran	S# 5	CO	1.97E+00	Gas 1		322	NO
CAConocoPhillip sSanFran	S# 4	CO	1.99E+00	Gas 1		323	NO
CAConocoPhillip sSanFran	S# 11	CO	2.00E+00	Gas 1		324	NO
TXValeroTexasC ity	Heater 34	CO	2.00E+00	Gas 1		325	NO
CAConocoPhillip sSanFran	S# 337	CO	2.05E+00	Gas 1		326	NO
LACitgoLakeCha rles	EQT237	CO	2.05E+00	Gas 1		327	NO
OKONEOKMedf ord	H-4	CO	2.11E+00	Gas 1		328	NO
OKVRCOklahom a	H-404	CO	2.15E+00	Gas 1		329	NO
OKVRCOklahom a	H-405	CO	2.15E+00	Gas 1		330	NO
CAConocoPhillip sSanFran	S# 12	CO	2.17E+00	Gas 1		331	NO
TXBPAmocoTex asCity	MX2-H101	CO	2.17E+00	Gas 1		332	NO
CAConocoPhillip sSanFran	S# 29	CO	2.18E+00	Gas 1		333	NO
TXInternationalP aperQueenCity	PB01	CO	2.20E+00	Gas 1		334	NO
KSCoffeyvilleRef inery	IA-05-FH0036	CO	2.21E+00	Gas 1		335	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
LAPPGLakeCharles	Power/Utilities- Powerhouse C- Cogeneration Unit #2	CO	2.22E+00	Gas 1		336	NO
OKONEOKMedford	H-3	CO	2.25E+00	Gas 1		337	NO
MNStPaulParkRef	EU 087	CO	2.27E+00	Gas 1		338	NO
CAConocoPhillipsSanFran	S# 9	CO	2.27E+00	Gas 1		339	NO
TXTexasPetrochemicals	Boiler No. 9	CO	2.28E+00	Gas 1		340	NO
MSChevronPascagoula	F-5337B	CO	2.30E+00	Gas 1		341	NO
NEAgProcessingSOY	EP 137	CO	2.37E+00	Gas 1		342	NO
LACitgoLakeCharles	EQT238	CO	2.37E+00	Gas 1		343	NO
CAConocoPhillipsSanFran	S# 3	CO	2.38E+00	Gas 1		344	NO
MDUofMaryland	EU 001-2	CO	2.40E+00	Gas 1		345	NO
CATesoro	S-926 Furnace 26	CO	2.40E+00	Gas 1		346	NO
PADominionFinnefrock	Boiler 3 (039)	CO	2.40E+00	Gas 1		347	NO
CAConocoPhillipsSanFran	S# 7	CO	2.40E+00	Gas 1		348	NO
TNValeroMemphis	P010A - No. 1 East Crude Unit Heater	CO	2.44E+00	Gas 1		349	NO
MDUofMaryland	EU 001-4	CO	2.45E+00	Gas 1		350	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
CAConocoPhillip sSanFran	S# 36	CO	2.46E+00	Gas 1		351	NO
OKONEOKMedf ord	H-1	CO	2.47E+00	Gas 1		352	NO
TXEquistarChan nelview	F4360C	CO	2.48E+00	Gas 1		353	NO
CATesoro	S-1106 Furnace 72	CO	2.50E+00	Gas 1		354	NO
IAKochNitrogen	Reformer-Aux Boiler	CO	2.52E+00	Gas 1		355	NO
SCPPGSpartanb urg	LLR06251 (Hurst)	CO	2.57E+00	Gas 1		356	NO
ALHuntRefining	B-06	CO	2.58E+00	Gas 1		357	NO
COSEIncComm erceCity	H-33	CO	2.59E+00	Gas 1		358	NO
TXDowChemical Freeport2629	B68ALS3	CO	2.62E+00	Gas 1		359	NO
CAConocoPhillip sSanFran	S# 2	CO	2.68E+00	Gas 1		360	NO
LAValeroRefinin g	F-52-01B	CO	2.71E+00	Gas 1		361	NO
TXDiamondSha mrockMcKee	H-8 (HCU Fractionation)	CO	2.71E+00	Gas 1		362	NO
CAConocoPhillip sSanFran	S# 461	CO	2.71E+00	Gas 1		363	NO
MTCHSLaurel14 01	#11 Boiler	CO	2.71E+00	Gas 1		364	NO
MTCHSLaurel14 01	H-1001	CO	2.74E+00	Gas 1		365	NO
GAOFSFitel	HWG1	CO	2.75E+00	Gas 1		366	NO
OHSolvayAdvan cedPolymers	B011	CO	2.75E+00	Gas 1		367	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
ORBoiseBuilding	B1	CO	2.76E+00	Gas 1		368	NO
CAExxonMobil-Torrance	75F-1	CO	2.78E+00	Gas 1		369	NO
TXSolutiaInc	50H3	CO	2.80E+00	Gas 1		370	NO
WYSinclairWyo ming	Pt 74 #2 H2 Plant Heater	CO	2.81E+00	Gas 1		371	NO
TXOccidentalCh emGregory	CTG Duct Burner 2	CO	2.84E+00	Gas 1		372	NO
TXTotalPetroche mPortArthur	52DHT2H-2	CO	2.89E+00	Gas 1		373	NO
SCEastmanColo mbia	HTM Heater #3 (Equip ID 1101)	CO	2.92E+00	Gas 1		374	NO
TNValeroMemph is	P021 - No. 9 Boiler	CO	2.93E+00	Gas 1		375	NO
KYCentralMotor Wheel	Alum. Div. Boiler	CO	2.94E+00	Gas 1		376	NO
LADowChemical Vinyl	F-110	CO	2.97E+00	Gas 1		377	NO
PADominionEllis burg	Boiler 2 (Aux Boiler)	CO	3.00E+00	Gas 1		378	NO
CAConocoPhillip sSanFran	S# 30	CO	3.06E+00	Gas 1		379	NO
PASunocoMarcu sHook	040 (10-4 Feed Heater)	CO	3.09E+00	Gas 1		380	NO
MDNewPage- Luke	No. 26	CO	3.09E+00	Gas 1		381	NO
TXRohmHaasDe erPark	ACET-2B-2	CO	3.10E+00	Gas 1		382	NO
MTCHSLaurel14 01	FCC Feed Preheater	CO	3.10E+00	Gas 1		383	NO
NJMerckRahway	E750010 - Boiler #10	CO	3.11E+00	Gas 1		384	NO
TXLyondellChan nelview	F96890	CO	3.16E+00	Gas 1		385	NO
OHUSEnrichme ntCorpPiketon	X-6002 Boiler No. 2 (South)	CO	3.16E+00	Gas 1		386	NO
FLGPPalatka	EU15	CO	3.16E+00	Gas 1		387	NO
ILMarathon	87F-103	CO	3.16E+00	Gas 1		388	NO
GAOFSFitel	HWG3	CO	3.20E+00	Gas 1		389	NO
TXValeroTexasC ity	Boiler 18	CO	3.23E+00	Gas 1		390	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXOccidentalChemGregory	CTG Duct Burner 1	CO	3.25E+00	Gas 1		391	NO
TXTotalPetrochemPortArthur	50TDPH-1	CO	3.32E+00	Gas 1		392	NO
LAWestlakeVinyls	74-07 EDC Cracking Furnace	CO	3.38E+00	Gas 1		393	NO
MSChevronPascagoula	F-5380B	CO	3.51E+00	Gas 1		394	NO
IACargillIowaFalls	EP 40	CO	3.53E+00	Gas 1		395	NO
OKONEOKMedford	H-6	CO	3.54E+00	Gas 1		396	NO
TXGoodyearTyler	6-BOIL-3	CO	3.61E+00	Gas 1		397	NO
NJMerckRahway	E750012 - Boiler #12	CO	3.70E+00	Gas 1		398	NO
IAMidAmericanEnergyBettendorf 390	H2	CO	3.74E+00	Gas 1		399	NO
CAProctorGamble 158	5009	CO	3.74E+00	Gas 1		400	NO
ALHuntRefining	AX	CO	3.83E+00	Gas 1		401	NO
WVMorgantown EnergyAssociates	S009L (Aux. Boiler 1)	CO	4.00E+00	Gas 1		402	NO
LAValeroRefining	CCR Heater	CO	4.06E+00	Gas 1		403	NO
FLIPPensacola	Power Boiler 5 / EU ID 02	CO	4.06E+00	Gas 1		404	NO
AKBPExplorationCGF	NGI-19-1402 (EU ID 13)	CO	4.06E+00	Gas 1		405	NO
PADominionGreenlick	Boiler 2	CO	4.10E+00	Gas 1		406	NO
MSChevronPascagoula	F-8300A	CO	4.15E+00	Gas 1		407	NO
TXTexasPetrochemicals	Boiler No. 10	CO	4.22E+00	Gas 1		408	NO
TXValeroCorpusChristi	129-H-301	CO	4.24E+00	Gas 1		409	NO
MSChevronPascagoula	F-1601	CO	4.26E+00	Gas 1		410	NO
TXDiamondShamrockThreeRivers	H-047	CO	4.27E+00	Gas 1		411	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
LAPCSNitrogen	Primary Reformer	CO	4.42E+00	Gas 1		412	NO
TXDiamondShamrockMcKee	B-4 (Boiler #11)	CO	4.44E+00	Gas 1		413	NO
CANUMMI	S1056	CO	4.47E+00	Gas 1		414	NO
OKQuadGraphicsOKCity	SG01	CO	4.51E+00	Gas 1		415	NO
TXValeroCorpusChristi	139-H-3A	CO	4.76E+00	Gas 1		416	NO
TXTexasPetrochemicals	Boiler No. 11	CO	4.79E+00	Gas 1		417	NO
LACalumet	II-SA #1 Platformer charge heater	CO	4.80E+00	Gas 1		418	NO
IAUoflowa	EP44 Temp Boiler 2	CO	4.84E+00	Gas 1		419	NO
ORCascadePacificPulp	PB1EU	CO	4.87E+00	Gas 1		420	NO
OHHondaMAP	Boiler House Boiler 5	CO	4.96E+00	Gas 1		421	NO
TXTotalPetrochemPortArthur	51DHT1H-1	CO	4.96E+00	Gas 1		422	NO
INNucorSteel	VTD Boiler	CO	5.00E+00	Gas 1		423	NO
OKConocoPhillipsPoncaCity	H-6007	CO	5.25E+00	Gas 1		424	NO
NJDSMNutritional	Boiler 3	CO	5.32E+00	Gas 1		425	NO
DEPremcorGroupValero	29-H-4	CO	5.41E+00	Gas 1		426	NO
MAMirantCanal	Aux Boiler A	CO	5.41E+00	Gas 1		427	NO
LAShellChemicalsGeismar	Boiler F-U205	CO	5.42E+00	Gas 1		428	NO
OKConocoPhillipsPoncaCity	H-6014	CO	5.46E+00	Gas 1		429	NO
CAProctorGamble158	5006	CO	5.50E+00	Gas 1		430	NO
ILJLMChemicalsBluelsland	Boiler 1	CO	5.50E+00	Gas 1		431	NO
MSChevronPascagoula	F-8510	CO	5.51E+00	Gas 1		432	NO
PADominionFinnefrock	Boiler 2	CO	5.55E+00	Gas 1		433	NO
PABellefieldPlant	Boiler 7	CO	5.86E+00	Gas 1		434	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXValeroTexasC ity	Heater 27	CO	5.93E+00	Gas 1		435	NO
TXDowChemical Freeport2629	A32CSH301	CO	6.00E+00	Gas 1		436	NO
WIMurphyOilRefi nery	GGU 29-H02	CO	6.30E+00	Gas 1		437	NO
TXDowChemical LaPorte	B2104	CO	6.33E+00	Gas 1		438	NO
CANUMMI	S1057	CO	6.60E+00	Gas 1		439	NO
IDTASCONamp a	Riley Boiler	CO	6.60E+00	Gas 1		440	NO
OKSinclairTulsa Refining	NHDS Stripper Reboiler	CO	6.68E+00	Gas 1		441	NO
LAPPGLakeCha rles	Power/Utilities- Powerhouse C- Cogeneration Unit #1	CO	6.76E+00	Gas 1		442	NO
COCheyennePla insCompStation	H-8702	CO	6.77E+00	Gas 1		443	NO
CAProctorGamb le158	5005	CO	6.77E+00	Gas 1		444	NO
PAUnitedRefinin gWarrant	56	CO	6.87E+00	Gas 1		445	NO
WYBurlingtonRe sources	B-4301-3	CO	7.02E+00	Gas 1		446	NO
GARobinsAFB	B016	CO	7.03E+00	Gas 1		447	NO
LABoiseNewspr intDeRidder	86-02	CO	7.12E+00	Gas 1		448	NO
LADeltech	HB-513	CO	7.42E+00	Gas 1		449	NO
OKWynnewood	H48001	CO	7.43E+00	Gas 1		450	NO
TXSolutiaInc	50H1-3	CO	7.43E+00	Gas 1		451	NO
OHSolaeBellvue	B010	CO	7.47E+00	Gas 1		452	NO
WYOCiWyomin g	Boiler 3	CO	7.67E+00	Gas 1		453	NO
MTCHSLaurel14 01	H-202 Fractiontor Feed Heater	CO	7.69E+00	Gas 1		454	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXValeroTexasC ity	Heater 13-1480	CO	8.07E+00	Gas 1		455	NO
LAValeroRefinin g	401E Boiler	CO	8.12E+00	Gas 1		456	NO
TXHuntsmanPet rochemical	H-A-1	CO	8.12E+00	Gas 1		457	NO
DEPremcorGrou pValero	29-H-8	CO	8.12E+00	Gas 1		458	NO
NJPassaicValley Sewerage	U20-B2	CO	8.19E+00	Gas 1		459	NO
NCCargillFayette ville	ES-41	CO	8.21E+00	Gas 1		460	NO
PASunocoMarcu sHook	706 (12-4 LSG Stabilizer Heater, H02)	CO	8.22E+00	Gas 1		461	NO
TXDeerParkRefi nery	H5500	CO	8.30E+00	Gas 1		462	NO
WVQuadGraphis Martinsburg	B-04	CO	8.39E+00	Gas 1		463	NO
NJPassaicValley Sewerage	U20-B1	CO	8.41E+00	Gas 1		464	NO
TXDowChemical Freeport2629	B27P3S521	CO	8.43E+00	Gas 1		465	NO
UTBigWestOil	H-404	CO	8.57E+00	Gas 1		466	NO
WYRawlinsNGL	H-1	CO	8.57E+00	Gas 1		467	NO
LAValeroRefinin g	401D Boiler	CO	8.57E+00	Gas 1		468	NO
IDTASCONamp a	Babcock and Wilcox (B&W) #1	CO	8.66E+00	Gas 1		469	NO
IDTASCONamp a	Babcock and Wilcox (B&W) #2	CO	8.66E+00	Gas 1		470	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
MSChevronPasc agoula	F-8110	CO	8.66E+00	Gas 1		471	NO
OHPPGCirclevill e	B014	CO	8.68E+00	Gas 1		472	NO
PADominionHarr ison	Boiler 2	CO	8.70E+00	Gas 1		473	NO
PASunocoPhilad elphia	CU-009	CO	8.80E+00	Gas 1		474	NO
TXBASFFreepor t	B-20C	CO	9.02E+00	Gas 1		475	NO
TXValeroTexasC ity	Heater 31	CO	9.08E+00	Gas 1		476	NO
TXValeroTexasC ity	Heater 32	CO	9.08E+00	Gas 1		477	NO
NJHessCorp- PortReading	U4 - Boiler #3	CO	9.37E+00	Gas 1		478	NO
LADowChemical Vinyl	F-103	CO	9.43E+00	Gas 1		479	NO
IAADMClintonCo rn	EU54-1B Boiler No. 10	CO	9.47E+00	Gas 1		480	NO
MDSeverstalSpa rrows	3BLR	CO	9.47E+00	Gas 1		481	NO
TXSolutialnc	51H1	CO	9.63E+00	Gas 1		482	NO
GARobinsAFB	B018	CO	9.98E+00	Gas 1		483	NO
GALockheedMar tin	2580	CO	1.01E+01	Gas 1		484	NO
PADominionHarr ison	Heater 2	CO	1.02E+01	Gas 1		485	NO
TXDiamondSha mrockMcKee	H-11 (#2 Crude - Anderson)	CO	1.04E+01	Gas 1		486	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXDeerParkRefinery	H36100	CO	1.05E+01	Gas 1		487	NO
TXDiamondShamrockMcKee	H-2 (#1 Crude Vacuum)	CO	1.05E+01	Gas 1		488	NO
SCMarlboroPaper	Package Boiler	CO	1.06E+01	Gas 1		489	NO
MOAnheuserBusch	Boiler7	CO	1.07E+01	Gas 1		490	NO
LACalumet	VII-f DHT 92-H-100 heater	CO	1.08E+01	Gas 1		491	NO
NJHessCorp-PortReading	U4 - Boiler #4	CO	1.12E+01	Gas 1		492	NO
WYOCIWyoming	Boiler 4	CO	1.13E+01	Gas 1		493	NO
PAYorkJCI-Grantley	B49 Boilers	CO	1.15E+01	Gas 1		494	NO
TXValeroTexasCity	Heater 29	CO	1.15E+01	Gas 1		495	NO
IAUofIowa	EP43 Temp Boiler 1	CO	1.19E+01	Gas 1		496	NO
TXBASFFreeport	W-500H	CO	1.22E+01	Gas 1		497	NO
MTCHSLaurel1401	Coker Charge Heater	CO	1.27E+01	Gas 1		498	NO
OHMarathonRefineryCanton	B022 - HDT Heater	CO	1.27E+01	Gas 1		499	NO
ORSierraPineSpringfield	SPSPBL01	CO	1.29E+01	Gas 1		500	NO
OKONEOKMedford	H-7	CO	1.30E+01	Gas 1		501	NO
NJAPIFoils	1	CO	1.35E+01	Gas 1		502	NO
COSEIncCommerceCity	B501	CO	1.35E+01	Gas 1		503	NO
MIMarathonOilDetroit	14H8 - CCR Charge Heater	CO	1.35E+01	Gas 1		504	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
MIMarathonOilD etroit	8H1 - GOHT Charge Heater	CO	1.35E+01	Gas 1		505	NO
DEPremcorGrou pValero	29-H-5	CO	1.35E+01	Gas 1		506	NO
OKONEOKMedf ord	H-2	CO	1.43E+01	Gas 1		507	NO
ORWeyerhaeus erCoWarrentonL umberMill	4-NGB	CO	1.43E+01	Gas 1		508	NO
LAWestlakeVinyl s	03-04 Utility Boiler	CO	1.44E+01	Gas 1		509	NO
IAMidAmericanE nergyCouncil Bluffs391	Unit 4 Auxilliary Boiler	CO	1.46E+01	Gas 1		510	NO
WIFlambeauRiv erPaper	B20	CO	1.53E+01	Gas 1		511	NO
MIZeelandFarm	Large Boiler	CO	1.55E+01	Gas 1		512	NO
WAUSOilandRef iningTacoma	H-202	CO	1.58E+01	Gas 1		513	NO
TXDowChemical Freeport2629	B27P3S503	CO	1.59E+01	Gas 1		514	NO
PADominionGre enlick	Heater 4	CO	1.60E+01	Gas 1		515	NO
TXBASFFreepor t	Dehydro Heaters	CO	1.62E+01	Gas 1		516	NO
TXDiamondSha mrockMcKee	H-26 (#2 Vacuum Heater)	CO	1.63E+01	Gas 1		517	NO
TXLubrizolCorp DeerParkPlant	BOILER NO.6	CO	1.67E+01	Gas 1		518	NO
TXWesternRefini ng	F-3901	CO	1.75E+01	Gas 1		519	NO
COSEIncComm erceCity	H103	CO	1.76E+01	Gas 1		520	NO
IAADMClintonCo rn	EU504-2 WWTP Oil Heater	CO	1.78E+01	Gas 1		521	NO
ILFlintHillsResou rces	CB-706	CO	1.78E+01	Gas 1		522	NO
CATesoro	S-919 Furnace 19	CO	1.80E+01	Gas 1		523	NO
SCDuPontTeijin Florence	Boiler #1	CO	1.85E+01	Gas 1		524	NO
TXWesternRefini ng	F-1011	CO	1.85E+01	Gas 1		525	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
CASoCalGas	H-401B	CO	1.93E+01	Gas 1		526	NO
LAAmericasStyr enics	HB-3500	CO	1.96E+01	Gas 1		527	NO
CASoCalGas	H-401A	CO	1.97E+01	Gas 1		528	NO
SCDuPontTeijin Florence	Boiler #2	CO	1.98E+01	Gas 1		529	NO
TXFirestonePoly mersLLC	E-B110	CO	1.99E+01	Gas 1		530	NO
OHADMFostoria 1778	B005	CO	2.00E+01	Gas 1		531	NO
MAMirantCanal	Aux Boiler B	CO	2.12E+01	Gas 1		532	NO
TNValeroMemph is	P013-DHDS Reactor Chrg Htr & Fractionator Reboiler	CO	2.15E+01	Gas 1		533	NO
LAConocoPhillip sUnit891	891-H-1 Delayed Coker Charge Heater	CO	2.20E+01	Gas 1		534	NO
LADowChemical Vinyl	F-106	CO	2.27E+01	Gas 1		535	NO
MIPfizerGlobal1 179	EUBoiler6	CO	2.28E+01	Gas 1		536	NO
OKQuadGraphic sOKCity	SG02	CO	2.30E+01	Gas 1		537	NO
PAINDESPEC	040	CO	2.32E+01	Gas 1		538	NO
PADominionFinn efrock	Boiler (Pennco)	CO	2.35E+01	Gas 1		539	NO
TXValeroTexasC ity	Boiler 26	CO	2.37E+01	Gas 1		540	NO
MSWeyerhaeus erColumbus	AA-019	CO	2.48E+01	Gas 1		541	NO
LADowChemical Vinyl	F-101	CO	2.50E+01	Gas 1		542	NO
TXHuntsmanPor tNeches	Boiler HK-11	CO	2.51E+01	Gas 1		543	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXTotalPetrochemPortArthur	01ACU1H101	CO	2.53E+01	Gas 1		544	NO
PADominionEllisburg	Heater 4 (045)	CO	2.53E+01	Gas 1		545	NO
TXDiamondShamrockMcKee	H-40 (#1 PDA Asplalt Heater)	CO	2.53E+01	Gas 1		546	NO
MIPfizerGlobal1179	EUBoiler2	CO	2.54E+01	Gas 1		547	NO
KSGMFairfax	Boiler No.4	CO	2.54E+01	Gas 1		548	NO
MIFordWayneAssembly	Powerhouse Boiler 3	CO	2.57E+01	Gas 1		549	NO
PASunocoMarcushook	D Boiler (FPLE)	CO	2.57E+01	Gas 1		550	NO
VADuPontSpruance	Dowtherm Vaporizer No. 5	CO	2.60E+01	Gas 1		551	NO
LADowChemicalVinyl	F-104	CO	2.64E+01	Gas 1		552	NO
CADucommunAeroStructures	B003705	CO	2.65E+01	Gas 1		553	NO
TXValeroCorpusChristi	139-H-3B	CO	2.66E+01	Gas 1		554	NO
MIMarathonOilDetroit	11H1 - FCCU Charge Heater	CO	2.71E+01	Gas 1		555	NO
ORGPToledo	EU13 - Power Boiler #1	CO	2.72E+01	Gas 1		556	NO
WAConocoPhillipsFerndale	22F-1E	CO	2.73E+01	Gas 1		557	NO
LADowChemicalVinyl	F-105	CO	2.76E+01	Gas 1		558	NO
LACF Industries	No. 2 Urea Boiler B	CO	2.80E+01	Gas 1		559	NO
TXDiamondShamrockThreeRivers	H-1402	CO	2.81E+01	Gas 1		560	NO
TXDowChemicalFreeport2629	BSRSRHET2	CO	2.83E+01	Gas 1		561	NO
NJD SMNutritional	Boiler 2	CO	2.84E+01	Gas 1		562	NO
LADowChemicalVinyl	F-102	CO	2.89E+01	Gas 1		563	NO
TXChevronBaytown	H-602	CO	2.93E+01	Gas 1		564	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
ILAbbottNorthCh icago	Boiler #11	CO	2.93E+01	Gas 1		565	NO
ORFlakeboardAl bany	Boil-1	CO	2.94E+01	Gas 1		566	NO
COCheyennePla insCompStation	H-8701	CO	2.98E+01	Gas 1		567	NO
ORIPSpringfield CTCytecWallingf ord	Power Boiler	CO	2.98E+01	Gas 1		568	NO
	150 Furnace	CO	2.98E+01	Gas 1		569	NO
GARobinsAFB	B017	CO	3.02E+01	Gas 1		570	NO
CATesoro	S-951 Furnace 51	CO	3.04E+01	Gas 1		571	NO
MNAndersonCor pBayport	Boiler 13 EU622	CO	3.04E+01	Gas 1		572	NO
IAADMClintonCo rn	EU504-1 WWTP Oil Heater	CO	3.04E+01	Gas 1		573	NO
MSPYCO	AA-001	CO	3.09E+01	Gas 1		574	NO
MNAndersonCor pBayport	Boiler 11 EU620	CO	3.14E+01	Gas 1		575	NO
MNAndersonCor pBayport	Boiler 12 EU621	CO	3.14E+01	Gas 1		576	NO
TXLanxess- Orange	EQ-3V	CO	3.25E+01	Gas 1		577	NO
PADominionEllis burg	Heater 5 (052)	CO	3.27E+01	Gas 1		578	NO
VADuPontSprua nce	Dowtherm Vaporizer No. 4	CO	3.33E+01	Gas 1		579	NO
MSChevronPasc agoula	F-8300C	CO	3.36E+01	Gas 1		580	NO
VAUniversityofVi rginia	7103-1-02R	CO	3.39E+01	Gas 1		581	NO
LATembecUSA	PB No.4	CO	3.41E+01	Gas 1		582	NO
TXChevronBayto wn	H-530	CO	3.44E+01	Gas 1		583	NO
MDDominionCov ePoint	S004-17	CO	3.45E+01	Gas 1		584	NO
MDDominionCov ePoint	S004-25	CO	3.48E+01	Gas 1		585	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
NJPassaicValley Sewerage	U20-B3	CO	3.58E+01	Gas 1		586	NO
IDAgriumNuWes t	S-Nb-1	CO	3.60E+01	Gas 1		587	NO
LAValeroRefinin g	401C Boiler	CO	3.61E+01	Gas 1		588	NO
TXLanxess- Orange	EQ-1V	CO	3.65E+01	Gas 1		589	NO
WAGPCamas	No. 5 Power Boiler	CO	3.65E+01	Gas 1		590	NO
WVQuadGraphis Martinsburg	B-02	CO	3.67E+01	Gas 1		591	NO
VADuPontSprua nce	Dowtherm Vaporizer No. 6	CO	3.70E+01	Gas 1		592	NO
NJDSMNutrition al	Boiler 4	CO	3.74E+01	Gas 1		593	NO
MDDominionCov ePoint	S004-21	CO	3.78E+01	Gas 1		594	NO
PASunocoMarcu sHook	B Boiler (FPLE)	CO	3.79E+01	Gas 1		595	NO
NJSunocoWestv ille	Boiler #6	CO	3.85E+01	Gas 1		596	NO
MOMcDonnelDo uglasStLouis	103-1	CO	3.87E+01	Gas 1		597	NO
PASunocoMarcu sHook	C Boiler (FPLE)	CO	4.01E+01	Gas 1		598	NO
OKTerraNitrogen	UC Boiler	CO	4.06E+01	Gas 1		599	NO
PADominionGre enlick	Heater 2	CO	4.19E+01	Gas 1		600	NO
KSSpiritAero	3-224R-BLR3	CO	4.19E+01	Gas 1		601	NO
PASunocoMarcu sHook	A Boiler (FPLE)	CO	4.20E+01	Gas 1		602	NO
TXLubrizolCorp DeerParkPlant	BOILER NO.4	CO	4.24E+01	Gas 1		603	NO
LACF Industries	No. 2 Urea Boiler A	CO	4.27E+01	Gas 1		604	NO
ILKoppersInc	Boiler #4	CO	4.28E+01	Gas 1		605	NO
LAShellChemica Geismar	Boiler F-U201	CO	4.28E+01	Gas 1		606	NO
NYKodakPark	#1 boiler B-514	CO	4.30E+01	Gas 1		607	NO
TXHuntsmanPet rochemical	H-F-2	CO	4.33E+01	Gas 1		608	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXHuntsmanPet rochemical	H-F-3	CO	4.33E+01	Gas 1		609	NO
NYKodakPark	#1 boiler B-95	CO	4.35E+01	Gas 1		610	NO
COSEIncComm erceCity	B-6	CO	4.38E+01	Gas 1		611	NO
ILAbbottNorthCh icago	Boiler #10	CO	4.45E+01	Gas 1		612	NO
TXValeroTexasC ity	Heater 60	CO	4.46E+01	Gas 1		613	NO
NYKodakPark	2 boiler B-514	CO	4.47E+01	Gas 1		614	NO
IDPotlatchLewist on	2 Power Boiler	CO	4.50E+01	Gas 1		615	NO
MDDominionCov ePoint	S004-19	CO	4.56E+01	Gas 1		616	NO
OHTateLyleDayt on	B004	CO	4.59E+01	Gas 1		617	NO
MDDominionCov ePoint	S004-22	CO	4.60E+01	Gas 1		618	NO
OHFordClevelandC asting	Boiler No. 3 (BO22)	CO	4.60E+01	Gas 1		619	NO
LABoiseNewspr intDeRidder	86-01	CO	4.62E+01	Gas 1		620	NO
OHTateLyleDayt on	B002	CO	4.74E+01	Gas 1		621	NO
DEPremcorGrou pValero	29-H-101	CO	4.74E+01	Gas 1		622	NO
MDDominionCov ePoint	S004-20	CO	4.77E+01	Gas 1		623	NO
CAMillerCoorslr windale	D3 Keeler	CO	4.80E+01	Gas 1		624	NO
MDDominionCov ePoint	S004-24	CO	4.81E+01	Gas 1		625	NO
MDDominionCov ePoint	S004-23	CO	4.81E+01	Gas 1		626	NO
OKConocoPhillip sPoncaCity	B-0008	CO	4.82E+01	Gas 1		627	NO
MDDominionCov ePoint	S004-18	CO	4.84E+01	Gas 1		628	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
PADominionGre enlick	Heater B	CO	4.90E+01	Gas 1		629	NO
TXRohmHaasDe erPark	HT-9	CO	4.95E+01	Gas 1		630	NO
GARobinsAFB	B014	CO	4.96E+01	Gas 1		631	NO
TXDeerParkRefi nery	H5105	CO	5.09E+01	Gas 1		632	NO
TXDeerParkRefi nery	H63000	CO	5.09E+01	Gas 1		633	NO
CATesoro	S-920 Furnace 20	CO	5.10E+01	Gas 1		634	NO
TXLanxess- Orange	BOS-31V	CO	5.14E+01	Gas 1		635	NO
VAUniversityofVi rginia	5575-1-03	CO	5.27E+01	Gas 1		636	NO
NJPassaicValley Sewerage	U20-B4	CO	5.28E+01	Gas 1		637	NO
MDDominionCov ePoint	S004-16	CO	5.43E+01	Gas 1		638	NO
NYKodakPark	#2 boiler B-95	CO	5.53E+01	Gas 1		639	NO
LACitgoLakeCha rles	EQT028	CO	5.55E+01	Gas 1		640	NO
MOAnheuserBus ch	Boiler 5	CO	5.58E+01	Gas 1		641	NO
PADominionOak ford	Boiler 2	CO	5.59E+01	Gas 1		642	NO
LACalumet	VII-h sour crude heater 9*3-H- 200	CO	5.68E+01	Gas 1		643	NO
WYSinclairCasp er	Pt. 18 B-201 CHD Heater	CO	6.00E+01	Gas 1		644	NO
PADominionGre enlick	Heater 1	CO	6.00E+01	Gas 1		645	NO
VAUniversityofVi rginia	7103-1-05	CO	6.00E+01	Gas 1		646	NO
ILWoodRiverRefi nery	HTR-DU1-F301	CO	6.04E+01	Gas 1		647	NO
VAUniversityofVi rginia	5575-1-02	CO	6.08E+01	Gas 1		648	NO
NYKodakPark	#2 boiler B-502	CO	6.10E+01	Gas 1		649	NO
PADominionGre enlick	Boiler 1	CO	6.20E+01	Gas 1		650	NO
NEAgProcessing SOY	EP 117	CO	6.20E+01	Gas 1		651	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
LACF Industries	No. 1 Urea Boiler	CO	6.23E+01	Gas 1		652	NO
OKConocoPhillip sPoncaCity	B-0010	CO	6.59E+01	Gas 1		653	NO
OKConocoPhillip sPoncaCity	B-0009	CO	6.59E+01	Gas 1		654	NO
TXLanxess- Orange	EQ-2V	CO	6.63E+01	Gas 1		655	NO
ILKoppersInc	Boiler #1	CO	6.67E+01	Gas 1		656	NO
TXDiamondSha mrockMcKee	H-45 (#1 Hydrotreater Charge)	CO	6.73E+01	Gas 1		657	NO
TXDiamondSha mrockMcKee	H-1 (#1 Crude Charge)	CO	6.76E+01	Gas 1		658	NO
CATesoro	S-915 Furnace 15	CO	7.04E+01	Gas 1		659	NO
WABoeingFredri ckson	Boiler #2	CO	7.06E+01	Gas 1		660	NO
FLIPPensacola	Power Boiler 6 / EU ID 03	CO	7.08E+01	Gas 1		661	NO
PADominionGre enlick	Heater A	CO	7.10E+01	Gas 1		662	NO
SCPPGSpartanb urg	LLR01490 (Superior)	CO	7.21E+01	Gas 1		663	NO
TXDowChemical Freeport2629	BSRSRHET1	CO	7.24E+01	Gas 1		664	NO
NYKodakPark	#1 Boiler B-502	CO	7.25E+01	Gas 1		665	NO
VAUniversityofVi rginia	5575-1-01	CO	7.36E+01	Gas 1		666	NO
PADominionGre enlick	Heater C	CO	7.40E+01	Gas 1		667	NO
VAUniversityofVi rginia	5575-1-04	CO	7.41E+01	Gas 1		668	NO
TXFirestonePoly mersLLC	E-B111	CO	7.41E+01	Gas 1		669	NO
OHMillenniumIn organicChemical s1872	B016	CO	7.50E+01	Gas 1		670	NO
LAShellChemica Geismar	Boiler F-U206	CO	7.59E+01	Gas 1		671	NO
ORSPNewsprint	B6-EU	CO	7.71E+01	Gas 1		672	NO
ORSPNewsprint	B7-EU	CO	7.71E+01	Gas 1		673	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
OHTateLyleDayton	B001	CO	7.78E+01	Gas 1		674	NO
PAAKSteelButler	037A - Boiler 21	CO	7.86E+01	Gas 1		675	NO
TXRohmHaasDeerPark	ACET-2A-2	CO	7.99E+01	Gas 1		676	NO
WYOCiWyoming	Boiler 5	CO	8.03E+01	Gas 1		677	NO
NCR ReevesBrothers	B4	CO	8.30E+01	Gas 1		678	NO
TXDiamondShamrockThreeRivers	6F-3	CO	8.45E+01	Gas 1		679	NO
TXWesternRefining	F-1001	CO	8.71E+01	Gas 1		680	NO
TXDowChemicalFreeport2629	BSRSRHDHT	CO	8.99E+01	Gas 1		681	NO
OKTerraNitrogen	#1 Primary Reformer	CO	9.07E+01	Gas 1		682	NO
MTCHSLaurel1401	#10 Boiler	CO	9.30E+01	Gas 1		683	NO
WYSinclairWyoming	Pt 41 #9 HPB	CO	9.32E+01	Gas 1		684	NO
ILCSLBehring	Cogen Turbine	CO	9.46E+01	Gas 1		685	NO
INNucorSteel	HM#2 Annealing	CO	9.60E+01	Gas 1		686	NO
INNucorSteel	HM#1 Annealing	CO	9.67E+01	Gas 1		687	NO
LACalumet	IV-O #10 Boiler	CO	9.68E+01	Gas 1		688	NO
TXWesternRefining	125	CO	9.95E+01	Gas 1		689	NO
TXDiamondShamrockMcKee	B-12 (600# Boiler)	CO	9.97E+01	Gas 1		690	NO
TXBayerMaterialScience	Fulton Hot Oil Skid	CO	1.00E+02	Gas 1		691	NO
TXGoodyearBeaumont	B107	CO	1.00E+02	Gas 1		692	NO
TXLubrizolBayport	BOIL-1	CO	1.02E+02	Gas 1		693	NO
ILTheSolaeCo	606-000	CO	1.02E+02	Gas 1		694	NO
TXTexasPetrochemicals	Boiler No. 2	CO	1.02E+02	Gas 1		695	NO
MNBoisePaper1212	EU 460 Boiler #9	CO	1.02E+02	Gas 1		696	NO
LALionCopolymer	EQT 56	CO	1.11E+02	Gas 1		697	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
MOAnheuserBus ch	Boiler 1	CO	1.11E+02	Gas 1		698	NO
NEADMCornPro cessingColumbu s	WM38 Boiler #1	CO	1.14E+02	Gas 1		699	NO
TXFormosaPlast ics	THS-10 (EPN 7F)	CO	1.16E+02	Gas 1		700	NO
ILFlintHillsResou rces	HB-2200	CO	1.20E+02	Gas 1		701	NO
ORGPToledo	EU22 - Power Boiler #5	CO	1.20E+02	Gas 1		702	NO
WABoeingFredri ckson	Boiler #1	CO	1.30E+02	Gas 1		703	NO
MSPYCO	AA-002	CO	1.30E+02	Gas 1		704	NO
COParachuteGa sPlant	H-3741 (HTR-4)	CO	1.35E+02	Gas 1		705	NO
PAUnitedRefinin gWarrant	51	CO	1.36E+02	Gas 1		706	NO
TXDowChemical Freeport2629	B27P3S523	CO	1.36E+02	Gas 1		707	NO
INHaynesIntern ational	Boiler 1	CO	1.42E+02	Gas 1		708	NO
TXDeerParkRefi nery	H1000	CO	1.44E+02	Gas 1		709	NO
GAADMLocation 551	640- Cleaver Brooks	CO	1.45E+02	Gas 1		710	NO
CAExxonMobil- Torrance	3F-1A	CO	1.48E+02	Gas 1		711	NO
CAExxonMobil- Torrance	3F-1B	CO	1.48E+02	Gas 1		712	NO
CAExxonMobil- Torrance	3F-2A	CO	1.48E+02	Gas 1		713	NO
CAExxonMobil- Torrance	3F-2B	CO	1.48E+02	Gas 1		714	NO
MOMcDonnelDo uglasStLouis	78-1	CO	1.49E+02	Gas 1		715	NO
TXDeerParkRefi nery	H5600	CO	1.55E+02	Gas 1		716	NO
GARobinsAFB	B015	CO	1.60E+02	Gas 1		717	NO
MOMcDonnelDo uglasStLouis	78-2	CO	1.65E+02	Gas 1		718	NO
TXDowChemical Freeport2629	B23G2S826	CO	1.74E+02	Gas 1		719	NO
PADominionGre enlick	Heater 3	CO	1.80E+02	Gas 1		720	NO
CACAPortlandC ementMojave	D4-1-AH1	CO	1.85E+02	Gas 1		721	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXRohmHaasDe erPark	HT-2	CO	1.86E+02	Gas 1		722	NO
INHaynesInterna tional	Boiler 2	CO	1.88E+02	Gas 1		723	NO
MIPfizerGlobal1 179	EUBoiler1B	CO	1.91E+02	Gas 1		724	NO
CADucommunA eroStructures	B003704	CO	2.01E+02	Gas 1		725	NO
MNADMCorndivi sion	Gas Boiler #4 EU054	CO	2.02E+02	Gas 1		726	NO
OHHondaMAP	Boiler House Boiler 2	CO	2.17E+02	Gas 1		727	NO
INTateLyleSaga more	21B501	CO	2.17E+02	Gas 1		728	NO
NYKodakPark	#3 boiler B-91	CO	2.51E+02	Gas 1		729	NO
ILKoppersInc	Tube Heater F201	CO	2.51E+02	Gas 1		730	NO
CAConocoPhillip sSanFran	S# 22	CO	2.54E+02	Gas 1		731	NO
SCMichelinSand ySprings	B:02:01	CO	2.56E+02	Gas 1		732	NO
TXMeadWestva coEvadale	21-2069	CO	2.59E+02	Gas 1		733	NO
TXLubrizolCorp DeerParkPlant	BOILER NO.5	CO	2.64E+02	Gas 1		734	NO
ORIPSpringfield	Package Boiler	CO	2.70E+02	Gas 1		735	NO
MIMISugarBayCi ty	#5 Boiler	CO	2.84E+02	Gas 1		736	NO
TXDeerParkChe micalPlant	H1300	CO	2.85E+02	Gas 1		737	NO
TXMeadWestva coEvadale	21-2104	CO	3.18E+02	Gas 1		738	NO
CATesoro	S-931 Furnace 31	CO	3.68E+02	Gas 1		739	NO
TXRohmHaasDe erPark	HT-1	CO	3.69E+02	Gas 1		740	NO
DEPremcorGrou pValero	29-H-6	CO	4.07E+02	Gas 1		741	NO
FLPepperidgeFa rm	HOT WAT GAS FIRED	CO	4.94E+02	Gas 1		742	NO
TXDiamondSha mrockMcKee	B-6 (Boiler #13)	CO	5.17E+02	Gas 1		743	NO
PACraftMaster	No1 Boiler Source ID 031	CO	6.00E+02	Gas 1		744	NO
TXTiconaPolyme rsBishop	Power Boiler 12	CO	6.46E+02	Gas 1		745	NO
IDPotlatchLewist on	4 Power Boiler	CO	1.01E+03	Gas 1		746	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
ORGeorgiaPacificWaunaMill	EU34 - Package Boiler	CO	1.31E+03	Gas 1		747	NO
OHHondaMAP	Boiler House Boiler 1	CO	1.33E+03	Gas 1		748	NO
ARGBPMorrilton	SN-14	CO	1.68E+03	Gas 1		749	NO
TXOxyVinylsPasadena	F4 Boiler	CO	3.22E+03	Gas 1		750	NO
ORGPToledo	EU18 - Power Boiler #3	CO	3.35E+03	Gas 1		751	NO
CATesoro	S-917 Furnace 17	CO	3.40E+03	Gas 1		752	NO
IAAlcoaDavenport	CFRN21	CO	5.83E+03	Gas 1		753	NO
LAShellChemicalGeismar	Furnace F-S801	CO	1.29E-02	Gas 2	yes		
TXEquistarChemicals	UTBLRG	CO	2.11E-02	Gas 2		1	YES
TXFlintHillsPortArthur	LOUBOILER10	CO	8.00E-02	Gas 2		2	YES
TXEquistarChananelview	F38001A	CO	1.00E-01	Gas 2		3	YES
TXEquistarChananelview	F38001B	CO	1.00E-01	Gas 2		4	YES
TXFlintHillsPortArthur	LOUBOILER9	CO	1.00E-01	Gas 2		5	YES
TXLyondellChananelview	F6101	CO	1.00E-01	Gas 2		6	YES
TXLyondellChananelview	F6105	CO	1.00E-01	Gas 2		7	YES
TXEquistarChananelview	F4601	CO	1.10E-01	Gas 2		8	YES
TXLyondellChananelview	F6103	CO	1.10E-01	Gas 2		9	YES
TXLyondellChananelview	F6104	CO	1.10E-01	Gas 2		10	NO
TXEquistarCorpusChristi	4D	CO	1.35E-01	Gas 2		11	NO
TXLyondellPasadena	B-901	CO	1.35E-01	Gas 2		12	NO
TXLyondellPasadena	B-902A	CO	1.35E-01	Gas 2		13	NO
TXLyondellPasadena	B-902B	CO	1.35E-01	Gas 2		14	NO
TXChevronBaytown	H-1530	CO	1.70E-01	Gas 2		15	NO
TXEquistarCorpusChristi	5A	CO	1.80E-01	Gas 2		16	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
TXHuntsmanPortNeches	A3 Furnace H-A3-1A	CO	2.02E-01	Gas 2		17	NO
MDSeverstalSparrows	1BLR (No. 1 Boiler)	CO	2.57E-01	Gas 2		18	NO
LAAmericasStyrénics	HS-4201	CO	3.09E-01	Gas 2		19	NO
LAAmericasStyrénics	HS-4219	CO	3.09E-01	Gas 2		20	NO
INArcelorMittalBurnsHarbor	No. 7 Boiler	CO	4.06E-01	Gas 2		21	NO
LAShellChemicalGeismar	Furnace F-S2881	CO	5.22E-01	Gas 2		22	NO
TXEquistarCorpusChristi	4B	CO	5.41E-01	Gas 2		23	NO
LAAmericasStyrénics	HS-2201	CO	7.49E-01	Gas 2		24	NO
LAAmericasStyrénics	HS-2219	CO	7.49E-01	Gas 2		25	NO
SCBMWManufacturingCo	HB03	CO	8.66E-01	Gas 2		26	NO
TXLyondellChanelview	F6102	CO	8.77E-01	Gas 2		27	NO
TXChevronBaytown	BF-801A	CO	8.90E-01	Gas 2		28	NO
TXEquistarChanelview	F48001A	CO	8.93E-01	Gas 2		29	NO
TXEquistarChanelview	F48001B	CO	8.93E-01	Gas 2		30	NO
TXLyondellChanelview	F67800	CO	1.00E+00	Gas 2		31	NO
TXLyondellChanelview	F96800	CO	1.00E+00	Gas 2		32	NO
TXHuntsmanPortNeches	A3 Furnace H-A3-1D	CO	1.16E+00	Gas 2		33	NO
TXHuntsmanPortNeches	A3 Furnace H-A3-1G	CO	1.30E+00	Gas 2		34	NO
TXEastmanChemLongview	OL044H5A	CO	1.35E+00	Gas 2		35	NO
TXEquistarChanelview	F3601	CO	1.62E+00	Gas 2		36	NO
WVMountainStateCarbonFollansbee	S5	CO	2.42E+00	Gas 2		37	NO
MDSeverstalSparrows	3BLR	CO	2.71E+00	Gas 2		38	NO
ARAlbemarLeSouth	SN-BH-02	CO	3.12E+00	Gas 2		39	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
WVMountainStateCarbonFollansbee	S1	CO	3.55E+00	Gas 2		40	NO
TXHuntsmanPortNeche	A3 Furnace H-A3-1E	CO	5.23E+00	Gas 2		41	NO
TXEquistarCorpusChristi	1J	CO	5.23E+00	Gas 2		42	NO
TXFlintHillsPortArthur	LOUHEATER1	CO	6.00E+00	Gas 2		43	NO
TXHuntsmanPortNeche	A3 Furnace H-A3-1B	CO	7.71E+00	Gas 2		44	NO
WIGPGreenBay2818	B29 - Fluidized Bed Boiler #9	CO	8.48E+00	Gas 2		45	NO
TXEquistarChemicals	UTBLRH	CO	1.04E+01	Gas 2		46	NO
TXEastmanChemLongview	OL032H5B	CO	1.26E+01	Gas 2		47	NO
INRollsRoyceIndianapolis	70-65	CO	1.29E+01	Gas 2		48	NO
ARAlbemarleSouth	SN-BH-01	CO	1.38E+01	Gas 2		49	NO
TXEastmanChemLongview	OL033H5B	CO	1.40E+01	Gas 2		50	NO
TXHuntsmanPortNeche	Boiler HK-11	CO	1.61E+01	Gas 2		51	NO
LAAmericasStyracenic	HB-302	CO	1.83E+01	Gas 2		52	NO
LALakeCharlesChemical	LAB-LH-3 (Hot Oil Heater)	CO	2.24E+01	Gas 2		53	NO
TXFlintHillsOdesa	F-Boiler	CO	2.34E+01	Gas 2		54	NO
NJAPIFoils	2	CO	2.66E+01	Gas 2		55	NO
TXChevronBaytown	BA-651	CO	2.80E+01	Gas 2		56	NO
TXChevronBaytown	BF-801B	CO	3.21E+01	Gas 2		57	NO
LAAmericasStyracenic	HS-1101	CO	3.22E+01	Gas 2		58	NO
TXHuntsmanPortNeche	PO Boiler H-K2-003	CO	4.09E+01	Gas 2		59	NO
TXChevronBaytown	H-3	CO	4.31E+01	Gas 2		60	NO
TXFlintHillsOdesa	B-Boiler	CO	4.98E+01	Gas 2		61	NO
TXEquistarChannelview	F3701	CO	1.06E+02	Gas 2		62	NO
TXFlintHillsOdesa	A-Boiler	CO	1.08E+02	Gas 2		63	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
INTateLyleSagamore	21B501	CO	1.23E+02	Gas 2		64	NO
TXGoodyearBeaumont	B106	CO	1.32E+02	Gas 2		65	NO
LAGPPortHudson	EQT0100 - Power Boiler No. 5	CO	1.38E+02	Gas 2		66	NO
TXHuntsmanPortNeches	A3 Furnace H-A3-1H	CO	1.70E+02	Gas 2		67	NO
TXChevronBaytown	BA-401	CO	2.01E+02	Gas 2		68	NO
TXBorger	Boiler 1	CO	2.84E+02	Gas 2		69	NO
TXBorger	Boiler 2	CO	2.84E+02	Gas 2		70	NO
TXEquistarCorpusChristi	3A	CO	1.35E+03	Gas 2		71	NO
TXHuntsmanPortNeches	A3 Furnace H-A3-1J	CO	2.75E+03	Gas 2		72	NO
TXHuntsmanPortNeches	A3 Furnace H-A3-1C	CO	2.87E+03	Gas 2		73	NO
TXHuntsmanPortNeches	A3 Furnace H-A3-1F	CO	3.32E+03	Gas 2		74	NO
SCDAKAmericas	P8F	CO	5.15E-02	Liquid		1	YES
ORGeorgiaPacificWaunaMill	EU33 - Power Boiler	CO	1.25E-01	Liquid		2	YES
NJSunocoWestville	Boiler #8	CO	1.28E-01	Liquid		3	YES
NJSunocoWestville	Boiler #7	CO	1.97E-01	Liquid		4	YES
NENebraskaCityStation	Auxiliary Boiler 2	CO	2.73E-01	Liquid		5	YES
NJSunocoWestville	Boiler #5	CO	2.99E-01	Liquid		6	YES
SCGPCChemRussellville	FO Boiler	CO	3.73E-01	Liquid		7	YES
NJMerckRahway	E750009 - Boiler #9	CO	5.15E-01	Liquid		8	YES
OHOSUColumbus	B140	CO	5.44E-01	Liquid		9	YES
NCCampLejeuneMCB	C-CG-650-84B	CO	5.67E-01	Liquid		10	YES
VADominionPossumPoint	Aux. Boiler 001	CO	6.29E-01	Liquid		11	YES
PAKeystonePowerPlantShelocta	Aux Boiler A	CO	7.59E-01	Liquid		12	YES
NJSunocoWestville	Boiler #6	CO	8.55E-01	Liquid		13	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
NCCampLejeune MCB	C-CG-650-83B	CO	8.67E-01	Liquid		14	NO
NYConEd59thSt StationNewYork	Boiler 118	CO	1.17E+00	Liquid		15	NO
MEPioneerPlastics	Boiler #4	CO	1.28E+00	Liquid		16	NO
NCavoca	H-101	CO	1.29E+00	Liquid		17	NO
NCavoca	H-102	CO	1.29E+00	Liquid		18	NO
NJMerckRahway	E750010 - Boiler #10	CO	1.29E+00	Liquid		19	NO
WI3MMenomonee	P04 ABCO east boiler	CO	1.29E+00	Liquid		20	NO
WI3MMenomonee	P05 ABCO west boiler	CO	1.29E+00	Liquid		21	NO
MANewarkAmerica	Boiler #2	CO	1.32E+00	Liquid		22	NO
NJMerckRahway	E750005 - Boiler #5	CO	1.33E+00	Liquid		23	NO
OHOSUColumbus	B143	CO	1.40E+00	Liquid		24	NO
GAGPCellulose Brunswick	U706 -- No. 6 Power Boiler	CO	1.45E+00	Liquid		25	NO
PAUnitedRefiningWarrant	55	CO	1.53E+00	Liquid		26	NO
MNMinnesotaSoybeanProcessors	Boiler 1 EU026	CO	1.53E+00	Liquid		27	NO
MNMinnesotaSoybeanProcessors	Boiler 2 EU027	CO	1.53E+00	Liquid		28	NO
INUSSteelGary Works	O4B10459	CO	1.60E+00	Liquid		29	NO
NJMerckRahway	E750003 - Boiler #3	CO	1.67E+00	Liquid		30	NO
PAUnitedRefiningWarrant	49	CO	1.82E+00	Liquid		31	NO
WVCytec	830X Boiler #1	CO	2.12E+00	Liquid		32	NO
NDADMNorthernSun	EU62	CO	2.19E+00	Liquid		33	NO
NJChambersCogen	Auxiliary Boiler	CO	2.22E+00	Liquid		34	NO
PACrombyGeneratingStation	033 - Auxiliary Boiler	CO	2.48E+00	Liquid		35	NO
OHUSEnrichmentCorpPiketon	X-6002 Boiler No. 2 (South)	CO	2.57E+00	Liquid		36	NO
WI3MMenomonee	P01 Kewaunee steam boiler	CO	2.57E+00	Liquid		37	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for
Alternative Solid Waste Definition

