

Memorandum

- Date: July 2, 2009
- Subject: Revised MACT Floors, Data Variability Analysis, and Emission Limits for Existing and New HMIWI
   EPA Contract No. EP-D-06-118; Work Assignment No. 3-09; SPPD No. 02/30
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- I. Background

Sections 111 and 129 of the Clean Air Act (CAA), as amended November 1990, require the U.S. Environmental Protection Agency (EPA) to develop new source performance standards (NSPS) and emission guidelines limiting emissions of nine air pollutants and opacity from hospital/medical/infectious waste incinerators (HMIWI). The nine air pollutants are hydrogen chloride (HCl), carbon monoxide (CO), lead (Pb), cadmium (Cd), mercury (Hg), particulate matter (PM), dioxins/furans (CDD/CDF), nitrogen oxides (NO<sub>X</sub>), and sulfur dioxide (SO<sub>2</sub>).

The NSPS and emission guidelines are based on maximum achievable control technology (MACT). Consequently, as stated in section 129, the emissions standards for new HMIWI subject to the NSPS must be no less stringent than the average emissions limitation achieved in practice by the best-controlled similar unit in the category, and the emissions standards for existing HMIWI subject to the emission guidelines must be no less stringent than the average emissions limitation achieved in practice by the best-performing 12 percent of units in the category. Regulations for the HMIWI category were promulgated on September 15, 1997.

In a decision issued March 2, 1999, the U.S. Court of Appeals for the D.C. Circuit (the Court) remanded the standards to EPA for a better explanation of how the new and existing source MACT floors were derived from the information in the administrative record.<sup>1</sup> On February 6, 2007, EPA published a proposal that responded to the questions raised in the Court's remand. However, recent Court decisions that impacted that proposal, as well as issues raised in public comments on the proposal, necessitated a re-proposal of responses to the questions raised in the Court's remand and a re-development of the HMIWI regulation. MACT floors were determined for the re-proposal, with the results documented in a memorandum.<sup>2</sup>

EPA published its re-proposal on December 1, 2008 and solicited comment on its revised response to the remand.<sup>3</sup> Several public comments received on the re-proposal have raised additional issues that require EPA to re-determine the MACT floors for promulgation in 2009. Specifically, commenters requested that EPA consider new subcategories, address the issue of using post-compliance data to re-develop MACT standards (referred to as "MACT-on-MACT"), consider a different MACT floor ranking approach, and re-evaluate the statistical approach used to account for data variability in setting emission limits.<sup>4</sup>

The purpose of this memorandum is to present the methodology and results of the MACT floor re-determinations. As at re-proposal, we re-determined the MACT floors using data obtained over the last several years (initial and annual performance tests) for currently operating HMIWI. We ranked emission values for each HMIWI, calculated MACT floor averages, and conducted emissions data variability analyses. We determined the MACT floor emission limits based on the results of these analyses. The following sections address pollutant limits for existing and new sources, as well as opacity limits.

### II. Pollutant Limits-Existing Sources

### A. MACT Floors

1. Differences from 1997 MACT floor approach. In our MACT floor approach for the 1997 HMIWI standards, we compensated for the limited amount of HMIWI emissions data by using a database of HMIWI emissions limitations (e.g., permit limits, State emission limits) to establish the MACT floors for existing sources. In those cases where the number of HMIWI with emission limitations was less than 12 percent of the population, we included emission limitations for additional uncontrolled units equivalent to the highest individual test run value. In its remand decision regarding existing sources, the Court expressed concern about how EPA knew sources in the top 12 percent with permit data were not substantially overachieving their permit limits; the court also questioned how EPA knew that sources in the top 12 percent without permit data were uncontrolled.<sup>1</sup>

After reviewing the record and subsequent Court decisions, we determined that the more recent emissions data for HMIWI currently in operation would be used to re-establish the MACT floors for existing sources. We believe the regulatory limits used to establish the MACT floors for the 1997 rule are not representative of actual operation and do not account for non-technology factors.<sup>5</sup> Since the HMIWI regulations have been implemented, HMIWI have conducted both initial and annual performance tests. As a result, there are sufficient emissions data to re-establish MACT floors for existing sources.

There are 57 HMIWI currently in operation in the U.S.—52 existing HMIWI subject to the 1997 emission guidelines, and 5 HMIWI subject to the 1997 NSPS. Performance test data were obtained for all 57 of these units and compiled into a test data database.<sup>6</sup> We used this database to develop the MACT floors. We calculated a single emission value for each unit and each pollutant by determining the mean of the test averages for the specific unit and pollutant.

In developing the MACT floors for existing sources, we included both the 52 HMIWI subject to the 1997 emission guidelines and the 5 HMIWI subject to the 1997 NSPS. We did not

include in the MACT floor calculations any of those units that have shut down since the 1997 standards. We found that more emissions data were available for large, medium, and small non-rural HMIWI compared to small rural HMIWI. Large, medium, and small non-rural units are required to conduct initial tests for seven pollutants (PM, CO, HCl, Pb, Cd, Hg, and CDD/CDF) and annual tests for three pollutants (PM, CO, HCl), while small rural units are only required to conduct initial tests for four pollutants (PM, CO, Hg, and CDD/CDF); no annual pollutant tests are required for small rural units. Opacity tests must be conducted initially and annually for all HMIWI. No testing for  $NO_X$  and  $SO_2$  is currently required for any units, but some HMIWI also tested for these pollutants. This testing regime has also resulted in more emissions data available for some pollutants (PM, CO, and HCl) than others (Pb, Cd, Hg, CDD/CDF, NO<sub>X</sub>, and SO<sub>2</sub>).

In the MACT floor approach for the 1997 standards, the standard for 2,3,7,8tetrachlorodibenzo-p-dioxin (TCDD) toxic equivalents (TEQ) was based on the TEQ performance level associated with the MACT floor control technology determined for total CDD/CDF. As at re-proposal, we have developed separate MACT floors for TEQ and total CDD/CDF, based on the data available for the best-performing 12 percent of sources for each.

The 1997 standards included percent reduction limits for HCl, Pb, Cd, and Hg and gave sources the option of demonstrating compliance by meeting the emission limits or the percent reduction limits. The percent reduction limits were developed using the pollutant concentrations at the inlet and outlet of a control device and reflected only the efficiency of the control device in reducing specific pollutants. As we noted at re-proposal, factors other than control technology (e.g., waste material quantity and composition, combustion conditions) also affect pollutant emissions from HMIWI, so it is inappropriate to provide percent reduction limits for the re-developed regulation based only on control technology performance. Consequently, we are not developing percent reduction limits for HCl and metals (Pb, Cd, and Hg) but are instead eliminating the continued use of the 1997 percent reduction limits after the compliance date of the re-developed regulation.

Commenters on the December 1, 2008 re-proposal argued that percent reduction limits should be retained for commercial HMIWI because their ability to reduce emissions is due almost exclusively to the effectiveness of the control equipment (and not waste segregation). The commenters stated that commercial units cannot practically control the waste that is put in the containers they process, and applicable regulations from the U.S. Occupational Safety and Health Adminstration (OSHA) preclude them from practicing waste segregation at the time of treatment.<sup>4</sup> While we agree that commercial HMIWI are limited in how much they can control the waste they receive, they are still able to educate their customers regarding waste segregation and should also have some control over the waste they receive based on the waste disposal contracts they negotiate with their customers. Consequently, we believe non-technology factors are still under their control to a limited extent, and, consequently, percent reduction limits would still be inappropriate.

2. <u>New subcategory options</u>. In their comments on the December 1, 2008 re-proposal, commenters suggested that EPA, in developing its MACT standards, consider a separate subcategory for commercial HMIWI and redistribute the HMIWI size categories to ensure a more even distribution in the number of HMIWI in each subcategory.<sup>4</sup> To evaluate these concerns, we developed three different subcategory options:

- Option 1—no change to existing HMIWI size categories
- Option 2—create a new commercial subcategory and redistribute the HMIWI size categories for the remaining HMIWI
- Option 3—redistribute the existing HMIWI size categories to more evenly distribute the number of HMIWI

The HMIWI size categories are based on waste charging capacity. Under Option 1, the HMIWI size distributions are unchanged from the 1997 rule. Large HMIWI are defined as units with waste charging capacities greater than 500 pounds per hour (lb/hr). Medium HMIWI are defined as units with waste charging capacities greater than 200 lb/hr and less than or equal to 500 lb/hr. Small HMIWI are defined as units with waste charging capacities are than 200 lb/hr and less than or equal to 200 lb/hr. Small rural HMIWI are defined as small HMIWI located at least 50 miles from the nearest Metropolitan Statistical Area (MSA) boundary.

Under Option 2, HMIWI are subcategorized into commercial and captive HMIWI. Commercial HMIWI offer incineration services to a variety of HMI waste generators but do not generate any HMI waste themselves. Captive HMIWI are owned and operated by the HMI waste generators themselves (e.g., hospitals, universities, pharmaceutical facilities). The captive HMIWI are also subcategorized further. Large captive HMIWI are defined as units with waste charging capacities greater than 1,000 lb/hr. Medium captive HMIWI are defined as units with waste charging capacities greater than 500 lb/hr and less than or equal to 1,000 lb/hr. Small captive HMIWI are defined as units with waste charging capacities less than or equal to 500 lb/hr. Unlike Option 1, there is no further subcategorization of the small size category.

Under Option 3, the current HMIWI size categories are redistributed. Large HMIWI are defined as units with waste charging capacities greater than 1,500 lb/hr. Medium HMIWI are defined as units with waste charging capacities greater than 500 lb/hr and less than or equal to 1,500 lb/hr. Small HMIWI are defined as units with waste charging capacities less than or equal to 500 lb/hr. Similar to Option 1, the small size category is divided into small rural and non-rural subcategories, as defined under the 1997 rule.

For each pollutant, we conducted MACT floor analyses based on all three subcategory options, using the following methodology:

- Rank the emissions data for each unit from lowest to highest for each subcategory.
- Average the emissions data for the best-performing 12 percent of units in each subcategory to determine the MACT floor emissions level for each pollutant.

To determine the number of HMIWI in the best-performing 12 percent, we multiplied the number of sources in each subcategory by 12 percent and rounded up. For example, under Option 1, there are 36 large, 17 medium, 2 small non-rural, and 2 small rural HMIWI. The top 12 percent of sources in those subcategories were calculated to be 4.32 large, 2.04 medium, 0.24 small non-rural, and 0.24 small rural HMIWI. We determined that these values should be rounded up to 5 large, 3 medium, 1 small non-rural, and 1 small rural HMIWI to estimate the number of MACT floor units in each category. This rounding approach is consistent with the approach used by statisticians in survey sampling.<sup>7</sup>

Looked at another way, section 129 of the CAA refers to the MACT floor level as the "average emissions limitation achieved in practice by the best-performing <u>12</u> percent of units in the category" (emphasis added). If the number of units determined to be in the MACT floor is not rounded up from these calculated values (i.e., four large, two medium, and zero small rural and non-rural HMIWI are used to establish the MACT floor under Option 1), then the MACT floors for these categories would not meet the best-performing 12 percent criteria, because they would be based on less than 12 percent of the sources. Four large HMIWI would account for only 11.1 percent; two medium HMIWI would account for 11.8 percent; and zero small HMIWI (rural, non-rural) would account for 0 percent.

3. <u>New MACT floor options</u>. In their comments on the December 1, 2008 re-proposal, commenters argued that EPA's recalculation of the 1997 MACT floors using post-MACT compliance data resulted in MACT-on-MACT standards that could not be achieved.<sup>4</sup> Commenters also rejected EPA's pollutant-by-pollutant approach to choosing the best performing HMIWI. Under the pollutant-by-pollutant approach, MACT floors are established separately for each pollutant, and emission limits are determined directly from those MACT floor emission levels. The commenters argued that this approach essentially created a hypothetical "super unit" and resulted in the selection of MACT floors that no one existing source has achieved and that could not be simultaneously achieved by any of the best-performing sources.<sup>4</sup> The commenters suggested that EPA choose the best-performing sources on an overall basis, so that a certain portion of the existing sources could meet the existing source standards.<sup>4</sup> They suggested the following methodology:

- Establish rankings for how a HMIWI performs for each of the regulated pollutants.
- Sum the individual pollutant rankings to determine the overall (composite) ranking for each HMIWI.
- Rank the overall rankings from lowest to highest to determine the best-performing 12 percent of units for all regulated pollutants.
- Average the emissions data for the overall best-performing 12 percent of units in each subcategory to determine the MACT floor emissions level for each pollutant.

We evaluated this approach within the context of the three subcategory options mentioned above. Under each subcategory option, we created two additional options (Options A and B), with MACT floors under Option A determined using the pollutant-by-pollutant approach, and MACT floors under Option B determined using the approach outlined above by the commenters, which we will refer to as the "composite ranking approach." So, Options 1A and 1B would evaluate MACT floors for the current size categories using the pollutant-by-pollutant and composite ranking approaches, respectively. Options 2A and 2B would evaluate MACT floors for new commercial and captive subcategories using the pollutant-by-pollutant and composite ranking approaches, respectively. Options 3A and 3B would evaluate MACT floors for redistributed size categories using the pollutant-by-pollutant and composite ranking approaches, respectively. Options 3A and 3B would evaluate MACT floors for redistributed size categories using the pollutant approaches, respectively.

Because the composite ranking approach sums up the rankings for all nine regulated pollutants for each HMIWI, this approach requires a complete dataset of all nine pollutants in order for an HMIWI to be considered in the MACT floor analysis. Otherwise, an HMIWI could have a more favorable (i.e., numerically lower) overall ranking because it does not include

rankings for all of the regulated pollutants. This approach limits the number of HMIWI that can be considered for the MACT floor analysis.

Tables 1 through 6 below present summaries of the MACT floor results for Options 1A, 1B, 2A, 2B, 3A, and 3B. The MACT floor ranking tables for these options are presented in Appendices A through F at the end of this memorandum. Note: Those units in the ranking tables determined to be MACT floor units (i.e., the best-performing 12 percent of units) are highlighted in blue text in each ranking table.

In some cases, compliance data were unavailable to estimate MACT floors. No  $NO_X$  and  $SO_2$  data were available for small non-rural units to estimate MACT floors for that subcategory under Option 1A. (Sources are not required to test for  $NO_X$  and  $SO_2$  under the 1997 HMIWI regulation.) Because  $NO_X$  and  $SO_2$  data were missing for small non-rural units, there was also not a complete dataset of all nine regulated pollutants, so it was not possible to estimate MACT floors for that subcategory under Option 1B. (As noted above, the composite ranking options require an HMIWI to have a complete dataset of all nine regulated pollutants in order to be considered in the MACT floor analysis.)

#### B. Data Variability

For the December 1, 2008 re-proposal, we accounted for pollutant-specific variability at the best-performing HMIWI by using emissions data for each test run conducted by the best performing 12 percent of HMIWI within each subcategory. A "test run" is defined in 40 CFR part 60 as the "net period of time during which an emission sample is collected," e.g., a PM emission sample collected during a PM compliance test. Most compliance tests include three test runs, although some tests conducted using continuous emissions monitors (e.g., CO, NO<sub>X</sub>, SO<sub>2</sub>) include more. Our variability calculations included only those test runs from compliance tests considered representative of the typical operation of the HMIWI.<sup>6</sup> We used test run data (as opposed to test averages or unit averages) because we believe each data point (each test run) should be viewed as a snapshot of actual performance, which gives information about the variation in emissions that would be expected to recur over time. We also thought it was important to be consistent across subcategories in how we estimated variability. For small rural and small non-rural HMIWI, it was imperative that we use test run data to estimate variability because we had only one bestperforming unit in those subcategories and only one emission test per unit, and it was not possible to estimate variability based on one data point. For consistency, we thought it was important to take the same approach for those subcategories (medium and large HMIWI) where data were more plentiful.

At re-proposal, we assumed that the emissions data for the best-performing 12 percent of sources were normally distributed, and we determined that using a 99.9 percent upper confidence limit (UCL) would be an appropriate method of estimating variability. The UCL represents the statistical likelihood that a value, in this case an emission value from the average source in the best-performing 12 percent of sources, will fall at or below the UCL value. To calculate the UCL, we used the average (or sample mean) and sample standard deviation, which are two statistical measures calculated from the sample data. The average is the central value of a data set, and the standard deviation is the common measure of the dispersion of the data set around the average. We argued at re-proposal that the 99.9 percent UCL was appropriate for use because sources must

meet the standards at all times, and because the limited amount of test data introduced a degree of uncertainty.<sup>3</sup>

Commenters on the December 1, 2008 re-proposal had concerns about the methods that EPA used to calculate statistical parameters. Specifically, the commenters argued that EPA should characterize emission data distributions before calculating statistics, instead of assuming all data are normally distributed. Otherwise, according to the commenters, it would be difficult to determine if the statistics are valid. When data are not normally distributed, the commenters recommended that EPA transform the data prior to conducting its statistical calculations.<sup>4</sup>

The commenters also noted that EPA used the NORMSINV function in Microsoft Excel to calculate the 99.9 percent UCL, which assumes that the actual mean and variance of a data set is known. According to the commenters, when the mean and variance are estimated from random samples or a small subset of the total population, such as stack test runs, the 99.9 percent UCL should be calculated with the Student t-statistic using the TINV function in Excel, not normal statistics.<sup>4</sup>

Another commenter questioned EPA's use of a 99.9 percent UCL to estimate individual units' variability, arguing that such a high UCL was a departure from EPA's approach in other rulemakings, which used a lower UCL, such as 99, 95, or 90 percent. The commenter suggested that EPA correct its floor approach to avoid such an overcompensation for variability.<sup>4</sup>

After reviewing the commenters' suggestions, we decided to take a closer look at our statistical approach. We agree with the commenters that assuming a normal distribution of the emissions data in every case was not an accurate depiction of the data's actual distribution. Emissions data are, in fact, often lognormally distributed. Consequently, we decided to determine the distribution of the emissions data for the best-performing 12 percent of units within each subcategory prior to calculating UCL values. Because normal distributions typically have a skewness of zero, we decided to use skewness as an indicator of whether the emissions data were normally distributed. Except as specified in the next paragraph, those datasets with a skewness value greater than zero (when rounded to whole numbers) were categorized as lognormal, and all other datasets were categorized as normal. Those data categorized as lognormal were transformed (by taking the natural log of the data) prior to the calculation of UCL values. In most cases, we found the larger datasets to be lognormally distributed. We believe this approach is more accurate and obtained more representative results than the more simplistic normal distribution assumption used at re-proposal.

For smaller datasets with only a few datapoints (e.g., most datasets for small HMIWI, which had only one emission test with three test runs), it was not possible to make a definitive determination that the data were distributed normally or lognormally. In fact, assuming a lognormal distribution for those data often resulted in UCL values (some exorbitant) that were substantially higher than the promulgated 1997 emission limits. In those cases, we decided to use the normal distribution in calculating UCL values, a conservative assumption which provided a more protective emission limit. Those cases are highlighted in green in Tables 1 through 6 below.

We also agree with the commenters that we have only a relatively small, random sample of emissions data available for our MACT floor analyses, which calls for the use of the Student's

t-test. It should be noted that the Student's t-test has also been used in other EPA rulemakings, such as Portland Cement, in accounting for variability.

In light of the public comments we received on the 99.9 percent UCL used at re-proposal and the aforementioned changes in our statistical approach, we also decided to reevaluate the percentiles used with the UCL values. We evaluated four different percentiles (90, 95, 99, and 99.9 percent). See Tables 1 through 6 for the 90, 95, 99, and 99.9 percent UCL values calculated for each MACT floor option (1A, 1B, 2A, 2B, 3A, and 3B). The test run data used in the UCL analyses are presented in Appendices A through F at the end of this memorandum. (Note: The extra rows in the test run data tables are used to keep the number of rows the same for each subcategory across all pollutants, in order to facilitate the statistical calculations.)

The 99.9 percent UCL values estimated for the 2009 final rule are substantially higher than the highest test runs for the MACT floor units and frequently higher than the emission limits in the September 15, 1997 promulgated standards, indicating the 99.9<sup>th</sup> percentile overcompensates for variability. Lower percentiles (e.g., 90, 95, and 99 percent) are inherently more stable than the 99.9<sup>th</sup> percentile, with less uncertainty (less variability) than the 99.9<sup>th</sup> percentile from a statistical standpoint. The 90 and 95 percent UCL values are frequently lower than the highest test runs for the MACT floor units and often lower than the stringent emission limits in the December 1, 2008 re-proposal, indicating that those percentiles insufficiently compensate for variability.

The 99 percent UCL values are somewhat higher than the stringent emission limits in the December 1, 2008 re-proposal but are also below the emission limits in the September 15, 1997 promulgated standards. The 99 percent UCL values are more in line with the highest test runs for the MACT floor units than the other percentiles, seldom falling below (like the 90<sup>th</sup> and 95<sup>th</sup> percentiles) but also not substantially exceeding (like the 99.9<sup>th</sup> percentile). This finding suggests that the 99 percent UCL provides a more reasonable compensation for variability than the other percentiles, resulting in standards more representative of the level of emission reduction that sources are actually achieving on a daily basis. Accordingly, we have decided to use the 99 percent UCL to estimate emission limits for the 2009 final rule.

We calculated the 99 percent UCL values using the following Microsoft Excel equations, based on the test run data for those HMIWI in the best-performing 12 percent:

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

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

In those cases where MACT floor analyses could not be conducted (see end of previous section), we were unable to conduct data variability analyses. Those cases are addressed in the following section in the establishment of emission limits.

#### C. Emission Limits

We determined emission limits for each MACT floor option and pollutant by rounding up the UCL values to two significant figures, in accordance with standard engineering practices. For example, under Option 1A for large HMIWI, we determined the MACT floor emission limit for Hg by rounding up the 99 percent UCL value for Hg (0.0172 milligrams per dry standard cubic meter [mg/dscm]) to 0.018 mg/dscm. For the low concentrations we are looking at, we believe two significant figures provide the appropriate precision. It should be noted that if the UCL values were rounded down, then the possibility exists that the best-performing units that comprise the MACT floor may 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 MACT floor option in Tables 1 through 6 below.

For a couple of options (1A and 1B), there were insufficient data to determine emission limits for small non-rural units based on the data for that subcategory alone. In those cases, we assigned emission limits to the small non-rural category based on the emission limits for a similar subcategory, specifically medium units. Those cases are highlighted in red in Tables 1 and 2.

In some cases, emission limits based on UCL values would be less stringent than the emission limits promulgated in 1997. In those cases, we substituted the 1997 promulgated limits in their place. Those cases are highlighted in yellow in Tables 1 through 6. We estimate that a substantial fraction (40 to 50 percent) of emission limits determined under the composite ranking options would be higher than the 1997 promulgated limits. Also, because not all pollutants are required to be tested (e.g.,  $NO_X$  and  $SO_2$ ), a substantial fraction of available emissions data would have to be discarded under the composite ranking options in order to rank only those HMIWI with a complete set of data for all nine regulated pollutants. Specifically, we would have to discard emissions data for 30 percent of large, 40 percent of medium, 100 percent of small non-rural, and 50 percent of small rural HMIWI in order to calculate MACT floors using the composite ranking options. For these reasons, we have decided not to use the composite ranking options (Options 1B, 2B, and 3B) to develop emission limits for the 2009 final rule.

Given the concerns that commenters expressed about the achievability of the standards, specifically "MACT-on-MACT" and the use of pollutant-by-pollutant ranking, we decided to evaluate the achievability of the remaining MACT floor options (1A, 2A, and 3A). Because the three remaining options are based on different subcategories, comparing emission limits between the options would be like comparing "apples to oranges." We developed another way of comparing the options by looking at the number of HMIWI expected to meet the emission limits under each option. We accomplished this by comparing the emission limits for each MACT floor option to the average emission estimates for each HMIWI. For further comparison, we also conducted the same exercise for the September 1997 promulgated limits, February 2007 proposal limits, and December 2008 re-proposal limits, comparing them to average emission estimates for each HMIWI. The results are presented in Tables 1 through 9 of Appendix G at the end of this memorandum. In each case, we estimated the total number of HMIWI expected to meet all nine limits, eight of the nine limits, seven of the nine limits, etc. These results are also presented in Table 10 and Figure 1 of Appendix G. Then, we estimated the cumulative number of HMIWI expected to meet <u>at least</u> nine, eight, seven limits, etc.

Figure 2 in Appendix G. As shown in Figure 2, more HMIWI are expected to meet the limits, on a cumulative basis, under Options 1A, 2A, and 3A compared to the limits under the 2008 reproposal. Compared to Options 2A and 3A, Option 1A has similar (in fact, slightly higher) numbers of HMIWI expected to meet the limits.