Table 4-CO Floor by
Fuel

FacilityID	CombustorID_co mmon	Pollutant_ Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
PAKeystonePow erPlantShelocta	Aux Boiler B	CO	3.16E+00	Liquid		38	NO
MEVersoPaperA ndroscoggin	Power Boiler No. 2	CO	3.40E+00	Liquid		39	NO
MEVersoPaperA ndroscoggin	Power Boiler No. 1	CO	3.40E+00	Liquid		40	NO
OHUSEnrichme ntCorpPiketon	X-6002 Boiler No. 1 (North)	CO	3.85E+00	Liquid		41	NO
PAConemaughP owerPlantNewFl orence	Aux Boiler B	CO	4.17E+00	Liquid		42	NO
TNMilanArmyAm munitionPlant	D88L-1, Source #27-0010-86	CO	4.20E+00	Liquid		43	NO
VABAENorfolk	010	CO	4.29E+00	Liquid		44	NO
CAAerojet	38008 BR 01 (PO 14611)(C- 10008)	CO	4.33E+00	Liquid		45	NO
VAUniversityofVi rginia	7103-1-04R	CO	4.47E+00	Liquid		46	NO
NJMerckRahway	E750011 - Boiler #11	CO	4.87E+00	Liquid		47	NO
MOMcDonnelDo uglasStLouis	102-5	CO	5.54E+00	Liquid		48	NO
PABoeingRidley Park	033	CO	5.55E+00	Liquid		49	NO
WI3MMenomoni e	P02 Kewaunee HW boiler	CO	5.58E+00	Liquid		50	NO
OHOSUColumb us	B141	CO	5.62E+00	Liquid		51	NO
SCDuPontTeijin Florence	Boiler #1	CO	5.99E+00	Liquid		52	NO
AREvergreenPa ckaging	PB2	CO	6.12E+00	Liquid		53	NO
MDUofMaryland	H	CO	6.43E+00	Liquid		54	NO
MIPfizerGlobal1 179	EUBoiler5	CO	6.98E+00	Liquid		55	NO
MDUofMaryland	B	CO	7.72E+00	Liquid		56	NO
NJMerckRahway	E750012 - Boiler #12	CO	7.95E+00	Liquid		57	NO
WIWRREnviron mental	B#4	CO	8.08E+00	Liquid		58	NO
MEFPLEnergyW yman	Unit #5	CO	8.20E+00	Liquid		59	NO
FLOkeelanta268	Boiler No. 16	CO	8.39E+00	Liquid		60	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
VANewportNews ShipbuildingDry Dock	78-E1	CO	8.71E+00	Liquid		61	NO
TNInvistaChattanooga	EU003 - Vaporizer #2	CO	9.40E+00	Liquid		62	NO
ILJLMChemicals Bluelsland	Boiler 1	CO	9.66E+00	Liquid		63	NO
SCDuPontTeijin Florence	Boiler #2	CO	9.83E+00	Liquid		64	NO
NJVinelandMuni Electric-HowardDown	Unit 9	CO	1.06E+01	Liquid		65	NO
PAUnitedRefiningWarrant	50	CO	1.08E+01	Liquid		66	NO
MDUofMaryland	EU 001-4	CO	1.14E+01	Liquid		67	NO
MIConsumerEnergyCo-Campbell	EUAUXBLR12	CO	1.18E+01	Liquid		68	NO
NJD SMNutritional	Boiler 4	CO	1.21E+01	Liquid		69	NO
OHOSUColumbus	B142	CO	1.28E+01	Liquid		70	NO
HIPuuneneSugarMill	Boiler 3	CO	1.33E+01	Liquid		71	NO
WIWRREnvironmental	B#3	CO	1.35E+01	Liquid		72	NO
VAUniversityofVirginia	7103-1-03R	CO	1.46E+01	Liquid		73	NO
WAGPCamas	No. 5 Power Boiler	CO	1.74E+01	Liquid		74	NO
WVCytec	831X Boiler #2	CO	1.91E+01	Liquid		75	NO
AREvergreenPackaging	PB1	CO	2.10E+01	Liquid		76	NO
MDUofMaryland	EU 001-2	CO	2.21E+01	Liquid		77	NO
KSGMFairfax	Boiler No.1	CO	2.25E+01	Liquid		78	NO
NDADMNorthernSun	EU21	CO	2.27E+01	Liquid		79	NO
MN3MCenter	EU 043	CO	2.39E+01	Liquid		80	NO
MAUMass	EU#7	CO	2.47E+01	Liquid		81	NO
MAMirantCanal	Aux Boiler B	CO	2.57E+01	Liquid		82	NO
COKodakWindsor	Boiler 71	CO	2.63E+01	Liquid		83	NO
COKodakWindsor	Boiler 72	CO	2.63E+01	Liquid		84	NO
PAAppletonPapers	#033	CO	3.31E+01	Liquid		85	NO
MAMirantCanal	Aux Boiler A	CO	3.93E+01	Liquid		86	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 4-CO Floor by Fuel

FacilityID	CombustorID_common	Pollutant_Name	ppm @ 3% O2	MACT Floor FuelCat	Metal Furnace?	Rank	Test Data in Top 12pct
NJDSMNutritional	Boiler 3	CO	4.15E+01	Liquid		87	NO
IACargillIowaFalls	EP 26	CO	4.34E+01	Liquid		88	NO
NJDSMNutritional	Boiler 2	CO	4.40E+01	Liquid		89	NO
NCDomtar	66-25-2050 (No. 1 Package Boiler)	CO	4.91E+01	Liquid		90	NO
WI3MMenomonee	P03 Cleaver Brooks HW boiler	CO	5.45E+01	Liquid		91	NO
MIPfizerGlobal1179	EUBoiler3	CO	6.15E+01	Liquid		92	NO
PAConemaughPowerPlantNewFlorence	Aux Boiler A	CO	6.18E+01	Liquid		93	NO
MNNSPKingGenPlant	Auxiliary Boiler (EU 028)	CO	6.39E+01	Liquid		94	NO
CTElectric Boat	EMU 17	CO	7.20E+01	Liquid		95	NO
VAUniversityofVirginia	5575-1-02	CO	7.29E+01	Liquid		96	NO
MNGPDuluth	EU33 Boiler #3	CO	7.78E+01	Liquid		97	NO
VAUniversityofVirginia	5575-1-01	CO	8.02E+01	Liquid		98	NO
VABAENorfolk	009	CO	8.04E+01	Liquid		99	NO
VACloverPowerStation	ES-3	CO	8.68E+01	Liquid		100	NO
VAUniversityofVirginia	5575-1-03	CO	9.24E+01	Liquid		101	NO
NCInvistaHwy421	B7600	CO	9.89E+01	Liquid		102	NO
VAUniversityofVirginia	5575-1-04	CO	1.06E+02	Liquid		103	NO
OHSolaeBellvue	B010A	CO	1.89E+02	Liquid		104	NO
ORIPSpringfield	Power Boiler	CO	5.52E+02	Liquid		105	NO
MIPfizerGlobal1179	EUBoiler1B	CO	7.46E+02	Liquid		106	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 5-D/F Floor by Fuel - Total MASS

FacilityID	CombustorID_com mon	Pollutant Units	MACT Floor FuelCat	Metal Furnace?	Average of Test Runs	Number of Test Runs	Rank	Test Data in Top 12pct
SCMichelinSandy Springs	B:02:01	ng/dscm @ 7% O2	Gas 1		1.26E-01	3	1	YES
WYSinclairWyomi ng	Pt 41 #9 HPB	ng/dscm @ 7% O2	Gas 1		1.32E-01	3	2	NO
NCCampLejeune MCB	C-AS-4151-16	ng/dscm @ 7% O2	Gas 1		1.38E-01	3	3	NO
WYSinclairWyomi ng	Pt 74 #2 H2 Plant Heater	ng/dscm @ 7% O2	Gas 1		1.42E-01	3	4	NO
SCEastmanColom bia	HTM Heater #3 (Equip ID 1101)	ng/dscm @ 7% O2	Gas 1		1.43E-01	3	5	NO
CTCyttecWallingfo rd	150 Furnace	ng/dscm @ 7% O2	Gas 1		1.72E-01	3	6	NO
KSCoffeyvilleRefin ery	EU-39-FH0027	ng/dscm @ 7% O2	Gas 1		2.80E-01	3	7	NO
ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	ng/dscm @ 7% O2	Gas 1	yes	1.27E-02	3	1	YES
CORockyMtnSteel 212	Rod/Bar Mill Furnace 95OPP088	ng/dscm @ 7% O2	Gas 1	yes	4.25E-02	3	2	NO
INOutokumpuStai nlessPlate	Heppenstall Annealing Furnace	ng/dscm @ 7% O2	Gas 1	yes	4.50E-02	3	3	NO
UTWestinghouse	202	ng/dscm @ 7% O2	Gas 1	yes	1.70E-01	3	4	NO
INArcelorMittalBur nsHarbor	Hot Dip Coating Line Annealing Furnace	ng/dscm @ 7% O2	Gas 1	yes	2.67E-01	3	5	NO
INAlcoaWarrick	Pre-Heat Furnace #36	ng/dscm @ 7% O2	Gas 1	yes	1.10E+00	3	6	NO
INNucorSteel	Cold Mill Annealing	ng/dscm @ 7% O2	Gas 1	yes	4.78E+00	3	7	NO
INTateLyleSagam ore	21B501	ng/dscm @ 7% O2	Gas 2		4.50E-02	3	1	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 5-D/F Floor by Fuel - Total MASS

FacilityID	CombustorID_com mon	Pollutant Units	MACT Floor FuelCat	Metal Furnace?	Average of Test Runs	Number of Test Runs	Rank	Test Data in Top 12pct
WVMountainState CarbonFollansbee	S1	ng/dscm @ 7% O2	Gas 2		5.20E-02	3	2	NO
SCBMWManufact uringCo	HB03	ng/dscm @ 7% O2	Gas 2		9.57E-02	3	3	NO
LAShellChemicaG eismar	Furnace F-S801	ng/dscm @ 7% O2	Gas 2		2.31E-01	3	4	NO
MDSeverstalSparr ows	1BLR (No. 1 Boiler)	ng/dscm @ 7% O2	Gas 2		4.81E-01	3	5	NO
NYConEd59thStSt ationNewYork	Boiler 118	ng/dscm @ 7% O2	Liquid		1.77E-03	3	1	YES
CTElectric Boat	EMU 17	ng/dscm @ 7% O2	Liquid		8.87E-03	3	2	YES
VANewportNewsS hipbuildingDryDoc k	78-E1	ng/dscm @ 7% O2	Liquid		2.19E-02	3	3	NO
SCGPCChemRusse llville	FO Boiler	ng/dscm @ 7% O2	Liquid		2.48E-02	3	4	NO
MIConsumerEner gyCo-Campbell	EUAUXBLR12	ng/dscm @ 7% O2	Liquid		5.89E-02	3	5	NO
INUSSteelGaryW orks	O4B10459	ng/dscm @ 7% O2	Liquid		6.66E-02	3	6	NO
TNMilanArmyAmm unitionPlant	D88L-1, Source #27-0010-86	ng/dscm @ 7% O2	Liquid		1.06E-01	3	7	NO
MNGPDuluth	EU33 Boiler #3	ng/dscm @ 7% O2	Liquid		1.67E-01	3	8	NO
MEFPLEnergyWy man	Unit #5	ng/dscm @ 7% O2	Liquid		1.78E-01	3	9	NO
NJVinelandMuniEl ectric- HowardDown	Unit 9	ng/dscm @ 7% O2	Liquid		3.20E-01	3	10	NO
PABoeingRidleyP ark	033	ng/dscm @ 7% O2	Liquid		6.11E-01	3	11	NO
NCInvistaHwy421	B7600	ng/dscm @ 7% O2	Liquid		7.54E-01	3	12	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 5-D/F Floor
by Fuel - TEQ

FacilityID	CombustorID_ common	Pollutant Units	MACT Floor FuelCat	Metal Furnace?	Average of Test Runs	Number of Test Runs	Rank	Test Data in Top 12pct
NCCampLejeuneMCB	C-AS-4151-16	ng/dscm @ 7% O2	Gas 1		2.57E-03	3	1	YES
SCMichelinSandySprings	B:02:01	ng/dscm @ 7% O2	Gas 1		4.25E-03	3	2	NO
SCEastmanColumbia	HTM Heater #3 (Equip ID 1101)	ng/dscm @ 7% O2	Gas 1		4.27E-03	3	3	NO
WYSinclairWyoming	Pt 41 #9 HPB	ng/dscm @ 7% O2	Gas 1		4.40E-03	3	4	NO
WYSinclairWyoming	Pt 74 #2 H2 Plant Heater	ng/dscm @ 7% O2	Gas 1		5.00E-03	3	5	NO
KSCoffeyvilleRefinery	EU-39-FH0027	ng/dscm @ 7% O2	Gas 1		2.52E-02	3	6	NO
CTCytecWallingford	150 Furnace	ng/dscm @ 7% O2	Gas 1		2.93E+01	3	7	NO
CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPP088	ng/dscm @ 7% O2	Gas 1	yes	2.58E-03	3	1	YES
INOutokumpuStainlessPlate	Heppenstall Annealing Furnace	ng/dscm @ 7% O2	Gas 1	yes	3.10E-03	3	2	NO
UTWestinghouse	202	ng/dscm @ 7% O2	Gas 1	yes	6.37E-03	3	3	NO
INArcelorMittalBurnsHarbor	Hot Dip Coating Line Annealing Furnace	ng/dscm @ 7% O2	Gas 1	yes	9.80E-03	3	4	NO
ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	ng/dscm @ 7% O2	Gas 1	yes	1.92E-02	3	5	NO
INAlcoaWarrick	Pre-Heat Furnace #36	ng/dscm @ 7% O2	Gas 1	yes	4.64E-02	3	6	NO
INNucorSteel	Cold Mill Annealing	ng/dscm @ 7% O2	Gas 1	yes	3.64E-01	3	7	NO
SCBMWManufacturingCo	HB03	ng/dscm @ 7% O2	Gas 2		2.67E-03	3	1	YES

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 5-D/F Floor
by Fuel - TEQ

FacilityID	CombustorID_ common	Pollutant Units	MACT Floor FuelCat	Metal Furnace?	Average of Test Runs	Number of Test Runs	Rank	Test Data in Top 12pct
INTateLyleSagamore	21B501	ng/dscm @ 7% O2	Gas 2		3.18E-03	3	2	NO
WVMountainStateCarbonFollansbee	S1	ng/dscm @ 7% O2	Gas 2		5.73E-03	3	3	NO
LAShellChemicaGeismar	Furnace F-S801	ng/dscm @ 7% O2	Gas 2		1.15E-02	3	4	NO
MDSeverstalSparrows	1BLR (No. 1 Boiler)	ng/dscm @ 7% O2	Gas 2		2.10E-02	3	5	NO
CTElectricBoat	EMU 17	ng/dscm @ 7% O2	Liquid		1.09E-03	3	1	YES
NYConEd59thStStationNewYork	Boiler 118	ng/dscm @ 7% O2	Liquid		1.10E-03	3	2	YES
TNMilanArmyAmmunitionPlant	D88L-1, Source #27-0010-86	ng/dscm @ 7% O2	Liquid		2.36E-03	3	3	NO
SCGPChemRussellville	FO Boiler	ng/dscm @ 7% O2	Liquid		2.44E-03	3	4	NO
MEFPLEnergyWyman	Unit #5	ng/dscm @ 7% O2	Liquid		3.66E-03	3	5	NO
MIConsumerEnergyCo-Campbell	EUAUXBLR12	ng/dscm @ 7% O2	Liquid		4.29E-03	3	6	NO
INUSSteelGaryWorks	O4B10459	ng/dscm @ 7% O2	Liquid		4.97E-03	3	7	NO
NJVinelandMuniElectric-HowardDown	Unit 9	ng/dscm @ 7% O2	Liquid		5.65E-03	3	8	NO
MNGPDuluth	EU33 Boiler #3	ng/dscm @ 7% O2	Liquid		1.03E-02	3	9	NO
VANewportNewsShipbuildingDryDock	78-E1	ng/dscm @ 7% O2	Liquid		1.16E-02	3	10	NO
PABoeingRidleyPark	033	ng/dscm @ 7% O2	Liquid		1.47E-02	3	11	NO
NCInvistaHwy421	B7600	ng/dscm @ 7% O2	Liquid		1.62E-02	3	12	NO

APPENDIX G-2 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Fuel Type for Alternative Solid Waste Definition

Table 5-D/F Floor
by Fuel - TEQ

FacilityID	CombustorID_ common	Pollutant Units	MACT Floor FuelCat	Metal Furnace?	Average of Test Runs	Number of Test Runs	Rank	Test Data in Top 12pct
TNInvistaChatt anooga	EU003 - Vaporizer #2	ng/dscm @ 7% O2	Liquid		5.16E-02	3	13	NO
SCDAKAmeric as	P8F	ng/dscm @ 7% O2	Liquid		2.17E-01	3	14	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
FLUSSugarCorp	Boiler No. 7	CO	Biomass	Dutch Oven/Susp. Burner	1.9.E+01	1	YES
WAGraysHarbor Paper	No. 6 Boiler (EU2)	CO	Biomass	Dutch Oven/Susp. Burner	2.6.E+02	2	YES
FLSugarCaneGrowersCoop	Boiler No. 8	CO	Biomass	Dutch Oven/Susp. Burner	3.2.E+02	3	NO
ORRosboroSpringfield	DV 01.1	CO	Biomass	Dutch Oven/Susp. Burner	4.1.E+02	4	NO
FLUSSugarCorp	Boiler No. 8	CO	Biomass	Dutch Oven/Susp. Burner	4.5.E+02	5	NO
MNNorbordMinnesota	Konus No. 1	CO	Biomass	Dutch Oven/Susp. Burner	9.6.E+02	6	NO
MNNorbordMinnesota	Konus No. 2	CO	Biomass	Dutch Oven/Susp. Burner	9.6.E+02	7	NO
FLUSSugarCorp	Boiler No. 4	CO	Biomass	Dutch Oven/Susp. Burner	1.5.E+03	8	NO
FLSugarCaneGrowersCoop	Boiler No. 1	CO	Biomass	Dutch Oven/Susp. Burner	2.4.E+03	9	NO
FLOsceolaFarms	Boiler No. 3	CO	Biomass	Dutch Oven/Susp. Burner	4.3.E+03	10	NO
FLUSSugarCorp	Boiler No. 1	CO	Biomass	Dutch Oven/Susp. Burner	7.4.E+03	11	NO
FLOsceolaFarms	Boiler No. 6	CO	Biomass	Dutch Oven/Susp. Burner	7.5.E+03	12	NO
FLUSSugarCorp	Boiler No. 2	CO	Biomass	Dutch Oven/Susp. Burner	2.0.E+04	13	NO
NDCargillWestFargo	Foster Wheeler Boiler (EU43)	CO	Biomass	FB	3.6.E+03	1	YES
KYWeyerhaeuserEKY	MP 01-01	CO	Biomass	Fuel Cell	5.7.E+01	1	YES
KYWeyerhaeuserEKY	MP 01-03	CO	Biomass	Fuel Cell	5.7.E+01	2	YES

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
ARWeyerhaeuser DierksMill	SN-45	CO	Biomass	Fuel Cell	6.2.E+01	3	YES
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Biomass	Fuel Cell	1.2.E+02	4	YES
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Biomass	Fuel Cell	1.9.E+02	5	YES
GAADMLocation 551	630-Wellons	CO	Biomass	Fuel Cell	3.7.E+02	6	NO
ORWeyerhaeuserCoWarrentonLumberMill	3-HFB	CO	Biomass	Fuel Cell	4.5.E+02	7	NO
ARAnthonyForest Products	SN-16	CO	Biomass	Fuel Cell	5.4.E+02	8	NO
ARAnthonyForest Products	SN-12	CO	Biomass	Fuel Cell	6.5.E+02	9	NO
TXNorbordTexas Nacogdoches	Konus No. 1	CO	Biomass	Fuel Cell	1.2.E+03	10	NO
TXNorbordTexas Nacogdoches	Konus No. 2	CO	Biomass	Fuel Cell	1.2.E+03	11	NO
IDChilcoLakeSawmill	HFB1	CO	Biomass	Stoker/SlopedGrate/Other	5.1.E+01	1	YES
ARWestFraserHuttig	SN-24	CO	Biomass	Stoker/SlopedGrate/Other	6.5.E+01	2	YES
MILPCSagola	TOH-Wood	CO	Biomass	Stoker/SlopedGrate/Other	6.8.E+01	3	YES
INConsolidatedGrainandBarge	P17B	CO	Biomass	Stoker/SlopedGrate/Other	8.7.E+01	4	YES
INConsolidatedGrainandBarge	P17C	CO	Biomass	Stoker/SlopedGrate/Other	8.7.E+01	5	YES
MNAndersonCorpBayport	Boiler 11 EU620	CO	Biomass	Stoker/SlopedGrate/Other	9.3.E+01	6	YES
MNAndersonCorpBayport	Boiler 12 EU621	CO	Biomass	Stoker/SlopedGrate/Other	1.0.E+02	7	YES
MSGPNNewAugusta	AA-015 Power Boiler	CO	Biomass	Stoker/SlopedGrate/Other	1.0.E+02	8	YES
ALMeadwestvacocottontown46	No.3 Wood Residue Boiler	CO	Biomass	Stoker/SlopedGrate/Other	1.2.E+02	9	YES

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_ comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
MSShuqualakLumber	Boiler 4 (AA-108)	CO	Biomass	Stoker/SlopedGrate/Other	1.2.E+02	10	NO
OHAkronThermalEnergy	Unit #2 (B004)	CO	Biomass	Stoker/SlopedGrate/Other	1.3.E+02	11	NO
ORBlueHeronPaper	G Boiler	CO	Biomass	Stoker/SlopedGrate/Other	1.5.E+02	12	NO
MIWhitePineElectric	IBW Boiler	CO	Biomass	Stoker/SlopedGrate/Other	1.5.E+02	13	NO
ALWestervelt	Teaford - Unit 003	CO	Biomass	Stoker/SlopedGrate/Other	1.6.E+02	14	NO
ALIPCourtland	No. 1 Combination Boiler / 11CU101	CO	Biomass	Stoker/SlopedGrate/Other	1.6.E+02	15	NO
IDRileyCreekLumber	HFB1	CO	Biomass	Stoker/SlopedGrate/Other	1.6.E+02	16	NO
ARDelticTimberWaldo	Wood Fired Boiler No. 1 (SN-13)	CO	Biomass	Stoker/SlopedGrate/Other	2.0.E+02	17	NO
MNDESPHansO Nyman	EU007	CO	Biomass	Stoker/SlopedGrate/Other	2.0.E+02	18	NO
GAADMLocation 551	B115A-North Hurst	CO	Biomass	Stoker/SlopedGrate/Other	2.3.E+02	19	NO
TXAnthonyForest Prod-ATL	EP 11.1 Hurst	CO	Biomass	Stoker/SlopedGrate/Other	2.3.E+02	20	NO
ARLeolaLumber Mill	SN-01A	CO	Biomass	Stoker/SlopedGrate/Other	2.4.E+02	21	NO
ALMeadwestvaco Cottonton46	No.2 Wood Residue Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.6.E+02	22	NO
ARDelticTimberWaldo	Wood Fired Boiler No. 2 (SN-14)	CO	Biomass	Stoker/SlopedGrate/Other	2.7.E+02	23	NO
GARayonierBaxley	PB02	CO	Biomass	Stoker/SlopedGrate/Other	2.7.E+02	24	NO
GAADMLocation 551	B115B-South Hurst	CO	Biomass	Stoker/SlopedGrate/Other	2.7.E+02	25	NO
ARPotlatchForest Warren	Wellons Boiler	CO	Biomass	Stoker/SlopedGrate/Other	2.9.E+02	26	NO
ARGBPMorrilton	SN-04	CO	Biomass	Stoker/SlopedGrate/Other	2.9.E+02	27	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
ORJeldWenKlamanthFalls	BLRG	CO	Biomass	Stoker/SlopedGrate/Other	3.0.E+02	28	NO
TXAnthonyForestProd-ATL	EP 10.1 Superior	CO	Biomass	Stoker/SlopedGrate/Other	3.0.E+02	29	NO
FLGPPalatka	EU16	CO	Biomass	Stoker/SlopedGrate/Other	3.0.E+02	30	NO
GARayonierJesupMill	PB03	CO	Biomass	Stoker/SlopedGrate/Other	3.5.E+02	31	NO
FLSmurfit-StoneARLeolaLumberMill	5PB SN-01B	CO	Biomass	Stoker/SlopedGrate/Other	3.9.E+02	32	NO
ALWestervelt	Wellons - Unit 001	CO	Biomass	Stoker/SlopedGrate/Other	4.3.E+02	34	NO
LAWeyerhaeuserDodson	ES-017 WFB	CO	Biomass	Stoker/SlopedGrate/Other	4.3.E+02	35	NO
ARWestFraserHuttig	SN-01	CO	Biomass	Stoker/SlopedGrate/Other	4.8.E+02	36	NO
MSGPBaySprings	AA-001 (Boiler No. 1)	CO	Biomass	Stoker/SlopedGrate/Other	5.5.E+02	37	NO
TXwestfraser	Boiler-1	CO	Biomass	Stoker/SlopedGrate/Other	5.7.E+02	38	NO
MSGPBaySprings	AA-003 (Boiler No. 2)	CO	Biomass	Stoker/SlopedGrate/Other	5.9.E+02	39	NO
ARDelticTimberOla	Wood Fired Boiler at Ola Mill (SN-13)	CO	Biomass	Stoker/SlopedGrate/Other	6.2.E+02	40	NO
WILPHayward	K2 Line 1 Konus	CO	Biomass	Stoker/SlopedGrate/Other	7.4.E+02	41	NO
TXMeadWestvacoEvadale	21-2105	CO	Biomass	Stoker/SlopedGrate/Other	7.5.E+02	42	NO
ARWeyerhaeuserDierksMill	SN-32	CO	Biomass	Stoker/SlopedGrate/Other	8.2.E+02	43	NO
GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	CO	Biomass	Stoker/SlopedGrate/Other	9.2.E+02	44	NO
ARGBPMorrilton	SN-02	CO	Biomass	Stoker/SlopedGrate/Other	1.1.E+03	45	NO
WILPHayward	K1 Line 1 Konus	CO	Biomass	Stoker/SlopedGrate/Other	1.2.E+03	46	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_ comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
LAHoodIndustrie s	EQT001 (wood-fired boiler No. 1)	CO	Biomass	Stoker/SlopedG rate/Other	1.2.E+03	47	NO
LAGPPortHudson	EQT0099 - Combination Boiler No. 1	CO	Biomass	Stoker/SlopedG rate/Other	1.3.E+03	48	NO
IDRileyCreekLumber	HFB2	CO	Biomass	Stoker/SlopedG rate/Other	1.3.E+03	49	NO
ALManningtonWoodFloors	BB01	CO	Biomass	Stoker/SlopedG rate/Other	1.3.E+03	50	NO
ALManningtonWoodFloors	BB02	CO	Biomass	Stoker/SlopedG rate/Other	1.3.E+03	51	NO
LABoiseCascadeOakdale	B-1	CO	Biomass	Stoker/SlopedG rate/Other	1.4.E+03	52	NO
LAWestFraserJoyce	74A	CO	Biomass	Stoker/SlopedG rate/Other	1.6.E+03	53	NO
WILPHayward	K4 Line 2 Konus	CO	Biomass	Stoker/SlopedG rate/Other	1.6.E+03	54	NO
LAWestFraserJoyce	75A	CO	Biomass	Stoker/SlopedG rate/Other	1.7.E+03	55	NO
IDMoyieSpringsLumber420	HFB1	CO	Biomass	Stoker/SlopedG rate/Other	1.9.E+03	56	NO
MSWeyerhaeuserBruce	AA-001 No. 1 Boiler	CO	Biomass	Stoker/SlopedG rate/Other	2.0.E+03	57	NO
LAHoodIndustrie s	EQT002 (wood-fired boiler No. 2)	CO	Biomass	Stoker/SlopedG rate/Other	2.3.E+03	58	NO
LAWestFraserJoyce	74B	CO	Biomass	Stoker/SlopedG rate/Other	2.3.E+03	59	NO
WILPHayward	K3 Line 2 Konus	CO	Biomass	Stoker/SlopedG rate/Other	2.4.E+03	60	NO
MSWeyerhaeuser1398	Boiler No. 1	CO	Biomass	Stoker/SlopedG rate/Other	2.9.E+03	61	NO
GAPCAValdosta	1005	CO	Biomass	Stoker/SlopedG rate/Other	3.4.E+03	62	NO
GAPCAValdosta	1006	CO	Biomass	Stoker/SlopedG rate/Other	3.4.E+03	63	NO
HIPuuneneSugar Mill	Boiler 1	CO	Biomass	Stoker/SlopedG rate/Other	3.7.E+03	64	NO
HIPuuneneSugar Mill	Boiler 2	CO	Biomass	Stoker/SlopedG rate/Other	3.7.E+03	65	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_ comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
ORBBSMMedford	B1	CO	Biomass	Stoker/SlopedGrate/Other	3.9.E+03	66	NO
ORBBSMMedford	B2	CO	Biomass	Stoker/SlopedGrate/Other	3.9.E+03	67	NO
ORBBSMMedford	B3	CO	Biomass	Stoker/SlopedGrate/Other	3.9.E+03	68	NO
WABoiseKettleFallsPlywood	B1	CO	Biomass	Stoker/SlopedGrate/Other	5.5.E+03	69	NO
GAWestFraserForkston	FOB1	CO	Biomass	Stoker/SlopedGrate/Other	9.5.E+03	70	NO
GAWestFraserForkston	FOB2	CO	Biomass	Stoker/SlopedGrate/Other	1.3.E+04	71	NO
IAADMCornProcessingCR	EU-530	CO	Coal	FB	8.3.E+00	1	YES
IAADMCornProcessingCR	EU-501B	CO	Coal	FB	1.8.E+01	2	YES
IAADMCornProcessingCR	EU-502A	CO	Coal	FB	2.2.E+01	3	YES
IAADMCornProcessingCR	EU-501A	CO	Coal	FB	3.0.E+01	4	YES
INPurdueUniversity	Boiler 5	CO	Coal	FB	3.1.E+01	5	YES
ILPolyOne	B1	CO	Coal	FB	3.9.E+01	6	NO
NCUNCCogen	ES-001	CO	Coal	FB	4.1.E+01	7	NO
NEADMLincoln	EU26 Coal Boiler	CO	Coal	FB	4.3.E+01	8	NO
ILBungeDanville	CFB Boiler	CO	Coal	FB	4.9.E+01	9	NO
IAADMCornProcessingCR	EU-502B	CO	Coal	FB	5.0.E+01	10	NO
IAUoflowa	EP7 Boiler 11	CO	Coal	FB	5.1.E+01	11	NO
IAArchersDanielsMidlandDesMoines	Asea Boiler #1	CO	Coal	FB	5.5.E+01	12	NO
ILDukeEnergyTuscola	Unit 3	CO	Coal	PC	5.5.E-02	1	YES
ILDukeEnergyTuscola	Unit 4	CO	Coal	PC	5.5.E-02	2	YES
ILDukeEnergyTuscola	Unit 1	CO	Coal	PC	5.7.E-02	3	YES
VAPhilipMorrisPark500	B2	CO	Coal	PC	1.4.E+00	4	YES
AZCatalystPaperSnowflake	Power Boiler #2 Coal	CO	Coal	PC	2.2.E+00	5	YES