As described previously, Options 2A and 3A explore new subcategory options, including a new commercial subcategory and/or redistributed size categories. We have concerns about these two options because we did not provide an opportunity for the public to comment on the issue of subcategories in the re-proposal. It could be argued that new subcategory options like Options 2A and 3A are not a logical outgrowth of the re-proposal, and any emission limits developed based on these options would be problematic. Given that Option 1A does not change subcategories and results in similar numbers of HMIWI expected to meet the limits compared to the other two options, we believe that Option 1A is the superior MACT floor option on which to base the emission limits for the 2009 final rule.

All HMIWI that complied with the NSPS as promulgated in 1997 (five units) would be considered "existing" sources under the 2009 revised emission guidelines. Those HMIWI would be required to meet the emission limits under the revised guidelines, except where the emission limits under the 1997 NSPS are more stringent. It should be noted that the HCl emission limit for small HMIWI and the PM emission limit for medium HMIWI are more stringent under the 1997 NSPS than under the revised EG.

### III. Pollutant Limits-New Sources

### A. MACT Floors

As noted previously, more recent emissions data for the HMIWI currently in operation were used to re-establish the MACT floors. The MACT floors for new sources were determined based on the emissions level achieved by the best-controlled similar unit for each pollutant and subcategory. In the 2009 final rule, new sources are defined as those installed since the 2008 reproposal, consistent with how they were defined in the 1997 regulation, which defined new sources as those installed since the 1996 re-proposal.

As with existing sources, MACT floors for new sources were developed for all nine of the regulated pollutants, plus opacity, and separate MACT floors were developed for TEQ and total CDD/CDF. In developing the MACT floors for new sources, we looked at the emissions data associated with the 52 HMIWI subject to the 1997 emission guidelines and the 5 HMIWI subject to the 1997 NSPS. We did not include in the MACT floor analysis any of those units that have shut down since the 1997 regulation.

For the reasons given in the previous section, we decided to determine the MACT floors for new sources using Option 1A, which includes the same subcategories as before (large, medium, and small units). Because there is not a small rural HMIWI subcategory for new HMIWI, test data for the small rural HMIWI were not included in the ranking of best-controlled small units. Table 7 below presents a summary of the MACT floor results for Option 1A for new sources. The best-controlled similar units for Option 1A for each pollutant are presented in Appendix H at the end of this memorandum. In two cases, compliance data were unavailable to estimate MACT floors. No  $NO_X$  and  $SO_2$  data were available for small non-rural units to estimate MACT floors for those pollutants for the small HMIWI subcategory under Option 1A. (Sources are not required to test for  $NO_X$  and  $SO_2$  under the 1997 HMIWI regulation.)

### B. Data Variability

As with existing sources, we decided to account for pollutant-specific variability at the best-controlled similar unit by using emissions data for each test run conducted by the bestcontrolled similar units within each subcategory. The results of the data variability analyses are presented in Table 7 below. The test run data used in the analyses are presented in Appendix H at the end of this memorandum. As before, we also decided to determine the distribution of the emissions data for the best-controlled similar units within each subcategory, using skewness as an indicator of whether the emissions data were normally distributed. Those data categorized as lognormal were transformed (by taking the natural log of the data) prior to the calculation of UCL values. When there were only a few datapoints (e.g., one emission test with three test runs), we decided to conservatively assume a normal distribution in calculating UCL values. Those cases are highlighted in green in Table 7. We also used the Student's t-test in our UCL calculations, consistent with other EPA rulemakings (e.g., Portland Cement). In light of the percentile comparison we conducted for existing sources, we decided to also use a 99 percent UCL to estimate emission limits for new sources. We calculated the 99 percent UCL values using the following Microsoft Excel equations, based on the test run data for the best-controlled similar units (best performer):

Normal distribution: 99% UCL = AVERAGE(Test Runs for Best Performer) + [STDEV(Test Runs for Best Performer) x TINV(2 x probability, n -1 degrees of freedom)], for a one-tailed t-value (with 2 x probability), probability of 0.01, and sample size of n

Lognormal distribution: 99% UCL = EXP{AVERAGE(Natural Log Values of Test Runs for Best Performer) + [STDEV(Natural Log Values of Test Runs for Best Performer) x TINV(2 x probability, n -1 degrees of freedom)]}, for a one-tailed t-value (with 2 x probability), probability of 0.01, and sample size of n

In the two cases where MACT floor analyses could not be conducted (i.e.,  $NO_X$  and  $SO_2$ ), we were unable to conduct data variability analyses. Those cases are addressed in the following section in the establishment of emission limits.

### C. Emission Limits

As with existing sources, we determined emission limits for Option 1A by rounding up the 99 percent UCL value for each pollutant to two significant figures, in accordance with standard engineering practices. The emission limits are summarized in Table 7 below.

In a couple of cases (NO<sub>X</sub> and SO<sub>2</sub> limits for small HMIWI), there were insufficient data to determine an emission limit based on the data for that subcategory alone. In those cases, we assigned emission limits to the small subcategory based on the emission limits for a similar subcategory, specifically medium units. Those cases are highlighted in red in Table 7.

In several cases (CO, CDD/CDF, and NO<sub>X</sub> limits for large HMIWI; HCl and Pb limits for medium HMIWI), MACT floor emission limits based on the 99 percent UCL for new HMIWI would be higher than the corresponding limits for existing HMIWI. This unusual situation occurred due to a difference in the size of the datasets used to determine the UCL values for existing and new HMIWI. The dataset for the best performer (used to determine the MACT floor for new sources) is smaller than the dataset for the best-performing 12 percent of sources (used to determine the MACT floor for existing sources) and has a higher standard deviation. Since the UCL calculation depends on both the average and standard deviation, the higher standard deviation resulted in the UCL value for the best performer being higher. In those cases, we decided to use existing source limits for new sources where they are lower than new source limits, and highlighted them in blue in Table 7.

In one case (HCl limit for small HMIWI), an emission limit based on the 99 percent UCL would be less stringent than the emission limit promulgated in 1997. In that case, we substituted the 1997 promulgated limits in its place. That case is highlighted in yellow in Table 7.

### IV. Opacity Limits

In addition to the nine regulated pollutants, we are also developing a revised opacity standard for new and existing HMIWI, using Option 1A. Based on the average opacity values in our test data database, without any accounting for variability, the MACT floor for existing and new units would be 0 percent.<sup>6</sup> (See Appendix I at the end of this memorandum for the MACT floor rankings/units for existing and new sources.) We considered how to appropriately account for variability, given the differences in opacity testing versus testing for the nine regulated pollutants. Because the level of opacity can be impacted by the amount, type, and particle characteristics of PM in the gas stream, as well as process operation, we believe that opacity is an appropriate surrogate for PM emissions and using the highest opacity number from one of the best-performing HMIWI with respect to PM would be an appropriate method for determining the opacity level that has been achieved under variable conditions.

For the December 1, 2008 re-proposal, we based the MACT floor opacity limit for existing and new sources on the single highest opacity monitor reading (1.1 percent) for one of the HMIWI in the MACT floor for PM and rounded it up to 2 percent because we commonly set opacity standards based on whole numbers and could not round down without risking having the MACT floor unit not meet the standard.<sup>3</sup> Several commenters on the re-proposal argued that the proposed opacity limit failed to account for actual opacity monitoring capabilities and normal operational variability.<sup>4</sup> After reviewing the available opacity data in the record, we have determined that our analysis at re-proposal was incomplete. The analysis did not account for two other HMIWI in the MACT floor for PM that could more effectively account for variability for opacity data for these two HMIWI were measured using EPA Method 9. We have decided to establish an opacity limit of 6 percent for the 2009 final rule using the same approach that we used at re-proposal, by rounding up the highest opacity average of 5.87 percent to the nearest whole number.

### V. <u>References</u>

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- 2. Memorandum from Thomas Holloway, RTI, to Mary Johnson, EPA. October 24, 2008. MACT Floors, Data Variability Analysis, and Emission Limits for Existing and New HMIWI.
- 3. U.S. Environmental Protection Agency. December 1, 2008. *Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators.*
- 4. U.S. Environmental Protection Agency. Draft. Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators (40 CFR Part 60 Subparts Ec and Ce): Response to Public Comments.
- 5. Memorandum from Thomas Holloway, RTI, to Mary Johnson, EPA. October 24, 2008. *Comparison of Regulatory Limits with Emissions Test Data*.
- 6. Memorandum from Thomas Holloway, RTI, to Mary Johnson, EPA. October 24, 2008. *Documentation of HMIWI Test Data Database*.
- 7. Cochran, William G. 1977. *Sampling Techniques*. Third Edition, John Wiley & Sons. Pages 72-87.

### Table 1. Summary of MACT Floor Results for Option 1A for Existing Sources Current Large, Medium, Small, Small Rural Subcategories / Pollutant-by-Pollutant Ranking (Determine Distribution, Use T-Test)

CO           yd         ppmvo           36         5           6         1.02           5         1.86           0         3.84           L         45           0         2.91           3.0         7           7         4.53           4         10.7           11         29.6	Pb mg/dscm 36 5 0.00290 1.91 5.08 L 33 0.0150 0.00890 0.0089 0.0142 0.015 0.0358 0.0358	Cd mg/dscm 36 5 0.000653 3.92 19.92 L 42 0.00649 0.00211 0.0021 0.00349 0.0035 0.00919	36 5 0.00182 3.34 13.80 L 27 0.0124 0.00519 0.0052 0.00776	PM gr/dscf 36 5 0.00145 1.37 1.46 L 52 0.00583 0.00346 0.0035 0.00512	CDD/CDF ng/dscm 36 5 0.410 1.31 1.56 L 36 1.57 1.41 1.5	TEQ ng/dscm 36 5 0.00786 1.77 4.42 L 42 0.0336 0.0177 0.018	NO <sub>x</sub> ppmvd 36 5 72.6 1.44 3.57 L 36 145 98.0	SO₂ ppmvd 36 5 0.938 1.34 3.43 L 45 3.00 2.40
36         5         6       1.02         5       1.86         0       3.84         L       45         0       4.05         0       2.91         3.0       7         7       4.53         4       10.7         11	36 5 0.00290 1.91 5.08 L 33 0.0150 0.00890 0.00890 0.0142 0.015 0.0358	36 5 0.000653 3.92 19.92 L 42 0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	36 5 0.00182 3.34 13.80 L 27 0.0124 0.00519 0.0052 0.00776	36 5 0.00145 1.37 1.46 L 52 0.00583 0.00346 <b>0.0035</b>	36 5 0.410 1.31 1.56 L 36 1.57 1.41 <b>1.5</b>	36 5 0.00786 1.77 4.42 L 42 0.0336 0.0177	36 5 72.6 1.44 3.57 L 36 145 98.0	36 5 0.938 1.34 3.43 L 45 3.00 2.40
5 6 1.02 5 1.86 0 3.84 L 45 0 4.05 0 2.91 <b>3.0</b> 7 4.53 <b>4.6</b> 4 10.7 <b>11</b>	5 0.00290 1.91 5.08 L 33 0.0150 0.00890 0.00890 0.0142 0.015 0.0358	5 0.000653 3.92 19.92 L 42 0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	5 0.00182 3.34 13.80 L 27 0.0124 0.00519 <b>0.0052</b> 0.00776	5 0.00145 1.37 1.46 L 52 0.00583 0.00346 <b>0.0035</b>	5 0.410 1.31 1.56 L 36 1.57 1.41 <b>1.5</b>	5 0.00786 1.77 4.42 L 42 0.0336 0.0177	5 72.6 1.44 3.57 L 36 145 98.0	5 0.938 1.34 3.43 L 45 3.00 2.40
5 6 1.02 5 1.86 0 3.84 L 45 0 4.05 0 2.91 <b>3.0</b> 7 4.53 <b>4.6</b> 4 10.7 <b>11</b>	5 0.00290 1.91 5.08 L 33 0.0150 0.00890 0.00890 0.0142 0.015 0.0358	5 0.000653 3.92 19.92 L 42 0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	5 0.00182 3.34 13.80 L 27 0.0124 0.00519 <b>0.0052</b> 0.00776	5 0.00145 1.37 1.46 L 52 0.00583 0.00346 <b>0.0035</b>	5 0.410 1.31 1.56 L 36 1.57 1.41 <b>1.5</b>	5 0.00786 1.77 4.42 L 42 0.0336 0.0177	5 72.6 1.44 3.57 L 36 145 98.0	5 0.938 1.34 3.43 L 45 3.00 2.40
6       1.02         5       1.86         0       3.84         L       45         0       4.05         0       2.91         3.0       7         7       4.53         4       10.7         11	0.00290 1.91 5.08 L 33 0.0150 0.00890 0.0089 0.0142 0.015 0.0358	0.000653 3.92 19.92 L 42 0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	0.00182 3.34 13.80 L 27 0.0124 0.00519 0.0052 0.00776	0.00145 1.37 1.46 L 52 0.00583 0.00346 <b>0.0035</b>	0.410 1.31 1.56 L 36 1.57 1.41 <b>1.5</b>	0.00786 1.77 4.42 L 42 0.0336 0.0177	72.6 1.44 3.57 L 36 145 98.0	0.938 1.34 3.43 L 45 3.00 2.40
5       1.86         0       3.84         L       45         0       4.05         0       2.91         3.0       7         7       4.53         4       10.7         11	1.91           5.08           L           33           0.0150           0.00890           0.0089           0.0142           0.015           0.0358	3.92 19.92 L 42 0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	3.34 13.80 L 27 0.0124 0.00519 0.0052 0.00776	1.37 1.46 L 52 0.00583 0.00346 <b>0.0035</b>	1.31 1.56 L 36 1.57 1.41 <b>1.5</b>	1.77 4.42 L 42 0.0336 0.0177	1.44 3.57 L 36 145 98.0	1.34 3.43 L 45 3.00 2.40
3.84         L         45         0       4.05         0       2.91         3.0         7       4.53         4.6         4       10.7         11	5.08 L 33 0.0150 0.00890 0.0142 0.015 0.0358	19.92 L 42 0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	13.80 L 27 0.0124 0.00519 0.0052 0.00776	1.46 L 52 0.00583 0.00346 <b>0.0035</b>	1.56 L 36 1.57 1.41 <b>1.5</b>	4.42 L 42 0.0336 0.0177	3.57 L 36 145 98.0	3.43 L 45 3.00 2.40
L 45 0 4.05 0 2.91 <b>3.0</b> 7 4.53 <b>4.6</b> 4 10.7 <b>11</b>	L 33 0.0150 0.00890 0.0089 0.0142 0.015 0.0358	L 42 0.00649 0.00211 0.0022 0.00349 0.0035	L 27 0.0124 0.00519 <b>0.0052</b> 0.00776	L 52 0.00583 0.00346 <b>0.0035</b>	L 36 1.57 1.41 <b>1.5</b>	L 42 0.0336 0.0177	L 36 145 98.0	L 45 3.00 2.40
0     4.05       0     2.91       3.0     7       7     4.53       4.6     10.7       11	0.0150 0.00890 0.0089 0.0142 0.015 0.0358	0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	0.0124 0.00519 <b>0.0052</b> 0.00776	0.00583 0.00346 <b>0.0035</b>	1.57 1.41 <b>1.5</b>	0.0336 0.0177	145 98.0	3.00 2.40
0     4.05       0     2.91       3.0     7       7     4.53       4.6     10.7       11	0.0150 0.00890 0.0089 0.0142 0.015 0.0358	0.00649 0.00211 <b>0.0022</b> 0.00349 <b>0.0035</b>	0.0124 0.00519 <b>0.0052</b> 0.00776	0.00583 0.00346 <b>0.0035</b>	1.57 1.41 <b>1.5</b>	0.0336 0.0177	145 98.0	3.00 2.40
2.91           3.0           7         4.53           4.6           4         10.7           11	0.00890 0.0089 0.0142 0.015 0.0358	0.00211 0.0022 0.00349 0.0035	0.00519 <b>0.0052</b> 0.00776	0.00346 <b>0.0035</b>	1.41 <b>1.5</b>	0.0177	98.0	2.40
3.0           7         4.53           4.6         10.7           11         11	0.0089 0.0142 0.015 0.0358	0.0022 0.00349 0.0035	<b>0.0052</b> 0.00776	0.0035	1.5			
7         4.53           4.6         10.7           11         11	0.0142 0.015 0.0358	0.00349 0.0035	0.00776			0.018	00	
<b>4.6</b> 4 10.7 <b>11</b>	<b>0.015</b> 0.0358	0.0035		0.00512		0.010	99	2.4
10.7 11	0.0358			0.00012	2.66	0.0258	108	3.76
11		0.00919	0.0078	0.0052	2.7	0.026	110	3.8
	0.036	0.00010	0.0172	0.0109	9.25	0.0538	131	8.97
4 29.6	0.000	0.0092	0.018	0.011	9.3	0.054	140	9.0
	0.110	0.0293	0.0459	0.0265	41.5	0.129	165	25.2
30	0.11	0.030	0.046	0.015	42	0.13	170	2.9
17	17	17	17	17	17	17	17	17
3	3	3	3	3	3	3	3	3
3 1.01	0.00429	0.00129	0.00153	0.00343	0.159	0.00338	62.5	0.579
5 2.57	3.31	2.41	3.60	2.16	1.90	1.12	-0.14	2.80
4 10.73	12.97	5.64	14.49	8.06	3.03	0.60	-1.90	12.45
L	L	L	L	L	L	L	N	L
32	33	33	21	48	36	36	9	70
2 3.75	0.0219	0.00792	0.00980	0.0157	0.626	0.00888	120	4.10
								1.88
2.2	0.0079	0.0027	0.0043	0.0079	0.34	0.0074	130	1.9
								2.47
								2.5
								4.18
		1						4.2
								7.69
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	2       3.75         8       2.16         9       2.2         3       2.95         1       3.0         9       5.44         7       5.5         4       11.4         1       12         2       1         3       2.27	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.75 $0.0219$ $0.00792$ $8$ $2.16$ $0.00781$ $0.00264$ $9$ $2.2$ $0.0079$ $0.0027$ $3$ $2.95$ $0.0102$ $0.00451$ $1$ $3.0$ $0.011$ $0.0046$ $9$ $5.44$ $0.0172$ $0.0129$ $7$ $5.5$ $0.018$ $0.013$ $4$ $11.4$ $0.0325$ $0.0463$ $4$ $11.4$ $0.0325$ $0.0463$ $4$ $11.4$ $0.033$ $0.047$ $2$ $2$ $2$ $2$ $1$ $1$ $1$ $1$ $3$ $2.27$ $0.0727$ $0.00256$ $0$ $1.90$ $1.66$ $2.87$ $02$ $4.87$ $8.95$	2 $3.75$ $0.0219$ $0.00792$ $0.00980$ $8$ $2.16$ $0.00781$ $0.00264$ $0.00429$ $9$ $2.2$ $0.0079$ $0.0027$ $0.0043$ $3$ $2.95$ $0.0102$ $0.00451$ $0.00765$ $1$ $3.0$ $0.011$ $0.0046$ $0.0077$ $9$ $5.44$ $0.0172$ $0.0129$ $0.0245$ $7$ $5.5$ $0.018$ $0.013$ $0.025$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $4$ $11.4$ $0.0325$ $0.0463$ $0.102$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ <th< td=""><td>2 <math>3.75</math> <math>0.0219</math> <math>0.00792</math> <math>0.00980</math> <math>0.0157</math> <math>8</math> <math>2.16</math> <math>0.00781</math> <math>0.00264</math> <math>0.00429</math> <math>0.00783</math> <math>9</math> <math>2.2</math> <math>0.0079</math> <math>0.0027</math> <math>0.0043</math> <math>0.0079</math> <math>3</math> <math>2.95</math> <math>0.0102</math> <math>0.00451</math> <math>0.00765</math> <math>0.0107</math> <math>1</math> <math>3.0</math> <math>0.011</math> <math>0.0046</math> <math>0.0077</math> <math>0.011</math> <math>9</math> <math>5.44</math> <math>0.0172</math> <math>0.0129</math> <math>0.0245</math> <math>0.0196</math> <math>7</math> <math>5.5</math> <math>0.018</math> <math>0.013</math> <math>0.025</math> <math>0.020</math> <math>4</math> <math>11.4</math> <math>0.0325</math> <math>0.0463</math> <math>0.108</math> <math>0.0400</math> <math>4</math> <math>11.4</math> <math>1</math> <math>1</math> <math>1</math> <math>1</math> <math>1</math> <math>1</math> <math>2</math> <math>2</math> <math>2</math> <math>2</math> <math>2</math> <math>2</math> <math>2</math></td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td></th<>	2 $3.75$ $0.0219$ $0.00792$ $0.00980$ $0.0157$ $8$ $2.16$ $0.00781$ $0.00264$ $0.00429$ $0.00783$ $9$ $2.2$ $0.0079$ $0.0027$ $0.0043$ $0.0079$ $3$ $2.95$ $0.0102$ $0.00451$ $0.00765$ $0.0107$ $1$ $3.0$ $0.011$ $0.0046$ $0.0077$ $0.011$ $9$ $5.44$ $0.0172$ $0.0129$ $0.0245$ $0.0196$ $7$ $5.5$ $0.018$ $0.013$ $0.025$ $0.020$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $0.0400$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $0.0400$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $0.0400$ $4$ $11.4$ $0.0325$ $0.0463$ $0.108$ $0.0400$ $4$ $11.4$ $1$ $1$ $1$ $1$ $1$ $1$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

### Table 1. Summary of MACT Floor Results for Option 1A for Existing Sources Current Large, Medium, Small, Small Rural Subcategories / Pollutant-by-Pollutant Ranking (Determine Distribution, Use T-Test)

;;;;;	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
Number of test runs =	12	12	3	12	3	3	3	3		
Highest test run =	3.10	7.45	0.110	0.0113	0.00414	0.0109	4.50	0.00540		
90% UCL of top 12% (test runs) =	4.18	5.60	0.135	0.00543	0.00567	0.0131	6.18	0.00660		
Limit (based on 90% UCL) =	4.2	5.6	0.14	0.0055	0.0057	0.014	6.2	0.0067	130	1.9
95% UCL of top 12% (test runs) =	8.86	8.28	0.169	0.00773	0.00718	0.0162	7.98	0.00774		
Limit (based on 95% UCL) =	8.9	8.3	0.17	0.0078	0.0072	0.017	8.0	0.0078	150	2.5
99% UCL of top 12% (test runs) =	43.8	19.0	0.301	0.0164	0.0131	0.0280	15.0	0.0122		
Limit (based on 99% UCL) =	44	20	0.31	0.017	0.014	0.029	16	0.013	190	4.2
99.9% UCL of top 12% (test runs) =	422	61.8	0.806	0.0475	0.0354	0.0730	41.9	0.02903		
Limit (based on 99.9% UCL) =	100	40	0.81	0.048	0.036	0.050	42	0.030	250	7.7
SMALL RURAL HMIWI (≤200 LB/HR)										
No. of sources =	2	2	2	2	2	2	2	2	2	2
No. in MACT floor =	1	1	1	1	1	1	1	1	1	1
Avge of top 12% =	135	5.41	0.226	0.0380	0.00158	0.0128	29.6	0.618	95.1	22.6
Skewness =	1.11	-0.99	0.06	-0.89	1.85	1.20	1.63	1.72	0.70	-0.38
Kurtosis =					3.49	0.68				
Distribution =	N	N	N	N	N	Ν	N	N	N	N
Number of test runs =	3	3	3	3	4	4	3	3	3	3
Highest test run =	241	7.21	0.265	0.0463	0.00269	0.0202	63.9	1.35	100	28.8
90% UCL of top 12% (test runs) =	316	9.34	0.299	0.0557	0.00281	0.0216	85.9	1.82	104	34.9
Limit (based on 90% UCL) =	320	9.4	0.30	0.056	0.0029	0.022	86	1.9	110	35
95% UCL of top 12% (test runs) =	416	11.5	0.339	0.0655	0.00335	0.0254	117	2.48	109	41.6
Limit (based on 95% UCL) =	420	12	0.34	0.066	0.0034	0.026	120	2.5	110	42
99% UCL of top 12% (test runs) =	805	19.9	0.496	0.104	0.00500	0.0371	238	5.06	129	68.0
Limit (based on 99% UCL) =	810	20	0.50	0.11	0.0051	0.038	240	5.1	130	55
99.9% UCL of top 12% (test runs) =	2,283	52.0	1.09	0.248	0.00929	0.0675	697	14.9	204	168
Limit (based on 99.9% UCL) =	2,300	40	1.1	0.25	0.0093	0.068	700	15	210	55

Notes:

1. Red shading - no complete set of data for existing small non-rural HMIWI available to conduct MACT analysis. Based limits on UCL for medium HMIWI.

2. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

3. Green shading - insufficient data to determine distribution, so conservatively assumed normal distribution (more protective).

### Table 2. Summary of MACT Floor Results for Option 1B for Existing Sources Current Large, Medium, Small, Small Rural Subcategories / Composite Ranking (Determine Distribution, Use T-Test)

			-	=						,
Demonstration	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF		NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
LARGE HMIWI (>500 LB/HR)										
No. of sources =	36	36	36	36	36	36	36	36	36	36
No. in MACT floor =	5	5	5	5	5	5	5	5	5	5
Avge of top 12% =	4.58	4.27	0.00868	0.00116	0.00536	0.00492	3.51	0.0342	88.0	1.39
Skewness =	3.00	4.01	2.99	3.10	3.36	2.64	2.24	2.18	1.19	3.01
Kurtosis =	14.21	21.50	10.17	12.25	11.57	7.85	6.45	4.14	1.37	9.99
Distribution =	L	L	L	L	L	L	L	L	L	L
Number of test runs =	81	81	54	54	54	81	44	42	60	60
Highest test run =	43.4	41.1	0.0865	0.0117	0.0620	0.0394	29.9	0.137	211	9.67
90% UCL of top 12% (test runs) =	17.1	12.0	0.0322	0.00375	0.0150	0.0198	17.9	0.0536	140	4.00
Limit (based on 90% UCL) =	18	13	0.033	0.0038	0.016	0.015	18	0.054	140	4.0
95% UCL of top 12% (test runs) =	32.3	23.2	0.0596	0.00668	0.0257	0.0365	45.0	0.0934	163	7.05
Limit (based on 95% UCL) =	33	24	0.060	0.0067	0.026	0.015	46	0.094	170	7.1
99% UCL of top 12% (test runs) =	109	81.1	0.195	0.0203	0.0720	0.117	271	0.274	220	20.9
Limit (based on 99% UCL) =	100	40	0.20	0.021	0.073	0.015	125	0.28	230	21
99.9% UCL of top 12% (test runs) =	444	346	0.788	0.0750	0.243	0.448	2,283	0.988	312	74.9
Limit (based on 99.9% UCL) =	100	40	0.79	0.075	0.25	0.015	125	0.99	250	55
MEDIUM HMIWI (>200, ≤500 LB/HR)										
No. of sources =	17	17	17	17	17	17	17	17	17	17
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	10.0	1.35	0.0942	0.00430	0.00583	0.0130	29.2	0.526	128	1.10
Skewness =	4.22	3.31	1.47	2.57	2.36	0.38	2.08	2.05	1.46	3.27
Kurtosis =	20.44	11.42	1.38	7.67	4.80	-0.99	2.88	2.72	4.72	13.77
Distribution =	L	L	L	L	L	N	L	L	L	L
Number of test runs =	38	83	27	24	30	38	28	28	74	70
Highest test run =	129	11.7	0.432	0.0270	0.0247	0.0338	92.7	1.63	265	5.05
90% UCL of top 12% (test runs) =	25.9	3.53	0.324	0.0129	0.0131	0.0260	22.2	0.396	165	2.26
Limit (based on 90% UCL) =	26	3.6	0.33	0.013	0.014	0.027	23	0.40	170	2.3
95% UCL of top 12% (test runs) =	64.0	5.04	0.545	0.0172	0.0219	0.0294	60.6	1.13	179	3.12
Limit (based on 95% UCL) =	65	5.1	0.55	0.018	0.022	0.030	61	1.2	180	3.2
99% UCL of top 12% (test runs) =	374	9.93	1.53	0.0304	0.0603	0.0359	438	8.94	210	5.78
Limit (based on 99% UCL) =	100	10	1.2	0.031	0.061	0.030	125	2.3	220	5.8
99.9% UCL of top 12% (test runs) =	3,125	21.8	5.46	0.0621	0.209	0.0438	5,025	115	253	11.9
Limit (based on 99.9% UCL) =	100	22	1.2	0.063	0.21	0.030	125	2.3	250	12
SMALL HMIWI (≤200 LB/HR)										
No. of sources =	2	2	2	2	2	2	2	2	2	2
No. in MACT floor =	1	1	1	1	1	1	1	1	1	1
Avge of top 12% =										
Skewness =										
Kurtosis =										
Distribution =										

### Table 2. Summary of MACT Floor Results for Option 1B for Existing Sources Current Large, Medium, Small, Small Rural Subcategories / Composite Ranking (Determine Distribution, Use T-Test)

	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
Number of test runs =										
90% UCL of top 12% (test runs) =										
Limit (based on 90% UCL) =	26	3.6	0.33	0.013	0.014	0.027	23	0.40	170	2.3
95% UCL of top 12% (test runs) =										
Limit (based on 95% UCL) =	65	5.1	0.55	0.018	0.022	0.030	61	1.2	180	3.2
99% UCL of top 12% (test runs) =										
Limit (based on 99% UCL) =	100	10	1.2	0.031	0.061	0.036	125	2.3	220	5.8
99.9% UCL of top 12% (test runs) =										
Limit (based on 99.9% UCL) =	100	22	1.2	0.063	0.21	0.044	125	2.3	250	12
SMALL RURAL HMIWI (≤200 LB/HR)										
No. of sources =	2	2	2	2	2	2	2	2	2	2
No. in MACT floor =	1	1	1	1	1	1	1	1	1	1
Avge of top 12% =	298	5.41	0.226	0.0380	0.0906	0.0162	125	2.52	95.1	22.6
Skewness =	1.69	-0.99	0.06	-0.89	1.73	1.64	-0.33	0.81	0.70	-0.38
Kurtosis =										
Distribution =	N	N	N	N	N	N	N	N	Ν	Ν
Number of test runs =	3	3	3	3	3	3	3	3	3	3
Highest test run =	398	7.21	0.265	0.0463	0.247	0.0215	235	5.46	100	28.8
90% UCL of top 12% (test runs) =	461	9.34	0.299	0.0557	0.347	0.0249	341	7.66	104	34.9
Limit (based on 90% UCL) =	470	9.4	0.30	0.056	0.35	0.025	350	7.7	110	35
95% UCL of top 12% (test runs) =	551	11.5	0.339	0.0655	0.487	0.0297	460	10.5	109	41.6
Limit (based on 95% UCL) =	560	12.0	0.34	0.066	0.49	0.030	470	11	110	42
99% UCL of top 12% (test runs) =	901	19.9	0.496	0.104	1.04	0.0485	924	21.5	129	68.0
Limit (based on 99% UCL) =	910	20	0.50	0.11	1.1	0.049	800	15	130	55
99.9% UCL of top 12% (test runs) =	2,232	52.0	1.09	0.248	3.12	0.120	2,688	63.4	204	168
Limit (based on 99.9% UCL) =	2,300	40	1.1	0.25	3.2	0.086	800	15	210	55

Notes:

1. Red shading - no complete set of data for existing small non-rural HMIWI available to conduct MACT analysis. Based limits on UCL for medium HMIWI.

2. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

3. Green shading - insufficient data to determine distribution, so conservatively assumed normal distribution (more protective).

# Table 3. Summary of MACT Floor Results for Option 2A for Existing Sources1 Commercial, 3 Captive Subcategories / Pollutant-by-Pollutant Ranking

•	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
LARGE CAPTIVE HMIWI (>1,000 LB/H	R)									
No. of sources =	11	11	11	11	11	11	11	11	11	11
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	0.983	1.12	0.00395	0.00102	0.00217	0.00133	2.03	0.0279	73.4	0.967
Skewness =	0.90	1.63	2.52	2.62	2.86	2.17	1.61	1.55	-0.97	-0.02
Kurtosis =	0.32	2.66	6.51	8.22	9.49	6.09	2.56	2.63	-0.61	0.73
Distribution =	L	L	L	L	L	L	L	L	Ν	N
Number of test runs =	24	18	30	30	15	21	18	18	9	12
Highest test run =	2.77	3.90	0.0345	0.00649	0.0124	0.00583	9.18	0.103	84.8	1.56
90% UCL of top 12% (test runs) =	2.11	2.91	0.0123	0.00346	0.00686	0.00332	7.57	0.0792	90.1	1.38
Limit (based on 90% UCL) =	2.2	3.0	0.013	0.0035	0.0069	0.0034	7.6	0.080	91	1.4
95% UCL of top 12% (test runs) =	2.90	4.51	0.0207	0.00610	0.0117	0.00508	15.6	0.127	96.3	1.54
Limit (based on 95% UCL) =	2.9	4.6	0.021	0.0062	0.012	0.0051	16	0.13	97	1.6
99% UCL of top 12% (test runs) =	5.44	11.0	0.0577	0.0186	0.0356	0.0119	67.6	0.334	110	1.87
Limit (based on 99% UCL) =	5.5	12	0.058	0.019	0.036	0.012	68	0.34	120	1.9
99.9% UCL of top 12% (test runs) =	12.0	35.3	0.203	0.0731	0.159	0.0353	459	1.18	131	2.33
Limit (based on 99.9% UCL) =	12	36	0.21	0.074	0.16	0.015	125	1.2	140	2.4
MEDIUM CAPTIVE HMIWI (>500, ≤1,00	00 LB/HR)									
No. of sources =	11	11	11	11	11	11	11	11	11	11
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	0.272	0.927	0.00249	0.000619	0.00117	0.00143	0.523	0.0103	72.0	1.76
Skewness =	0.73	1.35	0.88	1.21	-0.02	1.70	0.31	0.05	0.72	1.11
Kurtosis =	-0.42	5.40	0.34	0.97	-3.20	2.17	-0.63	-1.27	-0.34	0.36
Distribution =	L	L	L	L	N	L	N	N	L	L
Number of test runs =	23	18	9	15	6	18	9	12	6	6
Highest test run =	0.863	2.54	0.00905	0.00323	0.00169	0.00460	0.978	0.0210	76.1	3.43
90% UCL of top 12% (test runs) =	0.932	2.35	0.0121	0.00292	0.00193	0.00292	1.24	0.0189	75.8	3.40
Limit (based on 90% UCL) =	0.94	2.4	0.013	0.0030	0.0020	0.0030	1.3	0.019	76	3.5
95% UCL of top 12% (test runs) =	1.62	3.39	0.0230	0.00511	0.00221	0.00419	1.86	0.0216	80.8	4.52
Limit (based on 95% UCL) =	1.7	3.4	0.023	0.0052	0.0023	0.0042	1.9	0.022	81	4.6
99% UCL of top 12% (test runs) =	4.91	7.15	0.0976	0.0163	0.00291	0.00878	4.56	0.0273	95.0	9.23
Limit (based on 99% UCL) =	5.0	7.2	0.098	0.017	0.0030	0.0088	4.6	0.028	96	9.3
99.9% UCL of top 12% (test runs) =	19.8	18.9	0.914	0.0778	0.00422	0.0230	18.3	0.0355	129	35.1
Limit (based on 99.9% UCL) =	20	19	0.92	0.078	0.0043	0.024	19	0.036	130	36
SMALL CAPTIVE HMIWI (≤500 LB/HR)										
No. of sources =	21	21	21	21	21	21	21	21	21	21
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	0.633	1.01	0.00429	0.00129	0.00122	0.00343	0.159	0.00338	62.5	0.579
Skewness =	3.25	2.57	3.31	2.41	4.04	2.16	1.90	1.12	-0.14	2.80
Kurtosis =	13.34	10.73	12.97	5.64	17.64	8.06	3.03	0.60	-1.90	12.45
Distribution =	L	L	L	L	L	L	L	L	Ν	L

# Table 3. Summary of MACT Floor Results for Option 2A for Existing Sources1 Commercial, 3 Captive Subcategories / Pollutant-by-Pollutant Ranking

	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
Highest test run =	3.52	3.75	0.0219	0.00792	0.00980	0.0157	0.626	0.00888	120	4.10
Number of test runs =	40	32	33	33	22	48	36	36	9	70
90% UCL of top 12% (test runs) =	1.88	2.16	0.00781	0.00264	0.00376	0.00783	0.331	0.00732	122	1.88
Limit (based on 90% UCL) =	1.9	2.2	0.0079	0.0027	0.0038	0.0079	0.34	0.0074	130	1.9
95% UCL of top 12% (test runs) =	3.03	2.95	0.0102	0.00451	0.00648	0.0107	0.456	0.0103	141	2.47
Limit (based on 95% UCL) =	3.1	3.0	0.011	0.0046	0.0065	0.011	0.46	0.011	150	2.5
99% UCL of top 12% (test runs) =	7.69	5.44	0.0172	0.0129	0.0194	0.0196	0.848	0.0198	185	4.18
Limit (based on 99% UCL) =	7.7	5.5	0.018	0.013	0.020	0.020	0.85	0.020	190	4.2
99.9% UCL of top 12% (test runs) =	23.4	11.4	0.0325	0.0463	0.0774	0.0400	1.80	0.0438	253	7.69
Limit (based on 99.9% UCL) =	24	12	0.033	0.047	0.078	0.030	1.8	0.044	250	7.7
COMMERCIAL HMIWI										
No. of sources =	14	14	14	14	14	14	14	14	14	14
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	0.614	2.06	0.00419	0.000709	0.00930	0.00305	0.325	0.00592	80.4	0.838
Skewness =	2.28	2.42	2.20	0.76	2.53	2.71	1.94	0.97	1.90	2.79
Kurtosis =	4.34	5.48	5.90	-0.57	5.78	9.75	4.38	1.12	3.51	7.16
Distribution =	L	L	L	L	L	L	L	L	L	L
Number of test runs =	21	87	15	15	30	27	18	24	36	36
Highest test run =	3.00	10.1	0.0150	0.00148	0.0620	0.00993	1.57	0.0201	211	5.70
90% UCL of top 12% (test runs) =	1.88	4.80	0.00872	0.00131	0.0244	0.00451	1.42	0.0151	129	2.38
Limit (based on 90% UCL) =	1.9	4.8	0.0088	0.0014	0.025	0.0046	1.5	0.016	130	2.4
95% UCL of top 12% (test runs) =	3.36	7.86	0.0116	0.00162	0.0453	0.00589	3.19	0.0227	153	4.36
Limit (based on 95% UCL) =	3.4	7.9	0.012	0.0017	0.046	0.0059	3.2	0.023	160	4.4
99% UCL of top 12% (test runs) =	10.8	20.2	0.0210	0.00252	0.153	0.00999	16.5	0.0514	212	14.2
Limit (based on 99% UCL) =	11	21	0.022	0.0026	0.16	0.010	17	0.052	220	15
99.9% UCL of top 12% (test runs) =	47.5	59.9	0.0469	0.00455	0.681	0.0192	141	0.143	316	58.6
Limit (based on 99.9% UCL) =	48	40	0.047	0.0046	0.55	0.020	125	0.15	250	55

Notes:

1. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

# Table 4. Summary of MACT Floor Results for Option 2B for Existing Sources1 Commercial, 3 Captive Subcategories / Composite Ranking

· ·	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	-	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
LARGE CAPTIVE HMIWI (>1,000 LB/HF	R)									
No. of sources =	<u>í</u> 11	11	11	11	11	11	11	11	11	11
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	3.99	1.76	0.00603	0.00164	0.00859	0.00206	5.24	0.176	97.1	1.74
Skewness =	0.70	1.13	2.87	1.47	2.38	1.76	3.24	1.90	1.35	0.87
Kurtosis =	-0.64	0.43	8.89	0.57	5.61	2.33	11.32	2.21	2.62	-0.62
Distribution =	L	L	L	L	L	L	L	L	L	L
Number of test runs =	21	21	21	21	21	21	15	21	21	21
Highest test run =	11.0	6.00	0.0493	0.00738	0.0545	0.00854	28.0	1.05	142	5.30
90% UCL of top 12% (test runs) =	25.3	5.61	0.0272	0.00427	0.0240	0.00901	80.8	1.20	156	5.73
Limit (based on 90% UCL) =	26	5.7	0.028	0.0043	0.025	0.0091	81	1.3	160	5.8
95% UCL of top 12% (test runs) =	53.7	9.85	0.0587	0.00825	0.0422	0.0171	222	2.84	180	9.37
Limit (based on 95% UCL) =	54	9.9	0.059	0.0083	0.043	0.015	125	2.3	190	9.4
99% UCL of top 12% (test runs) =	243	30.6	0.275	0.0311	0.130	0.0618	1,803	16.0	242	25.2
Limit (based on 99% UCL) =	100	31	0.28	0.032	0.14	0.015	125	2.3	250	26
99.9% UCL of top 12% (test runs) =	1,673	130	1.97	0.168	0.551	0.318	3.03E+04	145	353	88.8
Limit (based on 99.9% UCL) =	100	40	1.2	0.16	0.55	0.015	125	2.3	250	55
MEDIUM CAPTIVE HMIWI (>500, ≤1,000	0 LB/HR)									
No. of sources =	11	11	11	11	11	11	11	11	11	11
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	1.18	6.03	0.00789	0.00138	0.00258	0.00327	6.60	0.0575	89.7	2.08
Skewness =	1.10	3.95	3.10	2.29	3.67	0.95	1.19	1.04	-0.09	2.41
Kurtosis =	-0.44	17.62	10.38	5.92	13.83	1.30	2.31	-0.77	-1.92	4.84
Distribution =	L	L	L	L	L	L	L	L	Ν	L
Number of test runs =	30	30	15	15	15	30	17	9	15	15
Highest test run =	3.68	41.1	0.0865	0.0117	0.0203	0.00883	29.9	0.137	149	9.67
90% UCL of top 12% (test runs) =	6.01	13.2	0.0461	0.00599	0.0128	0.0209	96.2	0.236	157	9.71
Limit (based on 90% UCL) =	6.1	14	0.047	0.0060	0.013	0.015	97	0.24	160	9.8
95% UCL of top 12% (test runs) =	12.8	22.9	0.0982	0.0113	0.0224	0.0380	276	0.619	174	16.2
Limit (based on 95% UCL) =	13	23	0.099	0.012	0.023	0.015	125	0.62	180	17
99% UCL of top 12% (test runs) =	57.1	68.0	0.472	0.0418	0.0719	0.123	2,380	5.39	208	47.1
Limit (based on 99% UCL) =	58	40	0.48	0.042	0.072	0.015	125	2.3	210	48
99.9% UCL of top 12% (test runs) =	355	258	3.92	0.244	0.346	0.520	4.06E+04	154	255	198
Limit (based on 99.9% UCL) =	100	40	1.2	0.16	0.35	0.015	125	2.3	250	55
SMALL CAPTIVE HMIWI (≤500 LB/HR)										
No. of sources =	21	21	21	21	21	21	21	21	21	21
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	10.0	1.35	0.0942	0.00430	0.00583	0.0130	29.2	0.526	128	1.10
Skewness =	4.22	3.34	1.47	2.57	2.36	0.38	2.08	2.05	1.46	3.27
Kurtosis =	20.44	11.60	1.38	7.67	4.80	-0.99	2.88	2.72	4.72	13.77
Distribution =	L	L	L	L	L	Ν	L	L	L	L

# Table 4. Summary of MACT Floor Results for Option 2B for Existing Sources1 Commercial, 3 Captive Subcategories / Composite Ranking