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
OKGPMuskogee Mill	B-3	CO	Coal	PC	3.2.E+00	6	NO
ILPrairiePowerPearl	B1	CO	Coal	PC	6.8.E+00	7	NO
INTateLyleSagamore	31B1	CO	Coal	PC	6.8.E+00	8	NO
VAPhilipMorrisPark500	B3	CO	Coal	PC	8.8.E+00	9	NO
IAUofNorthernIowa	Boiler #3	CO	Coal	PC	1.0.E+01	10	NO
TNDuPontOldHickoryPlant	#20 Boiler	CO	Coal	PC	1.1.E+01	11	NO
INNewEnergy	Riley Boiler	CO	Coal	PC	1.2.E+01	12	NO
INNewEnergy	Riley Boiler	CO	Coal	PC	1.2.E+01	13	NO
NCBlueRidgePaper	G11040	CO	Coal	PC	1.3.E+01	14	NO
OKGPMuskogee Mill	B-4	CO	Coal	PC	1.4.E+01	15	NO
INAlcoaWarrick	Unit #3	CO	Coal	PC	1.4.E+01	16	NO
NCBlueRidgePaper	G11039	CO	Coal	PC	1.5.E+01	17	NO
NCBlueRidgePaper	G11038	CO	Coal	PC	1.6.E+01	18	NO
VASmurfitStone Westpt	PB08	CO	Coal	PC	1.6.E+01	19	NO
TNEastman_NO_CBIDATA	Boiler 30	CO	Coal	PC	1.8.E+01	20	NO
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	CO	Coal	PC	1.8.E+01	21	NO
IDTASCOPaul	Erie City Boiler	CO	Coal	PC	1.9.E+01	22	NO
VAPhilipMorrisMC	PC	CO	Coal	PC	2.0.E+01	23	NO
WYFMCGreenRiver	NS-1A	CO	Coal	PC	2.1.E+01	24	NO
SCInternationalPaperEastover	No. 1 Power Boiler	CO	Coal	PC	2.6.E+01	25	NO
OKGPMuskogee Mill	B-2	CO	Coal	PC	2.7.E+01	26	NO
WYGeneralChemical	GR-2-L (C BOILER)	CO	Coal	PC	3.0.E+01	27	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_ common	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
VAGPBigIsland2 703	PWR04 - No. 4 Power Boiler	CO	Coal	PC	3.4.E+01	28	NO
VAINVISTAWayn esboro	2-205 (B#2) Boiler #2	CO	Coal	PC	4.1.E+01	29	NO
INAlcoaWarrick	Unit #2	CO	Coal	PC	4.3.E+01	30	NO
PADomtarJohnso nburg	#81 Coal Boiler	CO	Coal	PC	6.8.E+01	31	NO
PADomtarJohnso nburg	#82 Coal Boiler	CO	Coal	PC	6.8.E+01	32	NO
NCBlueRidgePap er	G11037	CO	Coal	PC	7.5.E+01	33	NO
MITBSimonPowe rPlant	Unit 1	CO	Coal	PC	7.9.E+01	34	NO
MOAnheuserBus ch	Boiler 5	CO	Coal	PC	1.1.E+02	35	NO
WVPPGMartinsvi lle	R011- Boiler 3	CO	Coal	PC	1.3.E+02	36	NO
MDNewPage- Luke	No. 25	CO	Coal	PC	1.3.E+02	37	NO
MOAnheuserBus ch	Boiler 1	CO	Coal	PC	1.4.E+02	38	NO
ALIPCourtland	No.2 Combinati on Boiler / 11CU201	CO	Coal	PC	1.7.E+02	39	NO
INNotreDame	B-4	CO	Coal	Stoker/SlopedG rate/Other	4.3.E+00	1	YES
OHMortonSaltRitt man	B002 - Coal-Fired Boiler #2	CO	Coal	Stoker/SlopedG rate/Other	1.5.E+01	2	YES
WVDuPontWashi ngtonWorks	P05	CO	Coal	Stoker/SlopedG rate/Other	1.6.E+01	3	YES
OHApletonIdeas	Boiler 4 (B003)	CO	Coal	Stoker/SlopedG rate/Other	2.0.E+01	4	YES
OHAkronThermal Energy	Boiler #32 (B001)	CO	Coal	Stoker/SlopedG rate/Other	2.5.E+01	5	YES
PABellefieldPlant	Boiler 1	CO	Coal	Stoker/SlopedG rate/Other	2.5.E+01	6	YES
NCNC_DukeUniv ersity_Durham	7754-03	CO	Coal	Stoker/SlopedG rate/Other	2.8.E+01	7	NO
PABellefieldPlant	Boiler 5	CO	Coal	Stoker/SlopedG rate/Other	3.8.E+01	8	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
IAMuscatinePow erandWater	Unit 7	CO	Coal	Stoker/SlopedG rate/Other	4.2.E+01	9	NO
VAAUniversityofVir ginia	7103-1-01R	CO	Coal	Stoker/SlopedG rate/Other	4.4.E+01	10	NO
OHAppletonIdeas	Boiler 2 (B002)	CO	Coal	Stoker/SlopedG rate/Other	4.6.E+01	11	NO
PABayValleyFoodsPittsburgh	Boiler No. 3	CO	Coal	Stoker/SlopedG rate/Other	5.2.E+01	12	NO
PABayValleyFoodsPittsburgh	Boiler No. 4	CO	Coal	Stoker/SlopedG rate/Other	5.2.E+01	13	NO
KYISPCChemicals	0AA (Riley)	CO	Coal	Stoker/SlopedG rate/Other	5.2.E+01	14	NO
ILAbbottAbbottPa rk	Unit 5AP	CO	Coal	Stoker/SlopedG rate/Other	5.4.E+01	15	NO
MOColumbiaPow erPlant	Boiler Unit 6	CO	Coal	Stoker/SlopedG rate/Other	6.5.E+01	16	NO
MOColumbiaPow erPlant	Boiler Unit 7	CO	Coal	Stoker/SlopedG rate/Other	6.5.E+01	17	NO
NCNC_DukeUniv ersity_Durham	7754-02	CO	Coal	Stoker/SlopedG rate/Other	6.9.E+01	18	NO
VAAUniversityofVir ginia	7103-1-02R	CO	Coal	Stoker/SlopedG rate/Other	7.3.E+01	19	NO
PABellefieldPlant	Boiler 3	CO	Coal	Stoker/SlopedG rate/Other	7.6.E+01	20	NO
IAUofIowa	EP6 Boiler 10	CO	Coal	Stoker/SlopedG rate/Other	9.0.E+01	21	NO
WVATKRocketC enter	NB2766 W-17479- W (Boiler 17)	CO	Coal	Stoker/SlopedG rate/Other	9.0.E+01	22	NO
SCClemson	04-B04	CO	Coal	Stoker/SlopedG rate/Other	9.6.E+01	23	NO
OHBataviaTrans missions	Boiler 2 (B002)	CO	Coal	Stoker/SlopedG rate/Other	1.0.E+02	24	NO
NDMinnDakFarm ers	Babcock and Wilcox Boiler #5	CO	Coal	Stoker/SlopedG rate/Other	1.1.E+02	25	NO
PABayValleyFoodsPittsburgh	Boiler No. 1	CO	Coal	Stoker/SlopedG rate/Other	1.4.E+02	26	NO
PABayValleyFoodsPittsburgh	Boiler No. 2	CO	Coal	Stoker/SlopedG rate/Other	1.4.E+02	27	NO
VAAUniversityofVir ginia	7103-1-05	CO	Coal	Stoker/SlopedG rate/Other	1.5.E+02	28	NO
WYFMCGranger	UIN-14	CO	Coal	Stoker/SlopedG rate/Other	1.6.E+02	29	NO
WIHilmanyPape rsNicoletMill	B23	CO	Coal	Stoker/SlopedG rate/Other	2.1.E+02	30	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 9: CO Floor by Combustor

FacilityID	CombustorID_comm on	Pollutant_ Name	MACT Floor FuelCat	Combustor Design	ppm @3% O2	Rank	Test Data in Top 12pct
WIThilmayPape rsNicoletMill	B24	CO	Coal	Stoker/SlopedG rate/Other	2.1.E+02	31	NO
WYFMCGranger	UIN-15	CO	Coal	Stoker/SlopedG rate/Other	2.4.E+02	32	NO
MNADM CornDivi sion	Coal Boiler #1 EU049	CO	Coal	Stoker/SlopedG rate/Other	2.5.E+02	33	NO
MNADM CornDivi sion	Coal Boiler #2 EU050	CO	Coal	Stoker/SlopedG rate/Other	2.5.E+02	34	NO
MDNewPage- Luke	No. 24	CO	Coal	Stoker/SlopedG rate/Other	2.9.E+02	35	NO
OHCampbellsSo upCo	B001	CO	Coal	Stoker/SlopedG rate/Other	3.8.E+02	36	NO
OHCampbellsSo upCo	B002	CO	Coal	Stoker/SlopedG rate/Other	3.8.E+02	37	NO
TNCargillMemphi s	Stoker Boiler 8001	CO	Coal	Stoker/SlopedG rate/Other	5.5.E+02	38	NO
IDTASCOPaul	Babcock and Wilcox (B&W) Boiler	CO	Coal	Stoker/SlopedG rate/Other	5.8.E+02	39	NO
MNBlandinPaper EnergyCtr	#5 Boiler	CO	Coal	Stoker/SlopedG rate/Other	8.4.E+02	40	NO
MNBlandinPaper EnergyCtr	#6 Boiler	CO	Coal	Stoker/SlopedG rate/Other	8.4.E+02	41	NO
MIMortonSaltMan iste	No. 6 Boiler	CO	Coal	Stoker/SlopedG rate/Other	1.3.E+03	42	NO
IACargillEddyville	1.001	CO	Coal	Stoker/SlopedG rate/Other	4.4.E+03	43	NO
IACargillEddyville	1.002	CO	Coal	Stoker/SlopedG rate/Other	4.4.E+03	44	NO
IACargillEddyville	1.039	CO	Coal	Stoker/SlopedG rate/Other	4.4.E+03	45	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID_common	MACT Floor FuelCat	Combustor Design	Pollutant Units	Average of Test Runs	Rank	Test Data in Top 12pct
ORRosboroSpringfield	DV 01.1	Biomass	Dutch Oven/Susp. Burner	ng/dscm @ 7% O2	9.12E+00	1	YES
WAGraysHarborPaper	No. 6 Boiler (EU2)	Biomass	Dutch Oven/Susp. Burner	ng/dscm @ 7% O2	1.71E+01	2	NO
NDCargillWest Fargo	Foster Wheeler Boiler (EU43)	Biomass	FB	ng/dscm @ 7% O2	1.83E-01	1	YES
ARWeyerhaeuserDierksMill	SN-45	Biomass	Fuel Cell	ng/dscm @ 7% O2	1.79E-02	1	YES
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Biomass	Fuel Cell	ng/dscm @ 7% O2	3.19E-02	2	YES
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Biomass	Fuel Cell	ng/dscm @ 7% O2	1.67E-01	3	YES
ORWeyerhaeuserCoWarrentonLumberMill	3-HFB	Biomass	Fuel Cell	ng/dscm @ 7% O2	3.07E-01	4	YES
ARAnthonyForestProducts	SN-12	Biomass	Fuel Cell	ng/dscm @ 7% O2	5.65E-01	5	YES
ARPotlatchForestWarren	Wellons Boiler	Biomass	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	5.84E-02	1	YES
ARGBPMorrilton	SN-04	Biomass	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	1.76E+00	2	NO
GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Biomass	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	1.90E+00	3	NO
INPurdueUniversity	Boiler 5	Coal	FB	ng/dscm @ 7% O2	1.91E-03	1	YES
IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Coal	FB	ng/dscm @ 7% O2	1.66E-02	2	YES
IAUofIowa	EP7 Boiler 11	Coal	FB	ng/dscm @ 7% O2	9.59E-02	3	YES
IAADMCornProcessingCR	EU-501B	Coal	FB	ng/dscm @ 7% O2	9.77E-02	4	YES
ILPolyOne	B1	Coal	FB	ng/dscm @ 7% O2	1.50E-01	5	YES

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID_common	MACT Floor FuelCat	Combustor Design	Pollutant Units	Average of Test Runs	Rank	Test Data in Top 12pct
IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Coal	FB	ng/dscm @ 7% O2	2.37E-01	6	NO
ILBungeDanville	CFB Boiler	Coal	FB	ng/dscm @ 7% O2	3.42E-01	7	NO
NCUNCCogen	ES-001	Coal	FB	ng/dscm @ 7% O2	2.06E+00	8	NO
WVPPGMartinsville	R011-Boiler 3	Coal	PC	ng/dscm @ 7% O2	1.82E-02	1	YES
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Coal	PC	ng/dscm @ 7% O2	1.91E-02	2	NO
INTateLyleSagamore	31B1	Coal	PC	ng/dscm @ 7% O2	4.80E-02	3	NO
VASmurfitStoneWestpt	PB08	Coal	PC	ng/dscm @ 7% O2	1.59E-01	4	NO
TNEastman_NO_CBIDATA	Boiler 30	Coal	PC	ng/dscm @ 7% O2	2.70E-01	5	NO
MITBSimonPowerPlant	Unit 1	Coal	PC	ng/dscm @ 7% O2	6.21E-01	6	NO
IAUofNorthernIowa	Boiler #3	Coal	PC	ng/dscm @ 7% O2	9.00E-01	7	NO
VAINVISTAWaynesboro	2-205 (B#2) Boiler #2	Coal	PC	ng/dscm @ 7% O2	2.31E+00	8	NO
KYISPChemicals	0AA (Riley)	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	2.53E-03	1	YES
WINewPageBiron	B24	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	1.24E-02	2	NO
ILAbbottAbbottPark	Unit 5AP	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	1.51E-02	3	NO
INNotreDame	B-4	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	4.93E-02	4	NO
TNCargillMemphis	Stoker Boiler 8001	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	5.05E-02	5	NO
WVATKRocketCenter	NB2766 W-17479-W (Boiler 17)	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	9.69E-02	6	NO
OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	2.41E-01	7	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 10: D/F Total Mass Floor by Combustor

FacilityID	CombustorID_common	MACT Floor FuelCat	Combustor Design	Pollutant Units	Average of Test Runs	Rank	Test Data in Top 12pct
VANiversityof Virginia	7103-1-01R	Coal	Stoker/SlopedGrate/Other	ng/dscm @ 7% O2	3.75E+00	8	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID_common	MACT Floor FuelCat	Combustor Design	ng/dscm @7% O2	Number of Test Runs	Rank	Test Data in Top 12pct
ORRosboroSpringfield	DV 01.1	Biomass	Dutch Oven/Susp. Burner	9.53E-02	3	1	YES
WAGraysHarborPaper	No. 6 Boiler (EU2)	Biomass	Dutch Oven/Susp. Burner	3.67E-01	3	2	NO
NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Biomass	FB	1.09E-02	3	1	YES
WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Biomass	Fuel Cell	2.42E-04	3	1	YES
MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Biomass	Fuel Cell	3.35E-03	3	2	YES
ORWeyerhaeuserCoWarrentonLumberMill	3-HFB	Biomass	Fuel Cell	4.46E-03	1	3	YES
ARWeyerhaeuserDierksMill	SN-45	Biomass	Fuel Cell	8.48E-03	3	4	YES
ARAnthonyForestsProducts	SN-12	Biomass	Fuel Cell	1.03E-02	3	5	YES
ARGBPMorrilton	SN-04	Biomass	Stoker/SlopedGrate/Other	1.52E-05	3	1	YES
ARPotlatchForestsWarren	Wellons Boiler	Biomass	Stoker/SlopedGrate/Other	1.06E-02	3	2	NO
GAGPCelluloseBrunswick	U700 -- No. 4 Power Boiler	Biomass	Stoker/SlopedGrate/Other	2.59E-02	3	3	NO
INPurdueUniversity	Boiler 5	Coal	FB	9.33E-04	3	1	YES
IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Coal	FB	1.10E-03	3	2	YES
IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Coal	FB	3.13E-03	3	3	YES
IAUofIowa	EP7 Boiler 11	Coal	FB	3.56E-03	3	4	YES
ILPolyOne	B1	Coal	FB	7.37E-03	3	5	YES

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID_common	MACT Floor FuelCat	Combustor Design	ng/dscm @7% O2	Number of Test Runs	Rank	Test Data in Top 12pct
IAADMCornProcessingCR	EU-501B	Coal	FB	1.30E-02	3	6	NO
ILBungeDanville	CFB Boiler	Coal	FB	1.57E-02	3	7	NO
NCUNCCogen	ES-001	Coal	FB	3.42E-02	3	8	NO
WVPPGMartinsville	R011-Boiler 3	Coal	PC	2.12E-03	3	1	YES
NCMillerCoors	ES-2 Coal/No. 2 & 6 Fuel Oil Boiler	Coal	PC	2.43E-03	3	2	NO
VASmurfitStoneWestpt	PB08	Coal	PC	3.25E-03	3	3	NO
INTateLyleSagamore	31B1	Coal	PC	5.42E-03	3	4	NO
TNEastman_NO_CBIDATA	Boiler 30	Coal	PC	6.55E-03	3	5	NO
IAUofNorthernIowa	Boiler #3	Coal	PC	2.02E-02	3	6	NO
MITBSimonPowerPlant	Unit 1	Coal	PC	4.59E-02	3	7	NO
VAINVISTAWaynesboro	2-205 (B#2) Boiler #2	Coal	PC	1.21E-01	3	8	NO
WINewPageBiron	B24	Coal	Stoker/SlopedGrate/Other	1.52E-03	3	1	YES
ILAbbottAbbottPark	Unit 5AP	Coal	Stoker/SlopedGrate/Other	2.13E-03	3	2	NO
KYISPCChemicals	0AA (Riley)	Coal	Stoker/SlopedGrate/Other	2.85E-03	3	3	NO
WVATKRocketCenter	NB2766 W-17479-W (Boiler 17)	Coal	Stoker/SlopedGrate/Other	2.87E-03	3	4	NO
TNCargillMemphis	Stoker Boiler 8001	Coal	Stoker/SlopedGrate/Other	3.45E-03	3	5	NO
OHMortonSaltRitman	B002 - Coal-Fired Boiler #2	Coal	Stoker/SlopedGrate/Other	4.94E-03	3	6	NO
INNotreDame	B-4	Coal	Stoker/SlopedGrate/Other	7.18E-03	3	7	NO

APPENDIX G-3 Emission Test and Fuel Analysis Data Ranked for MACT Floor Analysis According to Combustor Design for Alternative Solid Waste Definition

Table 11: D/F TEQ Floor by Combustor

FacilityID	CombustorID_common	MACT Floor FuelCat	Combustor Design	ng/dscm @7% O2	Number of Test Runs	Rank	Test Data in Top 12pct
VANiversityofVirginia	7103-1-01R	Coal	Stoker/SlopedGrate/Other	3.55E-02	3	8	NO

Appendix G-4: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	TestID	TestDate_ common	Has Total Mass ND Data?	Total Mass PCDD/PCDF Unit	Test Burning Waste under Alt Defn?	Total Mass PCDD/PCDF	ln(value)
YES	Biomass	Dutch Oven/Susp. Burner	1	ORRosboroS pringfield	DV 01.1	M23-1	7/23/2009	DLL	ng/dscm @ 7% O2		1.34E+01	2.60E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	ORRosboroS pringfield	DV 01.1	M23-2	7/23/2009	DLL	ng/dscm @ 7% O2		6.47E+00	1.87E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	ORRosboroS pringfield	DV 01.1	M23-3	7/24/2009	DLL	ng/dscm @ 7% O2		7.48E+00	2.01E+00
YES	Biomass	FB	1	NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Sample #1	8/27/2009	DLL	ng/dscm @ 7% O2		4.76E-01	-7.42E-01
YES	Biomass	FB	1	NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Sample #2	8/29/2009	DLL	ng/dscm @ 7% O2		3.57E-02	-3.33E+00
YES	Biomass	FB	1	NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Sample #3	8/29/2009	DLL	ng/dscm @ 7% O2		3.76E-02	-3.28E+00
YES	Biomass	Fuel Cell	1	ARWeyerhaeuserDierksMi ll	SN-45	Sample #1	7/17/2009	DLL	ng/dscm @ 7% O2		2.01E-02	-3.91E+00
YES	Biomass	Fuel Cell	1	ARWeyerhaeuserDierksMi ll	SN-45	Sample #2	7/17/2009	DLL	ng/dscm @ 7% O2		3.85E-04	-7.86E+00
YES	Biomass	Fuel Cell	1	ARWeyerhaeuserDierksMi ll	SN-45	Sample #3	7/20/2009	DLL	ng/dscm @ 7% O2		3.31E-02	-3.41E+00
YES	Biomass	Fuel Cell	2	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Sample #1	8/12/2009	DLL	ng/dscm @ 7% O2		3.85E-02	-3.26E+00
YES	Biomass	Fuel Cell	2	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Sample #2	8/13/2009		ng/dscm @ 7% O2		3.78E-02	-3.28E+00

Appendix G-4: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	TestID	TestDate_ common	Has Total Mass ND Data?	Total Mass PCDD/PCDF Unit	Test Burning Waste under Alt Defn?	Total Mass PCDD/PCDF	ln(value)
YES	Biomass	Fuel Cell	2	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Sample #3	8/13/2009	DLL	ng/dscm @ 7% O2		1.94E-02	-3.94E+00
YES	Biomass	Fuel Cell	3	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Sample #1	8/4/2009	DLL	ng/dscm @ 7% O2		2.14E-01	-1.54E+00
YES	Biomass	Fuel Cell	3	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Sample #2	8/4/2009	DLL	ng/dscm @ 7% O2		1.36E-01	-2.00E+00
YES	Biomass	Fuel Cell	3	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Sample #3	8/4/2009	DLL	ng/dscm @ 7% O2		1.51E-01	-1.89E+00
YES	Biomass	Fuel Cell	4	ORWeyerhaeuserCoWarrantonLumber Mill	3-HFB	Sample #2	8/6/2009		ng/dscm @ 7% O2		3.07E-01	-1.18E+00
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	Sample #1	9/2/2009	DLL	ng/dscm @ 7% O2		4.97E-01	-6.99E-01
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	Sample #2	9/2/2009	DLL	ng/dscm @ 7% O2		3.58E-01	-1.03E+00
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	Sample #3	9/3/2009	DLL	ng/dscm @ 7% O2		8.40E-01	-1.75E-01
YES	Biomass	Stoker/SlopedGrate/Other	1	ARPotlatchForestWarren	Wellons Boiler	1	9/3/2009		ng/dscm @ 7% O2		9.07E-02	-2.40E+00
YES	Biomass	Stoker/SlopedGrate/Other	1	ARPotlatchForestWarren	Wellons Boiler	2	9/4/2009	DLL	ng/dscm @ 7% O2		2.70E-02	-3.61E+00
YES	Biomass	Stoker/SlopedGrate/Other	1	ARPotlatchForestWarren	Wellons Boiler	3	9/4/2009	DLL	ng/dscm @ 7% O2		5.76E-02	-2.85E+00
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	Sample #1	7/22/2009	DLL	ng/dscm @ 7% O2		2.18E-03	-6.13E+00

Appendix G-4: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	TestID	TestDate_common	Has Total Mass ND Data?	Total Mass PCDD/PCDF Unit	Test Burning Waste under Alt Defn?	Total Mass PCDD/PCDF	ln(value)
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	Sample #2	7/23/2009	DLL	ng/dscm @ 7% O2		1.74E-03	-6.35E+00
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	Sample #3	7/23/2009	DLL	ng/dscm @ 7% O2		1.82E-03	-6.31E+00
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Sample #1	6/4/2009	DLL	ng/dscm @ 7% O2		3.18E-02	-3.45E+00
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Sample #2	6/5/2009	DLL	ng/dscm @ 7% O2		1.51E-02	-4.19E+00
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Sample #3	6/5/2009	DLL	ng/dscm @ 7% O2		2.78E-03	-5.89E+00
YES	Coal	FB	3	IAUoflowa	EP7 Boiler 11	4	8/6/2009		ng/dscm @ 7% O2		9.96E-02	-2.31E+00
YES	Coal	FB	3	IAUoflowa	EP7 Boiler 11	5	8/6/2009		ng/dscm @ 7% O2		1.17E-01	-2.15E+00
YES	Coal	FB	3	IAUoflowa	EP7 Boiler 11	6	8/7/2009		ng/dscm @ 7% O2		7.11E-02	-2.64E+00
YES	Coal	FB	4	IAADMCornProcessingC R	EU-501B	Sample #1	8/11/2009		ng/dscm @ 7% O2		1.10E-01	-2.20E+00
YES	Coal	FB	4	IAADMCornProcessingC R	EU-501B	Sample #2	8/11/2009		ng/dscm @ 7% O2		7.60E-02	-2.58E+00
YES	Coal	FB	4	IAADMCornProcessingC R	EU-501B	Sample #3	8/12/2009		ng/dscm @ 7% O2		1.07E-01	-2.24E+00
YES	Coal	FB	5	ILPolyOne	B1	1	9/10/2009		ng/dscm @ 7% O2		1.26E-01	-2.07E+00
YES	Coal	FB	5	ILPolyOne	B1	2	9/11/2009		ng/dscm @ 7% O2		1.91E-01	-1.66E+00
YES	Coal	FB	5	ILPolyOne	B1	3	9/11/2009		ng/dscm @ 7% O2		1.32E-01	-2.03E+00

Appendix G-4: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	TestID	TestDate_ common	Has Total Mass ND Data?	Total Mass PCDD/PCDF Unit	Test Burning Waste under Alt Defn?	Total Mass PCDD/PCDF	ln(value)
YES	Coal	PC	1	WVPPGMartinsville	R011-Boiler3	Sample #1	7/22/2009	DLL	ng/dscm @ 7% O2		2.52E-02	-3.68E+00
YES	Coal	PC	1	WVPPGMartinsville	R011-Boiler3	Sample #2	7/23/2009	DLL	ng/dscm @ 7% O2		1.41E-02	-4.26E+00
YES	Coal	PC	1	WVPPGMartinsville	R011-Boiler3	Sample #3	7/23/2009	DLL	ng/dscm @ 7% O2		1.52E-02	-4.18E+00
YES	Coal	Stoker/SlopedGrate/Other	1	KYISPCchemicals	0AA (Riley)	Sample #1	11/17/2009		ng/dscm @ 7% O2		3.20E-03	-5.74E+00
YES	Coal	Stoker/SlopedGrate/Other	1	KYISPCchemicals	0AA (Riley)	Sample #2	11/17/2009		ng/dscm @ 7% O2		2.30E-03	-6.07E+00
YES	Coal	Stoker/SlopedGrate/Other	1	KYISPCchemicals	0AA (Riley)	Sample #3	11/18/2009		ng/dscm @ 7% O2		2.10E-03	-6.17E+00

Appendix G-5: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	TestID	TestDate_ common	Has Total Mass ND Data?	Total Mass PCDD/PCDF Unit	Test Burning Waste under Alt Defn?	Total Mass PCDD/PCDF	ln(value)
YES	Gas 1		1	SCMichelinS andySprings	B:02:01	Sample #1	9/10/2009	DLL	ng/dscm @ 7% O2		1.26E-01	-2.07E+00
YES	Gas 1		1	SCMichelinS andySprings	B:02:01	Sample #2	9/10/2009	DLL	ng/dscm @ 7% O2		1.15E-01	-2.17E+00
YES	Gas 1		1	SCMichelinS andySprings	B:02:01	Sample #3	9/10/2009	DLL	ng/dscm @ 7% O2		1.38E-01	-1.98E+00
YES	Gas 1	yes	1	ILUSSGranit eCity	No. 8 Galvanizing Line Furnace	Sample #1	8/25/2009	BDL	ng/dscm @ 7% O2		1.27E-02	-4.37E+00
YES	Gas 1	yes	1	ILUSSGranit eCity	No. 8 Galvanizing Line Furnace	Sample #2	8/25/2009	DLL	ng/dscm @ 7% O2		1.27E-02	-4.37E+00
YES	Gas 1	yes	1	ILUSSGranit eCity	No. 8 Galvanizing Line Furnace	Sample #3	8/26/2009	BDL	ng/dscm @ 7% O2		1.27E-02	-4.37E+00
YES	Gas 2		1	INTateLyleS agamore	21B501	Sample #1	8/25/2009	DLL	ng/dscm @ 7% O2		6.46E-02	-2.74E+00
YES	Gas 2		1	INTateLyleS agamore	21B501	Sample #2	8/26/2009	DLL	ng/dscm @ 7% O2		2.41E-02	-3.73E+00
YES	Gas 2		1	INTateLyleS agamore	21B501	Sample #3	8/27/2009	DLL	ng/dscm @ 7% O2		4.64E-02	-3.07E+00
YES	Liquid		1	NYConEd59t hStStationNe wYork	Boiler 118	Sample #1	8/19/2009	DLL	ng/dscm @ 7% O2		2.05E-03	-6.19E+00
YES	Liquid		1	NYConEd59t hStStationNe wYork	Boiler 118	Sample #2	8/19/2009	DLL	ng/dscm @ 7% O2		1.93E-03	-6.25E+00
YES	Liquid		1	NYConEd59t hStStationNe wYork	Boiler 118	Sample #3	8/19/2009	DLL	ng/dscm @ 7% O2		1.33E-03	-6.62E+00
YES	Liquid		2	CTElectric Boat	EMU 17	Sample #1	8/19/2009		ng/dscm @ 7% O2		9.90E-03	-4.62E+00

Appendix G-5: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	TestID	TestDate_ common	Has Total Mass ND Data?	Total Mass PCDD/PCDF Unit	Test Burning Waste under Alt Defn?	Total Mass PCDD/PCDF	ln(value)
YES	Liquid		2	CTElectric Boat	EMU 17	Sample #2	8/20/2009		ng/dscm @ 7% O2		8.80E-03	-4.73E+00
YES	Liquid		2	CTElectric Boat	EMU 17	Sample #3	8/20/2009		ng/dscm @ 7% O2		7.90E-03	-4.84E+00

Appendix G-6: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	TestID	Has TEQ ND Data?	Test Burning Waste under Alt Defn?	ng/dscm@7 % O2	ln(ng/dscm@7 % O2)
YES	Biomass	Dutch Oven/Susp. Burner	1	ORRosboroSpringfield	DV 01.1	M23-1	DLL		1.34E-01	-2.01E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	ORRosboroSpringfield	DV 01.1	M23-2	DLL		7.15E-02	-2.64E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	ORRosboroSpringfield	DV 01.1	M23-3	DLL		8.03E-02	-2.52E+00
YES	Biomass	FB	1	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Sample #1	DLL		2.74E-02	-3.60E+00
YES	Biomass	FB	1	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Sample #2	DLL		2.54E-03	-5.98E+00
YES	Biomass	FB	1	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Sample #3	DLL		2.58E-03	-5.96E+00
YES	Biomass	Fuel Cell	1	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Sample #1	DLL		2.45E-04	-8.31E+00
YES	Biomass	Fuel Cell	1	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Sample #2			2.71E-04	-8.21E+00
YES	Biomass	Fuel Cell	1	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	Sample #3	DLL		2.09E-04	-8.47E+00
YES	Biomass	Fuel Cell	2	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Sample #1	DLL		4.06E-03	-5.51E+00
YES	Biomass	Fuel Cell	2	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Sample #2	DLL		2.78E-03	-5.89E+00
YES	Biomass	Fuel Cell	2	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Sample #3	DLL		3.21E-03	-5.74E+00

Appendix G-6: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	TestID	Has TEQ ND Data?	Test Burning Waste under Alt Defn?	ng/dscm@7% O2	ln(ng/dscm@7% O2)
YES	Biomass	Fuel Cell	3	ORWeyerhaeuserCoWarrontonLumberMill	3-HFB	Sample #2			4.46E-03	-5.41E+00
YES	Biomass	Fuel Cell	4	ARWeyerhaeuserDierksMill	SN-45	Sample #1	DLL		1.47E-02	-4.22E+00
YES	Biomass	Fuel Cell	4	ARWeyerhaeuserDierksMill	SN-45	Sample #2	DLL		2.88E-05	-1.05E+01
YES	Biomass	Fuel Cell	4	ARWeyerhaeuserDierksMill	SN-45	Sample #3	DLL		1.07E-02	-4.54E+00
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	Sample #1	DLL		1.48E-02	-4.21E+00
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	Sample #2	DLL		5.51E-03	-5.20E+00
YES	Biomass	Fuel Cell	5	ARAnthonyForestProducts	SN-12	Sample #3	DLL		1.07E-02	-4.54E+00
YES	Biomass	Stoker/SlopedGrate/Other	1	ARGBPMorrilton	SN-04	1	DLL		2.20E-05	-1.07E+01
YES	Biomass	Stoker/SlopedGrate/Other	1	ARGBPMorrilton	SN-04	2			1.16E-05	-1.14E+01
YES	Biomass	Stoker/SlopedGrate/Other	1	ARGBPMorrilton	SN-04	3	DLL		1.20E-05	-1.13E+01
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	Sample #1	DLL		8.43E-04	-7.08E+00
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	Sample #2	DLL		9.55E-04	-6.95E+00
YES	Coal	FB	1	INPurdueUniversity	Boiler 5	Sample #3	DLL		1.00E-03	-6.91E+00

Appendix G-6: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	TestID	Has TEQ ND Data?	Test Burning Waste under Alt Defn?	ng/dscm@7% O2	ln(ng/dscm@7% O2)
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Sample #1	DLL		1.41E-03	-6.56E+00
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Sample #2	DLL		1.02E-03	-6.89E+00
YES	Coal	FB	2	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Sample #3	DLL		8.76E-04	-7.04E+00
YES	Coal	FB	3	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Sample #1			2.22E-03	-6.11E+00
YES	Coal	FB	3	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Sample #2			3.94E-03	-5.54E+00
YES	Coal	FB	3	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Sample #3			3.25E-03	-5.73E+00
YES	Coal	FB	4	IAUoflowa	EP7 Boiler 11	4			4.01E-03	-5.52E+00
YES	Coal	FB	4	IAUoflowa	EP7 Boiler 11	5			3.57E-03	-5.64E+00
YES	Coal	FB	4	IAUoflowa	EP7 Boiler 11	6			3.09E-03	-5.78E+00
YES	Coal	FB	5	ILPolyOne	B1	1			7.40E-03	-4.91E+00
YES	Coal	FB	5	ILPolyOne	B1	2			7.72E-03	-4.86E+00
YES	Coal	FB	5	ILPolyOne	B1	3			6.98E-03	-4.96E+00
YES	Coal	PC	1	WVPPGMartinville	R011-Boiler 3	Sample #1	DLL		2.44E-03	-6.02E+00
YES	Coal	PC	1	WVPPGMartinville	R011-Boiler 3	Sample #2	DLL		2.07E-03	-6.18E+00
YES	Coal	PC	1	WVPPGMartinville	R011-Boiler 3	Sample #3	DLL		1.86E-03	-6.29E+00

Appendix G-6: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	TestID	Has TEQ ND Data?	Test Burning Waste under Alt Defn?	ng/dscm@7 % O2	ln(ng/dscm@7 % O2)
YES	Coal	Stoker/SlopedGrate/Other	1	WINewPage Biron	B24	Sample #1	DLL		1.35E-03	-6.60E+00
YES	Coal	Stoker/SlopedGrate/Other	1	WINewPage Biron	B24	Sample #2	DLL		1.78E-03	-6.33E+00
YES	Coal	Stoker/SlopedGrate/Other	1	WINewPage Biron	B24	Sample #3	DLL		1.42E-03	-6.55E+00