Number of test runs =388327243038282874Highest test run =12911.70.4320.02700.02470.033892.71.6326590% UCL of top 12% (test runs) =25.93.500.3240.01310.026022.20.39616590% UCL of top 12% (test runs) =263.60.330.0130.01410.027230.4017095% UCL of top 12% (test runs) =64.04.990.5450.01720.02190.029460.61.13179Limit (based on 95% UCL) =655.00.550.0180.0220.030611.218099% UCL of top 12% (test runs) =3749.791.530.03040.06030.03594388.94210Limit (based on 99% UCL) =1009.81.20.0310.0610.0301252.322099.9% UCL of top 12% (test runs) =3.12521.35.460.06210.2090.04385.025115253Limit (based on 99.% UCL) =100221.20.0630.210.0301252.325099.9% UCL of top 12% (test runs) =3.12521.35.460.06210.2090.04385.025115253Limit (based on 99.% UCL) =100222222222222222222222<	SO <sub>2</sub>	NO <sub>X</sub>	TEQ	CDD/CDF	PM	Hg	Cd	Pb	CO	HCI	
Highest test run =12911.7 $0.432$ $0.0270$ $0.0247$ $0.0338$ $92.7$ $1.63$ $265$ 90% UCL of top 12% (test runs) =25.9 $3.50$ $0.324$ $0.0129$ $0.0131$ $0.0260$ $22.2$ $0.396$ $165$ Limit (based on 90% UCL) =26 $3.6$ $0.33$ $0.013$ $0.014$ $0.027$ $23$ $0.40$ $170$ 95% UCL of top 12% (test runs) = $64.0$ $4.99$ $0.545$ $0.0172$ $0.0294$ $60.6$ $1.13$ $179$ Limit (based on 95% UCL) =65 $5.0$ $0.55$ $0.018$ $0.022$ $0.030$ $61$ $1.2$ $180$ 99% UCL of top 12% (test runs) = $374$ $9.79$ $1.53$ $0.0304$ $0.0603$ $0.0359$ $438$ $8.94$ $210$ Limit (based on 99% UCL) =100 $9.8$ $1.2$ $0.031$ $0.061$ $0.030$ $125$ $2.3$ $220$ $9.9\%$ UCL of top 12% (test runs) = $3,125$ $21.3$ $5.46$ $0.0621$ $0.209$ $0.438$ $5,025$ $115$ $253$ Limit (based on 99.% UCL) =100 $22$ $1.2$ $0.63$ $0.21$ $0.030$ $125$ $2.3$ $250$ COMMERCIAL HMIWI $14$ <	ppmvd	ppmvd	ng/dscm	ng/dscm	gr/dscf	mg/dscm	mg/dscm	mg/dscm	ppmvd	ppmvd	Parameters
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	70	74	28	28	38	30	24	27	83	38	Number of test runs =
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5.05	265	1.63	92.7	0.0338	0.0247	0.0270	0.432	11.7	129	Highest test run =
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2.26	165	0.396	22.2	0.0260	0.0131	0.0129	0.324	3.50	25.9	90% UCL of top 12% (test runs) =
Limit (based on 95% UCL) =655.00.550.0180.0220.030611.218099% UCL of top 12% (test runs) =3749.791.530.03040.06030.03594388.94210Limit (based on 99% UCL) =1009.81.20.0310.0610.0301252.322099.9% UCL of top 12% (test runs) =3,12521.35.460.06210.2090.04385,025115253Limit (based on 99.% UCL) =100221.20.0630.210.0301252.3250COMMERCIAL HMIWI141414141414141414No. of sources =14141414141414No. of sources =8.173.410.01320.001110.009300.008250.3250.0059280.4Skewness =2.742.102.501.762.531.701.940.971.90Kurtosis =11.35.497.954.565.782.784.381.123.51Distribution =LLLLLLLLLLLLLLLLLLLLLLLL1.570.020121190% UCL of top 12% (test runs) =21.713.50.03880.003210.02240.04041.420.01511292551150.016 <td>2.3</td> <td>170</td> <td>0.40</td> <td>23</td> <td>0.027</td> <td>0.014</td> <td>0.013</td> <td>0.33</td> <td>3.6</td> <td>26</td> <td>Limit (based on 90% UCL) =</td>	2.3	170	0.40	23	0.027	0.014	0.013	0.33	3.6	26	Limit (based on 90% UCL) =
99% UCL of top 12% (test runs) =       374       9.79       1.53       0.0304       0.0603       0.0359       438       8.94       210         Limit (based on 99% UCL) =       100       9.8       1.2       0.031       0.061       0.030       125       2.3       220         99.9% UCL of top 12% (test runs) =       3,125       21.3       5.46       0.0621       0.209       0.0438       5,025       115       253         Limit (based on 99.9% UCL) =       100       22       1.2       0.063       0.21       0.030       125       2.3       250         COMMERCIAL HMIWI       14	3.12	179	1.13	60.6	0.0294	0.0219	0.0172	0.545	4.99	64.0	95% UCL of top 12% (test runs) =
Limit (based on 99% UCL) =1009.81.20.0310.0610.0301252.3220 $99.9\%$ UCL of top 12% (test runs) = $3,125$ $21.3$ $5.46$ $0.0621$ $0.209$ $0.0438$ $5,025$ $115$ $253$ Limit (based on 99.9% UCL) =10022 $1.2$ $0.063$ $0.21$ $0.030$ $125$ $2.3$ $250$ COMMERCIAL HMIWI14141414141414141414No. of sources =14141414141414No. of sources =14141414141414No. of sources =222222222Avge of top 12% = $8.17$ $3.41$ $0.0132$ $0.00111$ $0.00930$ $0.00825$ $0.325$ $0.00592$ $80.4$ Skewness = $2.74$ $2.10$ $2.50$ $1.76$ $2.53$ $1.70$ $1.94$ $0.97$ $1.90$ Kurtosis =11.3 $5.49$ $7.95$ $4.56$ $5.78$ $2.78$ $4.38$ $1.12$ $3.61$ Distribution =LLLLLLLLLLNumber of test runs = $43.4$ $22.2$ $0.0780$ $0.00500$ $0.0620$ $0.0394$ $1.57$ $0.0201$ $211$ $90\%$ UCL of top 12% (test runs) = $21.7$ $13.5$ $0.0388$ $0.0025$ $0.015$ $1.5$ $0.016$ $129$ $95\%$ UCL of t	3.2	180	1.2	61	0.030	0.022	0.018	0.55	5.0	65	Limit (based on 95% UCL) =
99.9% UCL of top 12% (test runs) =       3,125       21.3       5.46       0.0621       0.209       0.0438       5,025       115       253         Limit (based on 99.9% UCL) =       100       22       1.2       0.063       0.21       0.030       125       2.3       250         COMMERCIAL HMIWI        14 <td< td=""><td>5.78</td><td>210</td><td>8.94</td><td>438</td><td>0.0359</td><td>0.0603</td><td>0.0304</td><td>1.53</td><td>9.79</td><td>374</td><td>99% UCL of top 12% (test runs) =</td></td<>	5.78	210	8.94	438	0.0359	0.0603	0.0304	1.53	9.79	374	99% UCL of top 12% (test runs) =
Limit (based on 99.9% UCL) =         100         22         1.2         0.063         0.21         0.030         125         2.3         250           COMMERCIAL HMIWI         Image: Commentation of the sources in the sources of the sources in the sources of the sources o	5.8	220	2.3	125	0.030	0.061	0.031	1.2	9.8	100	Limit (based on 99% UCL) =
COMMERCIAL HMIWI         Image: Communication of the section of	11.9	253	115	5,025	0.0438	0.209	0.0621	5.46	21.3	3,125	99.9% UCL of top 12% (test runs) =
No. of sources =       14<	12	250	2.3	125	0.030	0.21	0.063	1.2	22	100	Limit (based on 99.9% UCL) =
No. in MACT floor =       2 <th2< th="">       3       <th2< th=""></th2<></th2<>											COMMERCIAL HMIWI
Avge of top 12% =       8.17       3.41       0.0132       0.00111       0.00930       0.00825       0.325       0.00592       80.4         Skewness =       2.74       2.10       2.50       1.76       2.53       1.70       1.94       0.97       1.90         Kurtosis =       11.3       5.49       7.95       4.56       5.78       2.78       4.38       1.12       3.51         Distribution =       L	14	14	14	14	14	14	14	14	14	14	No. of sources =
Skewness =       2.74       2.10       2.50       1.76       2.53       1.70       1.94       0.97       1.90         Kurtosis =       11.3       5.49       7.95       4.56       5.78       2.78       4.38       1.12       3.51         Distribution =       L <td>2</td> <td>No. in MACT floor =</td>	2	2	2	2	2	2	2	2	2	2	No. in MACT floor =
Kurtosis =11.35.497.954.565.782.784.381.123.51Distribution =LLL<	0.838	80.4	0.00592	0.325	0.00825	0.00930	0.00111	0.0132	3.41	8.17	Avge of top 12% =
Distribution =       L	2.79	1.90	0.97	1.94	1.70	2.53	1.76	2.50	2.10	2.74	Skewness =
Number of test runs =       42       42       42       30       30       30       42       18       24       36         Highest test run =       43.4       22.2       0.0780       0.00500       0.0620       0.0394       1.57       0.0201       211         90% UCL of top 12% (test runs) =       21.7       13.5       0.0388       0.00321       0.0244       0.0404       1.42       0.0151       129         Limit (based on 90% UCL) =       22       14       0.039       0.0033       0.025       0.015       1.5       0.016       129         95% UCL of top 12% (test runs) =       32.5       30.9       0.0658       0.00524       0.0453       0.0887       3.19       0.0227       153         Limit (based on 95% UCL) =       33       31       0.066       0.0053       0.046       0.015       3.2       0.023       160         99% UCL of top 12% (test runs) =       71.6       153       0.186       0.0138       0.153       0.409       16.5       0.0514       212         Limit (based on 99% UCL) =       72       40       0.19       0.014       0.16       0.015       17       0.052       220         99.9% UCL of top 12% (test runs) =       1	7.16	3.51	1.12	4.38	2.78	5.78	4.56	7.95	5.49	11.3	Kurtosis =
Highest test run =43.422.20.07800.005000.06200.03941.570.020121190% UCL of top 12% (test runs) =21.713.50.03880.003210.02440.04041.420.0151129Limit (based on 90% UCL) =22140.0390.00330.0250.0151.50.01612995% UCL of top 12% (test runs) =32.530.90.06580.005240.04530.08873.190.0227153Limit (based on 95% UCL) =33310.0660.00530.0460.0153.20.02316099% UCL of top 12% (test runs) =71.61530.1860.01380.1530.40916.50.0514212Limit (based on 99% UCL) =72400.190.0140.160.015170.05222099.9% UCL of top 12% (test runs) =1831,0310.6670.04480.6812.531410.143316	L	L	L	L	L	L	L	L	L	L	Distribution =
90% UCL of top 12% (test runs) =       21.7       13.5       0.0388       0.00321       0.0244       0.0404       1.42       0.0151       129         Limit (based on 90% UCL) =       22       14       0.039       0.0033       0.025       0.015       1.5       0.016       129         95% UCL of top 12% (test runs) =       32.5       30.9       0.0658       0.00524       0.0463       0.0887       3.19       0.0227       153         Limit (based on 95% UCL) =       33       31       0.066       0.0053       0.046       0.015       3.2       0.023       160         99% UCL of top 12% (test runs) =       71.6       153       0.186       0.0138       0.153       0.409       16.5       0.0514       212         Limit (based on 99% UCL) =       72       40       0.19       0.014       0.16       0.015       17       0.052       220         99.9% UCL of top 12% (test runs) =       183       1,031       0.667       0.0448       0.681       2.53       141       0.143       316	36	36	24	18	42	30	30	30	42	42	Number of test runs =
Limit (based on 90% UCL) =         22         14         0.039         0.0033         0.025         0.015         1.5         0.016         129           95% UCL of top 12% (test runs) =         32.5         30.9         0.0658         0.00524         0.0453         0.0887         3.19         0.0227         153           Limit (based on 95% UCL) =         33         31         0.066         0.0053         0.046         0.015         3.2         0.023         160           99% UCL of top 12% (test runs) =         71.6         153         0.186         0.0138         0.153         0.409         16.5         0.0514         212           Limit (based on 99% UCL) =         72         40         0.19         0.014         0.16         0.015         17         0.052         220           99.9% UCL of top 12% (test runs) =         183         1,031         0.667         0.0448         0.681         2.53         141         0.143         316	5.70	211	0.0201	1.57	0.0394	0.0620	0.00500	0.0780	22.2	43.4	Highest test run =
95% UCL of top 12% (test runs) =       32.5       30.9       0.0658       0.00524       0.0453       0.0887       3.19       0.0227       153         Limit (based on 95% UCL) =       33       31       0.066       0.0053       0.046       0.015       3.2       0.023       160         99% UCL of top 12% (test runs) =       71.6       153       0.186       0.0138       0.153       0.409       16.5       0.0514       212         Limit (based on 99% UCL) =       72       40       0.19       0.014       0.16       0.015       17       0.052       220         99.9% UCL of top 12% (test runs) =       183       1,031       0.667       0.0448       0.681       2.53       141       0.143       316	2.38	129	0.0151	1.42	0.0404	0.0244	0.00321	0.0388	13.5	21.7	90% UCL of top 12% (test runs) =
Limit (based on 95% UCL) =         33         31         0.066         0.0053         0.046         0.015         3.2         0.023         160           99% UCL of top 12% (test runs) =         71.6         153         0.186         0.0138         0.153         0.409         16.5         0.0514         212           Limit (based on 99% UCL) =         72         40         0.19         0.014         0.16         0.015         17         0.052         220           99.9% UCL of top 12% (test runs) =         183         1,031         0.667         0.0448         0.681         2.53         141         0.143         316	2.4	129	0.016	1.5	0.015	0.025	0.0033	0.039	14	22	Limit (based on 90% UCL) =
99% UCL of top 12% (test runs) =       71.6       153       0.186       0.0138       0.153       0.409       16.5       0.0514       212         Limit (based on 99% UCL) =       72       40       0.19       0.014       0.16       0.015       17       0.052       220         99.9% UCL of top 12% (test runs) =       183       1,031       0.667       0.0448       0.681       2.53       141       0.143       316	4.36	153	0.0227	3.19	0.0887	0.0453	0.00524	0.0658	30.9	32.5	95% UCL of top 12% (test runs) =
Limit (based on 99% UCL) =         72         40         0.19         0.014         0.16         0.015         17         0.052         220           99.9% UCL of top 12% (test runs) =         183         1,031         0.667         0.0448         0.681         2.53         141         0.143         316	4.4	160	0.023	3.2	0.015	0.046	0.0053	0.066	31	33	Limit (based on 95% UCL) =
99.9% UCL of top 12% (test runs) = 183 1,031 0.667 0.0448 0.681 2.53 141 0.143 316	14.2	212	0.0514	16.5	0.409	0.153	0.0138	0.186	153	71.6	99% UCL of top 12% (test runs) =
	15	220	0.052	17	0.015	0.16	0.014	0.19	40	72	Limit (based on 99% UCL) =
limit (based on 99.9% LICL) = 100 40 0.67 0.045 0.69 0.015 125 0.15 250	58.6	316	0.143	141	2.53	0.681	0.0448	0.667	1,031	183	99.9% UCL of top 12% (test runs) =
	55	250	0.15	125	0.015	0.69	0.045	0.67	40	100	Limit (based on 99.9% UCL) =

#### Notes:

1. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

# Table 5. Summary of MACT Floor Results for Option 3A for Existing Sources Redistributed Large, Medium, Small, Small Rural Subcategories / Pollutant-by-Pollutant Ranking

,,,	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
LARGE HMIWI (>1,500 LB/HR)										
No. of sources =	14	14	14	14	14	14	14	14	14	14
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	1.62	1.12	0.00309	0.000870	0.00340	0.00180	0.254	0.00592	80.4	0.640
Skewness =	2.31	1.63	2.38	3.61	1.84	1.21	1.91	0.97	1.90	0.07
Kurtosis =	8.77	2.66	7.18	14.18	3.37	2.16	3.16	1.12	3.51	-1.60
Distribution =	L	L	L	L	L	L	L	L	L	N
Number of test runs =	36	18	18	18	15	24	18	24	36	27
Highest test run =	7.95	3.90	0.0150	0.00649	0.0124	0.00583	1.13	0.0201	211	1.35
90% UCL of top 12% (test runs) =	4.16	2.91	0.00905	0.00272	0.0113	0.00495	0.925	0.0151	129	1.15
Limit (based on 90% UCL) =	4.2	3.0	0.0091	0.0028	0.012	0.0050	0.93	0.016	130	1.2
95% UCL of top 12% (test runs) =	5.46	4.51	0.0153	0.00510	0.0198	0.00734	1.80	0.0227	153	1.33
Limit (based on 95% UCL) =	5.5	4.6	0.016	0.0052	0.020	0.0074	1.8	0.023	160	1.4
99% UCL of top 12% (test runs) =	9.29	11.0	0.0443	0.0184	0.0631	0.0161	6.97	0.0514	212	1.66
Limit (based on 99% UCL) =	9.3	12	0.045	0.019	0.064	0.017	7.0	0.052	220	1.7
99.9% UCL of top 12% (test runs) =	17.6	35.3	0.178	0.0981	0.301	0.0429	40.8	0.143	316	2.08
Limit (based on 99.9% UCL) =	18	36	0.18	0.099	0.31	0.015	41	0.15	250	2.1
MEDIUM HMIWI (>500, ≤1,500 LB/HR)										
No. of sources =	22	22	22	22	22	22	22	22	22	22
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	0.370	0.952	0.00278	0.000590	0.00120	0.00130	0.628	0.00946	70.6	1.18
Skewness =	3.31	1.34	0.83	1.59	-0.02	1.05	0.90	0.37	0.12	0.83
Kurtosis =	13.09	6.27	-0.12	2.41	-1.31	-0.08	0.81	-1.30	-1.38	-0.02
Distribution =	L	L	L	L	N	L	L	N	Ν	L
Number of test runs =	35	21	15	21	12	37	12	12	12	15
Highest test run =	2.80	2.54	0.00905	0.00323	0.00220	0.00414	1.41	0.0175	80.7	3.23
90% UCL of top 12% (test runs) =	1.17	2.26	0.00980	0.00220	0.00201	0.00314	1.40	0.0154	81.6	3.12
Limit (based on 90% UCL) =	1.2	2.3	0.0098	0.0022	0.0021	0.0032	1.5	0.016	82	3.2
95% UCL of top 12% (test runs) =	2.07	3.17	0.0159	0.00348	0.00227	0.00459	2.03	0.0176	86.5	4.74
Limit (based on 95% UCL) =	2.1	3.2	0.016	0.0035	0.0023	0.0046	2.1	0.018	87	4.8
99% UCL of top 12% (test runs) =	6.38	6.22	0.0436	0.00879	0.00280	0.00966	4.49	0.0223	97.2	11.3
Limit (based on 99% UCL) =	6.4	6.3	0.044	0.0088	0.0029	0.0097	4.5	0.023	98	12
99.9% UCL of top 12% (test runs) =	24.9	14.7	0.169	0.0286	0.00356	0.0236	13.8	0.0290	112	36.3
Limit (based on 99.9% UCL) =	25	15	0.17	0.0290	0.0036	0.015	14	0.029	120	37
SMALL NON-RURAL HMIWI (≤500 LB/H	R)									
No. of sources =	19	19	19	19	19	19	19	19	19	19
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	0.633	1.01	0.00429	0.00129	0.00153	0.00343	0.159	0.00338	62.5	0.579
Skewness =	3.25	2.57	3.31	2.41	3.97	2.16	1.90	1.12	-0.14	2.80
Kurtosis =	13.34	10.73	12.97	5.64	16.34	8.06	3.03	0.60	-1.90	12.45
Distribution =	L	L	L	L	L	L	L	L	Ν	L

# Table 5. Summary of MACT Floor Results for Option 3A for Existing Sources Redistributed Large, Medium, Small, Small Rural Subcategories / Pollutant-by-Pollutant Ranking

	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NOx	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
Number of test runs =	40	32	33	33	18	48	36	36	9	70
Highest test run =	3.52	3.75	0.0219	0.00792	0.00980	0.0157	0.626	0.00888	120	4.10
90% UCL of top 12% (test runs) =	1.88	2.16	0.00781	0.00264	0.00343	0.00783	0.331	0.00732	122	1.88
Limit (based on 90% UCL) =	1.9	2.2	0.0079	0.0027	0.0035	0.0079	0.34	0.0074	130	1.9
95% UCL of top 12% (test runs) =	3.03	2.95	0.0102	0.00451	0.00617	0.0107	0.456	0.0103	141	2.47
Limit (based on 95% UCL) =	3.1	3.0	0.011	0.0046	0.0062	0.011	0.46	0.011	150	2.5
99% UCL of top 12% (test runs) =	7.69	5.44	0.0172	0.0129	0.0203	0.0196	0.848	0.0198	185	4.18
Limit (based on 99% UCL) =	7.7	5.5	0.018	0.013	0.021	0.020	0.85	0.020	190	4.2
99.9% UCL of top 12% (test runs) =	23.4	11.4	0.0325	0.0463	0.0962	0.0400	1.80	0.0438	253	7.69
Limit (based on 99.9% UCL) =	24	12	0.033	0.047	0.097	0.030	1.8	0.044	250	7.7
SMALL RURAL HMIWI (≤500 LB/HR)										
No. of sources =	2	2	2	2	2	2	2	2	2	2
No. in MACT floor =	1	1	1	1	1	1	1	1	1	1
Avge of top 12% =	298	5.41	0.226	0.0380	0.00158	0.0128	29.6	0.618	95.1	22.6
Skewness =	1.69	-0.99	0.06	-0.89	1.85	1.20	1.63	1.72	0.70	-0.38
Kurtosis =					3.49	0.68				
Distribution =	N	N	N	N	N	Ν	N	N	Ν	N
Number of test runs =	3	3	3	3	4	4	3	3	3	3
Highest test run =	398	7.21	0.265	0.0463	0.00269	0.0202	63.9	1.35	100	28.8
90% UCL of top 12% (test runs) =	461	9.34	0.299	0.0557	0.00281	0.0216	85.9	1.82	104	34.9
Limit (based on 90% UCL) =	470	9.4	0.30	0.056	0.0029	0.022	86	1.9	110	35
95% UCL of top 12% (test runs) =	551	11.5	0.339	0.0655	0.00335	0.0254	117	2.48	109	41.6
Limit (based on 95% UCL) =	560	12	0.34	0.066	0.0034	0.026	120	2.5	110	42
99% UCL of top 12% (test runs) =	901	19.9	0.496	0.104	0.00500	0.0371	238	5.06	129	68.0
Limit (based on 99% UCL) =	910	20	0.50	0.11	0.0051	0.038	240	5.1	130	68
99.9% UCL of top 12% (test runs) =	2,232	52.0	1.09	0.248	0.00929	0.0675	697	14.9	204	168
Limit (based on 99.9% UCL) =	2,300	40	1.1	0.25	0.0093	0.068	700	15	210	55

Notes:

1. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

2. Green shading - insufficient data to determine distribution, so conservatively assumed normal distribution (more protective).

# Table 6. Summary of MACT Floor Results for Option 3B for Existing SourcesRedistributed Large, Medium, Small, Small Rural Subcategories / Composite Ranking

	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
LARGE HMIWI (>1,500 LB/HR)										
No. of sources =	14	14	14	14	14	14	14	14	14	14
No. in MACT floor =	2	2	2	2	2	2	2	2	2	2
Avge of top 12% =	4.76	2.66	0.00446	0.000871	0.00432	0.00552	1.93	0.0240	94.1	0.794
Skewness =	0.32	1.14	2.31	3.21	0.82	2.04	1.59	1.78	1.31	1.74
Kurtosis =	-1.21	0.30	6.82	12.46	-0.89	3.43	2.36	3.05	1.59	5.54
Distribution =	Ν	L	L	L	L	L	L	L	L	L
Number of test runs =	30	30	24	24	24	30	18	21	27	27
Highest test run =	13.2	10.1	0.0299	0.00649	0.0130	0.0394	9.18	0.103	211	3.00
90% UCL of top 12% (test runs) =	10.2	12.3	0.0159	0.00253	0.0149	0.0265	10.4	0.0651	154	2.21
Limit (based on 90% UCL) =	11	13	0.016	0.0026	0.015	0.015	11	0.066	160	2.3
95% UCL of top 12% (test runs) =	11.7	26.7	0.0286	0.00471	0.0257	0.0571	27.8	0.122	186	3.76
Limit (based on 95% UCL) =	12	27	0.029	0.0048	0.026	0.015	28	0.13	190	3.8
99% UCL of top 12% (test runs) =	14.8	122	0.0916	0.0162	0.0761	0.259	205	0.436	268	10.8
Limit (based on 99% UCL) =	15	40	0.092	0.017	0.077	0.015	125	0.44	250	11
99.9% UCL of top 12% (test runs) =	18.5	785	0.394	0.0764	0.297	1.65	2,768	2.20	422	39.5
Limit (based on 99.9% UCL) =	19	40	0.40	0.077	0.30	0.015	125	2.3	250	40
MEDIUM HMIWI (>500, ≤1,500 LB/HR)										
No. of sources =	22	22	22	22	22	22	22	22	22	22
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	6.32	4.89	0.00751	0.00132	0.00306	0.00276	6.97	0.0677	103	2.31
Skewness =	2.32	4.96	3.76	3.28	2.98	0.84	1.02	0.54	-0.37	1.83
Kurtosis =	6.59	28.81	16.94	13.46	10.10	1.18	1.50	-0.96	-0.71	2.20
Distribution =	L	L	L	L	L	L	L	L	N	L
Number of test runs =	42	51	36	36	36	43	35	27	36	36
Highest test run =	41.9	41.1	0.0865	0.0117	0.0203	0.00883	29.9	0.203	177	9.67
90% UCL of top 12% (test runs) =	15.7	6.82	0.0223	0.00396	0.00793	0.00718	29.5	0.241	163	4.95
Limit (based on 90% UCL) =	16	6.9	0.023	0.0040	0.0080	0.0072	30	0.25	170	5.0
95% UCL of top 12% (test runs) =	32.9	9.69	0.0378	0.00626	0.0111	0.0103	52.2	0.412	175	6.45
Limit (based on 95% UCL) =	33	9.7	0.038	0.0063	0.012	0.011	53	0.42	180	6.5
99% UCL of top 12% (test runs) =	139	19.1	0.106	0.0153	0.0214	0.0208	159	1.19	200	10.8
Limit (based on 99% UCL) =	100	20	0.11	0.016	0.022	0.015	125	1.2	200	11
99.9% UCL of top 12% (test runs) =	770	42.5	0.368	0.0449	0.0474	0.0479	613	4.44	230	20.2
Limit (based on 99.9% UCL) =	100	40	0.37	0.045	0.048	0.015	125	2.3	230	21
SMALL NON-RURAL HMIWI (≤500 LB/										
No. of sources =	, 19	19	19	19	19	19	19	19	19	19
No. in MACT floor =	3	3	3	3	3	3	3	3	3	3
Avge of top 12% =	10.0	1.35	0.0942	0.00430	0.00583	0.0130	29.2	0.526	128	1.10
Skewness =	4.22	3.34	1.47	2.57	2.36	0.38	2.08	2.05	1.46	3.27
Kurtosis =	20.44	11.60	1.38	7.67	4.80	-0.99	2.88	2.72	4.72	13.77
Distribution =	L	L	L	L	L	N	L	L	L	L

# Table 6. Summary of MACT Floor Results for Option 3B for Existing SourcesRedistributed Large, Medium, Small, Small Rural Subcategories / Composite Ranking

	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NO <sub>X</sub>	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
Number of test runs =	38	83	27	24	30	38	28	28	74	70
Highest test run =	129	11.7	0.432	0.0270	0.0247	0.0338	92.7	1.63	265	5.05
90% UCL of top 12% (test runs) =	25.9	3.50	0.324	0.0129	0.0131	0.0260	22.2	0.396	165	2.26
Limit (based on 90% UCL) =	26	3.6	0.33	0.013	0.014	0.027	23	0.40	170	2.3
95% UCL of top 12% (test runs) =	64.0	4.99	0.545	0.0172	0.0219	0.0294	60.6	1.13	179	3.12
Limit (based on 95% UCL) =	65	5.0	0.55	0.018	0.022	0.030	61	1.2	180	3.2
99% UCL of top 12% (test runs) =	374	9.79	1.53	0.0304	0.0603	0.0359	438	8.94	210	5.78
Limit (based on 99% UCL) =	100	9.8	1.2	0.031	0.061	0.030	125	2.3	220	5.8
99.9% UCL of top 12% (test runs) =	3,125	21.3	5.46	0.0621	0.209	0.0438	5,025	115	253	11.9
Limit (based on 99.9% UCL) =	100	22	1.2	0.063	0.21	0.030	125	2.3	250	12
SMALL RURAL HMIWI (≤500 LB/HR)										
No. of sources =	2	2	2	2	2	2	2	2	2	2
No. in MACT floor =	1	1	1	1	1	1	1	1	1	1
Avge of top 12% =	298	5.41	0.226	0.0380	0.0906	0.0162	125	2.52	95.1	22.6
Skewness =	1.69	-0.99	0.06	-0.89	1.73	1.64	-0.33	0.81	0.70	-0.38
Kurtosis =										
Distribution =	Ν	N	N	N	N	Ν	N	N	Ν	Ν
Number of test runs =	3	3	3	3	3	3	3	3	3	3
Highest test run =	398	7.21	0.265	0.0463	0.247	0.0215	235	5.46	100	28.8
90% UCL of top 12% (test runs) =	461	9.34	0.299	0.0557	0.347	0.0249	341	7.66	104	34.9
Limit (based on 90% UCL) =	470	9.4	0.30	0.056	0.35	0.025	350	7.7	110	35
95% UCL of top 12% (test runs) =	551	11.5	0.339	0.0655	0.487	0.0297	460	10.5	109	41.6
Limit (based on 95% UCL) =	560	12	0.34	0.066	0.49	0.030	470	11	110	42
99% UCL of top 12% (test runs) =	901	19.9	0.496	0.104	1.04	0.0485	924	21.5	129	68.0
Limit (based on 99% UCL) =	910	20	0.50	0.11	1.1	0.049	800	15	130	55
99.9% UCL of top 12% (test runs) =	2,232	52.0	1.09	0.248	3.12	0.120	2,688	63.4	204	168
Limit (based on 99.9% UCL) =	2,300	40	1.1	0.25	3.2	0.086	800	15	210	55

Notes:

1. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

2. Green shading - insufficient data to determine distribution, so conservatively assumed normal distribution (more protective).

### Table 7. Summary of MACT Floor Results for Option 1A for New Sources Current Large, Medium, Small Subcategories / Pollutant-by-Pollutant Ranking (Determine Distribution, Use T-Test)

	HCI	CO	Pb	Cd	Hg	PM	CDD/CDF	TEQ	NOx	SO <sub>2</sub>
Parameters	ppmvd	ppmvd	mg/dscm	mg/dscm	mg/dscm	gr/dscf	ng/dscm	ng/dscm	ppmvd	ppmvd
LARGE HMIWI (>500 LB/HR HMIWI)										
No. of sources =	1	1	1	1	1	1	1	1	1	1
Top performer =	0.190	0.87	0.00030	0.000106	0.00069	0.00106	0.152	0.00378	66.9	0.462
Skewness =	0.61	1.39	1.57	0.49	1.68	2.05	0.79	0.55	-1.14	0.54
Kurtosis =	-0.57	3.67				3.93	0.32	-1.53		-1.57
Distribution =	L	L	N	Ν	N	L	L	L	Ν	L
Number of test runs =	12	12	3	3	3	12	9	12	3	18
99% UCL of top 12% (test runs) =	5.07	11.3	0.000688	0.000128	0.00121	0.00800	12.8	0.0341	144	1.59
Limit (based on 99% UCL) =	5.1	11	0.00069	0.00013	0.0013	0.0080	9.3	0.035	130	1.6
MEDIUM HMIWI (>200, ≤500 LB/HR)										
No. of sources =	1	1	1	1	1	1	1	1	1	1
Top performer =	0.455	0.679	0.00397	0.00106	0.000836	0.00294	0.0973	0.00291	15.0	0.336
Skewness =	0.95	-0.17	1.88	2.42	1.73	0.21	2.61	1.81	-1.06	1.70
Kurtosis =	0.37	-1.40	4.00	4.70		-1.47	8.30	3.15		
Distribution =	L	N	L	L	N	Ν	L	L	Ν	Ν
Number of test runs =	18	12	9	21	3	9	15	15	3	3
99% UCL of top 12% (test runs) =	13.6	1.71	0.0366	0.00975	0.00346	0.00940	0.467	0.0130	66.4	1.32
Limit (based on 99% UCL) =	<b>7.7</b>	1.8	0.0300	0.00975	0.00340	0.00940	0.407 <b>0.47</b>	0.0130 0.014	67	1.32
SMALL HMIWI (≤200 LB/HR)	1.1	1.0	0.010	0.0090	0.0035	0.0095	0.4/	0.014	07	1.4
No. of sources =	1	1	1	1	1	1	1	1	1	1
Top performer =	1.03	2.27	0.0727	0.00256	0.00292	0.00760	2.89	0.00453		
Skewness =	0.80	1.90	1.66	2.87	-1.13	1.36	-0.59	-1.34		
Kurtosis =	-0.92	4.87		8.95						
Distribution =	L	L	N	L	N	N	N	N		
Number of test runs =	12	12	3	12	3	3	3	3		
99% UCL of top 12% (test runs) =	43.8	19.0	0.301	0.0164	0.0131	0.0280	15.0	0.0122		
Limit (based on 99% UCL) =	15	20	0.31	0.017	0.014	0.029	16	0.013	67	1.4

Notes:

1. Red shading - no complete set of data for existing small HMIWI available to conduct MACT analysis. Based limits on UCL for medium HMIWI.

2. Yellow shading - limits based on UCL would be less stringent than promulgated limits. Therefore, used promulgated limits instead.

3. Green shading - insufficient data to determine distribution, so conservatively assumed normal distribution (more protective).

4. Blue shading - limits for new sources less stringent than limits for existing sources. Therefore, used limits for existing sources instead.

Appendix A MACT Floor Option 1A – Existing Sources / Current Subcategories / Pollutant-by-Pollutant Ranking MACT Floor Rankings and Test Runs

Table 1. HCI MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate- gory	APCD code	HCI ppmvd
ARGE H	IMIWI (>50 201	0 LB/HR) Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	0.190
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	0.353
			011111 0					
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	0.567
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	0.608
94	94	Stericycle, Inc.		Warren	OH	L	WS	0.66
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	0.780
54 43	54 43	Bayfront Medical Center Boca Raton Community Hospital		St. Petersburg Boca Raton	FL FL	L	WS WS	0.94
48	48	Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	1.02
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	1.1:
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	1.18
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	1.43
125	125	East Carolina University, Health Sciences Campus,		Greenville	NC	L	HEPA/CA/WS	1.58
98	981	HSC Utility Plant University of Texas Medical Branch		Galveston	ТХ	L	WS	2.12
71	71	Loyola University Medical Center		Maywood	IL	L	WS	2.22
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	2.68
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	2.68
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	3.75
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	3.8
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	3.93
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	4.2
59 120	591 1202	Stericycle, Inc. Waste Management Resource Recovery and Recycling	Unit 1 Unit 2	Haw River Anahuac	NC TX	L	WS DIFF	4.24
130	130	Center Department of Veterans Affairs Medical Center		Miami	FL	L	ws	8.32
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	TX	L	DIFF	11.0
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	12.5
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	15.
29 87	29 87	Hamot Medical Center MedCentral Health System, Mansfield Hospital		Erie Mansfield	PA OH	L	DIFF/WS DIFF	16. 24.
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	24.0
42	42	Stericycle, Inc.		Apopka	FL	L	DIFF	27.
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	38.
1	1	Bristol-Myers Squibb Co.	Onter	Wallingford	CT	L	FF	65.7
109	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	72.5
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	76.9
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	85.2
		00, ≤500 LB/HR)						
108		Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	0.455
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	0.708
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	0.730
111	111	Wyoming Medical Center		Casper	WY	м	WS	1.1
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	1.2
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	м	WS	1.39
18	18	Franklin Square Hospital Center		Baltimore	MD	м	WS	1.48
82	82	Good Samaritan Hospital		Vincennes	IN	м	WS	1.58
30	30	Riddle Memorial Hospital		Media	PA	M	WS	2.10
41	41	Thomas Memorial Hospital		South Charleston	WV	M	WS	2.62
88	88	Medina General Hospital		Medina	OH	M	WS	3.29
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	M	WS	4.69
95	95	St. Joseph's Hospital		Marshfield	WI	M	DIFF	5.27
21	21	Washington County Hospital	1	Hagerstown	MD	M	WS	6.26

38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	8.95
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	12.3
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	27.5
SMALL N	ON-RURA	AL HMIWI (≤200 LB/HR)						
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	1.03
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	1.30
SMALL F	RURAL HN	IIWI (≤200 LB/HR)						
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	135
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	298

Table 2. CO MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	CO ppmvd
20	MIWI (>500 201	LB/HR) Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	0.871
			en la compañía de la comp					
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	0.983
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	1.00
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper	PA	L	DIFF	1.07
				Gwynedd Township)				
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	1.17
48	48	Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	1.17
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	1.26
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	1.41
98	981	University of Texas Medical Branch		Galveston	тх	L	WS	1.73
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	2.24
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	2.46
29	29	Hamot Medical Center		Gwynedd Township) Erie	PA	L	DIFF/WS	2.60
29	29			Elle	FA	L	DIFF/WS	2.00
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	2.74
120	1202	Waste Management Resource Recovery and Recycling	Unit 2	Anahuac	ТХ	L	DIFF	2.86
15	152	Center Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	2.91
59	591	Stericycle, Inc.	Unit 1	Haw River	NC	L	WS	3.95
120	1201	Waste Management Resource Recovery and Recycling	Unit 1	Anahuac	ТХ	L	DIFF	3.96
94	94	Center Stericycle, Inc.		Warren	ОН	L	WS	4.45
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	4.61
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	4.62
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	OH	L	DIFF	4.81
46 65	46 652	Holy Cross Hospital Stericycle, Inc.	Unit 2	Fort Lauderdale Clinton	FL	L	WS WS	4.91 5.77
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	5.85
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	5.90
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	6.35
43	43	Boca Raton Community Hospital		Boca Raton	FL	L	WS	6.46
71	71	Loyola University Medical Center		Maywood	IL	L	WS	7.07
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	7.39
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	9.36
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/WS	10.7
42	42	Stericycle, Inc.		Apopka	FL	L	DIFF	10.7
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	11.3
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	12.9
109	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	14.7
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	15.1
63	63	<b>5, ≤500 LB/HR)</b> St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	0.679
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	0.946
30	30	Riddle Memorial Hospital		Media	PA	м	WS	1.41
		·						
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	м	WS	1.50
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	1.88
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	1.91
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	1.97
81	81	South Bend Medical Foundation	L	South Bend	IN	М	WS	2.06
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	м	DIFF	2.08
34	34	Pennsylvania State University, Animal Diagnostic Lab		State College	PA	М	WS	2.11
05	05	Incinerator		Marabfield	14/2		DIFF	<u> </u>
95 111	95 111	St. Joseph's Hospital Wyoming Medical Center	-	Marshfield Casper	WI WY	M	DIFF WS	2.15 3.28
	18	Franklin Square Hospital Center				M	WS	
10		I TATINITI SUUALE FIUSDILAI CETILEI	1	Baltimore	MD	IVI	000	5.363
18 21	21	Washington County Hospital		Hagerstown	MD	м	WS	6.62

47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	М	WS	11.6
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	М	WS	11.8
88	88	Medina General Hospital		Medina	ОН	М	WS	14.1
SMALL NO	ON-RURAL	HMIWI (≤200 LB/HR)						
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	2.27
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	12.1
SMALL RU	JRAL HMIN	VI (≤200 LB/HR)						
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	5.41
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	7.00

Table 3. Pb MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Pb mg/dscm
	MIWI (>500			<b>a</b>				
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/WS	0.000296
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	0.00115
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	0.00335
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	0.00468
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	0.00504
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	0.00675
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	0.00769
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	TX	L	DIFF	0.00778
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	0.0109
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	0.0155
109	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	0.0171
120	1201	Waste Management Resource Recovery and Recycling	Unit 1	Anahuac	ТХ	L	DIFF	0.0187
110	110	Center Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	0.0309
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	0.0348
		5						
87 42	87 42	MedCentral Health System, Mansfield Hospital Stericycle, Inc.		Mansfield Apopka	OH FL	L	DIFF	0.0415
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	0.0435
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	0.0618
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	0.0740
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	0.0774
43	43	Boca Raton Community Hospital		Boca Raton	FL	L	WS	0.0883
48 54	48 54	Memorial Regional Hospital Bayfront Medical Center		Hollywood St. Petersburg	FL FL	L	WS/WESP WS	0.0928
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	0.126
106	106	Stericycle, Inc.	Unit 3	Kansas City	KS	L	WS	0.120
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	0.134
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	0.177
71	71	Loyola University Medical Center		Maywood	IL	L	WS	0.178
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	0.182
65 59	651 591	Stericycle, Inc. Stericycle, Inc.	Unit 1 Unit 1	Clinton Haw River	IL NC	L	WS WS	0.200
29	591	Stencycle, Inc.	Unit I	Haw River	NC	L	VV5	0.206
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	0.206
94	94	Stericycle, Inc.		Warren	OH	L	WS	0.244
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	0.291
1 98	1 981	Bristol-Myers Squibb Co. University of Texas Medical Branch		Wallingford Galveston	CT TX	L	FF WS	0.319
		Dilversity of rexas Medical Branch D, ≤500 LB/HR)		Galvesion	1	L	W3	0.750
95	95	St. Joseph's Hospital		Marshfield	WI	м	DIFF	0.00397
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	0.00406
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	0.00485
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	0.0261
111	111	Wyoming Medical Center		Casper	WY	M	WS	0.0496
108	1081	Rocky Mountain Laboratories, National Institute of	Unit 1	Hamilton	мт	M	WS	0.0996
		Allergy and Infectious Diseases						
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	0.151
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	0.155
21	21	Washington County Hospital		Hagerstown	MD	М	WS	0.164
30	30	Riddle Memorial Hospital		Media	PA	М	WS	0.178
	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	м	WS	0.227
<u>4</u> 7	18	Franklin Square Hospital Center		Baltimore	MD	M	WS	0.227
47 18	10							
	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	м	WS	0.331

88	88	Medina General Hospital		Medina	ОН	м	WS	0.669
41	41	Thomas Memorial Hospital		South Charleston	WV	м	WS	0.723
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	м	WS	0.973
SMALL N	ON-RURAL	HMIWI (≤200 LB/HR)						
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	0.0727
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	0.161
SMALL R		VI (≤200 LB/HR)						
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	0.226
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	

Table 4. Cd MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Cd mg/dscm
ARGE HI	MIWI (>500 125	LB/HR) East Carolina University, Health Sciences Campus,		Greenville	NC	L	HEPA/CA/WS	0.000106
60	601	HSC Utility Plant BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	0.000532
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	0.000853
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	0.000887
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	0.000889
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	OH	L	DIFF	0.00113
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	0.00119
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	0.00130
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	TX	L	DIFF	0.00132
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	0.00186
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	0.00205
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	0.00214
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper	PA	L	DIFF	0.00242
5	5	Merck & Company, Inc.		Gwynedd Township) Rahway	NJ	L	DIFF	0.00265
				-				
109 98	109 981	Healthcare Environmental Services Inc. University of Texas Medical Branch		Fargo Galveston	ND TX	L	DIFF WS	0.00296
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	0.00364
51	51			Lakeland	FL	L	DIFF	0.00365
		Lakeland Regional Medical Center						
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	0.00379
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	0.00396
94	94	Stericycle, Inc.		Warren	ОН	L	WS	0.00524
43	43	Boca Raton Community Hospital		Boca Raton	FL	L	WS	0.00537
48	48	Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	0.00560
130 65	130 651	Department of Veterans Affairs Medical Center Stericycle, Inc.	Unit 1	Miami Clinton	FL IL	L	WS WS	0.00564
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	0.00867
42	42		01		FL	L	DIFF	0.00886
44	44	Stericycle, Inc. Bethesda Memorial Hospital		Apopka Boynton Beach	FL	L	WS	0.00929
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	0.00992
84 65	84 652	Mayo Clinic, Waste Management Facility Stericycle, Inc.	Unit 2	Rochester Clinton	MN IL	L	DIFF WS	0.0101
05	002		Offic 2	Clinton		-	****	0.0120
71	71	Loyola University Medical Center		Maywood	IL	L	WS	0.0152
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	0.0168
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	0.0188
59	591	Stericycle, Inc.	Unit 1	Haw River	NC	L	WS	0.0233
77	77	Parkview Hospital 0, ≤500 LB/HR)		Fort Wayne	IN	L	WS	0.0802
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	0.00106
95	95	St. Joseph's Hospital		Marshfield	WI	M	DIFF	0.00128
63	63	St. Jude Children's Research Hospital		Memphis	TN	M	DIFF	0.00152
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	0.00176
82	82	Good Samaritan Hospital		Vincennes	IN	м	WS	0.00336
30	30	Riddle Memorial Hospital		Media	PA	м	WS	0.00366
34	34	Pennsylvania State University, Animal Diagnostic Lab		State College	PA	М	WS	0.00408
108	1081	Incinerator Rocky Mountain Laboratories, National Institute of	Unit 1	Hamilton	MT	м	WS	0.00773
88	88	Allergy and Infectious Diseases Medina General Hospital		Medina	OH	M	WS	0.0109
21	21	Washington County Hospital		Hagerstown	MD	М	WS	0.0139
111	111	Wyoming Medical Center		Casper	WY	М	WS	0.0182
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	0.0297
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	0.0439
16	16	Johns Hopkins Medical Institute, Department of Health,		Baltimore	MD	м	WS	0.0472
		Safety, and Environment						

18	18	Franklin Square Hospital Center		Baltimore	MD	М	WS	0.0474
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	М	WS	0.0877
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	0.122
SMALL N	ON-RURAL	HMIWI (≤200 LB/HR)						
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	0.00256
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	0.00545
SMALL R	URAL HMI	NI (≤200 LB/HR)						
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	0.0380
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	

Table 5. Hg MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Hg mg/dscm
LARGE HN 1	<b>/IWI (&gt;500</b> 1	LB/HR) Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	0.000695
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	0.00128
125	125	East Carolina University, Health Sciences Campus,		Greenville	NC	L	HEPA/CA/WS	0.00164
51	51	HSC Utility Plant Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	0.00244
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	0.00305
20	201	Fort Detrick	Unit 5	Gwynedd Township) Fort Detrick	MD	L	WS	0.00324
5 48	5 48	Merck & Company, Inc. Memorial Regional Hospital		Rahway Hollywood	NJ FL	L	DIFF WS/WESP	0.00353
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	0.00400
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	0.00418
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	0.00542
120	1202	Waste Management Resource Recovery and Recycling	Unit 2	Anahuac	ТХ	L	DIFF	0.00559
77	77	Center Parkview Hospital		Fort Wayne	IN	L	WS	0.00623
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	0.00730
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	0.00771
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	OH	L	DIFF	0.00898
43	43	Boca Raton Community Hospital		Boca Raton	FL	L	WS	0.0119
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТΧ	L	DIFF	0.0130
42	42	Stericycle, Inc.		Apopka	FL	L	DIFF	0.0132
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	0.0141
71	71	Loyola University Medical Center		Maywood	IL	L	WS	0.0183
59 84	591 84	Stericycle, Inc. Mayo Clinic, Waste Management Facility	Unit 1	Haw River Rochester	NC MN	L	WS DIFF	0.0389
98 46	981 46	University of Texas Medical Branch Holy Cross Hospital		Galveston Fort Lauderdale	TX FL	L	WS WS	0.0482
60	601	BMWNC. Inc.	Unit 1	Matthews	NC	L	DIFF	0.0598
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	0.0739
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	0.0746
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	0.118
109	109	Healthcare Environmental Services Inc.	L Insit 4	Fargo	ND	L	DIFF	0.129
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	0.174
94	94	Stericycle, Inc.		Warren	OH	L	WS	0.239
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	0.300
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	0.375
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	0.377
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	0.415
		), ≤500 LB/HR)						
21	21	Washington County Hospital		Hagerstown	MD	М	WS	0.000836
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	0.00124
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	0.00251
95	95	St. Joseph's Hospital		Marshfield	WI	м	DIFF	0.00254
18	18	Franklin Square Hospital Center		Baltimore	MD	м	WS	0.00270
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	м	WS	0.00312
25	25	Holy Spirit Hospital		Camp Hill	PA	м	WS	0.00346
63	63	St. Jude Children's Research Hospital		Memphis	TN	M	DIFF	0.00361
16 88	16 88	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment Medina General Hospital		Baltimore Medina	MD OH	M M	WS WS	0.00395
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	M	DIFF	0.00710
30	30	Riddle Memorial Hospital		Media	PA	M	WS	0.00927
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	M	WS	0.0108
111	47	Wyoming Medical Center		Casper	WY	M	WS	0.0193
				04000		IVI	****	0.023

13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	0.0405
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	0.109
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	0.206
SMALL N	ON-RURAL	_ HMIWI (≤200 LB/HR)						
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	0.00292
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	0.0114
SMALL R	URAL HMI	WI (≤200 LB/HR)						
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	0.00158
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	0.0906

Table 6. PM MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	PM gr/dscf
ARGE HN 40	<b>AIWI (&gt;500</b> 40	LB/HR) Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	0.00106
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	0.00111
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	0.00156
29	29	Hamot Medical Center		Gwynedd Township) Erie	PA	L	DIFF/WS	0.00174
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	0.00180
42	42	Stericycle, Inc.			FL	L	DIFF	0.00203
		•		Apopka				
51 36	51 362	Lakeland Regional Medical Center Merck & Company, Inc.	Unit 5	Lakeland West Point (Upper	FL PA	L	DIFF	0.00254
125	125	East Carolina University, Health Sciences Campus,		Gwynedd Township) Greenville	NC	L	HEPA/CA/WS	0.00323
		HSC Utility Plant						
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	0.00330
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	ОН	L	DIFF	0.00357
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	0.00407
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	0.00449
		•						
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	0.00504
54	54	Bayfront Medical Center Healthcare Environmental Services Inc.		St. Petersburg	FL	L	WS DIFF	0.00543
109	109	nealincare Environmental Services Inc.		Fargo	ND	L		0.00611
94	94	Stericycle, Inc.		Warren	ОН	L	WS	0.00617
120	1201	Waste Management Resource Recovery and Recycling	Unit 1	Anahuac	ТХ	L	DIFF	0.00702
59	591	Center Stericycle, Inc.	Unit 1	Haw River	NC	L	WS	0.00714
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	0.00721
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	0.00775
15 106	151 106	Curtis Bay Energy Stericycle, Inc.	Unit 1	Baltimore Kansas City	MD KS	L	DIFF WS	0.00823
		•		,		_	-	
65 65	652 651	Stericycle, Inc. Stericycle, Inc.	Unit 2 Unit 1	Clinton Clinton	IL IL	L	WS WS	0.00878
120	1202	Waste Management Resource Recovery and Recycling	Unit 2	Anahuac	ТХ	L	DIFF	0.00947
		Center	011112					
44 48	44 48	Bethesda Memorial Hospital Memorial Regional Hospital		Boynton Beach Hollywood	FL FL	L	WS WS/WESP	0.00960
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	0.0102
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	0.0103
43	43	Boca Raton Community Hospital		Boca Raton	FL	L	WS	0.0104
71	71	Loyola University Medical Center		Maywood	IL	L	WS	0.0105
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	0.0109
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	0.0111
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	0.0137
98	981	University of Texas Medical Branch		Galveston	TX	L	WS	0.0147
		0,≤500 LB/HR)						
95	95	St. Joseph's Hospital		Marshfield	WI	М	DIFF	0.00294
111	111	Wyoming Medical Center		Casper	WY	М	WS	0.00336
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	0.00399
63	63	St. Jude Children's Research Hospital		Memphis	TN	M	DIFF	0.00505
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	0.01159
30	30	Riddle Memorial Hospital		Media	PA	М	WS	0.0124
13	13	University of Maryland at Baltimore, Environmental		Baltimore	MD	М	WS	0.0126
82	82	Health and Safety Facility Good Samaritan Hospital		Vincennes	IN	м	WS	0.0137
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	0.0164
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	М	WS	0.0173
21	21	Washington County Hospital		Hagerstown	MD	М	WS	0.0197
∠ı 108	1081	Rocky Mountain Laboratories, National Institute of	Unit 1	Hagerstown	MD	M	WS	0.0197
100	1001	Allergy and Infectious Diseases	Unit i	riamilion	1711	IVI	**3	0.0210
34	34	Pennsylvania State University, Animal Diagnostic Lab		State College	PA	м	WS	0.0239
	1	Incinerator				1		ļ
18	18	Franklin Square Hospital Center		Baltimore	MD	M	WS	0.025

41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	0.0261
88	88	Medina General Hospital		Medina	ОН	м	WS	0.0267
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	м	WS	0.0294
SMALL N	ON-RURAL	. HMIWI (≤200 LB/HR)						
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	0.00760
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	0.0137
SMALL R		// (≤200 LB/HR)						
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	0.0128
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	0.0162

Table 7.	Total CDD/CDF MAC	F Floor Rankings for Option	1 1A - Current Subcategories	/ Pollutant-by-Pollutant Ranking

	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	CDD/CDF ng/dscm
120	1202	Waste Management Resource Recovery and Recycling	Unit 2	Anahuac	ТХ	L	DIFF	0.15
84	84	Center Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	0.35
125	125	East Carolina University, Health Sciences Campus,		Greenville	NC	L	HEPA/CA/WS	0.38
120	1201	HSC Utility Plant Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	TX	L	DIFF	0.49
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	0.66
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	0.83
65 40	651 40	Stericycle, Inc. Charleston Area Medical Center, General Hospital	Unit 1	Clinton Charleston	IL WV	L	WS DIFF	1.2 1.3
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	2.4
59	591	Stericycle, Inc.	Unit 1	Haw River	NC	L	WS	2.8
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	3.3
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	3.7
15	152	Curtis Bay Energy	Unit 2	Gwynedd Township) Baltimore	MD	L	DIFF	5.4
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	5.4
60	601	BMWNC, Inc.	Unit 1	Matthews	NC PA	L	DIFF	6.1
36	362 77	Merck & Company, Inc. Parkview Hospital	Unit 5	West Point (Upper Gwynedd Township) Fort Wavne	IN	L	WS	6.7 7.1
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	7.1
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	12.
94	94	Stericycle, Inc.		Warren	OH	L	WS	14.
42	42	Stericycle, Inc.		Apopka	FL	L	DIFF	24.
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	27.
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	ОН	L	DIFF	29.
1 54	1 54	Bristol-Myers Squibb Co. Bayfront Medical Center		Wallingford St. Petersburg	CT FL	L	FF WS	36. 46.
48	48	Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	48.
44 55	44 55	Bethesda Memorial Hospital St. Joseph's Hospital		Boynton Beach	FL	L	WS DIFF/WS	54. 66.
43	43	Boca Raton Community Hospital		Tampa Boca Raton	FL	L	WS	67.
71	71	Loyola University Medical Center		Maywood	IL	L	WS	67.
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	68.
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	85.
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	97.
98	981	University of Texas Medical Branch		Galveston	TX	L	WS	98.
109	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	1
		0, ≤500 LB/HR)					-	
34	34	Pennsylvania State University, Animal Diagnostic Lab		State College	PA	М	WS	0.097
41	41	Incinerator Thomas Memorial Hospital		South Charleston	WV	M	WS	0.17
108	1081	Rocky Mountain Laboratories, National Institute of	Unit 1	Hamilton	MT	M	WS	0.20
13	13	Allergy and Infectious Diseases University of Maryland at Baltimore, Environmental		Baltimore	MD	М	WS	1.0
95	95	Health and Safety Facility St. Joseph's Hospital		Marshfield	WI	М	DIFF	1.2
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	3.4
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	4.1
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	М	WS	4.4
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	М	WS	6.9
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	9.1
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	16.
88	88	Medina General Hospital		Medina	OH	M	WS	17.
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	27.