Appendix G-7: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Top 12 pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	TestID	Has TEQ ND Data?	Test Burning Waste under Alt Defn?	ng/dscm@7% O2	ln(ng/dscm@7% O2)
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Sample #1			3.73E-03	-5.59E+00
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Sample #2			1.27E-03	-6.67E+00
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Sample #3			2.70E-03	-5.92E+00
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	M23-1	DLL		2.70E-03	-5.92E+00
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	M23-2	DLL		2.33E-03	-6.06E+00
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	M23-3	DLL		2.70E-03	-5.91E+00
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Sample #1	DLL		2.21E-03	-6.11E+00
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Sample #2	DLL		3.80E-03	-5.57E+00
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Sample #3	DLL		2.00E-03	-6.22E+00
YES	Liquid		1	CTElectricBoat	EMU 17	Sample #1			1.18E-03	-6.75E+00
YES	Liquid		1	CTElectricBoat	EMU 17	Sample #2			1.08E-03	-6.83E+00
YES	Liquid		1	CTElectricBoat	EMU 17	Sample #3			1.03E-03	-6.88E+00
YES	Liquid		2	NYConEd59thStStationNewYork	Boiler 118	Sample #1	DLL		1.28E-03	-6.66E+00
YES	Liquid		2	NYConEd59thStStationNewYork	Boiler 118	Sample #2	DLL		1.23E-03	-6.70E+00
YES	Liquid		2	NYConEd59thStStationNewYork	Boiler 118	Sample #3	DLL		7.90E-04	-7.14E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	11/13/2007			5.00E-03	-5.30E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/5/2009			2.00E-04	-8.52E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	8/5/2009			2.00E-04	-8.52E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	11/13/2007			4.10E-03	-5.50E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/6/2009			9.00E-04	-7.01E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	8/6/2009			9.00E-04	-7.01E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	11/13/2007			7.10E-03	-4.95E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/6/2009			5.00E-04	-7.60E+00
YES	Biomass			GAGPCelluloseBrunswick1	U700 -- No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	8/6/2009			5.00E-04	-7.60E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #1	4/22/2008			2.00E-03	-6.21E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #1	4/23/2008			6.00E-04	-7.42E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #1	8/8/2008			7.00E-03	-4.96E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #2	8/8/2008			9.00E-03	-4.71E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #2	4/22/2008			1.00E-03	-6.91E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #2	4/23/2008			8.00E-04	-7.13E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #3	4/23/2008			4.00E-04	-7.82E+00
YES	Biomass			MNAnderson2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #3	8/8/2008			1.30E-02	-4.34E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass			MNAnderson 2 CorpBayport	Boiler 11 EU620	Particulate Matter (PM) filterable	Sample #3	4/22/2008			2.00E-03	-6.21E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #1	8/8/2008			7.00E-03	-4.96E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #1	4/23/2008			6.00E-04	-7.42E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #1	4/22/2008			2.00E-03	-6.21E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #2	4/23/2008			8.00E-04	-7.13E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #2	4/22/2008			1.00E-03	-6.91E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #2	8/8/2008			9.00E-03	-4.71E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #3	8/8/2008			1.30E-02	-4.34E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #3	4/23/2008			4.00E-04	-7.82E+00
YES	Biomass			MNAnderson 3 CorpBayport	Boiler 12 EU621	Particulate Matter (PM) filterable	Sample #3	4/22/2008			2.00E-03	-6.21E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #1	11/10/2004			7.00E-04	-7.26E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #1	8/11/2009	ND		1.50E-03	-6.50E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #1	9/18/1996			2.00E-03	-6.21E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #2	8/11/2009			1.80E-03	-6.32E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #2	9/18/1996			2.00E-03	-6.21E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #2	11/10/2004			7.00E-04	-7.26E+00
YES	Biomass			WAWeyerhaeuser_Raymond 4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #3	9/18/1996			2.00E-03	-6.21E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass			WAWeyerhaeuser_Raymond4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #3	8/12/2009	ND		6.00E-04	-7.42E+00
YES	Biomass			WAWeyerhaeuser_Raymond4	Hog Fuel Boiler EU1	Particulate Matter (PM) filterable	Sample #3	11/10/2004			5.00E-04	-7.60E+00
YES	Biomass			ARPotlatchForestWarren5	Wellons Boiler	Particulate Matter (PM) filterable	1	9/9/2009			4.80E-03	-5.34E+00
YES	Biomass			ARPotlatchForestWarren5	Wellons Boiler	Particulate Matter (PM) filterable	2	9/9/2009			3.30E-03	-5.71E+00
YES	Biomass			ARPotlatchForestWarren5	Wellons Boiler	Particulate Matter (PM) filterable	3	9/10/2009			3.55E-02	-3.34E+00
YES	Biomass			ARPotlatchForestWarren5	Wellons Boiler	Particulate Matter (PM) filterable	Sample #1	8/8/2006			1.10E-03	-6.81E+00
YES	Biomass			ARPotlatchForestWarren5	Wellons Boiler	Particulate Matter (PM) filterable	Sample #2	8/8/2006			7.00E-04	-7.26E+00
YES	Biomass			ARPotlatchForestWarren5	Wellons Boiler	Particulate Matter (PM) filterable	Sample #3	8/8/2006			6.00E-04	-7.42E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #1	8/7/1997			2.43E-02	-3.72E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #1	12/5/2002			1.30E-03	-6.65E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #1	7/22/2009			3.19E-03	-5.75E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #2	8/7/1997			1.28E-02	-4.36E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #2	12/5/2002			1.50E-03	-6.50E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #2	7/23/2009			3.87E-03	-5.55E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #3	7/23/2009			4.17E-03	-5.48E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #3	8/7/1997			9.70E-03	-4.64E+00
YES	Biomass			ARWeyerhaeuserDierksMill6	SN-45	Particulate Matter (PM) filterable	Sample #3	12/5/2002			1.30E-03	-6.65E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	12/4/2002			5.40E-03	-5.22E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	8/11/1997			1.94E-02	-3.94E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	12/5/2001			1.10E-02	-4.51E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	9/29/2004			2.70E-03	-5.91E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	12/4/2003			2.30E-03	-6.07E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	11/21/1998			5.80E-03	-5.15E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	11/9/2000			3.50E-03	-5.65E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #1	12/10/1999			1.60E-02	-4.14E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	11/21/1998			5.80E-03	-5.15E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	12/10/1999			1.00E-02	-4.61E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	11/9/2000			1.70E-03	-6.38E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	12/4/2002			4.80E-03	-5.34E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	12/4/2003			1.50E-03	-6.50E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	9/29/2004			3.60E-03	-5.63E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	8/11/1997			1.47E-02	-4.22E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #2	12/5/2001			6.40E-03	-5.05E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi II	SN-32	Particulate Matter (PM) filterable	Sample #3	12/10/1999			1.50E-02	-4.20E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	12/4/2002			4.30E-03	-5.45E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	9/29/2004			4.90E-03	-5.32E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	12/4/2003			1.40E-03	-6.57E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	12/5/2001			2.74E-02	-3.60E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	8/11/1997			8.60E-03	-4.76E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	11/9/2000			1.80E-03	-6.32E+00
YES	Biomass		7	ARWeyerhaeuserDierksMi7 II	SN-32	Particulate Matter (PM) filterable	Sample #3	11/21/1998			4.20E-03	-5.47E+00
YES	Biomass		8	MSGPNewAugusta	AA-015 Power Boiler	Particulate Matter (PM) filterable	Sample #1	7/12/2006			2.80E-03	-5.88E+00
YES	Biomass		8	MSGPNewAugusta	AA-015 Power Boiler	Particulate Matter (PM) filterable	Sample #2	7/12/2006			1.00E-03	-6.91E+00
YES	Biomass		8	MSGPNewAugusta	AA-015 Power Boiler	Particulate Matter (PM) filterable	Sample #3	7/12/2006			1.60E-03	-6.44E+00
YES	Biomass		9	IDRileyCreekLumber	HFB1	Particulate Matter (PM) filterable	Sample #1	4/24/2003			3.04E-03	-5.80E+00
YES	Biomass		9	IDRileyCreekLumber	HFB1	Particulate Matter (PM) filterable	Sample #2	4/24/2003			1.85E-03	-6.29E+00
YES	Biomass		9	IDRileyCreekLumber	HFB1	Particulate Matter (PM) filterable	Sample #3	4/24/2003			1.45E-03	-6.53E+00
YES	Biomass		10	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	3/24/2005			4.30E-03	-5.45E+00
YES	Biomass		10	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	11/30/2007			1.60E-02	-4.14E+00
YES	Biomass		10	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	3/26/2005			3.40E-03	-5.68E+00
YES	Biomass		10	FLUSSugarCorp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	6/2/2006			1.90E-03	-6.27E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	1/10/2006			1.90E-02	-3.96E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	8/22/2006			1.01E-02	-4.60E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #1	1/5/2007			1.00E-02	-4.61E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	3/26/2005			6.80E-03	-4.99E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	6/2/2006			2.60E-03	-5.95E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	11/30/2007			1.10E-02	-4.51E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	1/10/2006			2.00E-02	-3.91E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	1/5/2007			8.00E-03	-4.83E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	8/22/2006			1.93E-02	-3.95E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #2	3/24/2005			3.40E-03	-5.68E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	8/22/2006			1.67E-02	-4.09E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	3/26/2005			7.80E-03	-4.85E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	1/5/2007			1.10E-02	-4.51E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	1/10/2006			2.40E-02	-3.73E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	3/24/2005			4.10E-03	-5.50E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	6/2/2006			2.20E-03	-6.12E+00
YES	Biomass		10	FLUSSugarC orp	Boiler No. 8	Particulate Matter (PM) filterable	Sample #3	11/30/2007			1.70E-02	-4.07E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		11	FLSmurfit-Stone	5PB	Particulate Matter (PM) filterable	Sample #1	7/10/2007			4.00E-03	-5.52E+00
YES	Biomass		11	FLSmurfit-Stone	5PB	Particulate Matter (PM) filterable	Sample #2	7/10/2007			1.00E-03	-6.91E+00
YES	Biomass		11	FLSmurfit-Stone	5PB	Particulate Matter (PM) filterable	Sample #3	7/10/2007			3.00E-03	-5.81E+00
YES	Biomass		12	WIDomtar2814	B11, S11	Particulate Matter (PM) filterable	Sample #1	8/29/2007			1.00E-03	-6.91E+00
YES	Biomass		12	WIDomtar2814	B11, S11	Particulate Matter (PM) filterable	Sample #2	8/29/2007			2.60E-03	-5.95E+00
YES	Biomass		12	WIDomtar2814	B11, S11	Particulate Matter (PM) filterable	Sample #3	8/29/2007			5.70E-03	-5.17E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	7/11/2003			3.80E-03	-5.57E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	8/5/2009			7.40E-03	-4.91E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	8/23/1999			9.40E-03	-4.67E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	2/26/1993			1.30E-03	-6.65E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	6/28/2005			4.00E-03	-5.52E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	2/22/2006			8.00E-03	-4.83E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #1	8/31/2007			7.80E-03	-4.85E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	8/5/2009			8.40E-03	-4.78E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	8/23/1999			1.30E-02	-4.34E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	2/26/1993			3.80E-03	-5.57E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	6/28/2005			4.00E-03	-5.52E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	2/22/2006			6.40E-03	-5.05E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	7/11/2003			3.90E-03	-5.55E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #2	8/31/2007			4.00E-04	-7.82E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	6/28/2005			5.00E-03	-5.30E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	2/22/2006			8.60E-03	-4.76E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	7/11/2003			2.90E-03	-5.84E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	8/31/2007			3.70E-03	-5.60E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	2/26/1993			4.90E-03	-5.32E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	8/23/1999			8.00E-03	-4.83E+00
YES	Biomass		13	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	Particulate Matter (PM) filterable	Sample #3	8/5/2009			4.40E-03	-5.43E+00
YES	Coal		1	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Particulate Matter (PM) filterable	Sample #1	6/3/2008			7.06E-04	-7.26E+00
YES	Coal		1	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Particulate Matter (PM) filterable	Sample #1	8/26/2009			2.00E-04	-8.52E+00
YES	Coal		1	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Particulate Matter (PM) filterable	Sample #2	6/3/2008			5.34E-04	-7.53E+00
YES	Coal		1	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Particulate Matter (PM) filterable	Sample #2	8/26/2009			2.00E-04	-8.52E+00
YES	Coal		1	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Particulate Matter (PM) filterable	Sample #3	6/3/2008			5.37E-04	-7.53E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		1	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Particulate Matter (PM) filterable	Sample #3	8/27/2009			2.00E-04	-8.52E+00
YES	Coal		2	IAUofNorthernIowa	Boiler #3	Particulate Matter (PM) filterable	4	10/6/2009			7.97E-04	-7.13E+00
YES	Coal		2	IAUofNorthernIowa	Boiler #3	Particulate Matter (PM) filterable	5	10/6/2009			6.03E-04	-7.41E+00
YES	Coal		2	IAUofNorthernIowa	Boiler #3	Particulate Matter (PM) filterable	6	10/7/2009			3.73E-04	-7.89E+00
YES	Coal		3	VAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	M027-1	9/17/2009			1.27E-03	-6.67E+00
YES	Coal		3	VAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	M027-2	9/17/2009			4.51E-04	-7.70E+00
YES	Coal		3	VAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	M027-3	9/18/2009			7.12E-04	-7.25E+00
YES	Coal		3	VAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	Sample #1	12/6/2007			9.00E-04	-7.01E+00
YES	Coal		3	VAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	Sample #2	12/6/2007			5.00E-04	-7.60E+00
YES	Coal		3	VAUniversityofVirginia	7103-1-01R	Particulate Matter (PM) filterable	Sample #3	12/6/2007			4.00E-04	-7.82E+00
YES	Coal		4	IAIAStateUniversityPowerPlant	B2	Particulate Matter (PM) filterable	Sample #1	3/27/2008			5.05E-04	-7.59E+00
YES	Coal		4	IAIAStateUniversityPowerPlant	B2	Particulate Matter (PM) filterable	Sample #2	3/27/2008			1.00E-03	-6.91E+00
YES	Coal		4	IAIAStateUniversityPowerPlant	B2	Particulate Matter (PM) filterable	Sample #3	3/27/2008			3.18E-04	-8.05E+00
YES	Coal		5	WIGreenBayPackagingMillDivision	Boiler B26-Coal Fired Boiler	Particulate Matter (PM) filterable	Sample #1	5/16/2006			1.07E-03	-6.84E+00
YES	Coal		5	WIGreenBayPackagingMillDivision	Boiler B26-Coal Fired Boiler	Particulate Matter (PM) filterable	Sample #2	5/16/2006			4.00E-05	-1.01E+01
YES	Coal		5	WIGreenBayPackagingMillDivision	Boiler B26-Coal Fired Boiler	Particulate Matter (PM) filterable	Sample #3	5/16/2006			8.10E-04	-7.12E+00
YES	Coal		6	TNCargillMemphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	1	8/5/2009			7.14E-04	-7.24E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal			TNCargillMe6 mphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	2	11/6/2009			7.81E-04	-7.15E+00
YES	Coal			TNCargillMe6 mphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	3	8/6/2009	DLL		6.40E-04	-7.35E+00
YES	Coal			TNCargillMe6 mphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	Sample #1	7/17/2007			2.10E-02	-3.86E+00
YES	Coal			TNCargillMe6 mphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	Sample #2	7/17/2007			1.78E-02	-4.03E+00
YES	Coal			TNCargillMe6 mphis	Stoker Boiler 8001	Particulate Matter (PM) filterable	Sample #3	7/17/2007			1.33E-02	-4.32E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #1	8/20/1996			1.69E-02	-4.08E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #1	11/9/2004			1.30E-03	-6.65E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #1	8/8/2000			6.40E-02	-2.75E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #1	11/10/2004			8.00E-04	-7.13E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #1	7/24/2008			4.80E-03	-5.34E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #2	7/24/2008			5.90E-03	-5.13E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #2	6/29/2004			1.86E-02	-3.98E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #2	11/10/2004			1.40E-03	-6.57E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #2	11/9/2004			2.30E-03	-6.07E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #2	8/20/1996			1.15E-02	-4.47E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #2	8/8/2000			2.27E-02	-3.79E+00
YES	Coal			TNEastman_NO_CBIDAT 7 A	Boiler 25	Particulate Matter (PM) filterable	Sample #3	6/29/2004			3.00E-03	-5.81E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID	Pollutant Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		7	TNEastman_NO_CBIDAT	Boiler 25	Particulate Matter (PM) filterable	Sample #3	11/11/2004			4.00E-04	-7.82E+00
YES	Coal		7	TNEastman_NO_CBIDAT	Boiler 25	Particulate Matter (PM) filterable	Sample #3	8/20/1996			5.21E-02	-2.95E+00
YES	Coal		7	TNEastman_NO_CBIDAT	Boiler 25	Particulate Matter (PM) filterable	Sample #3	8/8/2000			1.33E-02	-4.32E+00
YES	Coal		7	TNEastman_NO_CBIDAT	Boiler 25	Particulate Matter (PM) filterable	Sample #3	11/10/2004			1.80E-03	-6.32E+00
YES	Coal		7	TNEastman_NO_CBIDAT	Boiler 25	Particulate Matter (PM) filterable	Sample #3	7/24/2008			8.50E-03	-4.77E+00
YES	Coal		8	IAIAStateUnivPowerPlant	B1	Particulate Matter (PM) filterable	Sample #1	3/26/2008			1.00E-03	-6.91E+00
YES	Coal		8	IAIAStateUnivPowerPlant	B1	Particulate Matter (PM) filterable	Sample #2	3/26/2008			1.00E-03	-6.91E+00
YES	Coal		8	IAIAStateUnivPowerPlant	B1	Particulate Matter (PM) filterable	Sample #3	3/26/2008			1.00E-03	-6.91E+00
YES	Coal		9	OHSmartPapersHoldingsLC	B010	Particulate Matter (PM) filterable	Sample #1	8/11/2005			1.10E-03	-6.81E+00
YES	Coal		9	OHSmartPapersHoldingsLC	B010	Particulate Matter (PM) filterable	Sample #2	8/11/2005			5.00E-04	-7.60E+00
YES	Coal		9	OHSmartPapersHoldingsLC	B010	Particulate Matter (PM) filterable	Sample #3	8/11/2005			1.40E-03	-6.57E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #1	3/9/2005			1.20E-03	-6.73E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #1	3/10/2005			2.40E-03	-6.03E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #1	9/25/1997			1.23E-02	-4.40E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #1	5/17/2005			3.10E-03	-5.78E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #1	8/28/2001			1.31E-02	-4.34E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #1	7/12/1993			1.82E-02	-4.01E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID	Pollutant Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #2	7/12/1993			9.90E-03	-4.62E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #2	9/25/1997			5.90E-03	-5.13E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #2	8/28/2001			4.00E-03	-5.52E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #2	3/9/2005			1.60E-03	-6.44E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #2	5/17/2005			5.80E-03	-5.15E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #2	3/10/2005			9.30E-04	-6.98E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #3	3/9/2005			8.00E-04	-7.13E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #3	5/17/2005			2.70E-03	-5.91E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #3	9/25/1997			4.02E-03	-5.52E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #3	7/12/1993			1.52E-02	-4.19E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #3	3/10/2005			2.20E-03	-6.12E+00
YES	Coal		10	TNEastman_NO_CBIDAT	Boiler 27	Particulate Matter (PM) filterable	Sample #3	8/28/2001			5.00E-03	-5.30E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	1	9/22/2009			1.28E-03	-6.66E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	1	9/22/2009			1.28E-03	-6.66E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	2	9/22/2009			1.54E-03	-6.48E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	2	8/6/2009			1.19E-03	-6.74E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	3	9/23/2009			1.25E-03	-6.69E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	3	8/5/2009			1.68E-03	-6.39E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	Sample #1	9/12/2007			4.60E-03	-5.38E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	Sample #2	9/12/2007			3.00E-03	-5.81E+00
YES	Coal		11	WINewPage Biron	B24	Particulate Matter (PM) filterable	Sample #3	9/12/2007			3.60E-03	-5.63E+00
YES	Coal		12	IDTASCONa mpa	Riley Boiler	Particulate Matter (PM) filterable	Sample #1	1/12/2004			1.56E-03	-6.46E+00
YES	Coal		12	IDTASCONa mpa	Riley Boiler	Particulate Matter (PM) filterable	Sample #2	1/12/2004			1.43E-03	-6.55E+00
YES	Coal		12	IDTASCONa mpa	Riley Boiler	Particulate Matter (PM) filterable	Sample #3	1/12/2004			1.35E-03	-6.61E+00
YES	Coal		13	INSABICInnovativePlastics	01-001 BW1 Boiler	Particulate Matter (PM) filterable	Sample #1	4/7/2005			1.50E-03	-6.50E+00
YES	Coal		13	INSABICInnovativePlastics	01-001 BW1 Boiler	Particulate Matter (PM) filterable	Sample #1	6/28/2006			1.60E-03	-6.44E+00
YES	Coal		13	INSABICInnovativePlastics	01-001 BW1 Boiler	Particulate Matter (PM) filterable	Sample #2	6/28/2006			9.00E-04	-7.01E+00
YES	Coal		13	INSABICInnovativePlastics	01-001 BW1 Boiler	Particulate Matter (PM) filterable	Sample #2	4/7/2005			9.00E-04	-7.01E+00
YES	Coal		13	INSABICInnovativePlastics	01-001 BW1 Boiler	Particulate Matter (PM) filterable	Sample #3	6/28/2006			3.00E-03	-5.81E+00
YES	Coal		13	INSABICInnovativePlastics	01-001 BW1 Boiler	Particulate Matter (PM) filterable	Sample #3	4/7/2005			2.20E-03	-6.12E+00
YES	Coal		14	INSABICInnovativePlastics	01-001 BW2 Boiler	Particulate Matter (PM) filterable	Sample #1	6/28/2006			1.60E-03	-6.44E+00
YES	Coal		14	INSABICInnovativePlastics	01-001 BW2 Boiler	Particulate Matter (PM) filterable	Sample #1	4/7/2005			1.50E-03	-6.50E+00
YES	Coal		14	INSABICInnovativePlastics	01-001 BW2 Boiler	Particulate Matter (PM) filterable	Sample #2	6/28/2006			9.00E-04	-7.01E+00
YES	Coal		14	INSABICInnovativePlastics	01-001 BW2 Boiler	Particulate Matter (PM) filterable	Sample #2	4/7/2005			9.00E-04	-7.01E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		14	INSABICInnovativePlastics	01-001 BW2 Boiler	Particulate Matter (PM) filterable	Sample #3	6/28/2006			3.00E-03	-5.81E+00
YES	Coal		14	INSABICInnovativePlastics	01-001 BW2 Boiler	Particulate Matter (PM) filterable	Sample #3	4/7/2005			2.20E-03	-6.12E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #1	11/2/2005			1.90E-03	-6.27E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #1	10/31/2005			3.70E-03	-5.60E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #1	11/3/2005			5.40E-02	-2.92E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #2	10/31/2005			2.40E-03	-6.03E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #2	11/2/2005			2.80E-03	-5.88E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #2	11/3/2005			2.71E-02	-3.61E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #3	10/31/2005			5.00E-03	-5.30E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #3	11/2/2005			5.00E-04	-7.60E+00
YES	Coal		15	MNAmericanCrystalCrockston	Boiler 1	Particulate Matter (PM) filterable	Sample #3	11/3/2005			1.76E-02	-4.04E+00
YES	Coal		16	IAADMCCornProcessingCR	EU-502B	Particulate Matter (PM) filterable	Sample #1	11/28/1994			1.80E-03	-6.32E+00
YES	Coal		16	IAADMCCornProcessingCR	EU-502B	Particulate Matter (PM) filterable	Sample #2	11/28/1994			3.80E-03	-5.57E+00
YES	Coal		16	IAADMCCornProcessingCR	EU-502B	Particulate Matter (PM) filterable	Sample #3	11/28/1994			1.00E-03	-6.91E+00
YES	Coal		17	WIWausau	# 5 Power Boiler (B24)	Particulate Matter (PM) filterable	Sample #1	7/24/2007	ND		1.34E-03	-6.62E+00
YES	Coal		17	WIWausau	# 5 Power Boiler (B24)	Particulate Matter (PM) filterable	Sample #2	7/24/2007			3.56E-03	-5.64E+00
YES	Coal		17	WIWausau	# 5 Power Boiler (B24)	Particulate Matter (PM) filterable	Sample #3	7/24/2007			2.02E-03	-6.20E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		18	AKDoyonUtilities_AK	4	Particulate Matter (PM) filterable	Sample #1	8/17/2005			2.00E-03	-6.21E+00
YES	Coal		18	AKDoyonUtilities_AK	4	Particulate Matter (PM) filterable	Sample #2	8/17/2005			2.30E-03	-6.07E+00
YES	Coal		18	AKDoyonUtilities_AK	4	Particulate Matter (PM) filterable	Sample #3	8/17/2005			2.70E-03	-5.91E+00
YES	Coal		19	INPurdueUniversity	Boiler 5	Particulate Matter (PM) filterable	M5-1	7/21/2009			2.79E-03	-5.88E+00
YES	Coal		19	INPurdueUniversity	Boiler 5	Particulate Matter (PM) filterable	M5-2	7/21/2009			2.82E-03	-5.87E+00
YES	Coal		19	INPurdueUniversity	Boiler 5	Particulate Matter (PM) filterable	M5-3	7/22/2009			2.77E-03	-5.89E+00
YES	Coal		19	INPurdueUniversity	Boiler 5	Particulate Matter (PM) filterable	Sample #1	11/29/2006			5.00E-03	-5.30E+00
YES	Coal		19	INPurdueUniversity	Boiler 5	Particulate Matter (PM) filterable	Sample #2	11/29/2006			1.00E-03	-6.91E+00
YES	Coal		19	INPurdueUniversity	Boiler 5	Particulate Matter (PM) filterable	Sample #3	11/29/2006			1.00E-03	-6.91E+00
YES	Coal		20	VAUniversity ofVirginia	7103-1-02R	Particulate Matter (PM) filterable	Sample #1	1/16/2007			4.00E-03	-5.52E+00
YES	Coal		20	VAUniversity ofVirginia	7103-1-02R	Particulate Matter (PM) filterable	Sample #2	1/16/2007			1.00E-03	-6.91E+00
YES	Coal		20	VAUniversity ofVirginia	7103-1-02R	Particulate Matter (PM) filterable	Sample #3	1/16/2007			2.00E-03	-6.21E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	1	8/26/2009			4.65E-03	-5.37E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	2	8/27/2009			1.73E-03	-6.36E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	3	8/27/2009			1.42E-03	-6.56E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #1	11/8/1994			9.10E-03	-4.70E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #1	9/19/2006			9.90E-03	-4.62E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID	Pollutant Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #1	9/19/2002			3.00E-03	-5.81E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #1	12/29/1993			2.16E-02	-3.84E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #2	9/19/2002	ND		2.70E-03	-5.91E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #2	11/8/1994			6.60E-03	-5.02E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #2	12/29/1993			1.41E-02	-4.26E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #2	9/19/2006			1.33E-02	-4.32E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #3	11/8/1994			7.10E-03	-4.95E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #3	9/19/2002			3.20E-03	-5.74E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #3	12/29/1993			1.56E-02	-4.16E+00
YES	Coal		21	TNEastman_NO_CBIDAT A	Boiler 30	Particulate Matter (PM) filterable	Sample #3	9/19/2006			9.30E-03	-4.68E+00
YES	Coal		22	ILRockIsland Arsenal	NBN 12602 (Boiler #1)	Particulate Matter (PM) filterable	Sample #1	3/13/2007			4.26E-03	-5.46E+00
YES	Coal		22	ILRockIsland Arsenal	NBN 12602 (Boiler #1)	Particulate Matter (PM) filterable	Sample #2	3/13/2007			2.43E-03	-6.02E+00
YES	Coal		22	ILRockIsland Arsenal	NBN 12602 (Boiler #1)	Particulate Matter (PM) filterable	Sample #3	3/13/2007			1.39E-03	-6.58E+00
YES	Coal		23	OHUofCincinnati	B108	Particulate Matter (PM) filterable	Sample #1	4/26/2006			2.90E-03	-5.84E+00
YES	Coal		23	OHUofCincinnati	B108	Particulate Matter (PM) filterable	Sample #2	4/26/2006			3.03E-03	-5.80E+00
YES	Coal		23	OHUofCincinnati	B108	Particulate Matter (PM) filterable	Sample #3	4/27/2005			2.40E-03	-6.03E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #1	10/25/2006			3.30E-03	-5.71E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #1	10/24/2000			5.90E-02	-2.83E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #1	10/19/2004			1.37E-02	-4.29E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #1	10/9/2002			3.60E-02	-3.32E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #2	10/24/2000			2.20E-02	-3.82E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #2	10/25/2006			4.20E-03	-5.47E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #2	10/19/2004			5.10E-03	-5.28E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #2	10/9/2002			4.40E-02	-3.12E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #3	10/19/2004			2.80E-03	-5.88E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #3	10/9/2002			3.40E-02	-3.38E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #3	10/24/2000			4.40E-02	-3.12E+00
YES	Coal		24	SCInternationalPaperEastover	No. 1 Power Boiler	Particulate Matter (PM) filterable	Sample #3	10/25/2006			1.20E-03	-6.73E+00
YES	Coal		25	WITHilmanyPapersNicoletMill	B23	Particulate Matter (PM) filterable	Sample #1	2/22/2006			4.89E-03	-5.32E+00
YES	Coal		25	WITHilmanyPapersNicoletMill	B23	Particulate Matter (PM) filterable	Sample #2	2/22/2006			1.58E-03	-6.45E+00
YES	Coal		25	WITHilmanyPapersNicoletMill	B23	Particulate Matter (PM) filterable	Sample #3	2/22/2006			2.34E-03	-6.06E+00
YES	Coal		26	WITHilmanyPapersNicoletMill	B24	Particulate Matter (PM) filterable	Sample #1	2/22/2006			4.89E-03	-5.32E+00
YES	Coal		26	WITHilmanyPapersNicoletMill	B24	Particulate Matter (PM) filterable	Sample #2	2/22/2006			1.58E-03	-6.45E+00
YES	Coal		26	WITHilmanyPapersNicoletMill	B24	Particulate Matter (PM) filterable	Sample #3	2/22/2006			2.34E-03	-6.06E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		27	IDAmalgamatedSugarCoTwinFalls	S-B1	Particulate Matter (PM) filterable	Sample #1	9/26/2006			2.01E-03	-6.21E+00
YES	Coal		27	IDAmalgamatedSugarCoTwinFalls	S-B1	Particulate Matter (PM) filterable	Sample #2	9/26/2006			3.26E-03	-5.72E+00
YES	Coal		27	IDAmalgamatedSugarCoTwinFalls	S-B1	Particulate Matter (PM) filterable	Sample #3	9/26/2006			4.10E-03	-5.50E+00
YES	Coal		28	ILPolyOne	B1	Particulate Matter (PM) filterable	1	9/9/2009			4.59E-03	-5.38E+00
YES	Coal		28	ILPolyOne	B1	Particulate Matter (PM) filterable	2	9/9/2009			5.32E-03	-5.24E+00
YES	Coal		28	ILPolyOne	B1	Particulate Matter (PM) filterable	3	9/10/2009			1.26E-02	-4.37E+00
YES	Coal		28	ILPolyOne	B1	Particulate Matter (PM) filterable	Sample #1	11/14/2006			3.20E-03	-5.74E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	8/14/2006			4.21E-02	-3.17E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	8/4/1994			3.30E-03	-5.71E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	12/14/1994			9.10E-03	-4.70E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	12/6/2006			4.50E-03	-5.40E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	9/29/1998			1.24E-02	-4.39E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	9/17/2002			8.30E-03	-4.79E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	3/15/2005			5.00E-03	-5.30E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #1	7/25/2006			6.19E-02	-2.78E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #2	12/6/2006			2.70E-03	-5.91E+00
YES	Coal		29	TNEastman_NO_CBIDAT A	Boiler 31	Particulate Matter (PM) filterable	Sample #2	9/17/2002			7.00E-03	-4.96E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID	Pollutant Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #2	12/15/1994			2.80E-03	-5.88E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #2	3/15/2005			5.00E-03	-5.30E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #2	8/4/1994			2.90E-03	-5.84E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #2	7/25/2006			2.20E-02	-3.82E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #2	8/14/2006			4.59E-02	-3.08E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #2	9/29/1998			6.51E-03	-5.03E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	12/6/2006			3.20E-03	-5.74E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	7/25/2006			4.15E-02	-3.18E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	8/14/2006			5.45E-02	-2.91E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	8/4/1994			4.50E-03	-5.40E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	12/15/1994			6.70E-03	-5.01E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	3/15/2005			4.80E-03	-5.34E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	9/17/2002			4.90E-03	-5.32E+00
YES	Coal		29	TNEastman_NO_CBIDAT	Boiler 31	Particulate Matter (PM) filterable	Sample #3	9/29/1998			9.68E-03	-4.64E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	1	8/4/2009			4.18E-03	-5.48E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	2	8/5/2009			3.30E-03	-5.71E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	3	8/5/2009			3.11E-03	-5.77E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	Sample #1	2/15/2006			5.40E-03	-5.22E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	Sample #1	2/22/2006			4.10E-03	-5.50E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	Sample #2	2/21/2006			6.60E-03	-5.02E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	Sample #2	2/23/2006			3.20E-03	-5.74E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	Sample #3	2/21/2006			7.00E-03	-4.96E+00
YES	Coal		30	IAUoflowa	EP7 Boiler 11	Particulate Matter (PM) filterable	Sample #3	2/23/2006			3.80E-03	-5.57E+00
YES	Coal		31	ILAbbottAbbotPark	Unit 5AP	Particulate Matter (PM) filterable	OTM28-1	8/4/2009			3.89E-03	-5.55E+00
YES	Coal		31	ILAbbottAbbotPark	Unit 5AP	Particulate Matter (PM) filterable	OTM28-2	8/5/2009			3.06E-03	-5.79E+00
YES	Coal		31	ILAbbottAbbotPark	Unit 5AP	Particulate Matter (PM) filterable	OTM28-3	8/5/2009			3.82E-03	-5.57E+00
YES	Coal		31	ILAbbottAbbotPark	Unit 5AP	Particulate Matter (PM) filterable	Sample #1	8/22/2007			2.10E-02	-3.86E+00
YES	Coal		31	ILAbbottAbbotPark	Unit 5AP	Particulate Matter (PM) filterable	Sample #2	8/22/2007			2.30E-02	-3.77E+00
YES	Coal		31	ILAbbottAbbotPark	Unit 5AP	Particulate Matter (PM) filterable	Sample #3	8/22/2007			1.90E-02	-3.96E+00
YES	Coal		32	VADukeEnergyNarrows	Boiler #2	Particulate Matter (PM) filterable	Sample #1	10/12/2004			4.00E-03	-5.52E+00
YES	Coal		32	VADukeEnergyNarrows	Boiler #2	Particulate Matter (PM) filterable	Sample #1	10/12/2004			2.40E-02	-3.73E+00
YES	Coal		32	VADukeEnergyNarrows	Boiler #2	Particulate Matter (PM) filterable	Sample #2	10/12/2004			1.20E-02	-4.42E+00
YES	Coal		32	VADukeEnergyNarrows	Boiler #2	Particulate Matter (PM) filterable	Sample #2	10/12/2004			3.00E-03	-5.81E+00
YES	Coal		32	VADukeEnergyNarrows	Boiler #2	Particulate Matter (PM) filterable	Sample #3	10/12/2004			4.00E-03	-5.52E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	In (lb/mmBtu)
YES	Coal		32	VADukeEnergyNarrows	Boiler #2	Particulate Matter (PM) filterable	Sample #3	10/12/2004			1.00E-02	-4.61E+00
YES	Coal		33	OHSmartPapersHoldingsLC	B020	Particulate Matter (PM) filterable	Sample #1	9/22/2005			6.50E-03	-5.04E+00
YES	Coal		33	OHSmartPapersHoldingsLC	B020	Particulate Matter (PM) filterable	Sample #2	9/22/2005			5.00E-04	-7.60E+00
YES	Coal		33	OHSmartPapersHoldingsLC	B020	Particulate Matter (PM) filterable	Sample #3	9/22/2005			4.20E-03	-5.47E+00
YES	Coal		34	AKDoyonUtilities_AK	7	Particulate Matter (PM) filterable	Sample #1	8/16/2005			3.30E-03	-5.71E+00
YES	Coal		34	AKDoyonUtilities_AK	7	Particulate Matter (PM) filterable	Sample #2	8/16/2005			4.20E-03	-5.47E+00
YES	Coal		34	AKDoyonUtilities_AK	7	Particulate Matter (PM) filterable	Sample #3	8/16/2005			4.00E-03	-5.52E+00
YES	Coal		35	VAGPBigIsland2703	PWR04 - No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #1	5/1/2007			4.40E-03	-5.43E+00
YES	Coal		35	VAGPBigIsland2703	PWR04 - No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #2	5/1/2007			3.80E-03	-5.57E+00
YES	Coal		35	VAGPBigIsland2703	PWR04 - No. 4 Power Boiler	Particulate Matter (PM) filterable	Sample #3	5/1/2007			3.80E-03	-5.57E+00
YES	Coal		36	VAUniversityofVirginia	7103-1-05	Particulate Matter (PM) filterable	Sample #1	4/4/2008			1.80E-03	-6.32E+00
YES	Coal		36	VAUniversityofVirginia	7103-1-05	Particulate Matter (PM) filterable	Sample #2	4/4/2008			1.80E-03	-6.32E+00
YES	Coal		36	VAUniversityofVirginia	7103-1-05	Particulate Matter (PM) filterable	Sample #3	4/4/2008			9.00E-03	-4.71E+00
YES	Coal		37	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #1	10/14/2004			2.00E-03	-6.21E+00
YES	Coal		37	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #1	4/14/2004			4.80E-02	-3.04E+00
YES	Coal		37	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #2	4/14/2004			2.60E-02	-3.65E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		37	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #2	10/14/2004			4.00E-03	-5.52E+00
YES	Coal		37	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #3	10/14/2004			7.00E-03	-4.96E+00
YES	Coal		37	VADukeEnergyNarrows	Boiler #3	Particulate Matter (PM) filterable	Sample #3	4/14/2004			2.90E-02	-3.54E+00
YES	Coal		38	INNotreDame	B-4	Particulate Matter (PM) filterable	Sample #1	8/26/2009			4.00E-03	-5.52E+00
YES	Coal		38	INNotreDame	B-4	Particulate Matter (PM) filterable	Sample #1	2/21/2006			1.56E-01	-1.86E+00
YES	Coal		38	INNotreDame	B-4	Particulate Matter (PM) filterable	Sample #2	8/26/2009			5.20E-03	-5.26E+00
YES	Coal		38	INNotreDame	B-4	Particulate Matter (PM) filterable	Sample #2	2/21/2006			1.05E-01	-2.26E+00
YES	Coal		38	INNotreDame	B-4	Particulate Matter (PM) filterable	Sample #3	8/27/2009			4.30E-03	-5.45E+00
YES	Coal		39	NCHanesDyeWinstonSalem	ES B01	Particulate Matter (PM) filterable	Sample #1	3/21/2007			6.40E-03	-5.05E+00
YES	Coal		39	NCHanesDyeWinstonSalem	ES B01	Particulate Matter (PM) filterable	Sample #2	3/21/2007			2.80E-03	-5.88E+00
YES	Coal		39	NCHanesDyeWinstonSalem	ES B01	Particulate Matter (PM) filterable	Sample #3	3/21/2007			4.70E-03	-5.36E+00
YES	Coal		40	NCHanesDyeWinstonSalem	ES B02	Particulate Matter (PM) filterable	Sample #1	3/21/2007			6.40E-03	-5.05E+00
YES	Coal		40	NCHanesDyeWinstonSalem	ES B02	Particulate Matter (PM) filterable	Sample #2	3/21/2007			2.80E-03	-5.88E+00
YES	Coal		40	NCHanesDyeWinstonSalem	ES B02	Particulate Matter (PM) filterable	Sample #3	3/21/2007			4.70E-03	-5.36E+00
YES	Coal		41	OKGPMuskokeeMill	B-3	Particulate Matter (PM) filterable	Sample #1	5/20/2003			7.00E-03	-4.96E+00
YES	Coal		41	OKGPMuskokeeMill	B-3	Particulate Matter (PM) filterable	Sample #2	5/20/2003			5.00E-03	-5.30E+00
YES	Coal		41	OKGPMuskokeeMill	B-3	Particulate Matter (PM) filterable	Sample #3	5/20/2003			2.00E-03	-6.21E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1		1	IAADMCInton	EUCOG-5 #2 Gas Fired Boiler	Particulate Matter (PM) filterable	Sample #1	3/5/2008			1.00E-04	-9.21E+00
YES	Gas 1		1	IAADMCInton	EUCOG-5 #2 Gas Fired Boiler	Particulate Matter (PM) filterable	Sample #2	3/7/2008			2.00E-04	-8.52E+00
YES	Gas 1		1	IAADMCInton	EUCOG-5 #2 Gas Fired Boiler	Particulate Matter (PM) filterable	Sample #3	3/10/2008			1.00E-04	-9.21E+00
YES	Gas 1		2	MSChevronPascagoula	F-2103	Particulate Matter (PM) filterable	Sample #1	3/27/2008			1.20E-04	-9.03E+00
YES	Gas 1		2	MSChevronPascagoula	F-2103	Particulate Matter (PM) filterable	Sample #2	3/27/2008			1.20E-04	-9.03E+00
YES	Gas 1		2	MSChevronPascagoula	F-2103	Particulate Matter (PM) filterable	Sample #3	3/27/2008			5.60E-04	-7.49E+00
YES	Gas 1		3	IACargillEddyville	84.000	Particulate Matter (PM) filterable	Sample #1	11/25/1997			3.14E-04	-8.06E+00
YES	Gas 1		3	IACargillEddyville	84.000	Particulate Matter (PM) filterable	Sample #2	11/25/1997			2.83E-04	-8.17E+00
YES	Gas 1		3	IACargillEddyville	84.000	Particulate Matter (PM) filterable	Sample #3	11/25/1997			2.52E-04	-8.29E+00
YES	Gas 1		4	IACargillEddyville	86.000	Particulate Matter (PM) filterable	Sample #1	11/25/1997			3.14E-04	-8.06E+00
YES	Gas 1		4	IACargillEddyville	86.000	Particulate Matter (PM) filterable	Sample #2	11/25/1997			2.83E-04	-8.17E+00
YES	Gas 1		4	IACargillEddyville	86.000	Particulate Matter (PM) filterable	Sample #3	11/25/1997			2.52E-04	-8.29E+00
YES	Gas 1		5	MABostonGeneratingMysticStation	EU-17	Particulate Matter (PM) filterable	Sample #1	8/14/2008			4.00E-04	-7.82E+00
YES	Gas 1		5	MABostonGeneratingMysticStation	EU-17	Particulate Matter (PM) filterable	Sample #2	8/14/2008			4.00E-04	-7.82E+00
YES	Gas 1		5	MABostonGeneratingMysticStation	EU-17	Particulate Matter (PM) filterable	Sample #3	8/14/2008			1.00E-04	-9.21E+00
YES	Gas 1		6	MSDuPontDeLisle1342	AH-202 (BLR 1342)	Particulate Matter (PM) filterable	Sample #1	3/29/2007			3.76E-04	-7.89E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1		6	MSDuPontDeLisle1342	AH-202 (BLR 1342)	Particulate Matter (PM) filterable	Sample #2	3/29/2007			2.27E-04	-8.39E+00
YES	Gas 1		6	MSDuPontDeLisle1342	AH-202 (BLR 1342)	Particulate Matter (PM) filterable	Sample #3	3/29/2007			3.45E-04	-7.97E+00
YES	Gas 1		7	IAKochNitrogen	Reformer-Aux Boiler	Particulate Matter (PM) filterable	Sample #1	1/4/2007			6.17E-04	-7.39E+00
YES	Gas 1		7	IAKochNitrogen	Reformer-Aux Boiler	Particulate Matter (PM) filterable	Sample #2	1/4/2007			2.03E-04	-8.50E+00
YES	Gas 1		7	IAKochNitrogen	Reformer-Aux Boiler	Particulate Matter (PM) filterable	Sample #3	1/5/2007			2.55E-04	-8.27E+00
YES	Gas 1		8	NCCampLejeuneMCB	C-AS-4151-16	Particulate Matter (PM) filterable	Sample #1	9/30/2009			3.10E-04	-8.08E+00
YES	Gas 1		8	NCCampLejeuneMCB	C-AS-4151-16	Particulate Matter (PM) filterable	Sample #2	10/1/2009			4.40E-04	-7.73E+00
YES	Gas 1		8	NCCampLejeuneMCB	C-AS-4151-16	Particulate Matter (PM) filterable	Sample #3	10/1/2009			5.10E-04	-7.58E+00
YES	Gas 1		9	IAGrainProcessing	Boiler #10	Particulate Matter (PM) filterable	Sample #1	7/24/2007			5.73E-04	-7.47E+00
YES	Gas 1		9	IAGrainProcessing	Boiler #10	Particulate Matter (PM) filterable	Sample #2	7/24/2007			5.73E-04	-7.47E+00
YES	Gas 1		9	IAGrainProcessing	Boiler #10	Particulate Matter (PM) filterable	Sample #3	7/24/2007			1.43E-04	-8.85E+00
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #1	6/11/2003			6.00E-04	-7.42E+00
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #2	6/11/2003			4.00E-04	-7.82E+00
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #3	6/11/2003			3.00E-04	-8.11E+00
YES	Gas 1		10	TNValeroMemphis	P021 - No. 10 Boiler	Particulate Matter (PM) filterable	Sample #3	12/11/2002			7.00E-04	-7.26E+00
YES	Gas 1		11	MSChevronPascagoula	F-8510	Particulate Matter (PM) filterable	Sample #1	11/6/2007			4.44E-04	-7.72E+00
YES	Gas 1		11	MSChevronPascagoula	F-8510	Particulate Matter (PM) filterable	Sample #2	11/6/2007			2.22E-04	-8.41E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1		11	MSChevronPascagoula	F-8510	Particulate Matter (PM) filterable	Sample #3	11/6/2007			6.38E-04	-7.36E+00
YES	Gas 1		12	MSDuPontDeLisle1342	AH-101 (BLR 1342)	Particulate Matter (PM) filterable	Sample #1	3/14/2008			5.72E-04	-7.47E+00
YES	Gas 1		12	MSDuPontDeLisle1342	AH-101 (BLR 1342)	Particulate Matter (PM) filterable	Sample #2	3/14/2008			4.15E-04	-7.79E+00
YES	Gas 1		12	MSDuPontDeLisle1342	AH-101 (BLR 1342)	Particulate Matter (PM) filterable	Sample #3	3/14/2008			3.61E-04	-7.93E+00
YES	Gas 1		13	MDUofMaryland	EU 001-4	Particulate Matter (PM) filterable	Sample #1	2/20/2002			4.98E-04	-7.60E+00
YES	Gas 1		13	MDUofMaryland	EU 001-4	Particulate Matter (PM) filterable	Sample #2	2/20/2002			3.98E-04	-7.83E+00
YES	Gas 1		13	MDUofMaryland	EU 001-4	Particulate Matter (PM) filterable	Sample #3	2/20/2002			5.98E-04	-7.42E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #1	2/28/2007			2.89E-02	-3.54E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #1	5/17/2007			1.00E-03	-6.91E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #1	5/15/2007			6.00E-04	-7.42E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #2	5/17/2007			1.00E-04	-9.21E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #2	2/28/2007			3.16E-02	-3.45E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #2	5/15/2007			3.10E-03	-5.78E+00
YES	Gas 1		14	TNValeroMemphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #3	5/15/2007			2.00E-04	-8.52E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Na me	TestID	TestDate_co mmon	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1		14	TNValeroMe mphis	P044-DHT 18 Stripper Reboiler Heater	Particulate Matter (PM) filterable	Sample #3	2/28/2007			2.81E-02	-3.57E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #1	5/16/2007			1.50E-03	-6.50E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #1	2/27/2007			1.08E-01	-2.23E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #1	5/15/2007			1.60E-03	-6.44E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #2	2/27/2007			1.20E-02	-4.42E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #2	5/15/2007			2.30E-03	-6.07E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #2	5/16/2007			1.00E-04	-9.21E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #3	5/16/2007			1.00E-04	-9.21E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #3	2/27/2007			1.24E-02	-4.39E+00
YES	Gas 1		15	TNValeroMe mphis	P043 - DHT 18 Reactor Feed Heater	Particulate Matter (PM) filterable	Sample #3	5/15/2007			4.80E-03	-5.34E+00
YES	Gas 1		16	NJSunocoW estville	Boiler #7	Particulate Matter (PM) filterable	Sample #1	10/11/2007			1.00E-03	-6.91E+00
YES	Gas 1		16	NJSunocoW estville	Boiler #7	Particulate Matter (PM) filterable	Sample #2	10/11/2007			3.00E-04	-8.11E+00
YES	Gas 1		16	NJSunocoW estville	Boiler #7	Particulate Matter (PM) filterable	Sample #3	10/11/2007			5.00E-04	-7.60E+00
YES	Gas 1		17	NJSunocoW estville	Boiler #6	Particulate Matter (PM) filterable	Sample #1	11/14/2007			4.81E-04	-7.64E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1		17	NJSunocoW estville	Boiler #6	Particulate Matter (PM) filterable	Sample #2	11/14/2007			4.36E-04	-7.74E+00
YES	Gas 1		17	NJSunocoW estville	Boiler #6	Particulate Matter (PM) filterable	Sample #3	11/14/2007			9.50E-04	-6.96E+00
YES	Gas 1		18	NJSunocoW estville	Boiler #5	Particulate Matter (PM) filterable	Sample #1	8/27/2008			9.21E-04	-6.99E+00
YES	Gas 1		18	NJSunocoW estville	Boiler #5	Particulate Matter (PM) filterable	Sample #2	8/28/2008			7.00E-04	-7.26E+00
YES	Gas 1		18	NJSunocoW estville	Boiler #5	Particulate Matter (PM) filterable	Sample #3	8/28/2008			2.48E-04	-8.30E+00
YES	Gas 1	yes		INArcelorMitt alBurnsHarb 1 or	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	1	9/25/2009			5.24E-06	-1.22E+01
YES	Gas 1	yes		INArcelorMitt alBurnsHarb 1 or	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	2	9/26/2009			3.73E-06	-1.25E+01
YES	Gas 1	yes		INArcelorMitt alBurnsHarb 1 or	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	3	9/26/2009			5.39E-06	-1.21E+01
YES	Gas 1	yes		INArcelorMitt alBurnsHarb 1 or	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	Sample #1	9/19/1997			1.40E-02	-4.27E+00
YES	Gas 1	yes		INArcelorMitt alBurnsHarb 1 or	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	Sample #2	9/19/1997			9.90E-03	-4.62E+00
YES	Gas 1	yes		INArcelorMitt alBurnsHarb 1 or	Hot Dip Coating Line Annealing Furnace	Particulate Matter (PM) filterable	Sample #3	9/19/1997			1.53E-02	-4.18E+00
YES	Gas 1	yes	2	INNucorSteel	Cold Mill Annealing	Particulate Matter (PM) filterable	M5-1	8/18/2009			1.39E-03	-6.58E+00
YES	Gas 1	yes	2	INNucorSteel	Cold Mill Annealing	Particulate Matter (PM) filterable	M5-2	8/18/2009			7.90E-04	-7.14E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Na me	TestID	TestDate _co mmon	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1	yes	2	INNucorSteel	Cold Mill Annealing	Particulate Matter (PM) filterable	M5-3	8/18/2009			9.28E-04	-6.98E+00
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Particulate Matter (PM) filterable	528-1	8/26/2009			8.21E-04	-7.10E+00
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Particulate Matter (PM) filterable	528-2	8/26/2009			2.33E-04	-8.36E+00
YES	Gas 2		1	LAShellChemicaGeismar	Furnace F-S801	Particulate Matter (PM) filterable	528-3	8/27/2009			2.06E-04	-8.49E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	8/29/2000			8.10E-03	-4.82E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	9/21/2007			5.50E-04	-7.51E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	8/10/2004			2.61E-02	-3.65E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	7/28/1998			6.00E-03	-5.12E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	11/9/1999			2.65E-02	-3.63E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	2/2/2000			3.18E-03	-5.75E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	10/27/1992			1.00E-02	-4.61E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	9/24/1994			1.44E-02	-4.24E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	8/28/2002			7.20E-03	-4.93E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #1	7/19/2000			3.10E-03	-5.78E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	8/29/2000			2.12E-02	-3.85E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	2/2/2000			3.92E-03	-5.54E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	9/21/2007			1.06E-03	-6.85E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	8/10/2004			3.76E-02	-3.28E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	9/24/1994			1.21E-02	-4.41E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	8/28/2002			6.70E-03	-5.01E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	10/27/1992			1.30E-02	-4.34E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	11/9/1999			2.11E-02	-3.86E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	7/28/1998			1.60E-03	-6.44E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #2	7/19/2000			2.70E-03	-5.91E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	10/27/1992			1.30E-02	-4.34E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	9/24/1994			2.94E-02	-3.53E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	8/29/2000			1.40E-03	-6.57E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	7/19/2000			7.00E-03	-4.96E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	9/21/2007			7.60E-04	-7.18E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	7/28/1998			2.40E-03	-6.03E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	8/10/2004			4.21E-02	-3.17E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	11/9/1999			2.56E-02	-3.67E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	8/28/2002			1.02E-02	-4.59E+00
YES	Gas 2		2	WIGPGreen Bay2818	B29 - Fluidized Bed Boiler #9	Particulate Matter (PM) filterable	Sample #3	2/2/2000			3.92E-03	-5.54E+00
YES	Liquid		1	TNMilanArmy AmmunitionPlant	D88L-1, Source #27-0010-86	Particulate Matter (PM) filterable	1	11/17/2009			7.19E-04	-7.24E+00
YES	Liquid		1	TNMilanArmy AmmunitionPlant	D88L-1, Source #27-0010-86	Particulate Matter (PM) filterable	2	11/17/2009			4.12E-04	-7.80E+00
YES	Liquid		1	TNMilanArmy AmmunitionPlant	D88L-1, Source #27-0010-86	Particulate Matter (PM) filterable	3	11/18/2009	DLL		4.02E-04	-7.82E+00
YES	Liquid		2	SCGPChem Russellville	FO Boiler	Particulate Matter (PM) filterable	Sample #1	8/26/2009			8.00E-04	-7.13E+00
YES	Liquid		2	SCGPChem Russellville	FO Boiler	Particulate Matter (PM) filterable	Sample #2	8/26/2009			5.00E-04	-7.60E+00
YES	Liquid		2	SCGPChem Russellville	FO Boiler	Particulate Matter (PM) filterable	Sample #3	8/26/2009			5.00E-04	-7.60E+00
YES	Liquid		3	NJSunocoW estville	Boiler #8	Particulate Matter (PM) filterable	Sample #1	11/20/2007			9.34E-04	-6.98E+00
YES	Liquid		3	NJSunocoW estville	Boiler #8	Particulate Matter (PM) filterable	Sample #2	11/20/2007			8.82E-05	-9.34E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid		3	NJSunocoW estville	Boiler #8	Particulate Matter (PM) filterable	Sample #3	11/20/2007			1.01E-03	-6.90E+00
YES	Liquid		4	PAConemaughPowerPlantNewFlorence	Aux Boiler B	Particulate Matter (PM) filterable	Sample #1	10/17/2006			1.30E-03	-6.65E+00
YES	Liquid		4	PAConemaughPowerPlantNewFlorence	Aux Boiler B	Particulate Matter (PM) filterable	Sample #2	10/17/2006			3.20E-04	-8.05E+00
YES	Liquid		4	PAConemaughPowerPlantNewFlorence	Aux Boiler B	Particulate Matter (PM) filterable	Sample #3	10/17/2006			1.00E-03	-6.91E+00
YES	Liquid		5	NJSunocoW estville	Boiler #6	Particulate Matter (PM) filterable	Sample #1	11/15/2007			8.01E-04	-7.13E+00
YES	Liquid		5	NJSunocoW estville	Boiler #6	Particulate Matter (PM) filterable	Sample #2	11/15/2007			9.65E-04	-6.94E+00
YES	Liquid		5	NJSunocoW estville	Boiler #6	Particulate Matter (PM) filterable	Sample #3	11/15/2007			1.30E-03	-6.65E+00
YES	Liquid		6	PACHerokee Pharm	SG-C, Title V Source ID 037	Particulate Matter (PM) filterable	Sample #1	5/21/1998			2.00E-03	-6.21E+00
YES	Liquid		6	PACHerokee Pharm	SG-C, Title V Source ID 037	Particulate Matter (PM) filterable	Sample #2	5/21/1998			1.30E-03	-6.65E+00
YES	Liquid		6	PACHerokee Pharm	SG-C, Title V Source ID 037	Particulate Matter (PM) filterable	Sample #3	5/21/1998			1.50E-03	-6.50E+00
YES	Liquid		7	NJSunocoW estville	Boiler #7	Particulate Matter (PM) filterable	Sample #1	12/19/2005			1.95E-03	-6.24E+00
YES	Liquid		7	NJSunocoW estville	Boiler #7	Particulate Matter (PM) filterable	Sample #2	12/19/2005			2.07E-03	-6.18E+00
YES	Liquid		7	NJSunocoW estville	Boiler #7	Particulate Matter (PM) filterable	Sample #3	12/19/2005			1.13E-03	-6.79E+00
YES	Liquid		8	PACHerokee Pharm	SG-B, Title V Source ID 036	Particulate Matter (PM) filterable	Sample #1	5/19/1998			2.20E-03	-6.12E+00
YES	Liquid		8	PACHerokee Pharm	SG-B, Title V Source ID 036	Particulate Matter (PM) filterable	Sample #2	5/19/1998			2.00E-03	-6.21E+00
YES	Liquid		8	PACHerokee Pharm	SG-B, Title V Source ID 036	Particulate Matter (PM) filterable	Sample #3	5/19/1998			1.20E-03	-6.73E+00