21	21	Washington County Hospital		Hagerstown	MD	М	WS	76.2
30	30	Riddle Memorial Hospital		Media	PA	М	WS	78.2
18	18	Franklin Square Hospital Center		Baltimore	MD	м	WS	91.4
SMALL N	ON-RURAL	.HMIWI (≤200 LB/HR)						
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	2.89
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	
SMALL R	URAL HMI	NI (≤200 LB/HR)						
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	29.6
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	125

Table 8.	CDD/CDF TEQ N	ACT Floor Rankings fo	or Option 1A - Cur	rent Subcategories /	Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	TEQ ng/dscm
ARGE HI 120	MIWI (>500 1202	LB/HR) Waste Management Resource Recovery and Recycling	Unit 2	Anahuac	TX	L	DIFF	0.0037
125	125	Center East Carolina University, Health Sciences Campus,		Greenville	NC	L	HEPA/CA/WS	0.0053
120	1201	HSC Utility Plant Waste Management Resource Recovery and Recycling	Unit 1	Anahuac	TX	L	DIFF	0.0080
65	651	Center Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	0.010
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	0.011
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	0.012
		•	Unit 2					
40 130	40 130	Charleston Area Medical Center, General Hospital Department of Veterans Affairs Medical Center		Charleston Miami	WV FL	L	DIFF WS	0.015 0.016
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	0.017
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	0.044
59	591	Stericycle, Inc.	Unit 1	Gwynedd Township) Haw River	NC	L	WS	0.066
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	0.082
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	0.084
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	0.087
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	0.089
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	0.005
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	0.11
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	0.14
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper	PA	L	DIFF	0.30
94	94	Stericycle, Inc.		Gwynedd Township) Warren	ОН	L	WS	0.34
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	0.45
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	ОН	L	DIFF	0.56
71	71	Loyola University Medical Center		Maywood	IL	L	WS	0.63
1 42	1 42	Bristol-Myers Squibb Co. Stericycle, Inc.		Wallingford Apopka	CT FL	L	FF DIFF	0.65
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	0.76
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	0.81
43	43	Boca Raton Community Hospital		Boca Raton	FL	L	WS	0.85
98	981	University of Texas Medical Branch		Galveston	TX	L	WS	1.0
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	1.2
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	1.2
48	48	Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	1.2
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	1.2
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	1.3
109	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	1.9
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	2.2
AEDIUM H 34	1MIWI (>200 34	D, <b>≤500 LB/HR)</b> Pennsylvania State University, Animal Diagnostic Lab		State College	PA	M	WS	0.0029
		Incinerator						
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	0.0030
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	0.0042
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	0.029
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	0.040
95	95	St. Joseph's Hospital		Marshfield	WI	М	DIFF	0.045
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	0.050
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	0.096
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	м	WS	0.11
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	м	WS	0.15
62	63	Sarety, and Environment St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	0.16
63 38	38	St. Jude Children's Research Hospital Wilkes-Barre General Hospital		Wilkes-Barre	PA	M	DIFF	0.16
88	88	Medina General Hospital Franklin Square Hospital Center		Medina	OH	M	WS WS	0.45
18	18			Baltimore	MD	M	14/0	0.99

111	111	Wyoming Medical Center		Casper	WY	М	WS	1.12
21	21	Washington County Hospital		Hagerstown	MD	М	WS	1.32
30	30	Riddle Memorial Hospital		Media	PA	М	WS	1.42
SMALL NO	ON-RURAL	HMIWI (≤200 LB/HR)						
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	0.00453
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	0.0624
SMALL R	URAL HMIN	VI (≤200 LB/HR)						
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	0.618
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	2.52

Table 9.	NO <sub>x</sub> MACT FI	oor Rankings for	Option 1A -	<b>Current Subcategories</b>	/ Pollutant-b	y-Pollutant Ranking

125       46       120       51       98       130       44       120       40       36       36       60       71       55       29       54       48       42       84       15       15       15       109       110       87       20       20       20       20       20       20       20       20	125         46         1201         51         981         130         44         1202         40         362         361         601         71         5         1         55         29         54         48	East Carolina University, Health Sciences Campus, HSC Utility Plant Holy Cross Hospital Waste Management Resource Recovery and Recycling Center Lakeland Regional Medical Center University of Texas Medical Branch Department of Veterans Affairs Medical Center Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center Bayfront Medical Center	Unit 1 Unit 2 Unit 2 Unit 2 Unit 2 Unit 1	Greenville Greenville Fort Lauderdale Anahuac Lakeland Galveston Miami Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford Tampa	NC       FL       TX       FL       TX       FL       TX       PA       NC       IL       NJ       CT		HEPA/CA/WS WS DIFF WS WS WS DIFF DIFF DIFF DIFF DIFF WS	66. 67. 72. 77. 81. 88. 88. 92. 94. 99. 99. 10 10
120       51       98       130       44       120       40       36       36       60       71       55       29       54       48       42       84       15       15       15       109       110       87       20       20       43	1201           51           981           130           44           1202           40           362           361           601           71           5           1           55           29           54           48	Holy Cross Hospital Waste Management Resource Recovery and Recycling Center Lakeland Regional Medical Center University of Texas Medical Branch Department of Veterans Affairs Medical Center Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 2 Unit 5 Unit 2	Anahuac Lakeland Galveston Miami Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	TX       FL       TX       FL       TX       WV       PA       PA       NC       IL       NJ       CT		DIFF UIFF DIFF DIFF DIFF UIFF WS WS	72. 77. 78. 81. 88. 88. 92. 94. 99. 10 10
120       51       98       130       44       120       40       36       60       71       55       29       54       48       42       84       15       15       15       109       110       87       20       20       43	1201           51           981           130           44           1202           40           362           361           601           71           5           1           55           29           54           48	Waste Management Resource Recovery and Recycling Center Lakeland Regional Medical Center University of Texas Medical Branch Department of Veterans Affairs Medical Center Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 2 Unit 5 Unit 2	Anahuac Lakeland Galveston Miami Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	TX       FL       TX       FL       TX       WV       PA       PA       NC       IL       NJ       CT		DIFF UIFF DIFF DIFF DIFF UIFF WS WS	72 77 78 81 88 88 92 94 99 94 99 10
51       98       130       44       120       40       36       60       71       55       29       54       48       42       84       15       15       109       110       87       20       20       43	51           981           130           44           1202           40           362           361           601           71           5           1           55           29           54           48	Center Lakeland Regional Medical Center University of Texas Medical Branch Department of Veterans Affairs Medical Center Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 2 Unit 5 Unit 2	Lakeland Galveston Miami Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	FL       TX       FL       FL       TX       WV       PA       PA       IL       NJ       CT		DIFF WS WS UFF DIFF DIFF DIFF WS	77 78 81 82 92 94 99 99 10
98       130       44       120       40       36       36       60       71       5       29       54       48       42       84       15       15       15       15       109       110       87       20       43	981           130           44           1202           40           362           361           601           71           5           1           55           29           54           48	University of Texas Medical Branch Department of Veterans Affairs Medical Center Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 5 Unit 2	Galveston Miami Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	TX       FL       FL       TX       WV       PA       PA       NC       IL       NJ       CT		WS WS DIFF DIFF DIFF DIFF WS	78 81 88 92 94 99 10 10
130       44       120       40       36       36       60       71       5       29       54       48       42       84       15       15       15       109       110       87       20       20       43	130           44           1202           40           362           361           601           71           5           1           55           29           54           48	Department of Veterans Affairs Medical Center Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 5 Unit 2	Miami Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	FL FL TX WV PA PA NC IL NJ CT		WS WS DIFF DIFF DIFF DIFF WS	81 88 88 92 94 94 99 10
44       120       40       36       36       71       5       1       55       29       54       48       42       84       15       15       15       109       110       87       20       20       43	44 1202 40 362 361 601 71 5 5 1 55 29 54 48	Bethesda Memorial Hospital Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 5 Unit 2	Boynton Beach Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	FL       TX       WV       PA       PA       NC       IL       NJ       CT		WS DIFF DIFF DIFF DIFF WS	88 88 92 94 99 10 10
120       40       36       36       60       71       5       1       55       29       54       48       42       84       15       15       109       110       87       20       20       43	1202 40 362 361 601 71 5 5 1 55 29 54 48	Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 5 Unit 2	Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	TX WV PA PA NC IL NJ CT		DIFF DIFF DIFF DIFF DIFF WS	88 92 94 99 10
120       40       36       36       60       71       5       1       55       29       54       48       42       84       15       15       109       110       87       20       20       43	1202 40 362 361 601 71 5 5 1 55 29 54 48	Waste Management Resource Recovery and Recycling Center Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 5 Unit 2	Anahuac Charleston West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	TX WV PA PA NC IL NJ CT		DIFF DIFF DIFF DIFF DIFF WS	88 92 94 99 10 10
36       36       60       71       5       1       55       29       54       48       42       84       15       15       16       109       110       87       20       20       43	362 361 601 71 5 1 55 29 54 48	Charleston Area Medical Center, General Hospital Merck & Company, Inc. Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 2	West Point (Upper Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	PA PA NC IL NJ CT		DIFF DIFF DIFF WS	94 99 10
36       60       71       5       1       55       29       54       48       42       84       15       15       109       110       87       20       20       43	361 601 71 5 1 55 29 54 48	Merck & Company, Inc. BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 2	Gwynedd Township) West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	PA NC IL NJ CT	L L L	DIFF DIFF WS	99
60           71           5           1           55           29           54           48           42           84           15           15           109           110           87           20           20           43	601 71 5 1 55 29 54 48	BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center		West Point (Upper Gwynedd Township) Matthews Maywood Rahway Wallingford	NC IL NJ CT	L	DIFF	1(
60           71           5           1           55           29           54           48           42           84           15           15           109           110           87           20           20           43	601 71 5 1 55 29 54 48	BMWNC, Inc. Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center		Gwynedd Township) Matthews Maywood Rahway Wallingford	NC IL NJ CT	L	DIFF	10
71       5       1       55       29       54       48       42       84       15       15       15       109       110       87       20       20       43	71 5 1 55 29 54 48	Loyola University Medical Center Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center	Unit 1	Maywood Rahway Wallingford	IL NJ CT	L	WS	1(
5           1           55           29           54           48           42           84           15           15           109           110           87           20           20           43	5 1 55 29 54 48	Merck & Company, Inc. Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center		Rahway Wallingford	NJ CT	L		
1           55           29           54           48           42           84           15           15           109           110           87           20           20           43	1 55 29 54 48	Bristol-Myers Squibb Co. St. Joseph's Hospital Hamot Medical Center		Wallingford	СТ		DIFF	
55           29           54           48           42           84           15           15           109           110           87           20           43	55 29 54 48	St. Joseph's Hospital Hamot Medical Center					2	11
29           54           48           42           84           15           15           109           110           87           20           20           20           20           43	29 54 48	Hamot Medical Center		Tampa	FL	L	FF	1'
54           48           42           84           15           15           109           110           87           20           20           43	54 48				1	L	DIFF/WS	12
48 42 84 15 15 109 110 87 20 20 43	48	Bavfront Medical Center		Erie	PA	L	DIFF/WS	13
42 84 15 15 109 110 87 20 20 43				St. Petersburg	FL	L	WS	14
84 15 15 109 110 87 20 20 43		Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	14
15       15       109       110       87       20       20       20       43	42	Stericycle, Inc.		Apopka	FL	L	DIFF	14
15       109       110       87       20       20       43	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	17
15       109       110       87       20       20       43	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	18
110 87 20 20 43	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	18
87 20 20 43	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	20
20 20 43	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	22
20 43	87	MedCentral Health System, Mansfield Hospital		Mansfield	OH	L	DIFF	
43	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	
	202 43	Fort Detrick Boca Raton Community Hospital	Unit 6	Fort Detrick Boca Raton	MD FL	L	WS WS	
	591	Stericycle, Inc.	Unit 1	Haw River	NC		WS	
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	
94	94	Stericycle, Inc.		Warren	OH	L	WS	
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	
		0,≤500 LB/HR)						
81	81	South Bend Medical Foundation		South Bend	IN	М	WS	18
18	18	Franklin Square Hospital Center		Baltimore	MD	М	WS	84
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment		Baltimore	MD	М	WS	87
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	94
13	13	University of Maryland at Baltimore, Environmental		Baltimore	MD	М	WS	99
30	30	Health and Safety Facility Riddle Memorial Hospital		Media	PA	м	WS	12
108	1081	Rocky Mountain Laboratories, National Institute of	Unit 1	Hamilton	МТ	М	WS	1:
		Allergy and Infectious Diseases	Unit I					
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	1:
111	111	Wyoming Medical Center		Casper	WY	М	WS	14
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	М	WS	14
38		Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	
38 95	28	St. Joseph's Hospital		Marshfield	WI	M	DIFF	
21	38 95	Washington County Hospital		Hagerstown	MD	М	WS	
25				Camp Hill	PA	м	WS	

34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	
88	88	Medina General Hospital		Medina	ОН	М	WS	
SMALL NO	ON-RURAL	HMIWI (≤200 LB/HR)						
129	129	Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	
SMALL RU	URAL HMIN							
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	95.1
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	

Table 10. SO<sub>2</sub> MACT Floor Rankings for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	SO <sub>2</sub> ppmvd
LARGE HI 120	MIWI (>500 1202	LB/HR) Waste Management Resource Recovery and Recycling	Unit 2	Anahuac	ТХ	L	DIFF	0.462
		Center	0					
71	71	Loyola University Medical Center		Maywood	IL	L	WS	0.819
98	981	University of Texas Medical Branch		Galveston	ТХ	L	WS	1.12
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	1.13
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	1.16
120	1201	Waste Management Resource Recovery and Recycling	Unit 1	Anahuac	ТХ	L	DIFF	1.21
54	54	Center Bayfront Medical Center		St. Petersburg	FL	L	WS	1.25
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/WS	1.45
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	1.45
42	42	Stericycle, Inc.		Apopka	FL	L	DIFF	1.50
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	2.07
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	2.13
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	2.35
5	5	Merck & Company, Inc.		Rahway	NJ	L	DIFF	2.72
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	2.78
110	110	Stericycle, Inc.		North Salt Lake	UT	L	DI-ESP/WS	3.35
48	48	Memorial Regional Hospital		Hollywood	FL	L	WS/WESP	3.41
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	4.62
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	7.03
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	7.58
109	109	Healthcare Environmental Services Inc.		Fargo	ND	L	DIFF	20.2
	151				MD		DIFF	
15 1	151	Curtis Bay Energy Bristol-Myers Squibb Co.	Unit 1	Baltimore Wallingford	CT	L	FF	23.0 29.9
15	152	Curtis Bay Energy	Unit 2	Baltimore	MD	L	DIFF	34.7
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	
87	87	MedCentral Health System, Mansfield Hospital		Mansfield	ОН	L	DIFF	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	
20 43	202 43	Fort Detrick Boca Raton Community Hospital	Unit 6	Fort Detrick Boca Raton	MD FL	L	WS WS	
59	591	Stericycle, Inc.	Unit 1	Haw River	NC	L	WS	
59	592	Stericycle, Inc.	Unit 2	Haw River	NC	L	WS	
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	
65	652	Stericycle, Inc.	Unit 2	Clinton	IL	L	WS	
77	77	Parkview Hospital		Fort Wayne	IN	L	WS	
94 106	94 106	Stericycle, Inc. Stericycle, Inc.		Warren Kansas City	OH KS	L	WS WS	
		D,≤500 LB/HR)			KO	L	113	
30	30	Riddle Memorial Hospital		Media	PA	М	WS	0.336
13	13	University of Maryland at Baltimore, Environmental		Baltimore	MD	М	WS	0.469
108	1081	Health and Safety Facility Rocky Mountain Laboratories, National Institute of	Unit 1	Hamilton	MT	М	WS	0.932
34	34	Allergy and Infectious Diseases Pennsylvania State University, Animal Diagnostic Lab		State College	PA	M	WS	1.22
		Incinerator						
111	111	Wyoming Medical Center		Casper	WY	М	WS	1.80
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	м	DIFF	1.90
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	2.02
41	41	Thomas Memorial Hospital		South Charleston	WV	м	WS	2.46
47	47	Malcolm Randall Veterans Affairs Medical Center		Gainesville	FL	м	WS	2.54
16	16	Johns Hopkins Medical Institute, Department of Health,		Baltimore	MD	м	WS	2.88
		Safety, and Environment						
18 81	18 81	Franklin Square Hospital Center South Bend Medical Foundation		Baltimore South Bend	MD IN	M	WS WS	10.9 11.7
95	95	St. Joseph's Hospital		Marshfield	WI	M	DIFF	
								<u> </u>
21	21	Washington County Hospital	1	Hagerstown	MD	M	WS	1

25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	
88	88	Medina General Hospital		Medina	ОН	М	WS	
SMALL NO	ON-RURAL	HMIWI (≤200 LB/HR)						
129		Centers for Disease Control and PreventionClifton, Building 18	Unit 3	Atlanta	GA	S	WS	
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	
SMALL RU	URAL HMIV	VI (≤200 LB/HR)						
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	22.6
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	

Table 11. HCI MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate- gory	APCD code	Parameter	HCI test date	HCI ppmvd	In(HCI)
LARGE H	MIWI (>50	0 LB/HR)									
20		Fort Detrick		Fort Detrick	MD	L	WS	Run 1	8/15/00	0.551	-0.59627
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 2	8/15/00	0.314	
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 3	8/15/00	0.372	-0.98949
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 1	8/13/02	0.0130	
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 2	8/13/02	0.0220	
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 3	8/13/02	0.0251	-3.68461
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 1	8/4/03-8/5/03	0.24	
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 2	8/4/03-8/5/03	0.29	
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 3	8/4/03-8/5/03	0.30	
20	201	Fort Detrick		Fort Detrick	MD	L	WS	Run 1	8/14/06-8/15/06	0.03	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 2	8/14/06-8/15/06	0.01	-4.60517
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 3	8/14/06-8/15/06	0.11	-2.20727
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/21/00-8/24/00	0.404	-0.9069
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/21/00-8/24/00	0.373	-0.98486
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/21/00-8/24/00	0.863	-0.1476
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/14/02-8/15/02	0.0895	-2.4138
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/14/02-8/15/02	0.0358	-3.32853
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/14/02-8/15/02	0.0451	-3.09981
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/6/03	0.39	-0.94161
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/6/03	0.63	-0.46204
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/6/03	0.68	-0.38566
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/8/06	0.11	-2.20727
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/8/06	0.00	
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/8/06	0.62	-0.47804
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 1	7/30/02-7/31/02	0.290	-1.23928
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 2	7/30/02-7/31/02	0.250	-1.38674
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 3	7/30/02-7/31/02	0.221	-1.50992
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 1	7/29/03	2.8	1.029619
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 2	7/29/03	1.7	0.530628
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 3	7/29/03	0.5	-0.69315
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 1	7/27/04	0.4	-0.91629
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 2	7/27/04	0.4	-0.91629
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 3	7/27/04	0.2	-1.60944
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 1	7/12/07	0.0159	-4.14144
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 2	7/12/07	0.0159	-4.14144
106	106	Stericycle, Inc.		Kansas City	KS	L	WS	Run 3	7/12/07	0.0168	-4.08638
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 1	10/23/01	0.156	-1.85903
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 2	10/23/01	0.0790	-2.53795
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 3	10/23/01	0.156	-1.85858
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 1	3/25/03	0.156	-1.8579
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 2	3/25/03	0.477	-0.74024
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 3	3/25/03	0.422	-0.86275
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 1	3/19/04	0.216	
44 44	44 44	Bethesda Memorial Hospital Bethesda Memorial Hospital		Boynton Beach Boynton Beach	FL FL	L	WS WS	Run 2 Run 3	3/19/04 3/19/04	0.216	-1.4549
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 1	3/30/05	0.0209	

44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 2	3/30/05	1.27	0.239017
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 3	3/30/05	1.91	0.647103
44 44	44 44	Bethesda Memorial Hospital Bethesda Memorial Hospital		Boynton Beach Boynton Beach	FL FL	L	WS WS	Run 1 Run 2	3/21/06 3/21/06	1.28 1.29	0.24686
44	44	Bethesda Memorial Hospital		Boynton Beach	FL	L	WS	Run 3	3/21/06	1.24	0.215111
94	94	Stericycle, Inc.		Warren	OH	L	WS	Run 1	11/14/02-11/15/02	0.280	-1.27261
94 94	94 94	Stericycle, Inc. Stericycle, Inc.		Warren Warren	OH	L	WS WS	Run 2 Run 3	11/14/02-11/15/02 11/14/02-11/15/02	0.244	-1.41228 -1.48494
94	94	Stericycle, Inc.		Warren	OH	L	WS	Run 1	11/13/03	3.0	1.098612
94	94	Stericycle, Inc.		Warren	OH	L	WS	Run 2	11/13/03	0.6	-0.51083
94	94	Stericycle, Inc.		Warren	OH	L	WS	Run 3	11/13/03	0.4	-0.91629
94 94	94 94	Stericycle, Inc. Stericycle, Inc.		Warren Warren	OH	L	WS WS	Run 1 Run 2	11/10/04 11/10/04	0.6	-0.51083 -0.69315
94	94	Stericycle, Inc.		Warren	OH	L	WS	Run 3	11/10/04	0.0	-2.30259
		00, ≤500 LB/HR)		1.1	1.17		14/0	<b>D</b> 4			4 00500
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	10/01/02-10/03/02	0.266	-1.32522
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	10/01/02-10/03/02	0.535	-0.62577
400	400.4	Institute of Allergy and Infectious Diseases					WS	<b>D</b>	10/01/00 10/00/00		0.000044
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	vv5	Run 3	10/01/02-10/03/02	1.00	0.002944
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	9/23/03-9/25/03	0.4	-0.91629
100	100 1	Institute of Allergy and Infectious Diseases	11-0.4	L la seclita se	MT		14/0	Dura 0	0/00/00 0/05/00	0.45	0 70054
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	9/23/03-9/25/03	0.45	-0.79851
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	9/23/03-9/25/03	0.4	-0.91629
		Institute of Allergy and Infectious Diseases						-			
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	9/28/04-9/30/04	0.63	-0.46204
		montate of Anorgy and moonous Discusses									
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	9/28/04-9/30/04	1.35	0.300105
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	9/28/04-9/30/04	0.61	-0.4943
		Institute of Allergy and Infectious Diseases					-				
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	8/31/05-9/1/05	0.47	-0.75502
100	1061	Institute of Allergy and Infectious Diseases	Unit I	Hamilton	IVII	IVI	113	Kull I	8/31/05-9/1/05	0.47	-0.75502
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	8/31/05-9/1/05	1.27	0.239017
100	100 1	Institute of Allergy and Infectious Diseases	11-3-4	L La sec litera	MT		14/0	Dura 0	0/04/05 0/4/05	0.40	0 74005
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	8/31/05-9/1/05	0.49	-0.71335
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	8/15/06-8/17/06	0.02	-3.91202
400		Institute of Allergy and Infectious Diseases		11				<b>D</b>	0/15/00 0/17/00		0.04000
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	8/15/06-8/17/06	0.02	-3.91202
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	8/15/06-8/17/06	0.02	-3.91202
		Institute of Allergy and Infectious Diseases						-			
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	м	WS	Run 1	9/17/07-9/19/07	0.0180	-4.01827
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	9/17/07-9/19/07	0.0155	-4.16573
		Institute of Allergy and Infectious Diseases						-			
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	9/17/07-9/19/07	0.223	-1.49861
13	13	University of Maryland at Baltimore,		Baltimore	MD	М	WS	Run 1	9/24/03-9/25/03	0.559	-0.58105
		Environmental Health and Safety Facility									
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	м	WS	Run 2	9/24/03-9/25/03	0.738	-0.30327
13	13	University of Maryland at Baltimore,		Baltimore	MD	М	WS	Run 3	9/24/03-9/25/03	2.11	0.746784
		Environmental Health and Safety Facility									
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	м	WS	Run 1	9/14/04	0.5	-0.69315
13	13	University of Maryland at Baltimore,		Baltimore	MD	М	WS	Run 2	9/14/04	0.5	-0.69315
		Environmental Health and Safety Facility									
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	Run 3	9/14/04	0.7	-0.35667
13	13	University of Maryland at Baltimore,	1	Baltimore	MD	М	WS	Run 4	9/14/04	0.7	-0.35667
		Environmental Health and Safety Facility	ļ								
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	Run 1	9/21/05	0.316	-1.15253
13	13	University of Maryland at Baltimore,		Baltimore	MD	М	WS	Run 2	9/21/05	0.457	-0.78332
		Environmental Health and Safety Facility	ļ	D. W							
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	Run 3	9/21/05	0.390	-0.94056
25	25	Holy Spirit Hospital	1	Camp Hill	PA	м	WS	Run 1	4/23/02	0.409	-0.89449
	07			O a mar a l l'ill	<b>F</b> 4		14/2	Dur C	1/00/00	0.00-	4 00045
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	Run 2	4/23/02	0.365	-1.00816
25	25	Holy Spirit Hospital	1	Camp Hill	PA	м	WS	Run 3	4/23/02	0.554	-0.5903
			ļ	0		L		Dura 1	4/04/02		
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	Run 1	4/24/03	0.42	-0.8675
25	25	Holy Spirit Hospital	1	Camp Hill	PA	м	WS	Run 2	4/24/03	0.47	-0.75502
			ļ	0		L		Dura C	4/04/02		0
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	Run 3	4/24/03	0.46	-0.77653
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	Run 1	4/15/04	0.34	-1.07881
									1/15/0 :		
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	Run 2	4/15/04	0.37	-0.99425
25	25	Holy Spirit Hospital		Camp Hill	PA	М	WS	Run 3	4/15/04	0.31	-1.17118

25	25	Holy Spirit Hospital	Camp Hill	PA	М	WS	Run 1	5/30/07	0.86	-0.15082
25	25	Holy Spirit Hospital	Camp Hill	PA	М	WS	Run 2	5/30/07	3.52	1.258461
25	25	Holy Spirit Hospital	Camp Hill	PA	М	WS	Run 3	5/30/07	0.76	-0.27444

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	ON-RURA	L HMIWI (≤200 LB/HR)									
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	Run 1	11/5/02	1.83	0.606995
86	86	Fairfield Medical Center	1	Lancaster	ОН	S	WS	Run 2	11/5/02	0.210	-1.55957
00	00	Fairfield Medical Conter		Longostar	0.11	6	14/0	Dum 2	44/5/00	0.075	4 00000
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	Run 3	11/5/02	0.275	-1.29269
86	86	Fairfield Medical Center	1	Lancaster	ОН	S	WS	Run 1	10/28/03	2.6	0.955511
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 2	10/28/03	2.1	0.741937
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 3	10/28/03	3.1	1.131402
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 1	12/1/04	0.3	-1.20397
86		Fairfield Medical Center	-	Lancaster Lancaster	OH OH	S S	WS WS	Run 2 Run 3	12/1/04 12/1/04		-0.69315 0.262364
86	86 86	Eairfield Medical Center								1.3	
86 86	86	Fairfield Medical Center Fairfield Medical Center				S	WS	Run 1	11/29/07	0.034	-3.38139
86 86 86		Fairfield Medical Center Fairfield Medical Center Fairfield Medical Center		Lancaster Lancaster	OH OH	S S	WS WS	Run 1 Run 2	11/29/07 11/29/07	0.034	
86 86 86	86 86 86 86	Fairfield Medical Center Fairfield Medical Center Fairfield Medical Center		Lancaster	OH						-3.35241
86 86 86 SMALL R	86 86 86 86 <b>URAL HMI</b>	Fairfield Medical Center Fairfield Medical Center Fairfield Medical Center WI (<200 LB/HR)		Lancaster Lancaster Lancaster	OH OH OH	S S	WS WS	Run 2 Run 3	11/29/07 11/29/07	0.035	-3.35241 -3.41125
86 86 86 SMALL R 115	86 86 86 <b>URAL HMI</b> 115	Fairfield Medical Center Fairfield Medical Center Fairfield Medical Center W (≤200 LB/HR) Kona Community Hospital		Lancaster Lancaster Lancaster Kealakekua	OH OH OH HI	S S SR	WS WS CC	Run 2 Run 3 Run 1	11/29/07 11/29/07 1/9/02-1/10/02	0.035 0.033 241	-3.35241 -3.41125 5.484797
86 86 86 SMALL R	86 86 86 86 <b>URAL HMI</b>	Fairfield Medical Center Fairfield Medical Center Fairfield Medical Center WI (<200 LB/HR)		Lancaster Lancaster Lancaster	OH OH OH	S S	WS WS	Run 2 Run 3	11/29/07 11/29/07	0.035 0.033 241 109	-3.35241 -3.41125

Table 12. CO MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	CO test date	CO ppmvd	In(CO)
LARGE HN 20	MIWI (>500 201	LB/HR) Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 1	8/15/00	0.0550	-2.89952
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 2	8/15/00	0.116	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 3	8/15/00	1.0	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 1	8/13/02	0.793	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 2	8/13/02	1.13	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 3	8/13/02	2.54	
20		Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 1	8/4/03-8/5/03	1.0	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 2	8/4/03-8/5/03	0.29	
20		Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 3	8/4/03-8/5/03	1.0	
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 1	8/14/06-8/15/06	0.53	-0.63488
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 2	8/14/06-8/15/06	1.0	(
20	201	Fort Detrick	Unit 5	Fort Detrick	MD	L	WS	Run 3	8/14/06-8/15/06	1.0	(
1	1	Bristol-Myers Squibb Co.		Wallingford	CT	L	FF	Run 1	1/14/03-1/16/03	1.0	) C
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 2	1/14/03-1/16/03	1.0	C
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 3	1/14/03-1/16/03	1.0	C
1	1	Bristol-Myers Squibb Co.		Wallingford	CT	L	FF	Run 1	12/9/04	1.0	) C
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 2	12/9/04	1.0	) C
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 3	12/9/04	0.9	-0.10536
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	Run 1	5/7/08-5/8/08	1.0	C
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	Run 2	5/7/08-5/8/08	1.0	C
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	Run 3	5/7/08-5/8/08	1.0	C
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper	PA	L	DIFF	Run 1	8/2/01-8/3/01	1.20	0.182322
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	8/2/01-8/3/01	3.90	1.360977
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	8/2/01-8/3/01	3.30	1.193922
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 1	5/24/02	0.2	2 -1.60944
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	5/24/02	0.2	
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	5/24/02	0.2	
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 1	4/24/03-4/25/03	1.0	
36	362	Merck & Company, Inc.	Unit 5	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	4/24/03-4/25/03	0.2	
		Merck & Company, Inc.		Gwynedd Township)							
36	362	1 2	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	4/24/03-4/25/03	0.2	
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	4/23/04	1.6	
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 2	4/23/04	0.7	
36	362	Merck & Company, Inc.	Unit 5	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	4/23/04	0.1	
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/21/00-8/24/00	0.0421	-3.1672
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/21/00-8/24/00	0.0458	-3.08294
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/21/00-8/24/00	1.0	) (
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/14/02-8/15/02	4.05	5 1.398502
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/14/02-8/15/02	1.0	) (
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/14/02-8/15/02	1.31	0.269286
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/6/03	2.54	0.932164
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 2	8/6/03	1.0	) (
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 3	8/6/03	1.0	) (
20	202	Fort Detrick	Unit 6	Fort Detrick	MD	L	WS	Run 1	8/8/06	0.05	
20 20	202 202	Fort Detrick Fort Detrick	Unit 6 Unit 6	Fort Detrick Fort Detrick	MD MD	L	WS WS	Run 2 Run 3	8/8/06 8/8/06	1.0	
20	202				טועו	L	vv5	INULL 3	0/0/00	1.0	+

MEDIUM H 63	MIWI (>200 63	<b>9, ≤500 LB/HR)</b> St. Jude Children's Research Hospital		Memphis	TN	м	DIFF	Run 1	10/24/02	1.0	(
63	63	St. Jude Children's Research Hospital		-	TN	M	DIFF	Run 2	10/24/02	0.234	
				Memphis							
63	63	St. Jude Children's Research Hospital		Memphis	TN	м	DIFF	Run 3	10/24/02	0.332	
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 1	10/22/03	0.81	-0.21072
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 2	10/22/03	1.0	(
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 3	10/22/03	0.06	-2.81341
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 1	9/23/04	1.12	0.113329
63	63	St. Jude Children's Research Hospital		Memphis	TN	м	DIFF	Run 2	9/23/04	0.61	-0.4943
00	00			Memphie			0111		0/20/04	0.01	0.4040
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 3	9/23/04	0.38	-0.96758
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 1	9/19/07	1.21	0.19062
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 2	9/19/07	0.47	-0.75502
63	63	St. Jude Children's Research Hospital		Memphis	TN	М	DIFF	Run 3	9/19/07	0.92	-0.08338
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 1	9/12/01	1.18	0.165301
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 2	9/12/01	0.584	-0.5378
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 3	9/12/01	0.584	-0.5378
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 1	10/2/02-10/3/02	1.0	(
41	41	Thomas Memorial Hospital	-	South Charleston	WV	М	WS	Run 2	10/2/02-10/3/02	1.0	(
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 3	10/2/02-10/3/02	1.0	(
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 1	9/1/03	1.0	(
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 2	9/1/03	1.0	(
41	41	Thomas Memorial Hospital		South Charleston	WV	м	WS	Run 3	9/1/03	1.0	(
41	41	Thomas Memorial Hospital		South Charleston	WV	м	WS	Run 1	11/28/06	1.0	(
41	41	Thomas Memorial Hospital		South Charleston	WV	M	WS	Run 2	11/28/06	1.0	
41	41	Thomas Memorial Hospital		South Charleston	wv	M	WS	Run 3	11/28/06	1.0	
30	30	Riddle Memorial Hospital		Media	PA	м	WS	Run 1	3/13/03	0.0854	-2.46098
30	30	Riddle Memorial Hospital		Media	PA	м	WS	Run 2	3/13/03	0.986	-0.01403
30	30	Riddle Memorial Hospital		Media	PA	м	WS	Run 3	3/13/03	0.515	
30	30	Riddle Memorial Hospital		Media	PA	М	WS	Run 1	5/20/04	0.832	
30	30	Riddle Memorial Hospital		Media	PA	М	WS	Run 2	5/20/04	1.46	0.380597
30	30	Riddle Memorial Hospital		Media	PA	М	WS	Run 3	5/20/04	3.75	1.320944
30	30	Riddle Memorial Hospital		Media	PA	М	WS	Run 1	5/19/05	1.9	0.641854
30	30	Riddle Memorial Hospital		Media	PA	м	WS	Run 2	5/19/05	1.5	0.405465
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SMALL NO		HMIWI (≤200 LB/HR)									
SWALL NO	86	Fairfield Medical Center		Lancaster	ОН	S	W/S	Run 1	11/5/02-11/6/02	0.278	-1 28012
00	00			Lailastei	UП	3	**3	Null 1	11/3/02-11/0/02	0.218	-1.20013
86	86	Fairfield Medical Center		Lancaster	ОН	S	WS	Run 2	11/5/02-11/6/02	7.45	2.00876
00	00				UII	5			11/0/02-11/0/02	1.40	2.00070
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 3	11/5/02-11/6/02	0.681	-0.3849
00	00			23.1000101	011	5				5.001	0.0049
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 1	10/28/03	2.29	0.828552
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 2	10/28/03	1.05	
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 3	10/28/03	0.56	
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 1	12/1/04	1.71	
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 2	12/1/04		0.751416
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 3	12/1/04	3.06	
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 1	11/29/07	3.35	1.20896
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 2	11/29/07	2.76	
86	86	Fairfield Medical Center		Lancaster	OH	S	WS	Run 3	11/29/07	1.93	
		/I (≤200 LB/HR)									
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 1	10/23/01	7.21	1.975109
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 2	10/23/01		1.773662
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 3	10/23/01	3.12	1.137964

Table 13. Pb MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	Pb test date	Pb mg/dscm	In(Pb)
	MIWI (>500	-	number	City	abbi	Cate-gory	code	Farameter	PD lest dale	mg/uscm	IN(PD)
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 1	1/20/00-1/21/00	0.000361	-7.9274
125	125	East Carolina University, Health Sciences		Greenville	NC	L	HEPA/CA/	Run 2	1/20/00-1/21/00	0.000256	-8.2695
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/	Run 3	1/20/00-1/21/00	0.000272	-8.20865
36	361	Campus, HSC Utility Plant Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	WS DIFF	Run 1	10/24/01-10/26/01	0.00494	-5.31026
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	10/24/01-10/26/01	0.00180	-6.32121
				Gwynedd Township)							
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	10/24/01-10/26/01	0.000752	-7.19291
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	5/4/04-5/7/04	0.000311	-8.07502
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	Run 2	5/4/04-5/7/04	0.000270	-8.21699
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	5/4/04-5/7/04	0.000169	-8.68361
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 1	4/25/06-5/3/06	0.00133	-6.62465
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	4/25/06-5/3/06	0.000320	-8.04604
		Merck & Company, Inc.	Unit 2	Gwynedd Township)	PA		DIFF	Run 3	4/25/06-5/3/06	0.000435	-7.74065
36	361	1		West Point (Upper Gwynedd Township)		L					
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 1	7/24/01	0.00205	-6.18825
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 2	7/24/01	0.00273	-5.90334
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 3	7/24/01	0.00111	-6.80752
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 1	9/24/03-9/25/03	0.00521	-5.25718
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 2	9/24/03-9/25/03	0.00136	-6.60027
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 3	9/24/03-9/25/03	0.00762	-4.87698
					wv		DIFF				
40	40	Charleston Area Medical Center, General Hospital		Charleston		L		Run 1	1/10/01-1/11/01	0.00322	-5.73954
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	Run 2	1/10/01-1/11/01	0.00905	-4.70487
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	Run 3	1/10/01-1/11/01	0.00204	-6.19696
40	40	Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 1	2/7/06	0.00578	-5.15335
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 2	2/7/06	0.00495	-5.30837
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 3	2/7/06	0.00306	-5.78934
15	151	Hospital Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 1	2/27/02	0.00454	-5.39557
											-5.92603
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 2	2/27/02	0.00267	
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 3	2/27/02	0.00271	-5.91063
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 1	2/18/04-2/19/04	0.0150	-4.19675
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 2	2/18/04-2/19/04	0.00242	-6.02487
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 3	2/18/04-2/19/04	0.00206	-6.183
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 1	2/23/06-2/24/06	0.00651	-5.03442
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 2	2/23/06-2/24/06	0.00417	-5.47984
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 3	2/23/06-2/24/06	0.00520	-5.2591
15	131		Offic 1	Datamore	WID		DIT	itun 5	2/23/00-2/24/00	0.00320	-0.200
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MEDIUM H 95	<mark>MIWI (&gt;20</mark> 95	0, <b>≤500 LB/HR)</b> St. Joseph's Hospital	Marshfield	WI	м	DIFF	Run 1	7/14/00	0.00101	-6.90237
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	7/14/00	0.000848	
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	7/14/00	0.00129	
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	8/17/04	0.00396	-5.5318
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	8/17/04	0.00277	-5.8893
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	8/17/04	0.00416	-5.48109
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	8/15/06	0.00625	-5.07562
95	95	St. Jacoph's Haspital	Marshfield	WI	м	DIFF	Run 2	8/15/06	0.00277	-5.8893
90	90	St. Joseph's Hospital	Marshield	VVI	IVI	DIFF	Run 2	8/15/00	0.00277	-0.0093
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	8/15/06	0.0127	-4.36613
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/9/01-10/10/01	0.00536	-5.22917
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/9/01-10/10/01	0.00423	-5.46505
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	10/9/01-10/10/01	0.00216	-6.13842
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/10/02-9/11/02	0.0048	-5.33914
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/10/02-9/11/02	0.0038	-5.57275
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/10/02-9/11/02	0.0031	-5.77635
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/14/03-10/16/03	0.0024	-6.03229
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/14/03-10/16/03	0.0015	-6.50229
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 3	10/14/03-10/16/03	0.0021	-6.16582
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/14/04-9/15/04	0.0049	-5.31852
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 2	9/14/04-9/15/04	0.0021	-6.16582
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/14/04-9/15/04	0.0011	-6.81245
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 1	9/13/05-9/14/05	0.00395	
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	M	DIFF	Run 2	9/13/05-9/14/05	0.00173	
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	M	DIFF	Run 3	9/13/05-9/14/05	0.00334	
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 1	9/19/06-9/20/06	0.0219	
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/19/06-9/20/06	0.00381	-5.57031
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/19/06-9/20/06	0.00322	
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/2/07-10/3/07	0.0039	
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/2/07-10/3/07	0.0031	-5.77635
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	10/2/07-10/3/07	0.0028	-5.87814
63	63	St. Jude Children's Research Hospital	Memphis	TN	М	DIFF	Run 1	10/24/02	0.00912	-4.69763
63	63	St. Jude Children's Research Hospital	Memphis	TN	М	DIFF	Run 2	10/24/02	0.00392	-5.54206
63	63	St. Jude Children's Research Hospital	Memphis	TN	М	DIFF	Run 3	10/24/02	0.00151	-6.4963

		HMIWI (≤200 LB/HR)									
	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 1	12/7/06-12/8/06	0.0569	-2.86611
129	129	Clifton, Building 18 Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 2	12/7/06-12/8/06	0.0507	-2.98143
129	129	Centers for Disease Control and Prevention Clifton, Building 18	Unit 3	nudilla	GA	3	vv3		12/1/00-12/0/00	0.0507	-2.90143
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 3	12/7/06-12/8/06	0.110	-2.20346
		Clifton, Building 18									
									<u> </u>		
SMALL RU	RAL HMIW	/I (≤200 LB/HR)									
116	116 116	Yukon-Kuskokwim Delta Regional Hospital Yukon-Kuskokwim Delta Regional Hospital		Bethel Bethel	AK	SR SR	20	Run 1 Run 2	10/25/01	0.265	-1.32845 -1.67496
116 116	116 116	Yukon-Kuskokwim Delta Regional Hospital Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK AK	SR SR	CC CC	Run 2 Run 3	10/25/01 10/25/01	0.187	-1.67496
	. 10					Six				5.220	

Table 14. Cd MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	Cd test date	Cd mg/dscm	In(Cd)
LARGE HI 125	MIWI (>500 125	LB/HR) East Carolina University, Health Sciences		Greenville	NC	L	HEPA/CA/	Run 1	1/20/00-1/21/00	0.000105	-9.15996
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/		1/20/00-1/21/00	0.000102	
		Campus, HSC Utility Plant					WS	-			
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS		1/20/00-1/21/00	0.000109	
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 1	7/24/01	0.000492	
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 2	7/24/01	0.000377	-7.8822
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 3	7/24/01	0.000442	-7.7238
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 1	9/24/03-9/25/03	0.000449	-7.70849
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 2	9/24/03-9/25/03	0.000253	-8.28212
60	601	BMWNC, Inc.	Unit 1	Matthews	NC	L	DIFF	Run 3	9/24/03-9/25/03	0.00118	-6.74224
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	Run 1	10/24/01-10/26/01	0.00649	-5.0378
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	10/24/01-10/26/01	0.000458	-7.688
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	10/24/01-10/26/01	0.000270	-8.2160
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 1	5/4/04-5/7/04	0.000117	-9.0558
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	5/4/04-5/7/04	0.0000732	
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	5/4/04-5/7/04	0.000183	
				Gwynedd Township)							
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	4/25/06-5/3/06	0.0000229	
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 2	4/25/06-5/3/06	0.0000458	-9.9919
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	4/25/06-5/3/06	0.0000183	-10.908
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 1	2/27/02	0.00135	-6.6080
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 2	2/27/02	0.000657	-7.3285
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 3	2/27/02	0.000546	-7.51204
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 1	2/18/04-2/19/04	0.00148	-6.51534
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 2	2/18/04-2/19/04	0.00112	-6.78999
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 3	2/18/04-2/19/04	0.000497	-7.60672
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 1	2/23/06-2/24/06	0.000674	-7.30228
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 2	2/23/06-2/24/06	0.000820	-7.1062
15	151	Curtis Bay Energy	Unit 1	Baltimore	MD	L	DIFF	Run 3	2/23/06-2/24/06	0.000830	
120	1202	Waste Management Resource Recovery and	Unit 2	Anahuac	TX	L	DIFF	Run 1	9/20/02	0.000193	
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	тх	L	DIFF	Run 2	9/20/02	0.000203	
		Recycling Center									
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	тх	L	DIFF	Run 3	9/20/02	0.000117	-9.05212
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 1	10/15/02-10/16/02	0.00101	-6.9019
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	тх	L	DIFF	Run 2	10/15/02-10/16/02	0.00124	-6.6893
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 3	10/15/02-10/16/02	0.00130	-6.6487
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 1	1/17/03	0.0000979	-9.2318
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ΤХ	L	DIFF	Run 2	1/17/03	0.000105	-9.1632
120	1202	Waste Management Resource Recovery and	Unit 2	Anahuac	ТΧ	L	DIFF	Run 3	1/17/03	0.0000759	-9.48562
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	11/10/04	0.001	-6.9077
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	11/10/04	0.001	-6.9077
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	11/10/04	0.001	-6.9077
120	120-2	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	тх	L	DIFF	Run 1	12/4/06-12/9/06	0.002	-6.2146
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	12/4/06-12/9/06	0.002	
		Recycling Center									
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	12/4/06-12/9/06	0.002	-6.2146