Appendix G-8: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NJSunocoW9estville	Boiler #5	Particulate Matter (PM) filterable	Sample #1	11/16/2007			2.08E-03	-6.18E+00
YES	Liquid			NJSunocoW9estville	Boiler #5	Particulate Matter (PM) filterable	Sample #2	11/16/2007			1.23E-03	-6.70E+00
YES	Liquid			NJSunocoW9estville	Boiler #5	Particulate Matter (PM) filterable	Sample #3	11/16/2007			2.15E-03	-6.14E+00
YES	Liquid			ALBP-10 Decatur24	AB-8301	Particulate Matter (PM) filterable	Sample #1	1/24/2001			4.51E-03	-5.40E+00
YES	Liquid			ALBP-10 Decatur24	AB-8301	Particulate Matter (PM) filterable	Sample #2	1/24/2001			9.91E-04	-6.92E+00
YES	Liquid			ALBP-10 Decatur24	AB-8301	Particulate Matter (PM) filterable	Sample #3	1/24/2001			1.40E-03	-6.57E+00

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	In (lb/mmBtu)
YES	Biomass		1	FLUSSugarC orp	Boiler No. 7	Mercury (Hg)	Sample #1	1/2/2003	ND		1.15E-07	-1.60E+01
YES	Biomass		1	FLUSSugarC orp	Boiler No. 7	Mercury (Hg)	Sample #2	1/2/2003	ND		9.08E-08	-1.62E+01
YES	Biomass		1	FLUSSugarC orp	Boiler No. 7	Mercury (Hg)	Sample #3	1/2/2003	ND		8.60E-08	-1.63E+01
YES	Biomass		2	FLSmurfit- Stone	5PB	Mercury (Hg)	Sample #1	7/10/2007			2.55E-07	-1.52E+01
YES	Biomass		2	FLSmurfit- Stone	5PB	Mercury (Hg)	Sample #3	7/10/2007			1.54E-07	-1.57E+01
YES	Biomass		3	NYIntlPaper Ticonderoga	PB1	Mercury (Hg)	Sample #1	9/16/1999	ND		2.36E-07	-1.53E+01
YES	Biomass		3	NYIntlPaper Ticonderoga	PB1	Mercury (Hg)	Sample #1	9/15/1999	ND		2.64E-07	-1.51E+01
YES	Biomass		3	NYIntlPaper Ticonderoga	PB1	Mercury (Hg)	Sample #2	9/20/1999	ND		2.17E-07	-1.53E+01
YES	Biomass		3	NYIntlPaper Ticonderoga	PB1	Mercury (Hg)	Sample #2	9/15/1999	ND		2.73E-07	-1.51E+01
YES	Biomass		3	NYIntlPaper Ticonderoga	PB1	Mercury (Hg)	Sample #3	9/16/1999	ND		2.69E-07	-1.51E+01
YES	Biomass		4	NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Mercury (Hg)	1	8/26/2009	DLL		5.56E-07	-1.44E+01
YES	Biomass		4	NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Mercury (Hg)	2	8/26/2009	DLL		4.47E-07	-1.46E+01
YES	Biomass		4	NDCargillWe stFargo	Foster Wheeler Boiler (EU43)	Mercury (Hg)	3	8/27/2009	DLL		5.11E-07	-1.45E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		4	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Mercury (Hg)	Sample #1	8/3/2005			2.30E-07	-1.53E+01
YES	Biomass		4	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Mercury (Hg)	Sample #2	8/3/2005			2.30E-07	-1.53E+01
YES	Biomass		4	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	Mercury (Hg)	Sample #3	8/3/2005			2.30E-07	-1.53E+01
YES	Biomass		5	NCGPRoxboro	ES-1 Wood fired Boiler	Mercury (Hg)	Sample #1	7/14/2004			3.23E-07	-1.49E+01
YES	Biomass		5	NCGPRoxboro	ES-1 Wood fired Boiler	Mercury (Hg)	Sample #2	7/14/2004			2.43E-07	-1.52E+01
YES	Biomass		5	NCGPRoxboro	ES-1 Wood fired Boiler	Mercury (Hg)	Sample #3	7/14/2004			2.36E-07	-1.53E+01
YES	Biomass		6	FLSugarCaneGrowersCoop	Boiler No. 8	Mercury (Hg)	Sample #1	12/16/2002			5.35E-07	-1.44E+01
YES	Biomass		6	FLSugarCaneGrowersCoop	Boiler No. 8	Mercury (Hg)	Sample #2	12/16/2002			1.60E-07	-1.56E+01
YES	Biomass		6	FLSugarCaneGrowersCoop	Boiler No. 8	Mercury (Hg)	Sample #3	12/16/2002			3.24E-07	-1.49E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	1	8/4/2009	DLL		6.14E-08	-1.66E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	2	8/5/2009	DLL		5.99E-08	-1.66E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	3	8/5/2009	DLL		5.90E-08	-1.66E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Sample #1	2/15/2006			1.26E-08	-1.82E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Sample #1	2/22/2006			3.37E-07	-1.49E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Sample #2	2/23/2006			3.77E-07	-1.48E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	In (lb/mmBtu)
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Sample #2	2/21/2006	ND		7.54E-09	-1.87E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Sample #3	2/21/2006			2.27E-08	-1.76E+01
YES	Coal		1	IAUoflowa	EP7 Boiler 11	Mercury (Hg)	Sample #3	2/23/2006			1.28E-07	-1.59E+01
YES	Coal		2	MITBSimonP owerPlant	Unit 4	Mercury (Hg)	Sample #1	1/9/2007	ND		3.71E-08	-1.71E+01
YES	Coal		2	MITBSimonP owerPlant	Unit 4	Mercury (Hg)	Sample #1	1/10/2007	ND		3.03E-08	-1.73E+01
YES	Coal		2	MITBSimonP owerPlant	Unit 4	Mercury (Hg)	Sample #2	1/9/2007	ND		3.37E-08	-1.72E+01
YES	Coal		2	MITBSimonP owerPlant	Unit 4	Mercury (Hg)	Sample #2	1/10/2007	ND		3.44E-08	-1.72E+01
YES	Coal		2	MITBSimonP owerPlant	Unit 4	Mercury (Hg)	Sample #3	1/10/2007	ND		3.38E-08	-1.72E+01
YES	Coal		2	MITBSimonP owerPlant	Unit 4	Mercury (Hg)	Sample #3	1/9/2007	ND		1.52E-08	-1.80E+01
YES	Coal		3	IAArchersDa nielsMidland DesMoines	Asea Boiler #1	Mercury (Hg)	Sample #1	8/26/2009	ND		3.18E-08	-1.73E+01
YES	Coal		3	IAArchersDa nielsMidland DesMoines	Asea Boiler #1	Mercury (Hg)	Sample #2	8/26/2009	ND		2.80E-08	-1.74E+01
YES	Coal		3	IAArchersDa nielsMidland DesMoines	Asea Boiler #1	Mercury (Hg)	Sample #3	8/27/2009			5.53E-08	-1.67E+01
YES	Coal		4	IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Mercury (Hg)	1	6/3/2009			6.34E-08	-1.66E+01
YES	Coal		4	IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Mercury (Hg)	2	6/3/2009			4.01E-08	-1.70E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		4	IARoquetteAmerica	Circulating Fluidized Bed Boiler (121)	Mercury (Hg)	3	6/4/2009			8.15E-08	-1.63E+01
YES	Coal		5	INPurdueUniversity	Boiler 5	Mercury (Hg)	M5-1	7/21/2009			1.14E-07	-1.60E+01
YES	Coal		5	INPurdueUniversity	Boiler 5	Mercury (Hg)	M5-2	7/21/2009			1.35E-07	-1.58E+01
YES	Coal		5	INPurdueUniversity	Boiler 5	Mercury (Hg)	M5-3	7/22/2009			1.19E-07	-1.59E+01
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	1	9/9/2009			1.62E-07	-1.56E+01
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	2	9/9/2009			1.42E-07	-1.58E+01
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	3	9/10/2009			6.46E-08	-1.66E+01
YES	Coal		6	ILPolyOne	B1	Mercury (Hg)	Sample #1	11/14/2006			2.22E-07	-1.53E+01
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #1	7/26/2007	ND		3.96E-07	-1.47E+01
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #1	7/25/2007	ND		1.41E-07	-1.58E+01
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #2	7/26/2007	ND		1.54E-07	-1.57E+01
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #2	7/25/2007	ND		9.27E-08	-1.62E+01
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #3	7/26/2007	ND		3.07E-07	-1.50E+01
YES	Coal		7	MITBSimonPowerPlant	Unit 2	Mercury (Hg)	Sample #3	7/25/2007	ND		1.98E-07	-1.54E+01
YES	Coal		8	MNADMCornDivision	Coal Boiler #1 EU049	Mercury (Hg)	Sample #2	10/25/2008			1.59E-07	-1.57E+01
YES	Coal		9	MNADMCornDivision	Coal Boiler #2 EU050	Mercury (Hg)	Sample #2	10/25/2008			1.59E-07	-1.57E+01
YES	Coal		10	MITBSimonPowerPlant	Unit 1	Mercury (Hg)	1	7/22/2009	DLL		2.70E-07	-1.51E+01
YES	Coal		10	MITBSimonPowerPlant	Unit 1	Mercury (Hg)	2	7/22/2009	DLL		1.22E-07	-1.59E+01
YES	Coal		10	MITBSimonPowerPlant	Unit 1	Mercury (Hg)	3	7/23/2009	DLL		1.61E-07	-1.56E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		10	MITBSimonP owerPlant	Unit 1	Mercury (Hg)	Sample #1	6/13/2007	ND		7.28E-07	-1.41E+01
YES	Coal		10	MITBSimonP owerPlant	Unit 1	Mercury (Hg)	Sample #1	6/14/2007	ND		1.86E-07	-1.55E+01
YES	Coal		10	MITBSimonP owerPlant	Unit 1	Mercury (Hg)	Sample #2	6/13/2007	ND		2.36E-07	-1.53E+01
YES	Coal		10	MITBSimonP owerPlant	Unit 1	Mercury (Hg)	Sample #2	6/14/2007	ND		6.84E-07	-1.42E+01
YES	Coal		10	MITBSimonP owerPlant	Unit 1	Mercury (Hg)	Sample #3	6/15/2007			1.22E-07	-1.59E+01
YES	Coal		10	MITBSimonP owerPlant	Unit 1	Mercury (Hg)	Sample #3	6/14/2007	ND		9.84E-07	-1.38E+01
YES	Coal		11	NCTysonHar mony	TYS-ES-21	Mercury (Hg)	Sample #1	9/25/2006			2.70E-07	-1.51E+01
YES	Coal		11	NCTysonHar mony	TYS-ES-21	Mercury (Hg)	Sample #2	9/26/2006			2.50E-07	-1.52E+01
YES	Coal		11	NCTysonHar mony	TYS-ES-21	Mercury (Hg)	Sample #3	9/27/2006			2.10E-07	-1.54E+01
YES	Coal		12	IDAmalgama tedSugarCo TwinFalls	S-B1	Mercury (Hg)	Sample #1	9/26/2006			2.41E-07	-1.52E+01
YES	Coal		12	IDAmalgama tedSugarCo TwinFalls	S-B1	Mercury (Hg)	Sample #2	9/26/2006			2.50E-07	-1.52E+01
YES	Coal		12	IDAmalgama tedSugarCo TwinFalls	S-B1	Mercury (Hg)	Sample #3	9/26/2006			2.76E-07	-1.51E+01
YES	Coal		13	AKDoyonUtili ties_AK	4	Mercury (Hg)	Sample #1	8/17/2005			3.36E-07	-1.49E+01
YES	Coal		13	AKDoyonUtili ties_AK	4	Mercury (Hg)	Sample #2	8/17/2005			4.12E-07	-1.47E+01
YES	Coal		13	AKDoyonUtili ties_AK	4	Mercury (Hg)	Sample #3	8/17/2005			3.07E-07	-1.50E+01
YES	Coal		14	IAADMCorn ProcessingC R	EU-501B	Mercury (Hg)	Sample #1	8/12/2009			8.18E-08	-1.63E+01
YES	Coal		14	IAADMCorn ProcessingC R	EU-501B	Mercury (Hg)	Sample #2	8/13/2009			2.96E-07	-1.50E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		14	IAADMCorn ProcessingC	EU-501B	Mercury (Hg)	Sample #3	8/13/2009			6.97E-07	-1.42E+01
YES	Coal		15	VADUniversity ofVirginia	7103-1-01R	Mercury (Hg)	M29-1	9/17/2009	<		3.61E-07	-1.48E+01
YES	Coal		15	VADUniversity ofVirginia	7103-1-01R	Mercury (Hg)	M29-2	9/17/2009	<		3.81E-07	-1.48E+01
YES	Coal		15	VADUniversity ofVirginia	7103-1-01R	Mercury (Hg)	M29-3	9/18/2009	<		3.67E-07	-1.48E+01
YES	Coal		16	VADukeEnergyNarrows	Boiler #1	Mercury (Hg)	Sample #1	5/25/2005			5.07E-06	-1.22E+01
YES	Coal		16	VADukeEnergyNarrows	Boiler #1	Mercury (Hg)	Sample #1	11/23/2004	ND		6.17E-07	-1.43E+01
YES	Coal		16	VADukeEnergyNarrows	Boiler #1	Mercury (Hg)	Sample #2	11/24/2004			2.78E-07	-1.51E+01
YES	Coal		16	VADukeEnergyNarrows	Boiler #1	Mercury (Hg)	Sample #2	5/25/2005			4.22E-06	-1.24E+01
YES	Coal		16	VADukeEnergyNarrows	Boiler #1	Mercury (Hg)	Sample #3	11/24/2004			2.54E-07	-1.52E+01
YES	Coal		16	VADukeEnergyNarrows	Boiler #1	Mercury (Hg)	Sample #3	5/25/2005			4.02E-06	-1.24E+01
YES	Coal		17	MINeenehaperMI	Boiler 1	Mercury (Hg)	Sample #1	7/25/2006			4.30E-07	-1.47E+01
YES	Coal		17	MINeenehaperMI	Boiler 1	Mercury (Hg)	Sample #1	8/1/2006			1.19E-06	-1.36E+01
YES	Coal		17	MINeenehaperMI	Boiler 1	Mercury (Hg)	Sample #1	8/2/2006			1.46E-06	-1.34E+01
YES	Coal		17	MINeenehaperMI	Boiler 1	Mercury (Hg)	Sample #2	8/2/2006			9.98E-07	-1.38E+01
YES	Coal		17	MINeenehaperMI	Boiler 1	Mercury (Hg)	Sample #2	7/25/2006			4.17E-07	-1.47E+01
YES	Coal		17	MINeenehaperMI	Boiler 1	Mercury (Hg)	Sample #2	8/1/2006			8.46E-07	-1.40E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		17	MINeenaHPa perMI	Boiler 1	Mercury (Hg)	Sample #3	8/2/2006			1.14E-06	-1.37E+01
YES	Coal		17	MINeenaHPa perMI	Boiler 1	Mercury (Hg)	Sample #3	7/25/2006			3.34E-07	-1.49E+01
YES	Coal		17	MINeenaHPa perMI	Boiler 1	Mercury (Hg)	Sample #3	8/1/2006			1.09E-06	-1.37E+01
YES	Coal		18	OHAppletonIdeas	Boiler 4 (B003)	Mercury (Hg)	Sample #1	1/31/2003			3.66E-07	-1.48E+01
YES	Coal		18	OHAppletonIdeas	Boiler 4 (B003)	Mercury (Hg)	Sample #2	1/31/2003			4.03E-07	-1.47E+01
YES	Coal		18	OHAppletonIdeas	Boiler 4 (B003)	Mercury (Hg)	Sample #3	1/31/2003			4.13E-07	-1.47E+01
YES	Coal		19	TNNissanSm yrna	Boiler 3	Mercury (Hg)	Sample #1	3/3/2007			5.00E-07	-1.45E+01
YES	Coal		19	TNNissanSm yrna	Boiler 3	Mercury (Hg)	Sample #2	3/3/2007			3.00E-07	-1.50E+01
YES	Coal		19	TNNissanSm yrna	Boiler 3	Mercury (Hg)	Sample #3	3/3/2007			4.50E-07	-1.46E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	M5/29-1BH	8/10/2009	<		6.45E-07	-1.43E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	M5/29-1FH	8/10/2009	<		5.86E-08	-1.67E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	M5/29-2BH	8/11/2009	<		8.10E-07	-1.40E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	M5/29-2FH	8/11/2009	<		8.31E-08	-1.63E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	M5/29-3BH	8/11/2009	<		8.29E-07	-1.40E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	M5/29-3FH	8/11/2009	<		8.50E-08	-1.63E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	Sample #1	11/25/2003	ND		1.00E-06	-1.38E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	Sample #2	11/25/2003	ND		1.10E-06	-1.37E+01
YES	Coal		20	NCUNCCogen	ES-001	Mercury (Hg)	Sample #3	11/25/2003	ND		1.20E-06	-1.36E+01
YES	Coal		21	INTateLyleS agamore	31B1	Mercury (Hg)	M29-1	9/1/2009			4.06E-07	-1.47E+01
YES	Coal		21	INTateLyleS agamore	31B1	Mercury (Hg)	M29-2	9/2/2009			4.49E-07	-1.46E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		21	INTateLyleS agamore	31B1	Mercury (Hg)	M29-3	9/3/2009			4.40E-07	-1.46E+01
YES	Coal		22	OKGPMusko geeMill	B-3	Mercury (Hg)	Sample #1	5/20/2003			4.00E-07	-1.47E+01
YES	Coal		22	OKGPMusko geeMill	B-3	Mercury (Hg)	Sample #2	5/20/2003			4.00E-07	-1.47E+01
YES	Coal		22	OKGPMusko geeMill	B-3	Mercury (Hg)	Sample #3	5/20/2003			6.00E-07	-1.43E+01
YES	Coal		23	TNCargillMe mphs	Stoker Boiler 8001	Mercury (Hg)	1	8/5/2009	DLL		4.10E-07	-1.47E+01
YES	Coal		23	TNCargillMe mphs	Stoker Boiler 8001	Mercury (Hg)	2	11/6/2009	DLL		5.60E-07	-1.44E+01
YES	Coal		23	TNCargillMe mphs	Stoker Boiler 8001	Mercury (Hg)	3	8/6/2009	DLL		4.30E-07	-1.47E+01
YES	Coal		24	WIWausauR hine	B26	Mercury (Hg)	Sample #1	9/5/2007			7.20E-07	-1.41E+01
YES	Coal		24	WIWausauR hine	B26	Mercury (Hg)	Sample #2	9/5/2007			3.30E-07	-1.49E+01
YES	Coal		24	WIWausauR hine	B26	Mercury (Hg)	Sample #3	9/5/2007			3.90E-07	-1.48E+01
YES	Coal		25	ALIPCourtlan d	No.2 Combination Boiler / 11CU201	Mercury (Hg)	Sample #1	9/10/1996			5.64E-07	-1.44E+01
YES	Coal		25	ALIPCourtlan d	No.2 Combination Boiler / 11CU201	Mercury (Hg)	Sample #2	9/10/1996			4.84E-07	-1.45E+01
YES	Coal		25	ALIPCourtlan d	No.2 Combination Boiler / 11CU201	Mercury (Hg)	Sample #3	9/10/1996			5.66E-07	-1.44E+01
YES	Coal		26	VADukeEner gyNarrows	Boiler #2	Mercury (Hg)	Sample #1	10/12/2004			7.88E-07	-1.41E+01
YES	Coal		26	VADukeEner gyNarrows	Boiler #2	Mercury (Hg)	Sample #1	10/12/2004			2.50E-06	-1.29E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	In (lb/mmBtu)
YES	Coal		26	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #2	10/12/2004			4.60E-07	-1.46E+01
YES	Coal		26	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #2	10/12/2004			1.91E-06	-1.32E+01
YES	Coal		26	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #3	10/12/2004			3.70E-07	-1.48E+01
YES	Coal		26	VADukeEnergyNarrows	Boiler #2	Mercury (Hg)	Sample #3	10/12/2004			2.30E-06	-1.30E+01
YES	Coal		27	TNNissanSmerna	Boiler 2	Mercury (Hg)	Sample #1	3/2/2007			8.00E-07	-1.40E+01
YES	Coal		27	TNNissanSmerna	Boiler 2	Mercury (Hg)	Sample #2	3/2/2007			5.20E-07	-1.45E+01
YES	Coal		27	TNNissanSmerna	Boiler 2	Mercury (Hg)	Sample #3	3/2/2007			3.20E-07	-1.50E+01
YES	Coal		28	PANorfolkSouthern	031	Mercury (Hg)	Sample #1	3/22/2006			8.25E-07	-1.40E+01
YES	Coal		28	PANorfolkSouthern	031	Mercury (Hg)	Sample #2	3/22/2006			6.05E-07	-1.43E+01
YES	Coal		28	PANorfolkSouthern	031	Mercury (Hg)	Sample #3	3/22/2006			5.50E-07	-1.44E+01
YES	Coal		29	PANorfolkSouthern	032	Mercury (Hg)	Sample #1	3/22/2006			8.25E-07	-1.40E+01
YES	Coal		29	PANorfolkSouthern	032	Mercury (Hg)	Sample #2	3/22/2006			6.05E-07	-1.43E+01
YES	Coal		29	PANorfolkSouthern	032	Mercury (Hg)	Sample #3	3/22/2006			5.50E-07	-1.44E+01
YES	Coal		30	PANorfolkSouthern	033	Mercury (Hg)	Sample #1	3/22/2006			8.25E-07	-1.40E+01
YES	Coal		30	PANorfolkSouthern	033	Mercury (Hg)	Sample #2	3/22/2006			6.05E-07	-1.43E+01
YES	Coal		30	PANorfolkSouthern	033	Mercury (Hg)	Sample #3	3/22/2006			5.50E-07	-1.44E+01
YES	Coal		31	MNRochesterUtilities	EU003	Mercury (Hg)	Sample #1	5/25/2005			5.26E-07	-1.45E+01
YES	Coal		31	MNRochesterUtilities	EU003	Mercury (Hg)	Sample #2	5/25/2005			9.08E-07	-1.39E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	In (lb/mmBtu)
YES	Coal		31	MNRochesterUtilities	EU003	Mercury (Hg)	Sample #3	5/25/2005			5.48E-07	-1.44E+01
YES	Coal		32	VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Sample #1	10/14/2004			9.34E-07	-1.39E+01
YES	Coal		32	VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Sample #1	4/16/2004			7.25E-07	-1.41E+01
YES	Coal		32	VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Sample #2	10/14/2004			1.19E-06	-1.36E+01
YES	Coal		32	VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Sample #2	4/16/2004			5.99E-07	-1.43E+01
YES	Coal		32	VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Sample #3	4/16/2004			6.90E-07	-1.42E+01
YES	Coal		32	VADukeEnergyNarrows	Boiler #7	Mercury (Hg)	Sample #3	10/14/2004			9.56E-07	-1.39E+01
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Mercury (Hg)	Sample #1	9/30/2009			9.94E-08	-1.61E+01
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Mercury (Hg)	Sample #2	10/1/2009			9.16E-08	-1.62E+01
YES	Gas 1		1	NCCampLejeuneMCB	C-AS-4151-16	Mercury (Hg)	Sample #3	10/1/2009			8.95E-08	-1.62E+01
YES	Gas 1		2	CAConocoPhillipsLosAng	D146 B-202 U90	Mercury (Hg)	Sample #1	4/23/1995			1.37E-07	-1.58E+01
YES	Gas 1		2	CAConocoPhillipsLosAng	D146 B-202 U90	Mercury (Hg)	Sample #2	4/24/1995			1.65E-07	-1.56E+01
YES	Gas 1		2	CAConocoPhillipsLosAng	D146 B-202 U90	Mercury (Hg)	Sample #3	4/25/1995			6.11E-08	-1.66E+01
YES	Gas 1	yes	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Sample #1	8/26/2009			6.28E-08	-1.66E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	In (lb/mmBtu)
YES	Gas 1	yes	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Sample #2	8/27/2009			2.47E-08	-1.75E+01
YES	Gas 1	yes	1	ILUSSGraniteCity	No. 8 Galvanizing Line Furnace	Mercury (Hg)	Sample #3	8/28/2009			1.20E-08	-1.82E+01
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Mercury (Hg)	1	8/25/2009	DLL		1.03E-07	-1.61E+01
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Mercury (Hg)	2	8/25/2009	DLL		6.83E-08	-1.65E+01
YES	Gas 2		1	SCBMWManufacturingCo	HB03	Mercury (Hg)	3	8/26/2009	DLL		7.61E-08	-1.64E+01
YES	Liquid		1	MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	1	9/10/2009	DLL		9.66E-08	-1.62E+01
YES	Liquid		1	MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	2	9/10/2009	DLL		4.34E-08	-1.70E+01
YES	Liquid		1	MNGPDuluth	EU33 Boiler #3	Mercury (Hg)	3	9/10/2009	DLL		3.59E-08	-1.71E+01
YES	Liquid		2	MEFPLEnergyWyman	Unit #5	Mercury (Hg)	PM/TM-R1	10/5/2009			8.92E-08	-1.62E+01
YES	Liquid		2	MEFPLEnergyWyman	Unit #5	Mercury (Hg)	PM/TM-R2	10/5/2009			1.05E-07	-1.61E+01
YES	Liquid		2	MEFPLEnergyWyman	Unit #5	Mercury (Hg)	PM/TM-R3	10/6/2009			6.35E-08	-1.66E+01
YES	Liquid		3	PABoeingRidleyPark	033	Mercury (Hg)	M29-1	9/22/2009	DLL		1.37E-07	-1.58E+01
YES	Liquid		3	PABoeingRidleyPark	033	Mercury (Hg)	M29-2	9/23/2009	DLL		1.04E-07	-1.61E+01
YES	Liquid		3	PABoeingRidleyPark	033	Mercury (Hg)	M29-3	9/24/2009	DLL		1.24E-07	-1.59E+01
YES	Liquid		4	NYConEd59thStStationNewYork	Boiler 118	Mercury (Hg)	29-1	9/19/2009			1.57E-07	-1.57E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid		4	NYConEd59t hStStationNe wYork	Boiler 118	Mercury (Hg)	29-2	9/19/2009			1.38E-07	-1.58E+01
YES	Liquid		4	NYConEd59t hStStationNe wYork	Boiler 118	Mercury (Hg)	29-3	9/19/2009			1.23E-07	-1.59E+01
YES	Liquid		5	NJVinelandM uniElectric- HowardDow n	Unit 9	Mercury (Hg)	1	7/20/2009	DLL		3.87E-07	-1.48E+01
YES	Liquid		5	NJVinelandM uniElectric- HowardDow n	Unit 9	Mercury (Hg)	2	7/20/2009	DLL		4.10E-07	-1.47E+01
YES	Liquid		5	NJVinelandM uniElectric- HowardDow n	Unit 9	Mercury (Hg)	3	7/21/2009	DLL		3.66E-07	-1.48E+01
YES	Liquid		8	CTElectric Boat	EMU 17	Mercury (Hg)	1	8/18/2009	DLL		7.56E-08	-1.64E+01
YES	Liquid		8	CTElectric Boat	EMU 17	Mercury (Hg)	3	8/19/2009	BDL		7.61E-08	-1.64E+01
YES	Liquid		8	CTElectric Boat	EMU 17	Mercury (Hg)	4	8/19/2009	DLL		7.68E-08	-1.64E+01
YES	Liquid		9	INUSSteelG aryWorks	O4B10459	Mercury (Hg)	M29-1	9/9/2009			7.59E-07	-1.41E+01
YES	Liquid		9	INUSSteelG aryWorks	O4B10459	Mercury (Hg)	M29-2	9/10/2009			1.33E-07	-1.58E+01
YES	Liquid		9	INUSSteelG aryWorks	O4B10459	Mercury (Hg)	M29-3	9/11/2009			1.45E-06	-1.34E+01
YES	Liquid		16	TNMilanArm yAmmunition Plant	D88L-1, Source #27- 0010-86	Mercury (Hg)	1	11/17/2009	DLL		7.65E-08	-1.64E+01
YES	Liquid		16	TNMilanArm yAmmunition Plant	D88L-1, Source #27- 0010-86	Mercury (Hg)	2	11/17/2009	DLL		6.56E-08	-1.65E+01
YES	Liquid		16	TNMilanArm yAmmunition Plant	D88L-1, Source #27- 0010-86	Mercury (Hg)	3	11/18/2009	DLL		6.92E-08	-1.65E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			CTElectric Boat	EMU 17	Mercury (Hg)	Sample #1				4.36E-07	-1.46E+01
YES	Liquid			CTElectric Boat	EMU 18	Mercury (Hg)	Sample #1				4.36E-07	-1.46E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #1		ND		2.56E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #1				3.10E-07	-1.50E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #1				6.14E-07	-1.43E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #10				2.56E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #11		ND		2.56E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #12		ND		2.57E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #2		ND		2.55E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #2		ND		2.56E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #2				1.01E-06	-1.38E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #3		ND		2.56E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #3		ND		2.56E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #3				1.03E-06	-1.38E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #4				4.62E-07	-1.46E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #5				4.60E-07	-1.46E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #6				3.07E-07	-1.50E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #7		ND		2.57E-07	-1.52E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #8				3.07E-07	-1.50E+01
YES	Liquid			MESDWarrenSomerset	Package Boiler	Mercury (Hg)	Sample #9		ND		2.56E-07	-1.52E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-1, Source #27-0010-05	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	A15L-2, Source #27-0010-05	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	B21L-1, Source #27-0010-28	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D2A-1, Source #27-0010-09	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-1, Source #27-0010-86	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	D88L-2, Source #27-0010-86	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-1, Source #27-0010-30	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	F52L-2, Source #27-0010-30	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I3A-1, Source #27-0010-12	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I4A-1, Source #27-0010-13	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	I5A-1, Source #27-0010-14	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #1		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #10		ND		2.09E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #11		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #12		ND		2.10E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #2		ND		2.15E-06	-1.30E+01

Appendix G-9: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #3		ND		2.13E-06	-1.31E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #4		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #5		ND		2.16E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #6		ND		2.25E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #7		ND		2.17E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #8		ND		2.19E-06	-1.30E+01
YES	Liquid			TNMilanArmyAmmunition Plant	K313A-1, Source #27-0010-83	Mercury (Hg)	Sample #9		ND		2.23E-06	-1.30E+01

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	1	9/8/2009	<		3.61E-06	-1.25E+01
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	2	9/8/2009	<		3.69E-06	-1.25E+01
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	3	9/8/2009	<		3.78E-06	-1.25E+01
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Sample #1	8/8/2006			8.00E-04	-7.13E+00
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Sample #2	8/8/2006			2.10E-03	-6.17E+00
YES	Biomass		1	ARPotlatchForestWarren	Wellons Boiler	Hydrogen Chloride (HCl)	Sample #3	9/8/2006			1.80E-03	-6.32E+00
YES	Biomass		2	WABoisePaperWallula	Hog Fuel Boiler	Hydrogen Chloride (HCl)	Sample #1	5/6/2008			8.67E-05	-9.35E+00
YES	Biomass		2	WABoisePaperWallula	Hog Fuel Boiler	Hydrogen Chloride (HCl)	Sample #2	5/6/2008			1.62E-04	-8.73E+00
YES	Biomass		2	WABoisePaperWallula	Hog Fuel Boiler	Hydrogen Chloride (HCl)	Sample #3	5/6/2008	ND		1.93E-05	-1.09E+01
YES	Biomass		3	FLSugarCaneGrowersCoop	Boiler No. 8	Hydrogen Chloride (HCl)	Sample #1	12/16/2002			2.32E-04	-8.37E+00
YES	Biomass		3	FLSugarCaneGrowersCoop	Boiler No. 8	Hydrogen Chloride (HCl)	Sample #1	1/19/2005			1.55E-03	-6.47E+00
YES	Biomass		3	FLSugarCaneGrowersCoop	Boiler No. 8	Hydrogen Chloride (HCl)	Sample #2	12/16/2002			2.15E-04	-8.44E+00
YES	Biomass		3	FLSugarCaneGrowersCoop	Boiler No. 8	Hydrogen Chloride (HCl)	Sample #2	1/19/2005			1.69E-03	-6.38E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		3	FLSugarCaneGrowersCo op	Boiler No. 8	Hydrogen Chloride (HCl)	Sample #3	1/19/2005			1.22E-03	-6.71E+00
YES	Biomass		3	FLSugarCaneGrowersCo op	Boiler No. 8	Hydrogen Chloride (HCl)	Sample #3	12/16/2002			1.51E-04	-8.80E+00
YES	Biomass		4	ARAnthonyForestProducts	SN-12	Hydrogen Chloride (HCl)	Sample #1	9/1/2009			2.10E-04	-8.47E+00
YES	Biomass		4	ARAnthonyForestProducts	SN-12	Hydrogen Chloride (HCl)	Sample #2	9/1/2009			2.30E-04	-8.38E+00
YES	Biomass		4	ARAnthonyForestProducts	SN-12	Hydrogen Chloride (HCl)	Sample #3	9/2/2009			1.60E-04	-8.74E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #1	8/14/2009			3.20E-02	-3.44E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #1	6/22/2006			6.43E-02	-2.74E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #1	8/14/2009			2.00E-04	-8.52E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #2	6/22/2006			4.84E-02	-3.03E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #2	8/14/2009			2.60E-02	-3.65E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #2	8/14/2009			2.00E-04	-8.52E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #3	8/14/2009			2.00E-04	-8.52E+00
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #3	6/22/2006			2.22E-02	-3.81E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		5	WAGraysHarborPaper	No. 6 Boiler (EU2)	Hydrogen Chloride (HCl)	Sample #3	8/14/2009			1.80E-02	-4.02E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #1	12/1/2006			2.70E-03	-5.91E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #1	12/1/2006			2.70E-03	-5.91E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #1	12/10/2002			2.30E-04	-8.38E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #2	12/10/2002			1.50E-04	-8.80E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #2	12/1/2006			2.40E-03	-6.03E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #2	12/1/2006			2.40E-03	-6.03E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #3	12/1/2006			1.90E-03	-6.27E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #3	12/10/2002			2.27E-04	-8.39E+00
YES	Biomass		6	FLUSSugarCorp	Boiler No. 4	Hydrogen Chloride (HCl)	Sample #3	12/1/2006			1.90E-03	-6.27E+00
YES	Biomass		7	MSHoodWaynesboro	AA-001 (Wood-Fired Boiler)	Hydrogen Chloride (HCl)	Sample #1	10/14/2003			2.80E-04	-8.18E+00
YES	Biomass		7	MSHoodWaynesboro	AA-001 (Wood-Fired Boiler)	Hydrogen Chloride (HCl)	Sample #2	10/14/2003			2.35E-04	-8.36E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Biomass		7	MSHoodWaynesboro	AA-001 (Wood-Fired Boiler)	Hydrogen Chloride (HCl)	Sample #3	10/14/2003			1.18E-04	-9.04E+00
YES	Coal		1	INAlcoaWarri ck	Unit #3	Hydrogen Chloride (HCl)	Sample #1	8/7/2008	ND		1.43E-05	-1.12E+01
YES	Coal		1	INAlcoaWarri ck	Unit #3	Hydrogen Chloride (HCl)	Sample #2	8/7/2008	ND		1.57E-05	-1.11E+01
YES	Coal		2	IDTASCOPa ul	Erie City Boiler	Hydrogen Chloride (HCl)	Sample #1	6/20/2006	ND		3.96E-05	-1.01E+01
YES	Coal		2	IDTASCOPa ul	Erie City Boiler	Hydrogen Chloride (HCl)	Sample #2	6/20/2006	ND		4.02E-05	-1.01E+01
YES	Coal		2	IDTASCOPa ul	Erie City Boiler	Hydrogen Chloride (HCl)	Sample #3	6/21/2006	ND		3.58E-05	-1.02E+01
YES	Coal		3	INAlcoaWarri ck	Unit #2	Hydrogen Chloride (HCl)	Sample #1	8/6/2008	ND		1.51E-05	-1.11E+01
YES	Coal		3	INAlcoaWarri ck	Unit #2	Hydrogen Chloride (HCl)	Sample #2	8/6/2008			1.03E-04	-9.18E+00
YES	Coal		4	IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Hydrogen Chloride (HCl)	1	6/2/2009			8.56E-05	-9.37E+00
YES	Coal		4	IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Hydrogen Chloride (HCl)	2	6/2/2009			6.85E-05	-9.59E+00
YES	Coal		4	IARoquetteA merica	Circulating Fluidized Bed Boiler (121)	Hydrogen Chloride (HCl)	3	6/3/2009			3.13E-05	-1.04E+01

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		5	TNEastman_NO_CBIDAT A	Boiler 30	Hydrogen Chloride (HCl)	Sample #1	8/26/2009	ND		7.30E-05	-9.53E+00
YES	Coal		5	TNEastman_NO_CBIDAT A	Boiler 30	Hydrogen Chloride (HCl)	Sample #2	8/27/2009	ND		7.30E-05	-9.53E+00
YES	Coal		5	TNEastman_NO_CBIDAT A	Boiler 30	Hydrogen Chloride (HCl)	Sample #3	8/27/2009	ND		7.10E-05	-9.55E+00
YES	Coal		6	AZCatalystPaperSnowflake	Power Boiler #2 Coal	Hydrogen Chloride (HCl)	Sample #1	3/24/2006			1.83E-04	-8.61E+00
YES	Coal		6	AZCatalystPaperSnowflake	Power Boiler #2 Coal	Hydrogen Chloride (HCl)	Sample #2	3/24/2006			7.69E-05	-9.47E+00
YES	Coal		6	AZCatalystPaperSnowflake	Power Boiler #2 Coal	Hydrogen Chloride (HCl)	Sample #3	3/24/2006			8.86E-05	-9.33E+00
YES	Coal		7	MOJamesRiverPowerStation	Unit 1	Hydrogen Chloride (HCl)	Sample #1	12/6/2005			8.48E-05	-9.38E+00
YES	Coal		7	MOJamesRiverPowerStation	Unit 1	Hydrogen Chloride (HCl)	Sample #1	10/4/2006			1.79E-04	-8.63E+00
YES	Coal		7	MOJamesRiverPowerStation	Unit 1	Hydrogen Chloride (HCl)	Sample #2	12/6/2005			3.81E-04	-7.87E+00
YES	Coal		7	MOJamesRiverPowerStation	Unit 1	Hydrogen Chloride (HCl)	Sample #2	10/4/2006			2.27E-04	-8.39E+00
YES	Coal		7	MOJamesRiverPowerStation	Unit 1	Hydrogen Chloride (HCl)	Sample #3	12/6/2005			3.38E-04	-7.99E+00
YES	Coal		7	MOJamesRiverPowerStation	Unit 1	Hydrogen Chloride (HCl)	Sample #3	10/4/2006			2.30E-04	-8.38E+00
YES	Coal		8	MOJamesRiverPowerStation	Unit 2	Hydrogen Chloride (HCl)	Sample #1	10/4/2006			1.79E-04	-8.63E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		8	MOJamesRiverPowerStation	Unit 2	Hydrogen Chloride (HCl)	Sample #1	12/6/2005			8.48E-05	-9.38E+00
YES	Coal		8	MOJamesRiverPowerStation	Unit 2	Hydrogen Chloride (HCl)	Sample #2	10/4/2006			2.27E-04	-8.39E+00
YES	Coal		8	MOJamesRiverPowerStation	Unit 2	Hydrogen Chloride (HCl)	Sample #2	12/6/2005			3.81E-04	-7.87E+00
YES	Coal		8	MOJamesRiverPowerStation	Unit 2	Hydrogen Chloride (HCl)	Sample #3	12/6/2005			3.38E-04	-7.99E+00
YES	Coal		8	MOJamesRiverPowerStation	Unit 2	Hydrogen Chloride (HCl)	Sample #3	10/4/2006			2.30E-04	-8.38E+00
YES	Coal		9	ALIPCourtland	No.2 Combination Boiler / 11CU201	Hydrogen Chloride (HCl)	Sample #1	9/10/1996			3.86E-04	-7.86E+00
YES	Coal		9	ALIPCourtland	No.2 Combination Boiler / 11CU201	Hydrogen Chloride (HCl)	Sample #2	9/10/1996	ND		2.55E-04	-8.27E+00
YES	Coal		9	ALIPCourtland	No.2 Combination Boiler / 11CU201	Hydrogen Chloride (HCl)	Sample #3	9/10/1996	ND		2.06E-04	-8.49E+00
YES	Coal		10	IDTASCOPaul	Babcock and Wilcox (B&W) Boiler	Hydrogen Chloride (HCl)	Sample #1	6/1/2006	ND		3.00E-04	-8.11E+00
YES	Coal		11	NDMinnDakFarmers	Babcock and Wilcox Boiler #5	Hydrogen Chloride (HCl)	Sample #1	10/26/2006			5.14E-04	-7.57E+00
YES	Coal		11	NDMinnDakFarmers	Babcock and Wilcox Boiler #5	Hydrogen Chloride (HCl)	Sample #2	10/26/2006			2.77E-04	-8.19E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		11	NDMinnDakFarmers	Babcock and Wilcox Boiler #5	Hydrogen Chloride (HCl)	Sample #3	10/26/2006			3.03E-04	-8.10E+00
YES	Coal		12	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Hydrogen Chloride (HCl)	Sample #1	8/24/2009	ND		3.81E-04	-7.87E+00
YES	Coal		12	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Hydrogen Chloride (HCl)	Sample #2	8/24/2009	ND		3.77E-04	-7.88E+00
YES	Coal		12	IAArchersDanielsMidlandDesMoines	Asea Boiler #1	Hydrogen Chloride (HCl)	Sample #3	8/25/2009	ND		4.07E-04	-7.81E+00
YES	Coal		13	VAAUniversityofVirginia	7103-1-01R	Hydrogen Chloride (HCl)	M26A-1	9/15/2009	<		5.80E-04	-7.45E+00
YES	Coal		13	VAAUniversityofVirginia	7103-1-01R	Hydrogen Chloride (HCl)	M26A-2	9/16/2009			5.91E-04	-7.43E+00
YES	Coal		13	VAAUniversityofVirginia	7103-1-01R	Hydrogen Chloride (HCl)	M26A-3	9/17/2009	<		5.37E-04	-7.53E+00
YES	Coal		14	WINewPageBiron	B24	Hydrogen Chloride (HCl)	1	8/25/2009			2.00E-03	-6.22E+00
YES	Coal		14	WINewPageBiron	B24	Hydrogen Chloride (HCl)	2	9/22/2009			1.95E-03	-6.24E+00
YES	Coal		14	WINewPageBiron	B24	Hydrogen Chloride (HCl)	3	9/22/2009			2.18E-03	-6.13E+00
YES	Coal		14	WINewPageBiron	B24	Hydrogen Chloride (HCl)	Sample #1	9/12/2007			5.40E-04	-7.52E+00
YES	Coal		14	WINewPageBiron	B24	Hydrogen Chloride (HCl)	Sample #2	9/12/2007			5.20E-04	-7.56E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_ Name	TestID	TestDate_ common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		14	WINewPage Biron	B24	Hydrogen Chloride (HCl)	Sample #3	9/12/2007			7.00E-04	-7.26E+00
YES	Coal		15	MICityofEscanaba	EUBOILER# 1	Hydrogen Chloride (HCl)	Sample #1	10/27/2004			6.00E-04	-7.42E+00
YES	Coal		15	MICityofEscanaba	EUBOILER# 1	Hydrogen Chloride (HCl)	Sample #2	10/27/2004			6.00E-04	-7.42E+00
YES	Coal		15	MICityofEscanaba	EUBOILER# 1	Hydrogen Chloride (HCl)	Sample #3	10/27/2004			6.00E-04	-7.42E+00
YES	Coal		16	VASmurfitSt oneWestpt	PB08	Hydrogen Chloride (HCl)	Sample #1	9/26/2009			7.40E-04	-7.21E+00
YES	Coal		16	VASmurfitSt oneWestpt	PB08	Hydrogen Chloride (HCl)	Sample #2	9/26/2009			5.04E-04	-7.59E+00
YES	Coal		16	VASmurfitSt oneWestpt	PB08	Hydrogen Chloride (HCl)	Sample #3	9/26/2009			7.62E-04	-7.18E+00
YES	Coal		16	VASmurfitSt oneWestpt	PB08	Hydrogen Chloride (HCl)	Sample #1	11/8/2004			8.68E-03	-4.75E+00
YES	Coal		16	VASmurfitSt oneWestpt	PB08	Hydrogen Chloride (HCl)	Sample #2	11/8/2004			6.24E-03	-5.08E+00
YES	Coal		16	VASmurfitSt oneWestpt	PB08	Hydrogen Chloride (HCl)	Sample #3	11/8/2004			7.22E-03	-4.93E+00
YES	Coal		17	TNEastman_NO_CBIDAT A	Boiler 31	Hydrogen Chloride (HCl)	Sample #1	3/15/2005	ND		7.00E-04	-7.26E+00
YES	Coal		17	TNEastman_NO_CBIDAT A	Boiler 31	Hydrogen Chloride (HCl)	Sample #2	3/15/2005	ND		7.00E-04	-7.26E+00
YES	Coal		17	TNEastman_NO_CBIDAT A	Boiler 31	Hydrogen Chloride (HCl)	Sample #3	3/15/2005	ND		7.00E-04	-7.26E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		18	WINewPage-WisconsinRapid	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Sample #1	12/14/2005			3.00E-04	-8.11E+00
YES	Coal		18	WINewPage-WisconsinRapid	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Sample #2	12/15/2005			1.40E-03	-6.57E+00
YES	Coal		18	WINewPage-WisconsinRapid	Power Boiler 1 - B21	Hydrogen Chloride (HCl)	Sample #3	12/15/2005			7.00E-04	-7.26E+00
YES	Coal		19	PADomtarJohnsonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Sample #1	7/18/2007			8.00E-04	-7.13E+00
YES	Coal		19	PADomtarJohnsonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Sample #2	7/18/2007			1.00E-03	-6.91E+00
YES	Coal		19	PADomtarJohnsonburg	#81 Coal Boiler	Hydrogen Chloride (HCl)	Sample #3	7/17/2007			7.00E-04	-7.26E+00
YES	Coal		20	PADomtarJohnsonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Sample #1	7/18/2007			8.00E-04	-7.13E+00
YES	Coal		20	PADomtarJohnsonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Sample #2	7/18/2007			1.00E-03	-6.91E+00
YES	Coal		20	PADomtarJohnsonburg	#82 Coal Boiler	Hydrogen Chloride (HCl)	Sample #3	7/17/2007			7.00E-04	-7.26E+00
YES	Coal		21	IDTASCONAmpa	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Sample #1	12/5/2006			9.00E-04	-7.01E+00
YES	Coal		21	IDTASCONAmpa	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Sample #2	12/5/2006			9.00E-04	-7.01E+00
YES	Coal		21	IDTASCONAmpa	Babcock and Wilcox (B&W) #1	Hydrogen Chloride (HCl)	Sample #3	12/5/2006			9.00E-04	-7.01E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Sample #1	12/5/2006			9.00E-04	-7.01E+00
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Sample #2	12/5/2006			9.00E-04	-7.01E+00
YES	Coal		22	IDTASCONampa	Babcock and Wilcox (B&W) #2	Hydrogen Chloride (HCl)	Sample #3	12/5/2006			9.00E-04	-7.01E+00
YES	Coal		23	WINewPage-WisconsinRapid	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #1	5/22/2003			9.90E-03	-4.62E+00
YES	Coal		23	WINewPage-WisconsinRapid	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #1	5/21/2003			8.00E-04	-7.13E+00
YES	Coal		23	WINewPage-WisconsinRapid	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #2	5/21/2003			1.10E-03	-6.81E+00
YES	Coal		23	WINewPage-WisconsinRapid	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #2	5/22/2003	ND		1.00E-04	-9.21E+00
YES	Coal		23	WINewPage-WisconsinRapid	Power Boiler 2 - B20	Hydrogen Chloride (HCl)	Sample #3	5/21/2003			8.00E-04	-7.13E+00
YES	Coal		24	IAMuscatine PowerandWater	Unit 7	Hydrogen Chloride (HCl)	Sample #1	4/22/2004			9.67E-04	-6.94E+00
YES	Coal		24	IAMuscatine PowerandWater	Unit 7	Hydrogen Chloride (HCl)	Sample #1	4/22/2004			5.50E-03	-5.20E+00
YES	Coal		24	IAMuscatine PowerandWater	Unit 7	Hydrogen Chloride (HCl)	Sample #2	4/22/2004			1.16E-03	-6.76E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		24	IAMuscatine PowerandW ater	Unit 7	Hydrogen Chloride (HCl)	Sample #2	4/22/2004			4.20E-03	-5.47E+00
YES	Coal		24	IAMuscatine PowerandW ater	Unit 7	Hydrogen Chloride (HCl)	Sample #3	4/22/2004			3.70E-03	-5.60E+00
YES	Coal		24	IAMuscatine PowerandW ater	Unit 7	Hydrogen Chloride (HCl)	Sample #3	4/22/2004			1.30E-03	-6.65E+00
YES	Coal		25	IDAmalgama tedSugarCoT winFalls	S-B2	Hydrogen Chloride (HCl)	Sample #1	9/28/2006			2.00E-03	-6.21E+00
YES	Coal		25	IDAmalgama tedSugarCoT winFalls	S-B2	Hydrogen Chloride (HCl)	Sample #2	9/28/2006			1.00E-03	-6.91E+00
YES	Coal		25	IDAmalgama tedSugarCoT winFalls	S-B2	Hydrogen Chloride (HCl)	Sample #3	9/28/2006			1.00E-03	-6.91E+00
YES	Coal		26	OHPainesvill eMunicipalEl ectric	B004	Hydrogen Chloride (HCl)	Sample #1	8/23/2006			1.00E-03	-6.91E+00
YES	Coal		26	OHPainesvill eMunicipalEl ectric	B004	Hydrogen Chloride (HCl)	Sample #2	8/23/2006			1.00E-03	-6.91E+00
YES	Coal		26	OHPainesvill eMunicipalEl ectric	B004	Hydrogen Chloride (HCl)	Sample #3	8/23/2006			2.00E-03	-6.21E+00
YES	Coal		27	MIPharma& Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Sample #1	2/9/2005			1.46E-03	-6.53E+00
YES	Coal		27	MIPharma& Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Sample #1	7/13/2006			1.39E-01	-1.97E+00
YES	Coal		27	MIPharma& Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Sample #2	2/9/2005			1.41E-03	-6.57E+00
YES	Coal		27	MIPharma& Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Sample #2	7/13/2006			1.37E-01	-1.99E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		27	MIPharma&Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Sample #3	2/9/2005			1.47E-03	-6.52E+00
YES	Coal		27	MIPharma&Upjohn1180	Boiler 3	Hydrogen Chloride (HCl)	Sample #3	7/13/2006			1.40E-01	-1.97E+00
YES	Coal		28	WYGeneralChemical	GR-2-L (C BOILER)	Hydrogen Chloride (HCl)	Sample #1	10/27/2004			1.70E-03	-6.38E+00
YES	Coal		28	WYGeneralChemical	GR-2-L (C BOILER)	Hydrogen Chloride (HCl)	Sample #2	10/27/2004			1.70E-03	-6.38E+00
YES	Coal		28	WYGeneralChemical	GR-2-L (C BOILER)	Hydrogen Chloride (HCl)	Sample #3	10/27/2004			2.00E-03	-6.21E+00
YES	Coal		29	TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Sample #1	3/10/2005			2.00E-03	-6.21E+00
YES	Coal		29	TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Sample #1	3/9/2005			1.60E-03	-6.44E+00
YES	Coal		29	TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Sample #2	3/9/2005			2.00E-03	-6.21E+00
YES	Coal		29	TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Sample #2	3/10/2005			3.20E-03	-5.74E+00
YES	Coal		29	TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Sample #3	3/10/2005			8.30E-03	-4.79E+00
YES	Coal		29	TNEastman_NO_CBIDATA	Boiler 27	Hydrogen Chloride (HCl)	Sample #3	3/9/2005			2.00E-03	-6.21E+00
YES	Coal		30	ILPrairiePowerPearl	B1	Hydrogen Chloride (HCl)	Sample #1	5/4/2005			2.00E-03	-6.21E+00
YES	Coal		30	ILPrairiePowerPearl	B1	Hydrogen Chloride (HCl)	Sample #2	5/4/2005			1.90E-03	-6.27E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		30	ILPrairiePowerPearl	B1	Hydrogen Chloride (HCl)	Sample #3	5/4/2005			1.90E-03	-6.27E+00
YES	Coal		31	WYGeneralChemical	GR-3-W (D BOILER)	Hydrogen Chloride (HCl)	Sample #1	10/21/2004			2.00E-03	-6.21E+00
YES	Coal		31	WYGeneralChemical	GR-3-W (D BOILER)	Hydrogen Chloride (HCl)	Sample #2	10/21/2004			2.00E-03	-6.21E+00
YES	Coal		31	WYGeneralChemical	GR-3-W (D BOILER)	Hydrogen Chloride (HCl)	Sample #3	10/21/2004			1.90E-03	-6.27E+00
YES	Coal		32	MNAmericanCrystalMoorhead	Boiler 3	Hydrogen Chloride (HCl)	Sample #1	11/16/2004			8.93E-04	-7.02E+00
YES	Coal		32	MNAmericanCrystalMoorhead	Boiler 3	Hydrogen Chloride (HCl)	Sample #2	11/16/2004			2.89E-03	-5.85E+00
YES	Coal		32	MNAmericanCrystalMoorhead	Boiler 3	Hydrogen Chloride (HCl)	Sample #3	11/16/2004			2.20E-03	-6.12E+00
YES	Coal		33	OH Painesville Municipal Electric	B003	Hydrogen Chloride (HCl)	Sample #1	5/28/2004			4.00E-03	-5.52E+00
YES	Coal		33	OH Painesville Municipal Electric	B003	Hydrogen Chloride (HCl)	Sample #1	8/4/2006			2.00E-03	-6.21E+00
YES	Coal		33	OH Painesville Municipal Electric	B003	Hydrogen Chloride (HCl)	Sample #2	8/4/2006			2.00E-03	-6.21E+00
YES	Coal		33	OH Painesville Municipal Electric	B003	Hydrogen Chloride (HCl)	Sample #2	5/28/2004			1.20E-02	-4.42E+00
YES	Coal		33	OH Painesville Municipal Electric	B003	Hydrogen Chloride (HCl)	Sample #3	5/28/2004			6.00E-03	-5.12E+00
YES	Coal		33	OH Painesville Municipal Electric	B003	Hydrogen Chloride (HCl)	Sample #3	8/4/2006			2.00E-03	-6.21E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		34	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #1	4/6/2005			3.17E-03	-5.75E+00
YES	Coal		34	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #1	6/27/2006			3.30E-03	-5.71E+00
YES	Coal		34	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #2	6/27/2006			5.50E-03	-5.20E+00
YES	Coal		34	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #2	4/6/2005			1.75E-03	-6.35E+00
YES	Coal		34	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #3	4/6/2005			3.05E-03	-5.79E+00
YES	Coal		34	INSABICInnovativePlastics	09-002 Erie Boiler	Hydrogen Chloride (HCl)	Sample #3	6/27/2006			5.90E-03	-5.13E+00
YES	Coal		35	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #1	4/7/2005			3.17E-03	-5.75E+00
YES	Coal		35	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #1	6/27/2006			3.30E-03	-5.71E+00
YES	Coal		35	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #2	4/7/2005			1.75E-03	-6.35E+00
YES	Coal		35	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #2	6/27/2006			5.50E-03	-5.20E+00
YES	Coal		35	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #3	6/27/2006			5.90E-03	-5.13E+00
YES	Coal		35	INSABICInnovativePlastics	09-002 Lasker Boiler	Hydrogen Chloride (HCl)	Sample #3	4/7/2005			3.05E-03	-5.79E+00
YES	Coal		36	WINewPage-Whiting	B24	Hydrogen Chloride (HCl)	Sample #1	8/24/2006			2.00E-03	-6.21E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Coal		36	WINewPage-Whiting	B24	Hydrogen Chloride (HCl)	Sample #2	8/24/2006			3.30E-03	-5.71E+00
YES	Coal		36	WINewPage-Whiting	B24	Hydrogen Chloride (HCl)	Sample #3	8/24/2006			2.90E-03	-5.84E+00
YES	Gas 1		1	SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Sample #1	9/10/2009			1.14E-04	-9.08E+00
YES	Gas 1		1	SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Sample #2	9/10/2009	ND		3.84E-05	-1.02E+01
YES	Gas 1		1	SCMichelinSandySprings	B:02:01	Hydrogen Chloride (HCl)	Sample #3	9/10/2009	ND		6.56E-05	-9.63E+00
YES	Gas 1		2	WYSinclairWYoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	1	11/18/2009	DL		1.26E-04	-8.98E+00
YES	Gas 1		2	WYSinclairWYoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	2	11/18/2009	DL		1.30E-04	-8.95E+00
YES	Gas 1		2	WYSinclairWYoming	Pt 74 #2 H2 Plant Heater	Hydrogen Chloride (HCl)	3	11/18/2009	DL		1.30E-04	-8.95E+00
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	M26-1	8/13/2009			9.81E-05	-9.23E+00
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	M26-2	8/14/2009			8.39E-05	-9.39E+00
YES	Gas 1	yes	1	CORockyMtnSteel212	Rod/Bar Mill Furnace 95OPPB088	Hydrogen Chloride (HCl)	M26-3	8/14/2009			7.58E-05	-9.49E+00
YES	Gas 1	yes	2	INALcoaWarri-ck	Annealing Furnace #15	Hydrogen Chloride (HCl)	M26A-1	8/17/2009	BDL		2.54E-04	-8.28E+00
YES	Gas 1	yes	2	INALcoaWarri-ck	Annealing Furnace #15	Hydrogen Chloride (HCl)	M26A-2	8/17/2009	BDL		2.34E-04	-8.36E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Gas 1	yes	2	INAlcoaWarri ck	Annealing Furnace #15	Hydrogen Chloride (HCl)	M26A-3	8/17/2009	BDL		2.48E-04	-8.30E+00
YES	Gas 2		1	LAShellChe micaGeismar	Furnace F- S801	Hydrogen Chloride (HCl)	Sample #1	8/25/2009	ND		1.57E-06	-1.34E+01
YES	Gas 2		1	LAShellChe micaGeismar	Furnace F- S801	Hydrogen Chloride (HCl)	Sample #2	8/26/2009	ND		1.85E-06	-1.32E+01
YES	Gas 2		1	LAShellChe micaGeismar	Furnace F- S801	Hydrogen Chloride (HCl)	Sample #3	8/27/2009	ND		1.68E-06	-1.33E+01
YES	Liquid		2	TNInvistaCh attanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Sample #1	7/29/2009	ND		6.18E-04	-7.39E+00
YES	Liquid		2	TNInvistaCh attanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Sample #1	8/31/2006			1.95E-04	-8.54E+00
YES	Liquid		2	TNInvistaCh attanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Sample #2	7/30/2009	ND		6.19E-04	-7.39E+00
YES	Liquid		2	TNInvistaCh attanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Sample #2	8/31/2006			2.09E-04	-8.47E+00
YES	Liquid		2	TNInvistaCh attanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Sample #3	7/30/2009	ND		6.24E-04	-7.38E+00
YES	Liquid		2	TNInvistaCh attanooga	EU003 - Vaporizer #2	Hydrogen Chloride (HCl)	Sample #3	8/31/2006			1.28E-04	-8.96E+00
YES	Liquid		3	INUSSteelG aryWorks	O4B10459	Hydrogen Chloride (HCl)	M26A-1	9/8/2009			2.33E-04	-8.36E+00
YES	Liquid		3	INUSSteelG aryWorks	O4B10459	Hydrogen Chloride (HCl)	M26A-2	9/8/2009			1.88E-04	-8.58E+00
YES	Liquid		3	INUSSteelG aryWorks	O4B10459	Hydrogen Chloride (HCl)	M26A-3	9/8/2009			1.99E-04	-8.52E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate _common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid		4	VAINVISTA Waynesboro	2-205 (V#1) Vaporizer #1	Hydrogen Chloride (HCl)	Sample #1	4/18/2008			3.15E-04	-8.06E+00
YES	Liquid		4	VAINVISTA Waynesboro	2-205 (V#1) Vaporizer #1	Hydrogen Chloride (HCl)	Sample #2	4/18/2008			2.07E-04	-8.48E+00
YES	Liquid		4	VAINVISTA Waynesboro	2-205 (V#1) Vaporizer #1	Hydrogen Chloride (HCl)	Sample #3	4/18/2008			2.08E-04	-8.48E+00
YES	Liquid			CTElectric Boat	EMU 18	Chlorine (Cl)	Sample #1		ND		5.60E-07	-1.44E+01
YES	Liquid			NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-HP-738-59	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-LCH-4022-19	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NCCampLej euneMCB	A-MG-SH8-58	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MG-SH8-58	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MG-SH8-58	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MG-SH8-58	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MG-SH8-58	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-MG-SH8-58	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-38	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-38	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-38	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-38	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-38	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-38	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-39	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-39	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-39	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-39	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-39	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-39	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-MP-230-40	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NCCampLejeuneMCB	A-MP-230-40	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-230-40	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-230-40	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-230-40	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-230-40	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-72	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-73	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-MP-625-74	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-01	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-02	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-100-05	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-118-03	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-04	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-H4	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-H4	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-H4	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-NH-120-H4	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NCCampLej euneMCB	A-NH-120- H4	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-NH-120- H4	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-NH-121- H1	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-NH-121- H1	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-NH-121- H1	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-NH-121- H1	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-NH-121- H1	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-NH-121- H1	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- 08	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- 08	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- 08	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- 08	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- 08	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- 08	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- H7	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- H7	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- H7	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- H7	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLej euneMCB	A-PP-1943- H7	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00

Appendix G-10: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metals Process Heater?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	lb/mmBtu	ln (lb/mmBtu)
YES	Liquid			NCCampLejeuneMCB	A-PP-1943-H7	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Sample #1		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Sample #2		ND		2.65E-04	-8.24E+00
YES	Liquid			NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00
YES	Liquid			NCCampLejeuneMCB	A-PP-2615-09	Chlorine (Cl)	Sample #3		ND		2.65E-04	-8.23E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		1	OKVRCOKlahoma	H-101	CO	Sample #3	10/22/1998			9.36E-03	-4.67E+00
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #1	10/20/1998			3.46E-01	-1.06E+00
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #1	10/21/1998			1.01E-02	-4.59E+00
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #2	12/3/1997			1.74E-01	-1.75E+00
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #2	12/3/1997			1.04E-01	-2.27E+00
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #2	10/20/1998			9.43E+00	2.24E+00
YES	Gas 1		2	OKVRCOKlahoma	H-102A	CO	Sample #3	10/20/1998			2.04E+01	3.02E+00
YES	Gas 1		3	TXRohmHaa sDeerPark	ACET-2B-4	CO	Sample #1	11/29/2006	ND		1.00E-02	-4.61E+00
YES	Gas 1		3	TXRohmHaa sDeerPark	ACET-2B-4	CO	Sample #1	11/30/2006			1.96E+00	6.73E-01
YES	Gas 1		3	TXRohmHaa sDeerPark	ACET-2B-4	CO	Sample #2	11/29/2006	ND		2.00E-02	-3.91E+00
YES	Gas 1		3	TXRohmHaa sDeerPark	ACET-2B-4	CO	Sample #2	11/30/2006			4.16E+00	1.43E+00
YES	Gas 1		3	TXRohmHaa sDeerPark	ACET-2B-4	CO	Sample #3	11/30/2006			4.91E+00	1.59E+00
YES	Gas 1		3	TXRohmHaa sDeerPark	ACET-2B-4	CO	Sample #3	11/29/2006	ND		1.00E-02	-4.61E+00
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #1	6/4/2008			1.19E+01	2.48E+00
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #1	7/7/2006			6.40E-01	-4.46E-01
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #1	10/5/2006			3.00E-01	-1.20E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #1	5/9/2007			1.16E+00	1.48E-01
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #2	5/11/2006			1.00E-02	-4.61E+00
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #2	5/24/2006			4.00E-02	-3.22E+00
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #2	10/5/2006			1.56E+00	4.45E-01
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #2	5/9/2007			9.60E-01	-4.08E-02
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #3	5/9/2007			1.23E+00	2.07E-01
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #3	5/11/2006			3.00E-02	-3.51E+00
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #3	5/24/2006			2.24E+00	8.06E-01
YES	Gas 1		4	OKConocoPhillipsPonca City	H-9902	CO	Sample #3	10/5/2006			2.57E+00	9.44E-01
YES	Gas 1		5	TXDiamondShamrockThreerivers	H-201	CO	Sample #1	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		5	TXDiamondShamrockThreerivers	H-201	CO	Sample #2	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		5	TXDiamondShamrockThreerivers	H-201	CO	Sample #3	7/3/1997			2.71E-02	-3.61E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		6	TXDiamondS hamrockThre eRivers	H-203	CO	Sample #1	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		6	TXDiamondS hamrockThre eRivers	H-203	CO	Sample #2	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		6	TXDiamondS hamrockThre eRivers	H-203	CO	Sample #3	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		7	TXDiamondS hamrockThre eRivers	H-204	CO	Sample #1	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		7	TXDiamondS hamrockThre eRivers	H-204	CO	Sample #2	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		7	TXDiamondS hamrockThre eRivers	H-204	CO	Sample #3	7/3/1997			2.71E-02	-3.61E+00
YES	Gas 1		8	VAWesternR efiningYorkto wn	F-562	CO	Sample #1	3/7/2007			3.94E-02	-3.23E+00
YES	Gas 1		9	OKConocoP hillipsPonca City	H-9851	CO	Sample #1	6/5/2008			4.00E-02	-3.22E+00
YES	Gas 1		9	OKConocoP hillipsPonca City	H-9851	CO	Sample #1	5/4/2006			5.00E-02	-3.00E+00
YES	Gas 1		9	OKConocoP hillipsPonca City	H-9851	CO	Sample #2	5/4/2006			1.10E-01	-2.21E+00
YES	Gas 1		9	OKConocoP hillipsPonca City	H-9851	CO	Sample #3	5/4/2006			1.00E-01	-2.30E+00
YES	Gas 1		10	INBPWhiting Refinery	B-601	CO	Sample #1	8/20/2007			1.10E-01	-2.21E+00
YES	Gas 1		10	INBPWhiting Refinery	B-601	CO	Sample #2	8/20/2007	ND		1.00E-02	-4.61E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		10	INBPWhiting Refinery	B-601	CO	Sample #3	8/20/2007	ND		1.00E-02	-4.61E+00
YES	Gas 1		11	OKConocoPhillipsPonca City	H-0016	CO	Sample #1	4/6/2005			6.00E-02	-2.81E+00
YES	Gas 1		11	OKConocoPhillipsPonca City	H-0016	CO	Sample #2	4/6/2005			2.00E-02	-3.91E+00
YES	Gas 1		11	OKConocoPhillipsPonca City	H-0016	CO	Sample #3	4/6/2005			5.00E-02	-3.00E+00
YES	Gas 1		12	TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	Sample #1	3/5/1991	ND		5.06E-02	-2.98E+00
YES	Gas 1		12	TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	Sample #2	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		12	TXOccidentalChemGregory	VCM Plant 1 Furnace 1	CO	Sample #3	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		13	TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	Sample #1	3/5/1991	ND		5.06E-02	-2.98E+00
YES	Gas 1		13	TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	Sample #2	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		13	TXOccidentalChemGregory	VCM Plant 1 Furnace 2	CO	Sample #3	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		14	TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	Sample #1	3/5/1991	ND		5.06E-02	-2.98E+00
YES	Gas 1		14	TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	Sample #2	3/5/1991	ND		5.00E-02	-3.00E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_ common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		14	TXOccidentalChemGregory	VCM Plant 1 Furnace 3	CO	Sample #3	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		15	TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	Sample #1	3/5/1991	ND		5.06E-02	-2.98E+00
YES	Gas 1		15	TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	Sample #2	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		15	TXOccidentalChemGregory	VCM Plant 1 Furnace 4	CO	Sample #3	3/5/1991	ND		5.00E-02	-3.00E+00
YES	Gas 1		16	MSChevronPascagoula	F-2103	CO	Sample #1	3/27/2008			5.41E-02	-2.92E+00
YES	Gas 1		16	MSChevronPascagoula	F-2103	CO	Sample #2	3/27/2008			5.41E-02	-2.92E+00
YES	Gas 1		16	MSChevronPascagoula	F-2103	CO	Sample #3	3/27/2008			5.41E-02	-2.92E+00
YES	Gas 1		17	TXDiamondShamrockThreerivers	H-1102	CO	Sample #1	7/9/1997			6.77E-02	-2.69E+00
YES	Gas 1		17	TXDiamondShamrockThreerivers	H-1102	CO	Sample #2	7/9/1997			6.77E-02	-2.69E+00
YES	Gas 1		17	TXDiamondShamrockThreerivers	H-1102	CO	Sample #3	7/9/1997			5.41E-02	-2.92E+00
YES	Gas 1		18	NJSunocoWestville	Boiler #8	CO	Sample #1	10/15/2007			7.89E-02	-2.54E+00
YES	Gas 1		18	NJSunocoWestville	Boiler #8	CO	Sample #2	10/15/2007			7.89E-02	-2.54E+00
YES	Gas 1		18	NJSunocoWestville	Boiler #8	CO	Sample #3	10/15/2007			3.95E-02	-3.23E+00
YES	Gas 1		19	KYCatlettsburgRefining	2-23-B-4	CO	Sample #1	4/21/2004			4.12E-01	-8.87E-01
YES	Gas 1		19	KYCatlettsburgRefining	2-23-B-4	CO	Sample #1	8/12/2005	ND		7.72E-02	-2.56E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		19	KYCatlettsburgRefining	2-23-B-4	CO	Sample #2	8/12/2005	ND		7.77E-02	-2.55E+00
YES	Gas 1		19	KYCatlettsburgRefining	2-23-B-4	CO	Sample #3	8/12/2005	ND		7.75E-02	-2.56E+00
YES	Gas 1		20	ILWoodRiverRefinery	HTR-DU1-F302	CO	Sample #1	4/11/2006			7.88E-02	-2.54E+00
YES	Gas 1		21	PASunocoMarcusHook	705 (12-4 LSG Heater, H01)	CO	Sample #1	2/4/2008			8.00E-02	-2.53E+00
YES	Gas 1		22	OKVRCOKlahoma	H-201	CO	Sample #1	6/22/2005			7.77E-02	-2.55E+00
YES	Gas 1		22	OKVRCOKlahoma	H-201	CO	Sample #1	6/22/2005			1.84E+02	5.21E+00
YES	Gas 1		22	OKVRCOKlahoma	H-201	CO	Sample #2	6/22/2005			9.15E-02	-2.39E+00
YES	Gas 1		22	OKVRCOKlahoma	H-201	CO	Sample #2	6/22/2005			5.56E+01	4.02E+00
YES	Gas 1		22	OKVRCOKlahoma	H-201	CO	Sample #3	6/22/2005			9.04E-02	-2.40E+00
YES	Gas 1		23	LACitgoLakeCharles	EQT242	CO	Sample #1	6/12/2003			8.95E-02	-2.41E+00
YES	Gas 1		24	INNucorSteel	Cold Mill Annealing	CO	Sample #1	6/24/2004			1.75E-01	-1.74E+00
YES	Gas 1		24	INNucorSteel	Cold Mill Annealing	CO	Sample #2	8/19/2009			9.01E-02	-2.41E+00
YES	Gas 1		25	MSChevronPascagoula	F-6701	CO	Sample #1	2/27/2007			1.21E-01	-2.12E+00
YES	Gas 1		25	MSChevronPascagoula	F-6701	CO	Sample #2	2/27/2007			8.06E-02	-2.52E+00
YES	Gas 1		25	MSChevronPascagoula	F-6701	CO	Sample #3	2/27/2007			7.95E-02	-2.53E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #1	6/9/2008	ND		9.83E-02	-2.32E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #1	6/12/2007	ND		1.06E-01	-2.25E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #1	6/13/2006	ND		1.12E-01	-2.19E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #2	6/9/2008	ND		9.92E-02	-2.31E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #2	6/12/2007	ND		1.07E-01	-2.24E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #2	6/13/2006	ND		1.13E-01	-2.18E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #3	6/13/2006	ND		1.12E-01	-2.19E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #3	6/9/2008	ND		1.00E-01	-2.30E+00
YES	Gas 1		26	KYCatlettsburgRefining	2-122-B-1	CO	Sample #3	6/12/2007	ND		1.08E-01	-2.22E+00
YES	Gas 1		27	ALHuntRefining	HS-2041A	CO	Sample #1	6/17/2008			1.00E-01	-2.30E+00
YES	Gas 1		28	ALHuntRefining	HS-2041B	CO	Sample #1	6/17/2008			1.00E-01	-2.30E+00
YES	Gas 1		29	ALHuntRefining	HS-2041C	CO	Sample #1	6/17/2008			1.00E-01	-2.30E+00
YES	Gas 1		30	OKConocoPhillipsPonca City	H-0003	CO	Sample #1	4/12/2002			1.60E-01	-1.83E+00
YES	Gas 1		30	OKConocoPhillipsPonca City	H-0003	CO	Sample #2	4/12/2002			4.00E-02	-3.22E+00
YES	Gas 1		31	TXAirProductsBaytown	BOILER (EPN 7)	CO	Sample #1	1/19/2006			1.00E-01	-2.30E+00
YES	Gas 1		31	TXAirProductsBaytown	BOILER (EPN 7)	CO	Sample #2	1/19/2006			1.00E-01	-2.30E+00
YES	Gas 1		31	TXAirProductsBaytown	BOILER (EPN 7)	CO	Sample #3	1/19/2006	ND		1.00E-01	-2.30E+00
YES	Gas 1		32	TXChevronBaytown	H-1001	CO	Sample #1	6/4/2004	ND		1.00E-01	-2.30E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		32	TXChevronB aytown	H-1001	CO	Sample #2	6/4/2004	ND		1.00E-01	-2.30E+00
YES	Gas 1		32	TXChevronB aytown	H-1001	CO	Sample #3	6/4/2004	ND		1.00E-01	-2.30E+00
YES	Gas 1		33	TXEquistarP asadena	Boiler (P-25)	CO	Sample #1	12/6/2007	ND		1.00E-01	-2.30E+00
YES	Gas 1		33	TXEquistarP asadena	Boiler (P-25)	CO	Sample #2	12/6/2007	ND		1.00E-01	-2.30E+00
YES	Gas 1		33	TXEquistarP asadena	Boiler (P-25)	CO	Sample #3	12/6/2007	ND		1.00E-01	-2.30E+00
YES	Gas 1		34	TXValeroTex asCity	Heater 13-1451	CO	Sample #1	8/15/2000	ND		1.00E-01	-2.30E+00
YES	Gas 1		34	TXValeroTex asCity	Heater 13-1451	CO	Sample #2	8/15/2000	ND		1.00E-01	-2.30E+00
YES	Gas 1		34	TXValeroTex asCity	Heater 13-1451	CO	Sample #3	8/15/2000	ND		1.00E-01	-2.30E+00
YES	Gas 1		35	TXValeroTex asCity	Heater 16	CO	Sample #1	11/1/1999	ND		1.00E-01	-2.30E+00
YES	Gas 1		35	TXValeroTex asCity	Heater 16	CO	Sample #2	11/1/1999	ND		1.00E-01	-2.30E+00
YES	Gas 1		35	TXValeroTex asCity	Heater 16	CO	Sample #3	11/1/1999	ND		1.00E-01	-2.30E+00
YES	Gas 1		36	TXValeroTex asCity	Heater 17	CO	Sample #1	11/1/1999	ND		1.00E-01	-2.30E+00
YES	Gas 1		36	TXValeroTex asCity	Heater 17	CO	Sample #2	11/1/1999	ND		1.00E-01	-2.30E+00
YES	Gas 1		36	TXValeroTex asCity	Heater 17	CO	Sample #3	11/1/1999	ND		1.00E-01	-2.30E+00
YES	Gas 1		37	TXValeroTex asCity	Heater 28	CO	Sample #1	10/31/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		37	TXValeroTex asCity	Heater 28	CO	Sample #2	10/31/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		37	TXValeroTex asCity	Heater 28	CO	Sample #3	10/31/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		38	TXValeroTex asCity	Heater 35	CO	Sample #1	3/14/2007	ND		1.00E-01	-2.30E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		38	TXValeroTexasCity	Heater 35	CO	Sample #2	3/14/2007	ND		1.00E-01	-2.30E+00
YES	Gas 1		38	TXValeroTexasCity	Heater 35	CO	Sample #3	3/14/2007	ND		1.00E-01	-2.30E+00
YES	Gas 1		39	TXValeroTexasCity	Heater 44	CO	Sample #1	1/6/2000	ND		1.00E-01	-2.30E+00
YES	Gas 1		39	TXValeroTexasCity	Heater 44	CO	Sample #2	1/6/2000	ND		1.00E-01	-2.30E+00
YES	Gas 1		39	TXValeroTexasCity	Heater 44	CO	Sample #3	1/6/2000	ND		1.00E-01	-2.30E+00
YES	Gas 1		40	LAWestlakeStyrene	1-90	CO	Sample #1	11/10/1992	ND		1.01E-01	-2.29E+00
YES	Gas 1		40	LAWestlakeStyrene	1-90	CO	Sample #2	11/10/1992	ND		1.02E-01	-2.29E+00
YES	Gas 1		40	LAWestlakeStyrene	1-90	CO	Sample #3	11/10/1992			1.00E-01	-2.30E+00
YES	Gas 1		41	OREvrazOregonSteel	EU-5 Vacuum Degasser Boiler	CO	Sample #3	4/25/2003			1.02E-01	-2.29E+00
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #1	9/12/2000	ND		1.02E-01	-2.28E+00
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #1	9/13/2000	ND		1.35E-01	-2.00E+00
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #1	9/12/2000	ND		1.02E-01	-2.28E+00
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #2	9/12/2000	ND		1.02E-01	-2.28E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #2	9/13/2000	ND		9.30E-02	-2.38E+00
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #3	9/12/2000	ND		1.02E-01	-2.28E+00
YES	Gas 1		42	LALakeCharlesChemical	LAB-LH-1 (Pacol Charge Heater)	CO	Sample #3	9/12/2000			5.60E+01	4.03E+00
YES	Gas 1		43	TXValeroTexasCity	Heater 45	CO	Sample #1	4/3/2001	ND		1.05E-01	-2.26E+00
YES	Gas 1		43	TXValeroTexasCity	Heater 45	CO	Sample #2	4/3/2001	ND		1.09E-01	-2.22E+00
YES	Gas 1		43	TXValeroTexasCity	Heater 45	CO	Sample #3	4/3/2001	ND		1.10E-01	-2.20E+00
YES	Gas 1		44	MSChevronPascagoula	F-8400	CO	Sample #1	11/7/2007			1.08E-01	-2.22E+00
YES	Gas 1		44	MSChevronPascagoula	F-8400	CO	Sample #2	11/7/2007			1.08E-01	-2.22E+00
YES	Gas 1		44	MSChevronPascagoula	F-8400	CO	Sample #3	11/7/2007			1.13E-01	-2.18E+00
YES	Gas 1		45	TXValeroTexasCity	Heater 46	CO	Sample #1	4/4/2001	ND		1.10E-01	-2.21E+00
YES	Gas 1		45	TXValeroTexasCity	Heater 46	CO	Sample #2	4/4/2001	ND		1.09E-01	-2.22E+00
YES	Gas 1		45	TXValeroTexasCity	Heater 46	CO	Sample #3	4/4/2001	ND		1.10E-01	-2.20E+00
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #1	4/23/2004			5.27E-01	-6.40E-01
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #1	8/10/2005	ND		1.14E-01	-2.18E+00
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #2	8/10/2005	ND		1.17E-01	-2.15E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		46	KYCatlettsburgRefining	2-30-B-1	CO	Sample #3	8/10/2005	ND		1.19E-01	-2.13E+00
YES	Gas 1		47	LAShellChemicaGeismar	Furnace F-S2801	CO	Sample #1	2/14/2006	ND		1.01E-01	-2.29E+00
YES	Gas 1		47	LAShellChemicaGeismar	Furnace F-S2801	CO	Sample #2	2/14/2006	ND		1.19E-01	-2.13E+00
YES	Gas 1		47	LAShellChemicaGeismar	Furnace F-S2801	CO	Sample #3	2/14/2006	ND		1.33E-01	-2.02E+00
YES	Gas 1		48	KYCatlettsburgRefining	2-23-B-3	CO	Sample #1	8/16/2005	ND		1.19E-01	-2.13E+00
YES	Gas 1		48	KYCatlettsburgRefining	2-23-B-3	CO	Sample #2	8/16/2005	ND		1.17E-01	-2.14E+00
YES	Gas 1		48	KYCatlettsburgRefining	2-23-B-3	CO	Sample #3	8/16/2005	ND		1.18E-01	-2.13E+00
YES	Gas 1		49	TXRohmHassDeerPark	N-13	CO	Sample #1	11/8/2006			1.20E-01	-2.12E+00
YES	Gas 1		49	TXRohmHassDeerPark	N-13	CO	Sample #2	11/8/2006			1.20E-01	-2.12E+00
YES	Gas 1		49	TXRohmHassDeerPark	N-13	CO	Sample #3	11/8/2006			1.20E-01	-2.12E+00
YES	Gas 1		50	TXWesternRefining	F-4150	CO	Sample #1	8/26/2005			1.22E-01	-2.11E+00
YES	Gas 1		50	TXWesternRefining	F-4150	CO	Sample #2	8/26/2005			1.22E-01	-2.11E+00
YES	Gas 1		50	TXWesternRefining	F-4150	CO	Sample #3	8/26/2005			1.22E-01	-2.11E+00
YES	Gas 1		51	TXWesternRefining	F-4160	CO	Sample #1	8/26/2005			1.22E-01	-2.11E+00
YES	Gas 1		51	TXWesternRefining	F-4160	CO	Sample #2	8/26/2005			1.22E-01	-2.11E+00
YES	Gas 1		51	TXWesternRefining	F-4160	CO	Sample #3	8/26/2005			1.22E-01	-2.11E+00
YES	Gas 1		52	TXValeroTexasCity	Heater 57	CO	Sample #1	1/28/2004	ND		1.27E-01	-2.07E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		52	TXValeroTexasCity	Heater 57	CO	Sample #2	1/28/2004	ND		1.28E-01	-2.06E+00
YES	Gas 1		52	TXValeroTexasCity	Heater 57	CO	Sample #3	1/28/2004	ND		1.28E-01	-2.06E+00
YES	Gas 1		53	MSChevronPascagoula	F-2440	CO	Sample #1	5/15/2007			9.53E-02	-2.35E+00
YES	Gas 1		53	MSChevronPascagoula	F-2440	CO	Sample #2	5/15/2007			1.26E-01	-2.07E+00
YES	Gas 1		53	MSChevronPascagoula	F-2440	CO	Sample #3	5/15/2007			1.61E-01	-1.82E+00
YES	Gas 1		54	MSChevronPascagoula	F-2450	CO	Sample #1	5/15/2007			9.53E-02	-2.35E+00
YES	Gas 1		54	MSChevronPascagoula	F-2450	CO	Sample #2	5/15/2007			1.26E-01	-2.07E+00
YES	Gas 1		54	MSChevronPascagoula	F-2450	CO	Sample #3	5/15/2007			1.61E-01	-1.82E+00
YES	Gas 1		55	MSChevronPascagoula	F-2460	CO	Sample #1	5/15/2007			9.53E-02	-2.35E+00
YES	Gas 1		55	MSChevronPascagoula	F-2460	CO	Sample #2	5/15/2007			1.26E-01	-2.07E+00
YES	Gas 1		55	MSChevronPascagoula	F-2460	CO	Sample #3	5/15/2007			1.61E-01	-1.82E+00
YES	Gas 1		56	MSChevronPascagoula	F-2470	CO	Sample #1	5/15/2007			9.53E-02	-2.35E+00
YES	Gas 1		56	MSChevronPascagoula	F-2470	CO	Sample #2	5/15/2007			1.26E-01	-2.07E+00
YES	Gas 1		56	MSChevronPascagoula	F-2470	CO	Sample #3	5/15/2007			1.61E-01	-1.82E+00
YES	Gas 1		57	MSChevronPascagoula	F-2480	CO	Sample #1	5/15/2007			9.53E-02	-2.35E+00
YES	Gas 1		57	MSChevronPascagoula	F-2480	CO	Sample #2	5/15/2007			1.26E-01	-2.07E+00
YES	Gas 1		57	MSChevronPascagoula	F-2480	CO	Sample #3	5/15/2007			1.61E-01	-1.82E+00
YES	Gas 1		58	MSChevronPascagoula	F-2490	CO	Sample #1	5/15/2007			9.53E-02	-2.35E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		58	MSChevronPascagoula	F-2490	CO	Sample #2	5/15/2007			1.26E-01	-2.07E+00
YES	Gas 1		58	MSChevronPascagoula	F-2490	CO	Sample #3	5/15/2007			1.61E-01	-1.82E+00
YES	Gas 1		59	WAConocoPhillipsFerndale	38F-101	CO	Sample #1	1/10/2008	ND		1.29E-01	-2.05E+00
YES	Gas 1		59	WAConocoPhillipsFerndale	38F-101	CO	Sample #2	1/10/2008	ND		1.29E-01	-2.05E+00
YES	Gas 1		59	WAConocoPhillipsFerndale	38F-101	CO	Sample #3	1/10/2008	ND		1.29E-01	-2.05E+00
YES	Gas 1		60	TXValeroTexasCity	Heater 58	CO	Sample #1	1/29/2004	ND		1.32E-01	-2.02E+00
YES	Gas 1		60	TXValeroTexasCity	Heater 58	CO	Sample #2	1/29/2004	ND		1.27E-01	-2.06E+00
YES	Gas 1		60	TXValeroTexasCity	Heater 58	CO	Sample #3	1/29/2004	ND		1.27E-01	-2.06E+00
YES	Gas 1		61	TXRohmHassDeerPark	ACET-2B-1	CO	Sample #1	11/14/2006	ND		1.30E-01	-2.04E+00
YES	Gas 1		61	TXRohmHassDeerPark	ACET-2B-1	CO	Sample #1	11/13/2006			1.23E+00	2.07E-01
YES	Gas 1		61	TXRohmHassDeerPark	ACET-2B-1	CO	Sample #2	11/13/2006			8.30E-01	-1.86E-01
YES	Gas 1		61	TXRohmHassDeerPark	ACET-2B-1	CO	Sample #2	11/14/2006	ND		1.30E-01	-2.04E+00
YES	Gas 1		61	TXRohmHassDeerPark	ACET-2B-1	CO	Sample #3	11/14/2006	ND		1.30E-01	-2.04E+00
YES	Gas 1		61	TXRohmHassDeerPark	ACET-2B-1	CO	Sample #3	11/13/2006			3.30E-01	-1.11E+00
YES	Gas 1		62	TXValeroTexasCity	Heater 18	CO	Sample #1	10/15/2002			2.00E-01	-1.61E+00
YES	Gas 1		62	TXValeroTexasCity	Heater 18	CO	Sample #2	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		62	TXValeroTexasCity	Heater 18	CO	Sample #3	10/15/2002	ND		1.00E-01	-2.30E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		63	TXValeroTexasCity	Heater 19	CO	Sample #1	10/15/2002			2.00E-01	-1.61E+00
YES	Gas 1		63	TXValeroTexasCity	Heater 19	CO	Sample #2	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		63	TXValeroTexasCity	Heater 19	CO	Sample #3	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		64	TXValeroTexasCity	Heater 20	CO	Sample #1	10/15/2002			2.00E-01	-1.61E+00
YES	Gas 1		64	TXValeroTexasCity	Heater 20	CO	Sample #2	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		64	TXValeroTexasCity	Heater 20	CO	Sample #3	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		65	TXValeroTexasCity	Heater 21	CO	Sample #1	10/15/2002			2.00E-01	-1.61E+00
YES	Gas 1		65	TXValeroTexasCity	Heater 21	CO	Sample #2	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		65	TXValeroTexasCity	Heater 21	CO	Sample #3	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		66	TXValeroTexasCity	Heater 22	CO	Sample #1	10/15/2002			2.00E-01	-1.61E+00
YES	Gas 1		66	TXValeroTexasCity	Heater 22	CO	Sample #2	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		66	TXValeroTexasCity	Heater 22	CO	Sample #3	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		67	TXValeroTexasCity	Heater 23	CO	Sample #1	10/15/2002			2.00E-01	-1.61E+00
YES	Gas 1		67	TXValeroTexasCity	Heater 23	CO	Sample #2	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		67	TXValeroTexasCity	Heater 23	CO	Sample #3	10/15/2002	ND		1.00E-01	-2.30E+00
YES	Gas 1		68	TXWesternRefining	H-8801	CO	Sample #1	5/16/2007			1.00E-01	-2.30E+00
YES	Gas 1		68	TXWesternRefining	H-8801	CO	Sample #2	5/16/2007			7.00E-02	-2.66E+00
YES	Gas 1		68	TXWesternRefining	H-8801	CO	Sample #3	5/16/2007			2.30E-01	-1.47E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		69	TXWesternRefining	H-8802	CO	Sample #1	5/16/2007			1.00E-01	-2.30E+00
YES	Gas 1		69	TXWesternRefining	H-8802	CO	Sample #2	5/16/2007			7.00E-02	-2.66E+00
YES	Gas 1		69	TXWesternRefining	H-8802	CO	Sample #3	5/16/2007			2.30E-01	-1.47E+00
YES	Gas 1		70	IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	CO	Sample #2	3/7/2008			1.35E-01	-2.00E+00
YES	Gas 1		70	IAADMClinton	EUCOG-5 #2 Gas Fired Boiler	CO	Sample #3	3/10/2008			1.35E-01	-2.00E+00
YES	Gas 1		71	TXDeerParkRefinery	H31003	CO	Sample #1	5/25/2001	ND		1.35E-01	-2.00E+00
YES	Gas 1		71	TXDeerParkRefinery	H31003	CO	Sample #2	5/25/2001	ND		1.35E-01	-2.00E+00
YES	Gas 1		71	TXDeerParkRefinery	H31003	CO	Sample #3	5/25/2001	ND		1.35E-01	-2.00E+00
YES	Gas 1		72	TXDeerParkRefinery	H5104	CO	Sample #1	5/23/2001	ND		1.35E-01	-2.00E+00
YES	Gas 1		72	TXDeerParkRefinery	H5104	CO	Sample #2	5/23/2001	ND		1.35E-01	-2.00E+00
YES	Gas 1		72	TXDeerParkRefinery	H5104	CO	Sample #3	5/23/2001	ND		1.35E-01	-2.00E+00
YES	Gas 1		73	TXLyondellIPasadena	B-1751	CO	Sample #1	1/26/2007			1.35E-01	-2.00E+00
YES	Gas 1		73	TXLyondellIPasadena	B-1751	CO	Sample #2	1/26/2007			1.35E-01	-2.00E+00
YES	Gas 1		73	TXLyondellIPasadena	B-1751	CO	Sample #3	1/26/2007			1.35E-01	-2.00E+00
YES	Gas 1		74	TXLyondellIPasadena	B-2890	CO	Sample #1	1/24/2007			1.35E-01	-2.00E+00
YES	Gas 1		74	TXLyondellIPasadena	B-2890	CO	Sample #2	1/24/2007			1.35E-01	-2.00E+00
YES	Gas 1		74	TXLyondellIPasadena	B-2890	CO	Sample #3	1/24/2007			1.35E-01	-2.00E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		75	TXLyondellIP asadena	B-801	CO	Sample #1	3/22/2007			1.35E-01	-2.00E+00
YES	Gas 1		75	TXLyondellIP asadena	B-801	CO	Sample #2	3/22/2007			1.35E-01	-2.00E+00
YES	Gas 1		75	TXLyondellIP asadena	B-801	CO	Sample #3	3/22/2007			1.35E-01	-2.00E+00
YES	Gas 1		76	TXWesternRefining	F-1602	CO	Sample #1	8/25/2005			1.35E-01	-2.00E+00
YES	Gas 1		76	TXWesternRefining	F-1602	CO	Sample #2	8/25/2005			1.35E-01	-2.00E+00
YES	Gas 1		76	TXWesternRefining	F-1602	CO	Sample #3	8/25/2005			1.35E-01	-2.00E+00
YES	Gas 1		77	TXRohmHassDeerPark	HT-49	CO	Sample #1	12/6/2006	ND		1.40E-01	-1.97E+00
YES	Gas 1		77	TXRohmHassDeerPark	HT-49	CO	Sample #2	12/6/2006	ND		1.40E-01	-1.97E+00
YES	Gas 1		78	TXRohmHassDeerPark	N-12	CO	Sample #1	11/7/2006			1.40E-01	-1.97E+00
YES	Gas 1		78	TXRohmHassDeerPark	N-12	CO	Sample #2	11/7/2006			1.30E-01	-2.04E+00
YES	Gas 1		78	TXRohmHassDeerPark	N-12	CO	Sample #3	11/7/2006			1.50E-01	-1.90E+00
YES	Gas 1		79	LAShellChemicaGeismar	Furnace F-S801	CO	Sample #1	2/15/2006	ND		1.35E-01	-2.01E+00
YES	Gas 1		79	LAShellChemicaGeismar	Furnace F-S801	CO	Sample #2	2/15/2006	ND		1.43E-01	-1.94E+00
YES	Gas 1		79	LAShellChemicaGeismar	Furnace F-S801	CO	Sample #3	2/15/2006	ND		1.43E-01	-1.94E+00
YES	Gas 1		80	DEDuPontEdgemoor	RX-9	CO	Sample #1	6/28/2007	ND		1.05E-01	-2.25E+00
YES	Gas 1		80	DEDuPontEdgemoor	RX-9	CO	Sample #2	6/28/2007			1.05E-01	-2.25E+00
YES	Gas 1		80	DEDuPontEdgemoor	RX-9	CO	Sample #3	6/28/2007			2.11E-01	-1.56E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		81	PANorfolkSouthern	Boiler 1	CO	Sample #1	10/19/2006			4.56E+00	1.52E+00
YES	Gas 1		81	PANorfolkSouthern	Boiler 1	CO	Sample #2	10/19/2006			2.53E+00	9.28E-01
YES	Gas 1		81	PANorfolkSouthern	Boiler 1	CO	Sample #2	10/19/2006			8.00E-02	-2.53E+00
YES	Gas 1		81	PANorfolkSouthern	Boiler 1	CO	Sample #3	10/19/2006			1.50E-01	-1.90E+00
YES	Gas 1		81	PANorfolkSouthern	Boiler 1	CO	Sample #3	10/19/2006			1.08E+00	7.70E-02
YES	Gas 1		81	PANorfolkSouthern	Boiler 1	CO	Sample #3	10/19/2006			2.58E+00	9.48E-01
YES	Gas 1		82	TXWesternRefining	109	CO	Sample #1	2/28/2006			4.59E-02	-3.08E+00
YES	Gas 1		82	TXWesternRefining	109	CO	Sample #2	2/28/2006			1.95E-01	-1.63E+00
YES	Gas 1		82	TXWesternRefining	109	CO	Sample #3	2/28/2006			2.31E-01	-1.47E+00
YES	Gas 1		83	TXRohmHassDeerPark	ACET-2A-1	CO	Sample #1	11/14/2006			1.70E-01	-1.77E+00
YES	Gas 1		83	TXRohmHassDeerPark	ACET-2A-1	CO	Sample #1	11/13/2006			4.71E+00	1.55E+00
YES	Gas 1		83	TXRohmHassDeerPark	ACET-2A-1	CO	Sample #2	11/14/2006			1.50E-01	-1.90E+00
YES	Gas 1		83	TXRohmHassDeerPark	ACET-2A-1	CO	Sample #2	11/13/2006			7.42E+00	2.00E+00
YES	Gas 1		83	TXRohmHassDeerPark	ACET-2A-1	CO	Sample #3	11/14/2006			1.80E-01	-1.71E+00
YES	Gas 1		83	TXRohmHassDeerPark	ACET-2A-1	CO	Sample #3	11/13/2006			6.56E+00	1.88E+00
YES	Gas 1		84	TXValeroCorpusChristi	154-H-1	CO	Sample #1	5/20/2008	ND		1.00E-01	-2.30E+00
YES	Gas 1		84	TXValeroCorpusChristi	154-H-1	CO	Sample #2	5/20/2008			2.00E-01	-1.61E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		84	TXValeroCorpusChristi	154-H-1	CO	Sample #3	5/20/2008			2.00E-01	-1.61E+00
YES	Gas 1		85	MSChevronPascagoula	F-6410	CO	Sample #1	12/6/2007			6.27E-02	-2.77E+00
YES	Gas 1		85	MSChevronPascagoula	F-6410	CO	Sample #2	12/6/2007			6.33E-02	-2.76E+00
YES	Gas 1		85	MSChevronPascagoula	F-6410	CO	Sample #3	12/6/2007			3.78E-01	-9.74E-01
YES	Gas 1		86	KYCatlettsburgRefining	2-36-B-1	CO	Sample #1	9/14/2005	ND		1.69E-01	-1.78E+00
YES	Gas 1		86	KYCatlettsburgRefining	2-36-B-1	CO	Sample #1	6/23/2004	ND		3.12E+00	1.14E+00
YES	Gas 1		86	KYCatlettsburgRefining	2-36-B-1	CO	Sample #2	6/23/2004	ND		3.14E+00	1.14E+00
YES	Gas 1		86	KYCatlettsburgRefining	2-36-B-1	CO	Sample #2	9/14/2005	ND		1.69E-01	-1.78E+00
YES	Gas 1		86	KYCatlettsburgRefining	2-36-B-1	CO	Sample #3	9/14/2005	ND		1.69E-01	-1.78E+00
YES	Gas 1		86	KYCatlettsburgRefining	2-36-B-1	CO	Sample #3	6/23/2004	ND		3.17E+00	1.15E+00
YES	Gas 1		87	OKConocoPhillipsPoncaCity	H-0048	CO	Sample #1	4/7/2005			2.20E-01	-1.51E+00
YES	Gas 1		87	OKConocoPhillipsPoncaCity	H-0048	CO	Sample #2	4/7/2005			1.60E-01	-1.83E+00
YES	Gas 1		87	OKConocoPhillipsPoncaCity	H-0048	CO	Sample #3	4/7/2005			1.30E-01	-2.04E+00
YES	Gas 1		88	MTMontanaRefining	H-1801 Hydrogen Plant Heater	CO	Sample #1	9/20/2007			1.71E-01	-1.76E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1		88	MTMontana Refining	H-1801 Hydrogen Plant Heater	CO	Sample #2	9/20/2007			8.57E-02	-2.46E+00
YES	Gas 1		88	MTMontana Refining	H-1801 Hydrogen Plant Heater	CO	Sample #3	9/20/2007			2.57E-01	-1.36E+00
YES	Gas 1		89	TXRohmHaa sDeerPark	ACET-2A-3	CO	Sample #1	11/28/2006			4.00E-01	-9.16E-01
YES	Gas 1		89	TXRohmHaa sDeerPark	ACET-2A-3	CO	Sample #1	11/27/2006			3.70E-01	-9.94E-01
YES	Gas 1		89	TXRohmHaa sDeerPark	ACET-2A-3	CO	Sample #2	11/28/2006			4.30E-01	-8.44E-01
YES	Gas 1		89	TXRohmHaa sDeerPark	ACET-2A-3	CO	Sample #2	11/27/2006			8.00E-02	-2.53E+00
YES	Gas 1		89	TXRohmHaa sDeerPark	ACET-2A-3	CO	Sample #3	11/27/2006			8.00E-02	-2.53E+00
YES	Gas 1		89	TXRohmHaa sDeerPark	ACET-2A-3	CO	Sample #3	11/28/2006			3.40E-01	-1.08E+00
YES	Gas 1		90	MSChevronP ascagoula	F-8300B	CO	Sample #1	3/2/2007			7.88E-02	-2.54E+00
YES	Gas 1		90	MSChevronP ascagoula	F-8300B	CO	Sample #2	3/2/2007			7.90E-02	-2.54E+00
YES	Gas 1		90	MSChevronP ascagoula	F-8300B	CO	Sample #3	3/2/2007			3.96E-01	-9.27E-01
YES	Gas 1		91	VAUniversity ofVirginia	7103-1-01R	CO	Sample #1	12/5/2007			2.60E-01	-1.35E+00
YES	Gas 1		91	VAUniversity ofVirginia	7103-1-01R	CO	Sample #2	12/5/2007			1.30E-01	-2.04E+00
YES	Gas 1	yes	1	CORockyMtn Steel212	Rod/Bar Mill Furnace 950PPB088	CO	M10-1	8/12/2009			5.68E-01	-5.66E-01
YES	Gas 1	yes	1	CORockyMtn Steel212	Rod/Bar Mill Furnace 950PPB088	CO	M10-3	8/13/2009			1.48E-01	-1.91E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 1	yes	1	CORockyMtn Steel212	Rod/Bar Mill Furnace 95OPPB088	CO	M10-4	8/13/2009			4.36E-01	-8.30E-01
YES	Gas 1	yes	1	CORockyMtn Steel212	Rod/Bar Mill Furnace 95OPPB088	CO	M10-6	8/14/2009			8.59E-01	-1.52E-01
YES	Gas 1	yes	2	MDSeverstal Sparrows	CRM Batch Annealing Furnaces	CO	Sample #1	7/18/2000	ND		1.35E+00	3.03E-01
YES	Gas 1	yes	2	MDSeverstal Sparrows	CRM Batch Annealing Furnaces	CO	Sample #2	7/18/2000	ND		1.35E+00	3.03E-01
YES	Gas 1	yes	2	MDSeverstal Sparrows	CRM Batch Annealing Furnaces	CO	Sample #3	7/19/2000	ND		1.35E+00	3.03E-01
YES	Gas 2		1	TXEquistarC hemicals	UTBLRG	CO	Sample #1	2/28/2006			2.23E-02	-3.80E+00
YES	Gas 2		1	TXEquistarC hemicals	UTBLRG	CO	Sample #2	2/28/2006			2.07E-02	-3.88E+00
YES	Gas 2		1	TXEquistarC hemicals	UTBLRG	CO	Sample #3	2/28/2006			2.04E-02	-3.89E+00
YES	Gas 2		2	TXFlintHillsPortArthur	LOUBOILER 10	CO	Sample #1	6/10/1998	ND		1.00E-01	-2.30E+00
YES	Gas 2		2	TXFlintHillsPortArthur	LOUBOILER 10	CO	Sample #2	6/10/1998			4.00E-02	-3.22E+00
YES	Gas 2		2	TXFlintHillsPortArthur	LOUBOILER 10	CO	Sample #3	6/10/1998	ND		1.00E-01	-2.30E+00
YES	Gas 2		3	TXEquistarC hannelview	F38001A	CO	Sample #1	2/16/2004	ND		1.00E-01	-2.30E+00
YES	Gas 2		3	TXEquistarC hannelview	F38001A	CO	Sample #2	2/16/2004	ND		1.00E-01	-2.30E+00
YES	Gas 2		3	TXEquistarC hannelview	F38001A	CO	Sample #3	2/16/2004	ND		1.00E-01	-2.30E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 2			TXEquistarC 4 hannelview	F38001B	CO	Sample #1	2/16/2004	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXEquistarC 4 hannelview	F38001B	CO	Sample #2	2/16/2004	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXEquistarC 4 hannelview	F38001B	CO	Sample #3	2/16/2004	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXFlintHillsP 5 ortArthur	LOUBOILER 9	CO	Sample #1	6/9/1998	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXFlintHillsP 5 ortArthur	LOUBOILER 9	CO	Sample #2	6/9/1998	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXFlintHillsP 5 ortArthur	LOUBOILER 9	CO	Sample #3	6/9/1998	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXLyondellC 6 hannelview	F6101	CO	Sample #1	8/7/2002	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXLyondellC 6 hannelview	F6101	CO	Sample #2	8/7/2002	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXLyondellC 6 hannelview	F6101	CO	Sample #3	8/7/2002	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXLyondellC 7 hannelview	F6105	CO	Sample #1	8/8/2002	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXLyondellC 7 hannelview	F6105	CO	Sample #2	8/8/2002	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXLyondellC 7 hannelview	F6105	CO	Sample #3	8/8/2002	ND		1.00E-01	-2.30E+00
YES	Gas 2			TXEquistarC 8 hannelview	F4601	CO	Sample #1	2/13/2007	ND		1.10E-01	-2.21E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Gas 2		8	TXEquistarC hannelview	F4601	CO	Sample #2	2/13/2007	ND		1.10E-01	-2.21E+00
YES	Gas 2		8	TXEquistarC hannelview	F4601	CO	Sample #3	2/13/2007	ND		1.10E-01	-2.21E+00
YES	Gas 2		9	TXLyondellC hannelview	F6103	CO	Sample #1	2/26/2007	ND		1.10E-01	-2.21E+00
YES	Gas 2		9	TXLyondellC hannelview	F6103	CO	Sample #2	2/26/2007	ND		1.10E-01	-2.21E+00
YES	Gas 2		9	TXLyondellC hannelview	F6103	CO	Sample #3	2/26/2007	ND		1.10E-01	-2.21E+00
YES	Liquid		1	SCDAKAmer icas	P8F	CO	Sample #4	7/15/2009			6.43E-02	-2.74E+00
YES	Liquid		1	SCDAKAmer icas	P8F	CO	Sample #5	7/15/2009			3.86E-02	-3.25E+00
YES	Liquid		2	ORGeorgiaP acificWauna Mill	EU33 - Power Boiler	CO	Sample #1	3/14/2007	ND		1.25E-01	-2.08E+00
YES	Liquid		2	ORGeorgiaP acificWauna Mill	EU33 - Power Boiler	CO	Sample #2	3/14/2007	ND		1.25E-01	-2.08E+00
YES	Liquid		2	ORGeorgiaP acificWauna Mill	EU33 - Power Boiler	CO	Sample #3	3/14/2007	ND		1.25E-01	-2.08E+00
YES	Liquid		3	NJSunocoW estville	Boiler #8	CO	Sample #1	11/20/2007	ND		1.28E-01	-2.05E+00
YES	Liquid		3	NJSunocoW estville	Boiler #8	CO	Sample #2	11/20/2007	ND		1.28E-01	-2.05E+00
YES	Liquid		3	NJSunocoW estville	Boiler #8	CO	Sample #3	11/20/2007	ND		1.28E-01	-2.05E+00
YES	Liquid		4	NJSunocoW estville	Boiler #7	CO	Sample #1	12/19/2005			3.86E-02	-3.25E+00

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Liquid		4	NJSunocoW estville	Boiler #7	CO	Sample #2	12/19/2005			2.83E-01	-1.26E+00
YES	Liquid		4	NJSunocoW estville	Boiler #7	CO	Sample #3	12/19/2005			2.70E-01	-1.31E+00
YES	Liquid		5	NENebraska CityStation	Auxiliary Boiler 2	CO	Sample #1	6/6/2007			2.80E-01	-1.27E+00
YES	Liquid		5	NENebraska CityStation	Auxiliary Boiler 2	CO	Sample #2	6/6/2007			2.10E-01	-1.56E+00
YES	Liquid		5	NENebraska CityStation	Auxiliary Boiler 2	CO	Sample #3	6/6/2007			3.30E-01	-1.11E+00
YES	Liquid		6	NJSunocoW estville	Boiler #5	CO	Sample #1	11/16/2007			3.85E-01	-9.55E-01
YES	Liquid		6	NJSunocoW estville	Boiler #5	CO	Sample #2	11/16/2007			2.57E-01	-1.36E+00
YES	Liquid		6	NJSunocoW estville	Boiler #5	CO	Sample #3	11/16/2007			2.57E-01	-1.36E+00
YES	Liquid		7	SCGPCChem Russellville	FO Boiler	CO	Sample #1	8/25/2009			1.03E-01	-2.27E+00
YES	Liquid		7	SCGPCChem Russellville	FO Boiler	CO	Sample #2	8/25/2009			7.72E-02	-2.56E+00
YES	Liquid		7	SCGPCChem Russellville	FO Boiler	CO	Sample #3	8/25/2009			9.39E-01	-6.25E-02
YES	Liquid		8	NJMerckRah way	E750009 - Boiler #9	CO	Sample #1	3/14/2008	ND		5.15E-01	-6.64E-01
YES	Liquid		8	NJMerckRah way	E750009 - Boiler #9	CO	Sample #2	3/14/2008	ND		5.15E-01	-6.64E-01
YES	Liquid		8	NJMerckRah way	E750009 - Boiler #9	CO	Sample #3	3/14/2008	ND		5.15E-01	-6.64E-01
YES	Liquid		9	OHOSUColu mbus	B140	CO	Sample #1	2/2/2005	ND		5.19E-01	-6.55E-01
YES	Liquid		9	OHOSUColu mbus	B140	CO	Sample #2	2/2/2005			5.93E-01	-5.22E-01
YES	Liquid		9	OHOSUColu mbus	B140	CO	Sample #3	2/2/2005	ND		5.21E-01	-6.53E-01
YES	Liquid		10	NCCampLej euneMCB	C-CG-650- 84B	CO	Sample #1	3/18/2008			7.00E-01	-3.57E-01

Appendix G-11: Ranked Existing Unit Performance by Fuel under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Metal Furnace?	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ln (ppm @ 3% O2)
YES	Liquid		10	NCCampLejeuneMCB	C-CG-650-84B	CO	Sample #2	3/18/2008			8.00E-01	-2.23E-01
YES	Liquid		10	NCCampLejeuneMCB	C-CG-650-84B	CO	Sample #3	3/18/2008			2.00E-01	-1.61E+00
YES	Liquid		11	VADominionPossumPoint	Aux. Boiler 001	CO	Sample #1	3/11/2008			3.95E-01	-9.30E-01
YES	Liquid		11	VADominionPossumPoint	Aux. Boiler 001	CO	Sample #2	3/11/2008			7.71E-01	-2.60E-01
YES	Liquid		11	VADominionPossumPoint	Aux. Boiler 001	CO	Sample #3	3/11/2008			7.20E-01	-3.28E-01
YES	Liquid		12	PAKeystonePowerPlantShelocta	Aux Boiler A	CO	Sample #1	6/22/1993			3.03E-01	-1.19E+00
YES	Liquid		12	PAKeystonePowerPlantShelocta	Aux Boiler A	CO	Sample #2	6/22/1993			1.22E+00	1.95E-01
YES	Liquid		13	NJSunocoWestville	Boiler #6	CO	Sample #1	11/15/2007			8.98E-01	-1.08E-01
YES	Liquid		13	NJSunocoWestville	Boiler #6	CO	Sample #2	11/15/2007			7.70E-01	-2.62E-01
YES	Liquid		13	NJSunocoWestville	Boiler #6	CO	Sample #3	11/15/2007			8.98E-01	-1.08E-01

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID _common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	1/25/2007			8.88E+02	6.79E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	11/15/2002			4.67E+02	6.15E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	2/8/1999			2.08E+02	5.34E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	1/5/2001			1.79E+01	2.88E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	2/4/2005			2.07E+02	5.33E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	12/17/1999			6.89E+02	6.54E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	1/31/2000			5.86E+02	6.37E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	12/30/2003			1.45E+03	7.28E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	1/24/2008			2.42E+02	5.49E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	5/3/2005			1.77E+02	5.18E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	1/9/2002			3.53E+02	5.87E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #1	1/5/2006			2.87E+02	5.66E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	1/31/2000			6.99E+02	6.55E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	12/30/2003			4.83E+02	6.18E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	1/5/2001			1.91E+01	2.95E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	5/3/2005			3.14E+02	5.75E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	1/25/2007			2.82E+02	5.64E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	12/17/1999			1.53E+02	5.03E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	1/5/2006			3.18E+02	5.76E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	11/15/2002			1.71E+02	5.14E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	2/8/1999			1.66E+02	5.11E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	1/9/2002			3.98E+02	5.99E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	2/4/2005			2.90E+02	5.67E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #2	1/24/2008			2.76E+02	5.62E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	1/31/2000			4.24E+02	6.05E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	12/30/2003			4.40E+02	6.09E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	5/5/2005			1.84E+02	5.21E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	1/9/2002			7.49E+02	6.62E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	11/15/2002			1.45E+02	4.98E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	1/24/2008			6.10E+02	6.41E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	1/5/2001			1.91E+01	2.95E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	2/4/2005			1.42E+02	4.95E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	1/25/2007			1.36E+02	4.92E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	12/17/1999			2.56E+02	5.55E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	2/8/1999			2.07E+02	5.33E+00
YES	Biomass	Dutch Oven/Susp. Burner	1	FLUSSugarC	Boiler No. 7	CO	Sample #3	1/5/2006			2.22E+02	5.40E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #1	8/11/2009			1.80E+02	5.19E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #1	6/22/2006			1.72E+03	7.45E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #1	8/11/2009			1.68E+02	5.12E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #2	8/11/2009			3.25E+02	5.78E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #2	6/22/2006			7.65E+02	6.64E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #2	8/11/2009			3.15E+02	5.75E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #3	6/22/2006			4.92E+02	6.20E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #3	8/12/2009			2.79E+02	5.63E+00
YES	Biomass	Dutch Oven/Susp. Burner	2	WAGraysHarborPaper	No. 6 Boiler (EU2)	CO	Sample #3	8/12/2009			2.74E+02	5.61E+00
YES	Biomass	FB	1	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	CO	1	8/27/2009			4.98E+03	8.51E+00
YES	Biomass	FB	1	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	CO	2	8/29/2009			2.67E+03	7.89E+00
YES	Biomass	FB	1	NDCargillWestFargo	Foster Wheeler Boiler (EU43)	CO	3	8/29/2009			3.01E+03	8.01E+00
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #1	6/18/2008			5.87E+01	4.07E+00
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #1	6/19/2008			5.36E+01	3.98E+00
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #2	6/18/2008			1.72E+02	5.15E+00
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #2	6/18/2008			5.61E+01	4.03E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #2	6/19/2008			1.30E+02	4.87E+00
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #3	6/19/2008			6.25E+01	4.14E+00
YES	Biomass	Fuel Cell	1	KYWeyerhaeuserEKY	MP 01-01	CO	Sample #3	6/18/2008			2.33E+02	5.45E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #1	6/18/2008			5.87E+01	4.07E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #1	6/19/2008			5.36E+01	3.98E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #2	6/19/2008			1.30E+02	4.87E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #2	6/18/2008			1.72E+02	5.15E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #2	6/18/2008			5.61E+01	4.03E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #3	6/19/2008			6.25E+01	4.14E+00
YES	Biomass	Fuel Cell	2	KYWeyerhaeuserEKY	MP 01-03	CO	Sample #3	6/18/2008			2.33E+02	5.45E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMi	SN-45	CO	Sample #1	8/11/2009			4.98E+01	3.91E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMi	SN-45	CO	Sample #1	9/28/2004			7.13E+01	4.27E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMi	SN-45	CO	Sample #1	7/17/2009			7.67E+01	4.34E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMi	SN-45	CO	Sample #1	12/3/2003			1.90E+02	5.25E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMi	SN-45	CO	Sample #2	7/17/2009			3.45E+01	3.54E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMi	SN-45	CO	Sample #2	8/12/2009			2.03E+02	5.31E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMill	SN-45	CO	Sample #2	12/3/2003			2.50E+02	5.52E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMill	SN-45	CO	Sample #2	9/28/2004			6.45E+01	4.17E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMill	SN-45	CO	Sample #3	9/28/2004			6.21E+01	4.13E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMill	SN-45	CO	Sample #3	8/12/2009			1.61E+02	5.08E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMill	SN-45	CO	Sample #3	7/20/2009			7.51E+01	4.32E+00
YES	Biomass	Fuel Cell	3	ARWeyerhaeuserDierksMill	SN-45	CO	Sample #3	12/3/2003			2.75E+02	5.62E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #1	9/18/1996			1.10E+02	4.70E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #1	8/12/2009			1.55E+02	5.04E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #1	11/10/2004			1.19E+02	4.78E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #2	11/10/2004			1.18E+02	4.77E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #2	9/18/1996			1.26E+02	4.83E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #2	8/13/2009			3.10E+02	5.74E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #3	9/18/1996			1.43E+02	4.96E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #3	8/13/2009			3.09E+02	5.73E+00
YES	Biomass	Fuel Cell	4	WAWeyerhaeuser_Raymond	Hog Fuel Boiler EU1	CO	Sample #3	11/10/2004			1.12E+02	4.72E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #1	6/28/2005			2.04E+02	5.32E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #1	8/31/2007			5.49E+02	6.31E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #1	8/4/2009			2.90E+02	5.67E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #1	8/22/2003			3.42E+02	5.83E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #1	7/11/2003			5.61E+02	6.33E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #1	8/23/1999			1.66E+02	5.11E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #2	8/4/2009			2.60E+02	5.56E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #2	6/28/2005			1.79E+02	5.19E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #2	8/23/1999			4.21E+02	6.04E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #2	7/11/2003			5.49E+02	6.31E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #2	8/22/2003			3.30E+02	5.80E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #2	8/31/2007			5.23E+02	6.26E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #3	8/4/2009			3.02E+02	5.71E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #3	8/23/1999			4.34E+02	6.07E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #3	8/22/2003			1.73E+02	5.16E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #3	6/28/2005			1.79E+02	5.19E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #3	8/31/2007			1.40E+02	4.94E+00
YES	Biomass	Fuel Cell	5	MSWeyerhaeuserBruce	AA-002 No. 2 Boiler	CO	Sample #3	7/11/2003			5.74E+02	6.35E+00
YES	Biomass	Stoker/SlopedGrate/Other	1	IDChilcoLake Sawmill	HFB1	CO	Sample #1	3/30/2005			5.44E+01	4.00E+00
YES	Biomass	Stoker/SlopedGrate/Other	1	IDChilcoLake Sawmill	HFB1	CO	Sample #2	3/30/2005			4.77E+01	3.86E+00
YES	Biomass	Stoker/SlopedGrate/Other	1	IDChilcoLake Sawmill	HFB1	CO	Sample #3	3/30/2005			5.10E+01	3.93E+00
YES	Biomass	Stoker/SlopedGrate/Other	2	ARWestFraserHuttig	SN-24	CO	Sample #1	3/1/2005			6.21E+01	4.13E+00
YES	Biomass	Stoker/SlopedGrate/Other	2	ARWestFraserHuttig	SN-24	CO	Sample #2	3/1/2005			7.66E+01	4.34E+00
YES	Biomass	Stoker/SlopedGrate/Other	2	ARWestFraserHuttig	SN-24	CO	Sample #3	3/1/2005			5.57E+01	4.02E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Stoker/SlopedGrate/Other	3	MILPCSagola	TOH-Wood	CO	Sample #1	3/12/2008			5.18E+01	3.95E+00
YES	Biomass	Stoker/SlopedGrate/Other	3	MILPCSagola	TOH-Wood	CO	Sample #2	3/12/2008			5.61E+01	4.03E+00
YES	Biomass	Stoker/SlopedGrate/Other	3	MILPCSagola	TOH-Wood	CO	Sample #3	3/12/2008			9.60E+01	4.56E+00
YES	Biomass	Stoker/SlopedGrate/Other	4	INConsolidatedGrainandBarge	P17B	CO	Sample #1	3/5/2008			7.14E+01	4.27E+00
YES	Biomass	Stoker/SlopedGrate/Other	4	INConsolidatedGrainandBarge	P17B	CO	Sample #2	3/5/2008			1.11E+02	4.71E+00
YES	Biomass	Stoker/SlopedGrate/Other	4	INConsolidatedGrainandBarge	P17B	CO	Sample #3	3/5/2008			7.91E+01	4.37E+00
YES	Biomass	Stoker/SlopedGrate/Other	5	INConsolidatedGrainandBarge	P17C	CO	Sample #1	3/5/2008			7.14E+01	4.27E+00
YES	Biomass	Stoker/SlopedGrate/Other	5	INConsolidatedGrainandBarge	P17C	CO	Sample #2	3/5/2008			1.11E+02	4.71E+00
YES	Biomass	Stoker/SlopedGrate/Other	5	INConsolidatedGrainandBarge	P17C	CO	Sample #3	3/5/2008			7.91E+01	4.37E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAndersonCorpBayport	Boiler 11 EU620	CO	Sample #1	4/23/2008			1.29E+02	4.86E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAndersonCorpBayport	Boiler 11 EU620	CO	Sample #1	4/22/2008			8.60E+01	4.45E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAndersonCorpBayport	Boiler 11 EU620	CO	Sample #1	6/16/2007			1.61E+02	5.08E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAndersonCorpBayport	Boiler 11 EU620	CO	Sample #2	6/16/2007			2.36E+02	5.47E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAnderson CorpBayport	Boiler 11 EU620	CO	Sample #2	4/23/2008			1.08E+02	4.68E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAnderson CorpBayport	Boiler 11 EU620	CO	Sample #2	4/22/2008			9.19E+01	4.52E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAnderson CorpBayport	Boiler 11 EU620	CO	Sample #3	4/22/2008			9.96E+01	4.60E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAnderson CorpBayport	Boiler 11 EU620	CO	Sample #3	6/16/2007			9.05E+01	4.51E+00
YES	Biomass	Stoker/SlopedGrate/Other	6	MNAnderson CorpBayport	Boiler 11 EU620	CO	Sample #3	4/23/2008			1.23E+02	4.81E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #1	4/23/2008			1.30E+02	4.87E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #1	4/22/2008			9.29E+01	4.53E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #1	6/16/2007			1.61E+02	5.08E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #2	6/16/2007			2.36E+02	5.47E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #2	4/22/2008			9.77E+01	4.58E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #2	4/23/2008			1.06E+02	4.66E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #3	4/23/2008			1.23E+02	4.81E+00
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #3	4/22/2008			1.08E+02	4.69E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Biomass	Stoker/SlopedGrate/Other	7	MNAnderson CorpBayport	Boiler 12 EU621	CO	Sample #3	6/16/2007			9.05E+01	4.51E+00
YES	Biomass	Stoker/SlopedGrate/Other	8	MSGPNewAugusta	AA-015 Power Boiler	CO	Sample #1	9/12/2007			5.46E+01	4.00E+00
YES	Biomass	Stoker/SlopedGrate/Other	8	MSGPNewAugusta	AA-015 Power Boiler	CO	Sample #2	9/12/2007			4.12E+01	3.72E+00
YES	Biomass	Stoker/SlopedGrate/Other	8	MSGPNewAugusta	AA-015 Power Boiler	CO	Sample #3	9/12/2007			2.10E+02	5.35E+00
YES	Biomass	Stoker/SlopedGrate/Other	9	ALMeadwestvacoCottonontonn46	No.3 Wood Residue Boiler	CO	Sample #1	11/1/2007			1.21E+02	4.79E+00
YES	Biomass	Stoker/SlopedGrate/Other	9	ALMeadwestvacoCottonontonn46	No.3 Wood Residue Boiler	CO	Sample #2	11/1/2007			1.21E+02	4.80E+00
YES	Biomass	Stoker/SlopedGrate/Other	9	ALMeadwestvacoCottonontonn46	No.3 Wood Residue Boiler	CO	Sample #3	11/1/2007			1.24E+02	4.82E+00
YES	Coal	FB	1	IAADMCorn ProcessingC	EU-530	CO	Sample #1	11/20/2002			3.20E+00	1.16E+00
YES	Coal	FB	1	IAADMCorn ProcessingC	EU-530	CO	Sample #2	11/20/2002			7.38E+00	2.00E+00
YES	Coal	FB	1	IAADMCorn ProcessingC	EU-530	CO	Sample #3	11/20/2002			1.42E+01	2.65E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #1	8/11/2009			2.51E+01	3.22E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #1				2.51E+01	3.22E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #1	5/15/1989			1.80E+01	2.89E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #2				2.52E+01	3.23E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #2	5/15/1989			1.80E+01	2.89E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #2	8/11/2009			2.52E+01	3.23E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #3				2.28E+01	3.13E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #3	8/12/2009			2.28E+01	3.13E+00
YES	Coal	FB	2	IAADMCorn ProcessingC	EU-501B	CO	Sample #3	5/15/1989			1.92E+01	2.96E+00
YES	Coal	FB	3	IAADMCorn ProcessingC	EU-502A	CO	Sample #1	5/19/1989			2.29E+01	3.13E+00
YES	Coal	FB	3	IAADMCorn ProcessingC	EU-502A	CO	Sample #2	5/19/1989			2.16E+01	3.07E+00
YES	Coal	FB	3	IAADMCorn ProcessingC	EU-502A	CO	Sample #3	5/19/1989			2.04E+01	3.02E+00
YES	Coal	FB	4	IAADMCorn ProcessingC	EU-501A	CO	Sample #1	5/25/1989			2.86E+01	3.35E+00
YES	Coal	FB	4	IAADMCorn ProcessingC	EU-501A	CO	Sample #2	5/25/1989			3.18E+01	3.46E+00
YES	Coal	FB	4	IAADMCorn ProcessingC	EU-501A	CO	Sample #3	5/26/1989			2.97E+01	3.39E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	1	7/21/2009			2.73E+01	3.31E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	2	7/21/2009			3.40E+01	3.53E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	3	7/22/2009			3.59E+01	3.58E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	4	7/22/2009			3.23E+01	3.47E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	5	7/23/2009			3.30E+01	3.50E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	6	7/23/2009			2.93E+01	3.38E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	Sample #1	11/29/2006			2.05E+01	3.02E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	Sample #2	11/29/2006			3.13E+01	3.44E+00
YES	Coal	FB	5	INPurdueUniversity	Boiler 5	CO	Sample #3	11/29/2006			3.98E+01	3.68E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #1	3/30/2007			5.57E-02	-2.89E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #1	3/29/2007			6.07E-02	-2.80E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #1	3/29/2007			7.79E+01	4.36E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #2	3/29/2007			5.43E-02	-2.91E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #2	3/29/2007			7.59E+01	4.33E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #2	3/30/2007			5.64E-02	-2.88E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #3	3/29/2007			7.12E+01	4.27E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #3	3/29/2007			5.62E-02	-2.88E+00
YES	Coal	PC	1	ILDukeEnergyTuscola	Unit 3	CO	Sample #3	3/30/2007			5.38E-02	-2.92E+00
YES	Coal	PC	2	ILDukeEnergyTuscola	Unit 4	CO	Sample #1	3/30/2007			5.57E-02	-2.89E+00
YES	Coal	PC	2	ILDukeEnergyTuscola	Unit 4	CO	Sample #2	3/30/2007			5.64E-02	-2.88E+00
YES	Coal	PC	2	ILDukeEnergyTuscola	Unit 4	CO	Sample #3	3/30/2007			5.38E-02	-2.92E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Coal	PC	3	ILDukeEnergyTuscola	Unit 1	CO	Sample #1	3/29/2007			6.07E-02	-2.80E+00
YES	Coal	PC	3	ILDukeEnergyTuscola	Unit 1	CO	Sample #1	3/29/2007			7.79E+01	4.36E+00
YES	Coal	PC	3	ILDukeEnergyTuscola	Unit 1	CO	Sample #2	3/29/2007			5.43E-02	-2.91E+00
YES	Coal	PC	3	ILDukeEnergyTuscola	Unit 1	CO	Sample #2	3/29/2007			7.59E+01	4.33E+00
YES	Coal	PC	3	ILDukeEnergyTuscola	Unit 1	CO	Sample #3	3/29/2007			7.12E+01	4.27E+00
YES	Coal	PC	3	ILDukeEnergyTuscola	Unit 1	CO	Sample #3	3/29/2007			5.62E-02	-2.88E+00
YES	Coal	PC	4	VAPhilipMorrisPark500	B2	CO	Sample #1	9/21/2005			1.31E+00	2.72E-01
YES	Coal	PC	4	VAPhilipMorrisPark500	B2	CO	Sample #2	9/21/2005			1.32E+00	2.77E-01
YES	Coal	PC	4	VAPhilipMorrisPark500	B2	CO	Sample #3	9/21/2005			1.45E+00	3.69E-01
YES	Coal	PC	5	AZCatalystPaperSnowflake	Power Boiler #2 Coal	CO	Sample #1	3/24/2006			9.44E-01	-5.76E-02
YES	Coal	PC	5	AZCatalystPaperSnowflake	Power Boiler #2 Coal	CO	Sample #2	3/24/2006			2.52E+00	9.24E-01
YES	Coal	PC	5	AZCatalystPaperSnowflake	Power Boiler #2 Coal	CO	Sample #3	3/24/2006			3.22E+00	1.17E+00
YES	Coal	Stoker/SlopedGrate/Other	1	INNotreDamed	B-4	CO	Sample #1	8/25/2009			3.89E+00	1.36E+00
YES	Coal	Stoker/SlopedGrate/Other	1	INNotreDamed	B-4	CO	Sample #2	8/25/2009			4.67E+00	1.54E+00
YES	Coal	Stoker/SlopedGrate/Other	1	INNotreDamed	B-4	CO	Sample #3	8/25/2009			4.32E+00	1.46E+00
YES	Coal	Stoker/SlopedGrate/Other	2	OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	CO	1	8/25/2009			1.44E+01	2.67E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Coal	Stoker/SlopedGrate/Other	2	OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	CO	2	8/26/2009			1.52E+01	2.72E+00
YES	Coal	Stoker/SlopedGrate/Other	2	OHMortonSaltRittman	B002 - Coal-Fired Boiler #2	CO	3	8/27/2009			1.46E+01	2.68E+00
YES	Coal	Stoker/SlopedGrate/Other	3	WVDuPontWashingtonWorks	P05	CO	Sample #1	11/2/2005			1.55E+01	2.74E+00
YES	Coal	Stoker/SlopedGrate/Other	3	WVDuPontWashingtonWorks	P05	CO	Sample #2	11/2/2005			1.71E+01	2.84E+00
YES	Coal	Stoker/SlopedGrate/Other	3	WVDuPontWashingtonWorks	P05	CO	Sample #3	11/3/2005			1.63E+01	2.79E+00
YES	Coal	Stoker/SlopedGrate/Other	4	OHAppletonIdeas	Boiler 4 (B003)	CO	Sample #1	1/29/2003			1.85E+01	2.92E+00
YES	Coal	Stoker/SlopedGrate/Other	4	OHAppletonIdeas	Boiler 4 (B003)	CO	Sample #2	1/29/2003			2.02E+01	3.00E+00
YES	Coal	Stoker/SlopedGrate/Other	4	OHAppletonIdeas	Boiler 4 (B003)	CO	Sample #3	1/29/2003			2.05E+01	3.02E+00
YES	Coal	Stoker/SlopedGrate/Other	5	OHAkronTheRmEnergy	Boiler #32 (B001)	CO	Sample #1	3/1/2007			2.12E+01	3.05E+00
YES	Coal	Stoker/SlopedGrate/Other	5	OHAkronTheRmEnergy	Boiler #32 (B001)	CO	Sample #2	3/1/2007			3.41E+01	3.53E+00
YES	Coal	Stoker/SlopedGrate/Other	5	OHAkronTheRmEnergy	Boiler #32 (B001)	CO	Sample #3	3/1/2007			1.88E+01	2.93E+00
YES	Coal	Stoker/SlopedGrate/Other	6	PABellefieldPlant	Boiler 1	CO	Sample #1	6/6/2006			2.55E+01	3.24E+00
YES	Coal	Stoker/SlopedGrate/Other	6	PABellefieldPlant	Boiler 1	CO	Sample #2	6/6/2006			2.55E+01	3.24E+00

Appendix G-12: Ranked Existing Unit Performance by Fuel and Combustor Design under Alternative Solid Waste Definition

Test Data in Top 12pct	MACT Floor FuelCat	Combustor Design	Rank	FacilityID	CombustorID_common	Pollutant_Name	TestID	TestDate_common	Non-Detect?	Test Burning Waste under Alt Defn?	ppm @ 3% O2	ppm @ 3% O2
YES	Coal	Stoker/SlopedGrate/Other	6	PABellefield Plant	Boiler 1	CO	Sample #3	6/6/2006			2.55E+01	3.24E+00

Appendix G-13: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Biomass		
No. of sources =	108	108
No. in MACT floor =	13	13
Avg of top 12% =	5.89E-03	-5.68E+00
Std Deviation of top 12% =	6.25E-03	1.13E+00
Skewness =	1.97	-0.27
Kurtosis =	4.65	-0.52
SE Skewness	0.22	0.22
Skewness Test	non-normal	normal
SE Kurtosis	0.43	0.43
Kurtosis Test	non-normal	normal
Number of test runs =	129	129
Number of test runs that contained non-detect values	2	2
Highest test run =	3.55E-02	-3.34E+00
99% t-statistic for UPL	2.36E+00	2.36E+00
99% UPL of top 12% (test runs) =	1.45E-02	1.61E-02
Coal		
No. of sources =	335	335
No. in MACT floor =	41	41
Avg of top 12% =	8.66E-03	-5.62E+00
Std Deviation of top 12% =	1.64E-02	1.28E+00
Skewness =	4.84	0.19
Kurtosis =	32.35	0.45
SE Skewness	0.16	0.16
Skewness Test	non-normal	normal
SE Kurtosis	0.31	0.31
Kurtosis Test	non-normal	normal
Number of test runs =	242	242
Number of test runs that contained non-detect values	3	3
Highest test run =	1.56E-01	-1.86E+00
99% t-statistic for UPL	2.34E+00	2.34E+00
99% UPL of top 12% (test runs) =	3.09E-02	2.06E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-13: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Liquid		
No. of sources =	81	81
No. in MACT floor =	10	10
Avg of top 12% =	1.29E-03	-6.87E+00
Std Deviation of top 12% =	8.55E-04	7.54E-01
Skewness =	1.84	-1.15
Kurtosis =	5.82	2.84
SE Skewness	0.45	0.45
Skewness Test	non-normal	normal
SE Kurtosis	0.89	0.89
Kurtosis Test	non-normal	non-normal
Number of test runs =	30	30
Number of test runs that contained non-detect values	1	1
Highest test run =	4.51E-03	-5.40E+00
99% t-statistic for UPL	2.46E+00	2.46E+00
99% UPL of top 12% (test runs) =	2.57E-03	3.18E-03
Gas 1 Excluding Metallurgical Furnaces		
No. of sources =	143	143
No. in MACT floor =	18	18
Avg of top 12% =	3.88E-03	-7.45E+00
Std Deviation of top 12% =	1.45E-02	1.48E+00
Skewness =	6.14	1.69
Kurtosis =	42.28	2.99
SE Skewness	0.30	0.30
Skewness Test	non-normal	non-normal
SE Kurtosis	0.60	0.60
Kurtosis Test	non-normal	non-normal
Number of test runs =	66	66
Number of test runs that contained non-detect values	0	0
Highest test run =	1.08E-01	-2.23E+00
99% t-statistic for UPL	2.39E+00	2.39E+00
99% UPL of top 12% (test runs) =	2.42E-02	4.67E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-13: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Gas 1 - Metallurgical Furnaces		
No. of sources =	9	9
No. in MACT floor =	2	2
Avg of top 12% =	4.70E-03	-7.84E+00
Std Deviation of top 12% =	6.45E-03	3.50E+00
Skewness =	1.00	-0.49
Kurtosis =	-1.03	-1.70
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	0	0
Highest test run =	1.53E-02	-4.18E+00
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	1.72E-02	3.41E-01
Gas 2		
No. of sources =	13	13
No. in MACT floor =	2	2
Avg of top 12% =	1.10E-02	-5.24E+00
Std Deviation of top 12% =	1.15E-02	1.45E+00
Skewness =	1.23	-0.61
Kurtosis =	0.71	-0.39
SE Skewness	0.43	0.43
Skewness Test	non-normal	normal
SE Kurtosis	0.85	0.85
Kurtosis Test	normal	normal
Number of test runs =	33	33
Number of test runs that contained non-detect values	0	0
Highest test run =	4.21E-02	-3.17E+00
99% t-statistic for UPL	2.45E+00	2.45E+00
99% UPL of top 12% (test runs) =	2.79E-02	4.50E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-14: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Biomass		
No. of sources =	42	42
No. in MACT floor =	6	6
Avg of top 12% =	2.72E-07	-1.52E+01
Std Deviation of top 12% =	1.33E-07	5.09E-01
Skewness =	0.89	-0.34
Kurtosis =	0.28	0.10
SE Skewness	0.52	0.52
Skewness Test	normal	normal
SE Kurtosis	1.04	1.04
Kurtosis Test	normal	normal
Number of test runs =	22	22
Number of test runs that contained non-detect values	11	11
Highest test run =	5.56E-07	-1.44E+01
99% t-statistic for UPL	2.52E+00	2.52E+00
99% UPL of top 12% (test runs) =	4.79E-07	5.33E-07
Coal		
No. of sources =	265	265
No. in MACT floor =	32	32
Avg of top 12% =	5.54E-07	-1.50E+01
Std Deviation of top 12% =	7.30E-07	1.20E+00
Skewness =	3.90	-0.61
Kurtosis =	18.60	0.46
SE Skewness	0.21	0.21
Skewness Test	non-normal	normal
SE Kurtosis	0.43	0.43
Kurtosis Test	non-normal	normal
Number of test runs =	132	132
Number of test runs that contained non-detect values	42	42
Highest test run =	5.07E-06	-1.22E+01
99% t-statistic for UPL	2.36E+00	2.36E+00
99% UPL of top 12% (test runs) =	1.56E-06	1.59E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-14: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Liquid		
No. of sources =	173	173
No. in MACT floor =	21	21
Avg of top 12% =	1.72E-06	-1.36E+01
Std Deviation of top 12% =	8.01E-07	1.08E+00
Skewness =	-1.34	-1.74
Kurtosis =	-0.12	1.59
SE Skewness	0.18	0.18
Skewness Test	normal	normal
SE Kurtosis	0.36	0.36
Kurtosis Test	normal	non-normal
Number of test runs =	188	188
Number of test runs that contained non-detect values	168	168
Highest test run =	2.25E-06	-1.30E+01
99% t-statistic for UPL	2.35E+00	2.35E+00
99% UPL of top 12% (test runs) =	2.81E-06	5.45E-06
Gas 1		
No. of sources =	13	13
No. in MACT floor =	2	2
Avg of top 12% =	1.07E-07	-1.61E+01
Std Deviation of top 12% =	3.73E-08	3.49E-01
Skewness =	0.64	-0.01
Kurtosis =	-0.27	-0.12
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	0	0
Highest test run =	1.65E-07	-1.56E+01
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.96E-07	2.34E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-14: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Gas 1 - Metallurgical Furnaces		
No. of sources =	7	7
No. in MACT floor =	1	1
Avg of top 12% =	3.32E-08	-1.74E+01
Std Deviation of top 12% =	2.65E-08	8.31E-01
Skewness =	1.29	0.38
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	6.28E-08	-1.66E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.84E-07	2.98E-06
Gas 2		
No. of sources =	8	8
No. in MACT floor =	1	1
Avg of top 12% =	8.25E-08	-1.63E+01
Std Deviation of top 12% =	1.82E-08	2.13E-01
Skewness =	1.38	1.24
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.03E-07	-1.61E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.86E-07	2.73E-07

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-15: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Biomass		
No. of sources =	51	51
No. in MACT floor =	7	7
Avg of top 12% =	6.09E-03	-7.45E+00
Std Deviation of top 12% =	1.41E-02	2.44E+00
Skewness =	2.93	-0.07
Kurtosis =	8.63	0.07
SE Skewness	0.39	0.39
Skewness Test	non-normal	normal
SE Kurtosis	0.78	0.78
Kurtosis Test	non-normal	normal
Number of test runs =	39	39
Number of test runs that contained non-detect values	4	4
Highest test run =	6.43E-02	-2.74E+00
99% t-statistic for UPL	2.43E+00	2.43E+00
99% UPL of top 12% (test runs) =	2.67E-02	2.02E-02
Coal		
No. of sources =	296	296
No. in MACT floor =	36	36
Avg of top 12% =	4.70E-03	-7.04E+00
Std Deviation of top 12% =	2.03E-02	1.62E+00
Skewness =	6.48	0.06
Kurtosis =	41.01	1.35
SE Skewness	0.21	0.21
Skewness Test	non-normal	normal
SE Kurtosis	0.42	0.42
Kurtosis Test	non-normal	non-normal
Number of test runs =	136	136
Number of test runs that contained non-detect values	21	21
Highest test run =	1.40E-01	-1.97E+00
99% t-statistic for UPL	2.35E+00	2.35E+00
99% UPL of top 12% (test runs) =	3.26E-02	8.05E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-15: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Liquid		
No. of sources =	185	185
No. in MACT floor =	23	23
Avge of top 12% =	2.67E-04	-8.28E+00
Std Deviation of top 12% =	6.27E-05	5.70E-01
Skewness =	3.55	-9.89
Kurtosis =	25.01	107.51
SE Skewness	0.22	0.22
Skewness Test	non-normal	normal
SE Kurtosis	0.43	0.43
Kurtosis Test	non-normal	non-normal
Number of test runs =	127	127
Number of test runs that contained non-detect values	118	118
Highest test run =	6.24E-04	-7.38E+00
99% t-statistic for UPL	2.36E+00	2.36E+00
99% UPL of top 12% (test runs) =	3.54E-04	5.54E-04
Gas 1		
No. of sources =	10	10
No. in MACT floor =	2	2
Avge of top 12% =	1.01E-04	-9.29E+00
Std Deviation of top 12% =	3.91E-05	5.02E-01
Skewness =	-1.08	-1.39
Kurtosis =	-0.72	0.79
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	5	5
Highest test run =	1.30E-04	-8.95E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.94E-04	3.04E-04

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-15: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Gas 1 - metallurgical furnaces		
No. of sources =	0	0
No. in MACT floor =	5	5
Avg of top 12% =	1.66E-04	-8.84E+00
Std Deviation of top 12% =	8.80E-05	5.84E-01
Skewness =	0.00	-0.07
Kurtosis =	-3.20	-3.09
SE Skewness	1.00	1.00
Skewness Test	normal	normal
SE Kurtosis	2.00	2.00
Kurtosis Test	normal	normal
Number of test runs =	6	6
Number of test runs that contained non-detect values	3	3
Highest test run =	2.54E-04	-8.28E+00
99% t-statistic for UPL	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	3.75E-04	5.82E-04
Gas 2		
No. of sources =	8	8
No. in MACT floor =	1	1
Avg of top 12% =	1.70E-06	-1.33E+01
Std Deviation of top 12% =	1.41E-07	8.25E-02
Skewness =	0.63	0.51
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	3	3
Highest test run =	1.85E-06	-1.32E+01
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	2.50E-06	2.71E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-16: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	Reported Values	LN(reported values)
	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Liquid		
No. of sources =	106	106
No. in MACT floor =	13	13
Avg of top 12% =	4.09E-01	-1.24E+00
Std Deviation of top 12% =	3.06E-01	9.21E-01
Skewness =	0.77	-0.52
Kurtosis =	-0.25	-0.54
SE Skewness	0.40	0.40
Skewness Test	normal	normal
SE Kurtosis	0.81	0.81
Kurtosis Test	normal	normal
Number of test runs =	37	37
Number of test runs that contained non-detect values	11	11
Highest test run =	1.22E+00	1.95E-01
99% t-statistic for UPL	2.43E+00	2.43E+00
99% UPL of top 12% (test runs) =	8.56E-01	1.12E+00
Gas 1		
No. of sources =	753	753
No. in MACT floor =	91	91
Avg of top 12% =	1.46E+00	-1.96E+00
Std Deviation of top 12% =	1.17E+01	1.32E+00
Skewness =	13.65	2.12
Kurtosis =	204.57	7.06
SE Skewness	0.14	0.14
Skewness Test	non-normal	non-normal
SE Kurtosis	0.29	0.29
Kurtosis Test	non-normal	non-normal
Number of test runs =	295	295
Number of test runs that contained non-detect values	120	120
Highest test run =	1.84E+02	5.21E+00
99% t-statistic for UPL	2.34E+00	2.34E+00
99% UPL of top 12% (test runs) =	1.73E+01	8.45E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-16: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Gas 1 - metallurgical furnaces		
No. of sources =	16	16
No. in MACT floor =	0	0
Avg of top 12% =	8.67E-01	-3.65E-01
Std Deviation of top 12% =	5.00E-01	8.20E-01
Skewness =	-0.25	-1.23
Kurtosis =	-1.84	1.19
SE Skewness	0.93	0.93
Skewness Test	normal	normal
SE Kurtosis	1.85	1.85
Kurtosis Test	normal	normal
Number of test runs =	7	7
Number of test runs that contained non-detect values	3	3
Highest test run =	1.35E+00	3.03E-01
99% t-statistic for UPL	3.14E+00	3.14E+00
99% UPL of top 12% (test runs) =	1.95E+00	4.11E+00
Gas 2		
No. of sources =	74	74
No. in MACT floor =	9	9
Avg of top 12% =	9.12E-02	-2.49E+00
Std Deviation of top 12% =	2.83E-02	5.27E-01
Skewness =	-2.05	-2.23
Kurtosis =	2.70	3.49
SE Skewness	0.47	0.47
Skewness Test	normal	normal
SE Kurtosis	0.94	0.94
Kurtosis Test	non-normal	non-normal
Number of test runs =	27	27
Number of test runs that contained non-detect values	23	23
Highest test run =	1.10E-01	-2.21E+00
99% t-statistic for UPL	2.48E+00	2.48E+00
99% UPL of top 12% (test runs) =	1.34E-01	1.84E-01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-16: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
MACT Floor by Combustor	Reported Values	LN(reported values)
Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Dutch Oven		
No. of sources =	13	13
No. in MACT floor =	2	2
Avg of top 12% =	3.82E+02	5.60E+00
Std Deviation of top 12% =	3.34E+02	9.42E-01
Skewness =	2.33	-1.16
Kurtosis =	6.70	2.78
SE Skewness	0.37	0.37
Skewness Test	non-normal	normal
SE Kurtosis	0.73	0.73
Kurtosis Test	non-normal	non-normal
Number of test runs =	45	45
Number of test runs that contained non-detect values	0	0
Highest test run =	1.72E+03	7.45E+00
99% t-statistic for UPL	2.41E+00	2.41E+00
99% UPL of top 12% (test runs) =	8.63E+02	1.05E+03
Biomass - Fluidized Bed		
No. of sources =	1	1
No. in MACT floor =	1	1
Avg of top 12% =	3,552	8.14E+00
Std Deviation of top 12% =	1,248	3.31E-01
Skewness =	1.59	1.47
Kurtosis =	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41
Skewness Test	normal	normal
SE Kurtosis	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!
Number of test runs =	3	3
Number of test runs that contained non-detect values	0	0
Highest test run =	4.98E+03	8.51E+00
99% t-statistic for UPL	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.06E+04	2.25E+04

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-16: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Fuel Cell		
No. of sources =	11	11
No. in MACT floor =	5	5
Avg of top 12% =	2.02E+02	5.04E+00
Std Deviation of top 12% =	1.50E+02	7.55E-01
Skewness =	1.17	-0.01
Kurtosis =	0.57	-0.94
SE Skewness	0.34	0.34
Skewness Test	non-normal	normal
SE Kurtosis	0.67	0.67
Kurtosis Test	normal	normal
Number of test runs =	53	53
Number of test runs that contained non-detect values	0	0
Highest test run =	5.74E+02	6.35E+00
99% t-statistic for UPL	2.40E+00	2.40E+00
99% UPL of top 12% (test runs) =	4.16E+02	4.54E+02
Biomass - Stoker		
No. of sources =	71	71
No. in MACT floor =	9	9
Avg of top 12% =	1.03E+02	4.54E+00
Std Deviation of top 12% =	4.73E+01	4.30E-01
Skewness =	1.35	0.19
Kurtosis =	2.01	-0.20
SE Skewness	0.39	0.39
Skewness Test	non-normal	normal
SE Kurtosis	0.78	0.78
Kurtosis Test	non-normal	normal
Number of test runs =	39	39
Number of test runs that contained non-detect values	0	0
Highest test run =	2.36E+02	5.47E+00
99% t-statistic for UPL	2.43E+00	2.43E+00
99% UPL of top 12% (test runs) =	1.72E+02	1.76E+02
Coal - FB		
No. of sources =	12	12
No. in MACT floor =	5	5
Avg of top 12% =	2.46E+01	3.11E+00
Std Deviation of top 12% =	8.26E+00	5.16E-01
Skewness =	-0.68	-2.52
Kurtosis =	0.85	7.81
SE Skewness	0.47	0.47
Skewness Test	normal	normal
SE Kurtosis	0.94	0.94
Kurtosis Test	normal	non-normal
Number of test runs =	27	27
Number of test runs that contained non-detect values	0	0
Highest test run =	3.98E+01	3.68E+00
99% t-statistic for UPL	2.48E+00	2.48E+00
99% UPL of top 12% (test runs) =	3.71E+01	4.89E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-16: UPL Calculations for Existing Units under Alternative Solid Waste Definition

Parameters	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Coal - PC		
No. of sources =	39	39
No. in MACT floor =	5	5
Avg of top 12% =	1.92E+01	-2.38E-01
Std Deviation of top 12% =	3.29E+01	3.04E+00
Skewness =	1.24	0.59
Kurtosis =	-0.50	-1.34
SE Skewness	0.50	0.50
Skewness Test	non-normal	normal
SE Kurtosis	1.00	1.00
Kurtosis Test	normal	normal
Number of test runs =	24	24
Number of test runs that contained non-detect values	0	0
Highest test run =	7.79E+01	4.36E+00
99% t-statistic for UPL	2.50E+00	2.50E+00
99% UPL of top 12% (test runs) =	6.97E+01	8.28E+01
Coal - Stoker		
No. of sources =	45	45
No. in MACT floor =	6	6
Avg of top 12% =	1.75E+01	2.72E+00
Std Deviation of top 12% =	7.87E+00	6.27E-01
Skewness =	-0.13	-1.38
Kurtosis =	0.34	1.04
SE Skewness	0.58	0.58
Skewness Test	normal	normal
SE Kurtosis	1.15	1.15
Kurtosis Test	normal	normal
Number of test runs =	18	18
Number of test runs that contained non-detect values	0	0
Highest test run =	3.41E+01	3.53E+00
99% t-statistic for UPL	2.57E+00	2.57E+00
99% UPL of top 12% (test runs) =	3.01E+01	4.15E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-17: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Total MASS		TEQ	
	Reported Values	LN(reported values)	Reported Values	LN(reported values)
	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Liquid				
No. of sources =	14	14	14	14
No. in MACT floor =	2	2	2	2
Avg of top 12% =	5.32E-03	-5.54E+00	1.10E-03	-6.83E+00
Std Deviation of top 12% =	3.95E-03	9.05E-01	1.77E-04	1.75E-01
Skewness =	0.09	-0.09	-1.10	-1.38
Kurtosis =	-2.98	-2.91	1.14	2.01
SE Skewness	1.00	1.00	1.00	1.00
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.00	2.00	2.00	2.00
Kurtosis Test	normal	normal	normal	normal
Number of test runs =	6	6	6	6
Number of test runs that contained non-detect values	3	3	6	6
Highest test run =	9.90E-03	-4.62E+00	1.28E-03	-6.66E+00
99% t-statistic for UPL	3.36E+00	3.36E+00	3.36E+00	3.36E+00
99% UPL of top 12% (test runs) =	1.47E-02	3.37E-02	1.52E-03	1.65E-03
Gas 1				
No. of sources =	7	7	7	7
No. in MACT floor =	1	1	1	1
Avg of top 12% =	1.26E-01	-2.07E+00	2.57E-03	-6.06E+00
Std Deviation of top 12% =	1.18E-02	9.33E-02	1.23E-03	5.52E-01
Skewness =	0.14	0.00	-0.47	-1.08
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	3	3	2	2
Highest test run =	1.38E-01	-1.98E+00	3.73E-03	-5.59E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.93E-01	2.14E-01	9.59E-03	5.41E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-17: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Total MASS		TEQ	
	Reported Values	LN(reported values)	Reported Values	LN(reported values)
	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Gas 1 - Metallurgical Furnaces				
No. of sources =	7	7	7	7
No. in MACT floor =	1	1	1	1
Avge of top 12% =	1.27E-02	-4.37E+00	2.58E-03	-5.96E+00
Std Deviation of top 12% =	2.12E-18	0.00E+00	2.15E-04	8.58E-02
Skewness =	-2.45	#DIV/0!	-1.73	-1.73
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	#DIV/0!	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	3	3	3	3
Highest test run =	1.27E-02	-4.37E+00	2.70E-03	-5.91E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.27E-02	1.27E-02	3.80E-03	4.19E-03
Gas 2				
No. of sources =	5	5	5	5
No. in MACT floor =	1	1	1	1
Avge of top 12% =	4.50E-02	-3.18E+00	2.67E-03	-5.97E+00
Std Deviation of top 12% =	2.03E-02	5.02E-01	9.86E-04	3.46E-01
Skewness =	-0.30	-0.92	1.64	1.56
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	3	3	3	3
Highest test run =	6.46E-02	-2.74E+00	3.80E-03	-5.57E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.60E-01	7.23E-01	8.28E-03	1.83E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-17: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Total MASS		TEQ	
	Reported Values	LN(reported values)	Reported Values	LN(reported values)
Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
MACT Floor by Combustor				
	Reported Values	LN(reported values)	Reported Values	LN(reported values)
Parameters	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Dutch Oven				
No. of sources =	2	2	2	2
No. in MACT floor =	1	1	1	1
Avg of top 12% =	9.12E+00	2.16E+00	9.53E-02	-2.39E+00
Std Deviation of top 12% =	3.74E+00	3.85E-01	3.39E-02	3.35E-01
Skewness =	1.59	1.46	1.60	1.50
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	3	3	3	3
Highest test run =	1.34E+01	2.60E+00	1.34E-01	-2.01E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	3.04E+01	7.73E+01	2.88E-01	6.14E-01
Biomass - Fluidized Bed				
No. of sources =	1	1	1	1
No. in MACT floor =	1	1	1	1
Avg of top 12% =	1.83E-01	-2.45E+00	1.09E-02	-5.18E+00
Std Deviation of top 12% =	2.54E-01	1.48E+00	1.44E-02	1.37E+00
Skewness =	1.73	1.73	1.73	1.73
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	3	3	3	3
Highest test run =	4.76E-01	-7.42E-01	2.74E-02	-3.60E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	1.63E+00	3.91E+02	9.25E-02	1.36E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-17: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Total MASS		TEQ	
	Reported Values	LN(reported values)	Reported Values	LN(reported values)
	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Fuel Cell				
No. of sources =	5	5	5	5
No. in MACT floor =	5	5	5	5
Avg of top 12% =	2.04E-01	-2.63E+00	5.52E-03	-6.21E+00
Std Deviation of top 12% =	2.46E-01	2.01E+00	5.43E-03	1.99E+00
Skewness =	1.66	-1.42	0.75	-0.98
Kurtosis =	2.78	2.94	-0.86	-0.11
SE Skewness	0.68	0.68	0.68	0.68
Skewness Test	non-normal	normal	normal	normal
SE Kurtosis	1.36	1.36	1.36	1.36
Kurtosis Test	non-normal	non-normal	normal	normal
Number of test runs =	13	13	13	13
Number of test runs that contained non-detect values	11	11	13	13
Highest test run =	8.40E-01	-1.75E-01	1.48E-02	-4.21E+00
99% t-statistic for UPL	2.68E+00	2.68E+00	2.68E+00	2.68E+00
99% UPL of top 12% (test runs) =	6.26E-01	2.30E+00	1.48E-02	6.15E-02
Biomass - Stoker				
No. of sources =	3	3	3	3
No. in MACT floor =	1	1	1	1
Avg of top 12% =	5.84E-02	-2.96E+00	1.52E-05	-1.11E+01
Std Deviation of top 12% =	3.19E-02	6.12E-01	5.87E-06	3.59E-01
Skewness =	0.12	-0.72	1.72	1.71
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	2	2	3	3
Highest test run =	9.07E-02	-2.40E+00	2.20E-05	-1.07E+01
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	2.40E-01	1.69E+00	4.86E-05	1.12E-04
Coal - FB				
No. of sources =	8	8	8	8
No. in MACT floor =	5	5	5	5
Avg of top 12% =	7.23E-02	-3.48E+00	3.22E-03	-6.03E+00
Std Deviation of top 12% =	6.01E-02	1.79E+00	2.44E-03	8.17E-01
Skewness =	0.23	-0.84	0.86	0.03
Kurtosis =	-0.92	-1.13	-0.48	-1.52
SE Skewness	0.63	0.63	0.63	0.63
Skewness Test	normal	normal	normal	normal
SE Kurtosis	1.26	1.26	1.26	1.26
Kurtosis Test	normal	normal	normal	normal
Number of test runs =	15	15	15	15
Number of test runs that contained non-detect values	6	6	15	15
Highest test run =	1.91E-01	-1.66E+00	7.72E-03	-4.86E+00
99% t-statistic for UPL	2.62E+00	2.62E+00	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	1.72E-01	6.02E-01	7.27E-03	9.32E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix G-17: UPL Calculations for Existing Units under Alternative Solid Waste Definition

MACT Floor by Fuel Type	Total MASS		TEQ	
	Reported Values	LN(reported values)	Reported Values	LN(reported values)
	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)	PCDD/PCDF (ng/dscm @ 7% O2)
Coal - PC				
No. of sources =	8	8	8	8
No. in MACT floor =	1	1	1	1
Avg of top 12% =	1.82E-02	-4.04E+00	2.12E-03	-6.16E+00
Std Deviation of top 12% =	6.13E-03	3.16E-01	2.94E-04	1.37E-01
Skewness =	1.66	1.61	0.78	0.60
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	3	3	3	3
Highest test run =	2.52E-02	-3.68E+00	2.44E-03	-6.02E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	5.30E-02	1.06E-01	3.80E-03	4.60E-03
Coal - Stoker			42	44
No. of sources =	8	8	8	8
No. in MACT floor =	1	1	1	1
Avg of top 12% =	2.53E-03	-6.00E+00	1.52E-03	-6.50E+00
Std Deviation of top 12% =	5.86E-04	2.22E-01	2.30E-04	1.46E-01
Skewness =	1.51	1.41	1.56	1.51
Kurtosis =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SE Skewness	1.41	1.41	1.41	1.41
Skewness Test	normal	normal	normal	normal
SE Kurtosis	2.83	2.83	2.83	2.83
Kurtosis Test	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Number of test runs =	3	3	3	3
Number of test runs that contained non-detect values	0	0	3	3
Highest test run =	3.20E-03	-5.74E+00	1.78E-03	-6.33E+00
99% t-statistic for UPL	6.96E+00	6.96E+00	6.96E+00	6.96E+00
99% UPL of top 12% (test runs) =	5.87E-03	8.79E-03	2.82E-03	3.46E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-1: Summary of Number of Sources with Test Data and Top 12 Percent Using Data From a Minimum of Five Sources

MACT Floor by Fuel Type

Parameters	PM Filterable (lb/mmBtu)	Hg	HCl	CO	D/F total mass	D/F TEQ	Total Count of Units in Subcategory
Biomass							420
No. of sources =	192	91	92				
No. in MACT floor =	24	11	12				
Coal							578
No. of sources =	366	285	318				
No. in MACT floor =	44	35	39				
Liquid							826
No. of sources =	91	177	190	116	17	17	
No. in MACT floor =	11	22	23	14	5	5	
Gas 1 - Excluding Metal Industry Furnaces							10783
No. of sources =	144	14	11	754	8	8	
No. in MACT floor =	18	5	5	91	5	5	
Gas 1 - Metal Industry Furnaces							749
No. of sources =	9	7	9	15	7	7	
No. in MACT floor =	5	5	5	5	5	5	
Gas 2							199
No. of sources =	13	8	8	75	5	5	
No. in MACT floor =	5	5	5	9	5	5	

Parameters	CO (ppm @ 3% O2)	Dioxin/Furans (Total Mass) ppm@ 3% O2)	Dioxin/Furans (TEQ) ppm@ 3% O2)	Total Count of Units in Subcategory
Biomass - Dutch Oven				62
No. of sources =	17	3	3	
No. in MACT floor =	5	3	3	
Biomass - Fluidized Bed				12
No. of sources =	7	6	6	
No. in MACT floor =	5	5	5	
Biomass - Fuel Cell				26
No. of sources =	16	7	7	
No. in MACT floor =	5	5	5	
Biomass - Stoker				320
No. of sources =	119	16	16	
No. in MACT floor =	15	5	5	
Coal - FB				31
No. of sources =	17	12	12	
No. in MACT floor =	5	5	5	
Coal - PC				186
No. of sources =	41	10	10	
No. in MACT floor =	5	5	5	
Coal - Stoker				361
No. of sources =	61	14	14	
No. in MACT floor =	8	5	5	

Represents subcategories where less than five sources were used for the proposed MACT floor emission limits.

Appendix H-2: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Gas 1 - Metal Industry Furnaces		
No. of sources =	15	15
No. in MACT floor =	5	5
Avg of top 12% =	8.03E+00	7.14E-01
Std Deviation of top 12% =	1.00E+01	2.02E+00
Skewness =	0.91	-0.04
Kurtosis =	-0.70	-1.52
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	3	3
Highest test run =	2.84E+01	3.35E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	2.47E+01	5.85E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-2: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

MACT Floor by Combustor	Reported Values	LN(Reported values)
	CO (ppm @ 3% O2)	CO (ppm @ 3% O2)
Biomass - Dutch Oven		
No. of sources =	17	17
No. in MACT floor =	5	5
Avg of top 12% =	7.99E+02	6.10E+00
Std Deviation of top 12% =	7.83E+02	1.28E+00
Skewness =	1.33	-0.95
Kurtosis =	1.04	1.18
SE Skewness	0.26	0.26
Skewness Test	non-normal	normal
SE Kurtosis	0.53	0.53
Kurtosis Test	normal	non-normal
Number of test runs =	87	87
Number of test runs that contained non-detect values	0	0
Highest test run =	3.15E+03	8.06E+00
99% t-statistic for UPL	2.37E+00	2.37E+00
99% UPL of top 12% (test runs) =	1.89E+03	2.65E+03
Coal - FB		
No. of sources =	17	17
No. in MACT floor =	5	5
Avg of top 12% =	1.80E+01	2.81E+00
Std Deviation of top 12% =	6.08E+00	4.90E-01
Skewness =	-0.81	-2.18
Kurtosis =	0.30	5.74
SE Skewness	0.53	0.53
Skewness Test	normal	normal
SE Kurtosis	1.07	1.07
Kurtosis Test	normal	non-normal
Number of test runs =	21	21
Number of test runs that contained non-detect values	0	0
Highest test run =	2.52E+01	3.23E+00
99% t-statistic for UPL	2.53E+00	2.53E+00
99% UPL of top 12% (test runs) =	2.75E+01	3.56E+01

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-3: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

MACT Floor by Fuel Type	Reported Values	LN(reported values)
	PM Filterable (lb/mmBtu)	PM Filterable (lb/mmBtu)
Gas 1 - Metal Industry Furnaces		
No. of sources =	9	9
No. in MACT floor =	5	5
Avg of top 12% =	3.42E-03	-6.86E+00
Std Deviation of top 12% =	4.35E-03	2.41E+00
Skewness =	1.98	-1.65
Kurtosis =	3.09	1.94
SE Skewness	0.53	0.53
Skewness Test	non-normal	normal
SE Kurtosis	1.07	1.07
Kurtosis Test	non-normal	normal
Number of test runs =	21	21
Number of test runs that contained non-detect values	0	0
Highest test run =	1.53E-02	-4.18E+00
99% t-statistic for UPL	2.53E+00	2.53E+00
99% UPL of top 12% (test runs) =	1.02E-02	4.49E-02
Gas 2		
No. of sources =	13	13
No. in MACT floor =	5	5
Avg of top 12% =	8.85E-03	-5.47E+00
Std Deviation of top 12% =	1.05E-02	1.34E+00
Skewness =	1.65	-0.21
Kurtosis =	2.09	-0.58
SE Skewness	0.37	0.37
Skewness Test	non-normal	normal
SE Kurtosis	0.73	0.73
Kurtosis Test	non-normal	normal
Number of test runs =	45	45
Number of test runs that contained non-detect values	1	1
Highest test run =	4.21E-02	-3.17E+00
99% t-statistic for UPL	2.41E+00	2.41E+00
99% UPL of top 12% (test runs) =	2.39E-02	2.91E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-4: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

MACT Floor by Fuel Type Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	14	14
No. in MACT floor =	5	5
Avg of top 12% =	1.60E-07	-1.57E+01
Std Deviation of top 12% =	6.45E-08	4.48E-01
Skewness =	-0.04	-0.44
Kurtosis =	-1.77	-1.07
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	0	0
Highest test run =	2.30E-07	-1.53E+01
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	2.67E-07	3.09E-07
Gas 1 - Metal Industry Furnaces		
No. of sources =	7	7
No. in MACT floor =	5	5
Avg of top 12% =	4.46E-07	-1.54E+01
Std Deviation of top 12% =	4.64E-07	1.45E+00
Skewness =	0.84	-0.41
Kurtosis =	-0.80	-0.66
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	6	6
Highest test run =	1.32E-06	-1.35E+01
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	1.22E-06	2.34E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-4: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Parameters	Reported Values	LN(reported values)
	Hg (lb/mmBtu)	Hg (lb/mmBtu)
Gas 2		
No. of sources =	8	8
No. in MACT floor =	5	5
Avge of top 12% =	2.91E-07	-1.59E+01
Std Deviation of top 12% =	2.80E-07	2.44E+00
Skewness =	2.38	-2.63
Kurtosis =	8.18	6.59
SE Skewness	0.51	0.51
Skewness Test	non-normal	normal
SE Kurtosis	1.02	1.02
Kurtosis Test	non-normal	non-normal
Number of test runs =	23	23
Number of test runs that contained non-detect values	17	17
Highest test run =	1.33E-06	-1.35E+01
99% t-statistic for UPL	2.51E+00	2.51E+00
99% UPL of top 12% (test runs) =	7.22E-07	5.06E-06

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-5: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	11	11
No. in MACT floor =	5	5
Avg of top 12% =	1.34E-04	-8.99E+00
Std Deviation of top 12% =	4.92E-05	4.35E-01
Skewness =	0.48	-1.39
Kurtosis =	1.90	3.50
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	non-normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	8	8
Highest test run =	2.48E-04	-8.30E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	2.16E-04	2.56E-04
Gas 1 - Metal Industry Furnaces		
No. of sources =	9	9
No. in MACT floor =	5	5
Avg of top 12% =	2.64E-04	-8.38E+00
Std Deviation of top 12% =	1.28E-04	5.88E-01
Skewness =	0.13	-0.80
Kurtosis =	-0.79	-0.29
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	6	6
Highest test run =	4.90E-04	-7.62E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	4.76E-04	6.10E-04

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-5: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Parameters	Reported Values	LN(reported values)
	HCl (lb/mmBtu)	HCl (lb/mmBtu)
Gas 2		
No. of sources =	8	8
No. in MACT floor =	5	5
Avge of top 12% =	1.63E-03	-7.76E+00
Std Deviation of top 12% =	1.98E-03	2.43E+00
Skewness =	1.09	-1.37
Kurtosis =	-0.49	1.46
SE Skewness	0.50	0.50
Skewness Test	non-normal	normal
SE Kurtosis	1.00	1.00
Kurtosis Test	normal	normal
Number of test runs =	24	24
Number of test runs that contained non-detect values	3	3
Highest test run =	5.60E-03	-5.18E+00
99% t-statistic for UPL	2.50E+00	2.50E+00
99% UPL of top 12% (test runs) =	4.66E-03	1.76E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-6: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Parameters	Reported Values	LN(reported values)
	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Liquid	47	61
No. of sources =	17	17
No. in MACT floor =	5	5
Avg of top 12% =	1.40E-03	-7.69E+00
Std Deviation of top 12% =	9.86E-04	2.63E+00
Skewness =	0.08	-1.58
Kurtosis =	-0.80	0.75
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	3.17E-03	-5.75E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	3.04E-03	3.60E-02
Gas 1 - Excluding Metal Industry Furnaces		
No. of sources =	8	8
No. in MACT floor =	5	5
Avg of top 12% =	4.10E-03	-5.56E+00
Std Deviation of top 12% =	1.35E-03	3.82E-01
Skewness =	0.78	-1.56
Kurtosis =	4.30	5.43
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	non-normal	non-normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	7.75E-03	-4.86E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	6.35E-03	7.29E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-6: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Gas 1 - Metal Industry Furnaces		
No. of sources =	7	7
No. in MACT floor =	5	5
Avg of top 12% =	8.21E-03	-5.09E+00
Std Deviation of top 12% =	6.53E-03	7.91E-01
Skewness =	1.01	0.33
Kurtosis =	-0.29	-1.49
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	2.16E-02	-3.83E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	1.90E-02	2.28E-02
Gas 2		
No. of sources =	5	5
No. in MACT floor =	5	5
Avg of top 12% =	8.82E-03	-5.26E+00
Std Deviation of top 12% =	1.01E-02	1.08E+00
Skewness =	2.15	0.17
Kurtosis =	5.38	-0.68
SE Skewness	0.63	0.63
Skewness Test	non-normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	non-normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	3.91E-02	-3.24E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	2.56E-02	3.12E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-6: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

MACT Floor by Combustor	Reported Values	LN(reported values)
	TEQ PCDD/PCDF (ng/dscm @ 7% O2)	TEQ PCDD/PCDF (ng/dscm @ 7% O2)
Biomass - Dutch Oven		
No. of sources =	3	3
No. in MACT floor =	3	3
Avg of top 12% =	1.57E-01	-2.70E+00
Std Deviation of top 12% =	1.67E-01	1.63E+00
Skewness =	0.82	-0.37
Kurtosis =	-1.09	-1.57
SE Skewness	0.82	0.82
Skewness Test	normal	normal
SE Kurtosis	1.63	1.63
Kurtosis Test	normal	normal
Number of test runs =	9	9
Number of test runs that contained non-detect values	9	9
Highest test run =	4.22E-01	-8.62E-01
99% t-statistic for UPL	2.90E+00	2.90E+00
99% UPL of top 12% (test runs) =	4.80E-01	1.57E+00
Biomass - Fluidized Bed		
No. of sources =	6	6
No. in MACT floor =	5	5
Avg of top 12% =	6.23E-03	-5.45E+00
Std Deviation of top 12% =	7.23E-03	7.92E-01
Skewness =	2.43	1.31
Kurtosis =	5.50	1.38
SE Skewness	0.63	0.63
Skewness Test	non-normal	non-normal
SE Kurtosis	1.26	1.26
Kurtosis Test	non-normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	2.74E-02	-3.60E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	1.82E-02	1.59E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-6: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Biomass - Stoker		
No. of sources =	16	16
No. in MACT floor =	5	5
Avge of top 12% =	1.56E-03	-7.48E+00
Std Deviation of top 12% =	1.18E-03	2.24E+00
Skewness =	-0.10	-1.23
Kurtosis =	-1.49	-0.36
SE Skewness	0.71	0.71
Skewness Test	normal	normal
SE Kurtosis	1.41	1.41
Kurtosis Test	normal	normal
Number of test runs =	12	12
Number of test runs that contained non-detect values	10	10
Highest test run =	3.21E-03	-5.74E+00
99% t-statistic for UPL	2.72E+00	2.72E+00
99% UPL of top 12% (test runs) =	3.62E-03	2.89E-02
Coal - FB		
No. of sources =	12	12
No. in MACT floor =	5	5
Avge of top 12% =	1.75E-03	-7.38E+00
Std Deviation of top 12% =	1.46E-03	2.29E+00
Skewness =	0.41	-1.43
Kurtosis =	-1.41	0.54
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	9	9
Highest test run =	4.01E-03	-5.52E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	4.18E-03	2.78E-02

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-6: UPL Calculations for Existing Units Using a Minimum of Five Data Sources

Coal - PC		
No. of sources =	10	10
No. in MACT floor =	5	5
Avge of top 12% =	2.85E-03	-6.01E+00
Std Deviation of top 12% =	1.61E-03	5.80E-01
Skewness =	0.93	-0.12
Kurtosis =	0.39	-0.73
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	15	15
Highest test run =	6.45E-03	-5.04E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	5.52E-03	6.42E-03
Coal - Stoker		
No. of sources =	14	14
No. in MACT floor =	5	5
Avge of top 12% =	2.42E-03	-6.06E+00
Std Deviation of top 12% =	6.86E-04	2.97E-01
Skewness =	0.11	-0.36
Kurtosis =	-1.04	-0.66
SE Skewness	0.63	0.63
Skewness Test	normal	normal
SE Kurtosis	1.26	1.26
Kurtosis Test	normal	normal
Number of test runs =	15	15
Number of test runs that contained non-detect values	12	12
Highest test run =	3.46E-03	-5.67E+00
99% t-statistic for UPL	2.62E+00	2.62E+00
99% UPL of top 12% (test runs) =	3.56E-03	3.81E-03

Yellow highlight indicates the distribution (either normal or lognormal)

Appendix H-7: Summary of MACT Floor Emission Limits Using Data from a Minimum of Five Sources

	PM- Filterable (lb/mmBtu)	Hg (lb/mmBtu)	HCl (lb/mmBtu)	CO (ppm @3% O2)	CO with Load Variability (ppm @3% O2)	TM D/F (ng/dscm @7% O2)	TEQ D/F (ng/dscm @7% O2)
COAL							
Stoker/Other							4.00E-03
FB				30			5.00E-03
PC							6.00E-03
BIOMASS							
Stoker/Other							4.00E-03
Fuel Cell							
FB							2.00E-02
Dutch Oven				1,990			5.00E-01
LIQUID							4.00E-03
GAS 1 (NG/RFG) excluding Metals Furnaces		3.00E-07	3.00E-04				7.00E-03
GAS 1 (NG/RFG) including Metals Furnaces	5.00E-02	2.00E-06	5.00E-04	30			2.00E-02
GAS 2 (Other Process Gases)	3.00E-02	6.00E-06	2.00E-02				4.00E-02

Notes:

If cell is blank, the data under the proposed option was already based on a minimum of five sources and no revised calculations were needed.

RED text indicates at least one run in MACT floor is a Non-detect value. See "Summary - Runs" worksheet for how many test runs are non-detect values/reported detection levels.

*For dutch oven boilers, the dioxin TEQ floor is based on three sources since no other data was available.