38	38	<b>0, ≤500 LB/HR)</b> Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/9/01-10/10/01	0.000326	-8.02819
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/9/01-10/10/01	0.000368	-7.90828
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	10/9/01-10/10/01	0.000267	-8.2272
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/10/02-9/11/02	0.00020	-8.51719
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/10/02-9/11/02	0.00019	-8.56849
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/10/02-9/11/02	0.00026	-8.25483
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/14/03-10/16/03	0.00015	-8.80488
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/14/03-10/16/03	0.00006	-9.72117
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	10/14/03-10/16/03	0.00013	-8.94798
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/14/04-9/15/04	0.00469	-5.36232
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/14/04-9/15/04	0.00642	-5.04834
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/14/04-9/15/04	0.00792	-4.83836
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/13/05-9/14/05	0.0000951	-9.26046
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/13/05-9/14/05	0.0000559	-9.79126
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/13/05-9/14/05	0.0000557	-9.79522
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/19/06-9/20/06	0.000299	-8.11461
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/19/06-9/20/06	0.000158	-8.75552
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/19/06-9/20/06	0.000200	-8.51566
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/2/07-10/3/07	0.00018	-8.62255
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/2/07-10/3/07	0.00016	-8.74034
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	10/2/07-10/3/07	0.00014	-8.87387
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	7/14/00	0.000321	-8.0434
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	7/14/00	0.000339	-7.98879
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	7/14/00	0.000831	-7.09276
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	8/17/04	0.00139	-6.5808
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	8/17/04	0.00236	-6.05036
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	8/17/04	0.00288	-5.84881
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	8/15/06	0.000291	-8.14349
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	8/15/06	0.00284	-5.86481
95	95	St. Joseph's Hospital	Marshfield	WI	м	DIFF	Run 3	8/15/06	0.000281	-8.17549
63	63	St. Jude Children's Research Hospital	Memphis	TN	м	DIFF	Run 1	10/24/02	0.00109	-6.81917
63	63	St. Jude Children's Research Hospital	Memphis	TN	м	DIFF	Run 2	10/24/02	0.00223	-6.10533
63	63	St. Jude Children's Research Hospital	Memphis	TN	м	DIFF	Run 3	10/24/02	0.00123	-6.6981
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86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
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86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/6/02-11/7/02         0.00118         -6.7413           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/6/02-11/7/02         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.52168           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.00147         -6.645044           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0014         -6.6450229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.72543												
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No.         No.         No.         No.         No.         No.           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0113         -4.48295           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0036         -5.62682           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         10/28/03         0.0024         -6.03229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0012         -6.7229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.5743           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0014         -6.5743           86         86         Fairfield Medical Center         Lancaster         OH         S         WS	80	86	Fairlieid Medical Center		Lancaster	UH	5	VVS	Run 2	11/6/02-11/7/02	0.00147	-0.52168
No.         No.         No.         No.         No.         No.           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0113         -4.48295           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         10/28/03         0.0036         -5.62682           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         10/28/03         0.0024         -6.03229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0012         -6.7229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.5743           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0014         -6.5743           86         86         Fairfield Medical Center         Lancaster         OH         S         WS	96	99	Fairfield Medical Contor		Lancastor	Λu	c	14/0	Run 2	11/6/02-11/7/02	0.00150	-6 45044
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         10/28/03         0.0036         -5.62682           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         10/28/03         0.0036         -5.62682           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0024         -6.03229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.57243           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         12/1/04         0.0014         -6.57243           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0014         -6.57128           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.000567         -7.47515           86         86 </td <td>00</td> <td>00</td> <td></td> <td> </td> <td>Laillastei</td> <td>ОП</td> <td>3</td> <td>vv3</td> <td>ixun ə</td> <td>11/0/02-11/7/02</td> <td>0.00158</td> <td>-0.40044</td>	00	00			Laillastei	ОП	3	vv3	ixun ə	11/0/02-11/7/02	0.00158	-0.40044
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         10/28/03         0.0036         -5.62682           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         10/28/03         0.0036         -5.62682           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0024         -6.03229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0014         -6.57243           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         12/1/04         0.0014         -6.57243           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0014         -6.57128           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.000567         -7.47515           86         86 </td <td>86</td> <td>86</td> <td>Fairfield Medical Center</td> <td></td> <td>Lancaster</td> <td>ОH</td> <td>S</td> <td>W/S</td> <td>Run 1</td> <td>10/28/03</td> <td>0.0112</td> <td>-4 48205</td>	86	86	Fairfield Medical Center		Lancaster	ОH	S	W/S	Run 1	10/28/03	0.0112	-4 48205
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         10/28/03         0.0024         -6.03229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0012         -6.03229           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0012         -6.072543           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         12/1/04         0.0014         -6.57128           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0006         -7.47815           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/29/07         0.000567         -7.47515           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/29/07         0.000313         -5.76672           86												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         12/1/04         0.0012         -6.72543           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         12/1/04         0.0012         -6.72543           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0014         -6.75743           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0006         -7.47815           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/29/07         0.000567         -7.47515           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.000257         -6.0683           SMALL RURAL HUMIV (<200 LB/HR)												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         12/1/04         0.0014         -6.57128           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0014         -6.57128           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/29/07         0.000567         -7.41558           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/29/07         0.000567         -7.47515           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.00025         -6.09683           SMAL RURAL HMIWI (5200 LB/HR)         Lancaster         OH         S         WS         Run 3         11/29/07         0.00225         -6.09683           SMAL RURAL HMIWI (5200 LB/HR)         Lancaster         OH         S         WS         Run 3         11/29/07         0.00225         -6.09683           116         116         Yukon-Kuskokwim Delta Regional Hospital												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         12/1/04         0.0006         -7.41858           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/29/07         0.000567         -7.47515           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/29/07         0.00013         -5.76672           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/29/07         0.00213         -5.76672           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.0025         -6.09683           SMALL RURAL HMIWI (s200 LB/HR)         Lancaster         OH         S         WS         Run 1         10/25/01         0.0039         -3.22143           116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 1         10/25/01         0.0277         -3.58601												
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 1         11/29/07         0.000567         -7.47515           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/29/07         0.000367         -7.47515           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/29/07         0.00013         -5.76672           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.00225         -6.09683           SMALL RURAL HMIWI (s200 LB/HR)         Lancaster         OH         S         WS         Run 1         10/25/01         0.0039         -3.22143           116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 1         10/25/01         0.0277         -3.58601			Fairfield Medical Center						Run 3	12/1/04		
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 2         11/29/07         0.00313         -5.76672           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.00313         -5.76672           86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.00225         -6.09683           SMALL RURAL HMIWI (s200 LB/HR)         E			Fairfield Medical Center									
86         86         Fairfield Medical Center         Lancaster         OH         S         WS         Run 3         11/29/07         0.00225         -6.09683           SMALL RURAL HMIWI (5200 LB/HR)         Lancaster         OH         S         WS         Run 3         11/29/07         0.00225         -6.09683           116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 1         10/25/01         0.0399         -3.22143           116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 2         10/25/01         0.0277         -3.58601		86	Fairfield Medical Center				S				0.00313	-5.76672
116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 1         10/25/01         0.0399         -3.22143           116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 1         10/25/01         0.0399         -3.22143           116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 2         10/25/01         0.0277         -3.58601	86	86	Fairfield Medical Center			OH						
116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 2         10/25/01         0.0277         -3.58601												
116         116         Yukon-Kuskokwim Delta Regional Hospital         Bethel         AK         SR         CC         Run 3         10/25/01         0.0463         -3.07364				ļ								
	116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 3	10/25/01	0.0463	-3.07364

Table 15. Hg MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	Hg test date	Hg mg/dscm	lp(Ha)
LARGE HM	MIWI (>500	LB/HR)	number								In(Hg)
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 1	1/14/03-1/16/03	0.000658	-7.32664
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 2	1/14/03-1/16/03	0.000781	-7.15549
1	1	Bristol-Myers Squibb Co.		Wallingford	СТ	L	FF	Run 3	1/14/03-1/16/03	0.000646	-7.34484
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	Run 1	11/7/00	0.000366	-7.91299
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	Run 2	11/7/00	0.000610	-7.40219
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	Run 3	11/7/00	0.00129	-6.65492
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	Run 1	9/20/05-9/22/05	0.0016	-6.43775
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	Run 2	9/20/05-9/22/05	0.0016	-6.43775
54	54	Bayfront Medical Center		St. Petersburg	FL	L	WS	Run 3	9/20/05-9/22/05	0.0022	-6.1193
125	125	East Carolina University, Health Sciences		Greenville	NC	L	HEPA/CA/ WS	Run 1	1/20/00-1/21/00	0.00163	-6.41912
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	HEPA/CA/	Run 2	1/20/00-1/21/00	0.00159	-6.44495
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/	Run 3	1/20/00-1/21/00	0.00169	-6.3841
51	51	Campus, HSC Utility Plant Lakeland Regional Medical Center		Lakeland	FL	L	WS DIFF	Run 1	8/29/00	0.00204	-6.1954
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 2	8/29/00	0.00174	-6.35192
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 3	8/29/00	0.00105	-6.85607
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 1	8/8/05	0.0019	-6.2659
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 2	8/8/05	0.0029	-5.84304
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 3	8/8/05	0.005	-5.29832
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	Run 1	10/24/01-10/26/01	0.000105	-9.16344
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	10/24/01-10/26/01	0.00154	-6.4781
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	10/24/01-10/26/01	0.000290	-8.14581
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 1	5/4/04-5/7/04	0.00277	-5.8893
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	5/4/04-5/7/04	0.00336	-5.69466
		Merck & Company, Inc.		Gwynedd Township)	PA	L	DIFF	Run 3	5/4/04-5/7/04	0.000195	-8.54503
36	361		Unit 2	West Point (Upper Gwynedd Township)							
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	4/25/06-5/3/06	0.00412	-5.49214
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 2	4/25/06-5/3/06	0.0124	-4.39352
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	4/25/06-5/3/06	0.00275	-5.8976
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MEDIUM H 21	IMIWI (>200 21	0, ≤500 LB/HR) Washington County Hospital		Hagerstown	MD	м	WS	Run 1	8/13/03-8/14/03	0.000614	-7.39597
				-			-				
21	21	Washington County Hospital		Hagerstown	MD	м	WS	Run 2	8/13/03-8/14/03	0.000623	-7.38108
21	21	Washington County Hospital		Hagerstown	MD	М	WS	Run 3	8/13/03-8/14/03	0.00127	-6.66848
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 1	4/12/00	0.000882	-7.03321
34	34	Diagnostic Lab Incinerator		State Callege	PA	м	WS	Run 2	4/12/00	0.000745	-7.20254
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	IVI	VV5	Run 2	4/12/00	0.000745	-7.20254
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 3	4/12/00	0.000921	-6.99006
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 1	3/15/01-3/16/01	0.000780	-7.15643
		Diagnostic Lab Incinerator									
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 2	3/15/01-3/16/01	0.000939	-6.97094
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 3	3/15/01-3/16/01	0.00980	-4.62534
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 1	4/16/02-4/18/02	0.000277	-8.19189
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 2	4/16/02-4/18/02	0.000771	-7.1676
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 3	4/16/02-4/18/02	0.000252	-8.2872
34	34	Diagnostic Lab Incinerator			PA	м	WS	Run 1	4/22/02 4/24/02	0.00105	0 40407
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	IVI		Run I	4/23/03-4/24/03	0.00165	-6.40427
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 2	4/23/03-4/24/03	0.0000252	-10.5898
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 3	4/23/03-4/24/03	0.0000229	-10.6851
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	М	WS	Run 1	4/13/04-4/14/04	0.000101	-9.20032
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 2	4/13/04-4/14/04	0.00103	-6.87659
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 3	4/13/04-4/14/04	0.000372	-7.8975
		Diagnostic Lab Incinerator		State College							
82	82	Good Samaritan Hospital		Vincennes	IN	м	WS	Run 1	1/17/02	0.00192	-6.25538
82	82	Good Samaritan Hospital		Vincennes	IN	М	WS	Run 2	1/17/02	0.00318	-5.75131
82	82	Good Samaritan Hospital	-	Vincennes	IN	м	WS	Run 3	1/17/02	0.00242	-6.02507
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		HMIWI (≤200 LB/HR)									
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 1	12/7/06-12/8/06	0.00131	-6.63773
129	129	Clifton, Building 18 Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 2	12/7/06-12/8/06	0.00332	-5.70779
129	129	Centers for Disease Control and Prevention Clifton, Building 18	Unit 3	Audrita	GA	3	vv5	Run Z	12/1/00-12/8/06	0.00332	-5.70779
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 3	12/7/06-12/8/06	0.00414	-5.48706
		Clifton, Building 18					-				
					L	L					
										1	
SMALL D		/I (≤200 LB/HR)									
115	115	Kona Community Hospital		Kealakekua	н	SR	СС	Run 1	1/9/02-1/11/02	0.00269	-5.91711
115		Kona Community Hospital		Kealakekua	HI	SR	CC	Run 2	1/9/02-1/11/02	0.00136	-5.91711 -6.60389
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	Run 3	1/9/02-1/11/02	0.00119	-6.73197
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	Run 4	1/9/02-1/11/02	0.00106	-6.8493

## Table 16. PM MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	PM test date	PM gr/dscf	In(PM)
ARGE HN 40	<b>AIWI (&gt;500</b> 40	LB/HR) Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 1	1/10/01-1/11/01	0.00132	-6.6307
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 2	1/10/01-1/11/01	0.000975	-6.933
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 3	1/10/01-1/11/01	0.000362	-7.9232
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 1	11/21/05-11/22/05	0.000297	-8.1217
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 2	11/21/05-11/22/05	0.000303	-8.1017
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 3	11/21/05-11/22/05	0.000714	
40	40	Hospital Charleston Area Medical Center, General		Charleston	WV	L	DIFF	Run 1	11/2/06	0.000282	-8.173
40	40	Hospital Charleston Area Medical Center, General		Charleston	wv	L	DIFF	Run 2	11/2/06	0.00265	-5.933
40	40	Hospital Charleston Area Medical Center, General			wv	L	DIFF	Run 3	11/2/06	0.000578	-7.4559
	-	Hospital		Charleston							
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	Run 1	11/14/07	0.00414	-5.4870
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	Run 2	11/14/07	0.000795	
40	40	Charleston Area Medical Center, General Hospital		Charleston	WV	L	DIFF	Run 3	11/14/07	0.000308	-8.0854
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 1	8/6/02	0.000415	-7.787
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 2	8/6/02	0.000378	-7.8819
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 3	8/6/02	0.000511	-7.5798
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 1	7/17/03	0.0009	-7.0131
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 2	7/17/03	0.0004	-7.8240
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 3	7/17/03	0.0004	-7.8240
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 1	7/16/04	0.0011	-6.8124
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 2	7/16/04	0.0018	-6.3199
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 3	7/16/04	0.003	-5.8091
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 1	7/24/06	0.0019	-6.265
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 2	7/24/06	0.0022	-6.119
55	55	St. Joseph's Hospital		Tampa	FL	L	DIFF/WS	Run 3	7/24/06	0.0003	-8.1117
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	Run 1	10/24/01-10/26/01	0.00236	-6.0478
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	10/24/01-10/26/01	0.00583	-5.1447
36		Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	10/24/01-10/26/01	0.00164	-6.411
36		Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L		Run 1	5/4/04-5/7/04	0.0008	
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 2	5/4/04-5/7/04	0.0001	-9.2103
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	5/4/04-5/7/04	0.0001	-9.2103
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper		L	DIFF	Run 1	4/25/06-5/3/06	0.0001	-6.3771
		Merck & Company, Inc.		Gwynedd Township)	PA						
36	361		Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 2	4/25/06-5/3/06	0.0010	-6.9077
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	4/25/06-5/3/06	0.0005	-7.600
29	29	Hamot Medical Center		Erie	PA	L		Run 1	2/15/02	0.00389	-5.5487
29	29	Hamot Medical Center		Erie	PA	L		Run 2	2/15/02	0.00214	-6.1472
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS		2/15/02	0.00201	-6.2072
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	Run 4	2/15/02	0.00290	-5.8442
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	Run 1	2/13/03	0.00048	-7.6417
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	Run 2	2/13/03	0.00019	-8.5684
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	Run 3	2/13/03	0.00019	-8.5684
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	Run 1	2/10/04-2/12/04	0.00135	-6.607
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS	Run 2	2/10/04-2/12/04	0.00016	-8.7592
29	29	Hamot Medical Center		Erie	PA	L		Run 3	2/10/04-2/12/04	0.00048	-7.645
29 29	29 29	Hamot Medical Center Hamot Medical Center		Erie Erie	PA PA	L	DIFF/WS DIFF/WS		2/9/06 2/9/06	0.00387	
29	29	Hamot Medical Center		Erie	PA	L	DIFF/WS		2/9/06	0.00390	

1	1	Brietol Myore Squibb Co	Wallingford	СТ			Pup 1	1/1//02-1/16/03	0.00460	-5 28200
1	1	Bristol-Myers Squibb Co. Bristol-Myers Squibb Co.	Wallingford Wallingford	CT CT		FF FF	Run 1 Run 2	1/14/03-1/16/03 1/14/03-1/16/03	0.00460	-5.38209 -6.83895
1	1	Bristol-Myers Squibb Co.	Wallingford	CT	L	FF	Run 3	1/14/03-1/16/03	0.00217	
1	1	Bristol-Myers Squibb Co.	Wallingford	CT	L	FF	Run 1	12/9/04	0.00120	
1	1	Bristol-Myers Squibb Co.	Wallingford	CT	L	FF	Run 2	12/9/04	0.00125	-6.68477
1	1	Bristol-Myers Squibb Co.	Wallingford	CT	L	FF	Run 3	12/9/04	0.000533	-7.53674
				-						
				_						
	MIWI (>20	0, ≤500 LB/HR)								
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	7/12/00	0.000386	-7.85849
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	7/12/00	0.000554	-7.49795
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	7/12/00	0.000558	-7.49145
00	00		Marshinola			Diri	i tuir o	11 12/00	0.000000	7.40140
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	8/18/04	0.006	-5.116
			NA 10.11			DIFE		0/10/01		
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 2	8/18/04	0.003	-5.80914
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	8/18/04	0.004	-5.52146
			maronnoid			5	i tuir o	0,10,01	0.001	0.02110
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 1	8/15/06	0.004	-5.52146
95	95	St. Joseph's Hospital	Marshfield	WI	м	DIFF	Run 2	8/15/06	0.006	-5.116
90	90	Si. Jusephis nuspital	iviaisfillelu	VVI	IVI	DIFF	Run Z	0/13/00	0.006	-5.116
95	95	St. Joseph's Hospital	Marshfield	WI	М	DIFF	Run 3	8/15/06	0.002	-6.21461
					1					
111	444	When in a Madical Contar	Canada	WY	м	WS	Dum 1	12/4/01	0.00407	-5.50379
111	111	Wyoming Medical Center	Casper	VVY	IVI	005	Run 1	12/4/01	0.00407	-5.50379
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 2	12/4/01	0.00481	-5.33656
							-			
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 3	12/4/01	0.00407	-5.50441
444	444		0	1407		14/0	Due 4	44/40/00	0.0005	4.050.40
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 1	11/18/03	0.0095	-4.65646
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 2	11/18/03	0.0033	-5.71383
		,				_	-			
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 3	11/18/03	0.0035	-5.65499
111	111	We wanted the second se	Canada	WY	м	WS	Dum 1	11/23/04	0.0006	-7.41858
111		Wyoming Medical Center	Casper	VVY	IVI	VV5	Run 1	11/23/04	0.0006	-7.41858
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 2	11/23/04	0.0019	-6.2659
			•							
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 3	11/23/04	0.0025	-5.99146
444	444	Weinering Madiad Organiz	0	1404		14/0	Due 4	44/00/05	0.0000	5 05004
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 1	11/22/05	0.0026	-5.95224
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 2	11/22/05	0.0029	-5.84304
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 3	11/22/05	0.0041	-5.49677
111	111	Wyoming Medical Center	Caspor	WY	м	WS	Run 1	11/28/06	0.0023	-6.07485
		wyonning medical Celiler	Casper	VVT	IVI	000	INUT 1	11/20/00	0.0023	-0.07485
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 2	11/28/06	0.0039	-5.54678
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 3	11/28/06	0.0028	-5.87814
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 1	11/21/07	0.0021	-6.16582
			Jaspon		111			1.1.2.1.01	0.0021	0.10002
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 2	11/21/07	0.0023	-6.07485
L					l			11/01/07		
111	111	Wyoming Medical Center	Casper	WY	М	WS	Run 3	11/21/07	0.0032	-5.7446
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	10/9/01-10/10/01	0.00567	-5.17301
	00		ATINGS Darre	1.4					5.00007	5.17501
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/9/01-10/10/01	0.00781	-4.85297
		Willian Dama Canaval Harra tal	M(III D			DIFE	Dum 2	40/0/04 40/40/01	0.00575	E 45004
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	10/9/01-10/10/01	0.00575	-5.15801
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 1	9/10/02-9/11/02	0.0047	-5.36019
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/10/02-9/11/02	0.0157	-4.15409
		William Dama Quannal II			<b> </b>	Diff	Dun C	0/10/00 0/11/00	0.00/=	E 0004-
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	9/10/02-9/11/02	0.0047	-5.36019
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 1	10/14/03-10/16/03	0.00489	-5.32056
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	10/14/03-10/16/03	0.00427	-5.45614
			Miller - D			DIFE	Due 2	40/44/00 40/40/00	0.00404	E 44000
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 3	10/14/03-10/16/03	0.00431	-5.44682
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 1	11/10/04	0.00108	-6.83079
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38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	11/10/04	0.00111	-6.8034
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 3	11/10/04	0.00105	-6.85897
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 1	9/13/05-9/14/05	0.00372	-5.59395
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	М	DIFF	Run 2	9/13/05-9/14/05	0.00533	-5.23449
38	38	Wilkes-Barre General Hospital	Wilkes-Barre	PA	м	DIFF	Run 3	9/13/05-9/14/05	0.00536	-5.22931

38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	Run 1	9/19/06-9/20/06	0.000699	-7.2662
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	Run 2	9/19/06-9/20/06	0.00102	-6.88675
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	Run 3	9/19/06-9/20/06	0.000606	-7.40852
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	м	DIFF	Run 1	10/1/07	0.002	-6.21461
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	М	DIFF	Run 2	10/1/07	0.003	-5.80914
38	38	Wilkes-Barre General Hospital		Wilkes-Barre	PA	м	DIFF	Run 3	10/1/07	0.001	-6.90776
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SMALL NO		HMIWI (≤200 LB/HR)									
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 1	12/8/06	0.0053	-5.24005
129	129	Clifton, Building 18 Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 2	12/8/06	0.0066	-5.02069
129	129	Clifton, Building 18 Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 3	12/8/06	0.0109	-4.51899
		Clifton, Building 18								<u> </u>	
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SMALL RU		// (≤200 LB/HR)									
115	115	Kona Community Hospital		Kealakekua	HI	SR	cc	Run 1	1/9/02-1/11/02	0.00843	
				Kealakekua Kealakekua Kealakekua Kealakekua	HI HI HI	SR SR SR	CC CC CC	Run 1 Run 2 Run 3	1/9/02-1/11/02 1/9/02-1/11/02 1/9/02-1/11/02	0.00843 0.0133 0.0202	-4.3202

FACID		Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	CDD/CDF test date	CDD/CDF ng/dscm	In(CDD/CDF
120	<b>MIWI (&gt;500</b> 1202	LB/HK) Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	9/18/02-9/20/02	0.187	-1.67433522
120	1202	Waste Management Resource Recovery and	Unit 2	Anahuac	ТΧ	L	DIFF	Run 2	9/18/02-9/20/02	0.150	-1.8965447
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТΧ	L	DIFF	Run 3	9/18/02-9/20/02	0.0975	-2.32746300
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	TX	L	DIFF	Run 1	10/15/02-10/17/02	0.431	-0.84260667
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	10/15/02-10/17/02	0.275	-1.29120901
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	TX	L	DIFF	Run 3	10/15/02-10/17/02	0.206	-1.58169598
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	11/10/04	0.009	-4.71053070
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	TX	L	DIFF	Run 2	11/10/04	0.004	-5.52146091
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	11/10/04	0.005	-5.29831736
84	84	Recycling Center Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 1	2/20/01-2/21/01		-0.04738057
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 2	2/20/01-2/21/01	1.13	
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 3	2/20/01-2/21/01		-0.72060309
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 1	7/1/03	0.297	-1.21238918
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 2	7/1/03	0.0915	-2.39104418
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 3	7/1/03	0.0915	-2.39104418
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 1	12/20/06-12/21/06	0.074	-2.60369018
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 2	12/20/06-12/21/06	0.041	-3.19418321
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 3	12/20/06-12/21/06	0.043	-3.14655516
125	125	East Carolina University, Health Sciences		Greenville	NC	L	HEPA/CA/	Run 1	1/20/00-1/21/00	0.456	-0.78482442
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/	Run 2	1/20/00-1/21/00	0.247	-1.39758682
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/	Run 3	1/20/00-1/21/00	0.232	-1.46272081
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/	Run 1	2/4/02-2/5/02	0.978	-0.02183426
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville	NC	L	WS HEPA/CA/		2/4/02-2/5/02		-1.16916762
125	125	Campus, HSC Utility Plant East Carolina University, Health Sciences		Greenville		L	WS HEPA/CA/		2/4/02-2/5/02		-2.88557971
		Campus, HSC Utility Plant			NC		WS				
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 1	10/9/02-10/10/02		-0.16360667
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	10/9/02-10/10/02	0.532	-0.63044439
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	10/9/02-10/10/02	0.309	-1.1757820
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	TX	L	DIFF	Run 1	10/21/02-10/23/02	1.57	0.44975975
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	10/21/02-10/23/02	0.443	-0.81462057
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	TX	L	DIFF	Run 3	10/21/02-10/23/02	0.749	-0.28919055
120	1201	Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 1	10/27/04	0.008	-4.82831373
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	TX	L	DIFF	Run 2	10/27/04	0.009	-4.71053070
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	10/27/04	0.017	-4.07454193
130	130	Recycling Center Department of Veterans Affairs Medical Center		Miami	FL	L	WS	Run 1	5/7/08-5/8/08	0.716	-0.33407511
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	Run 2	5/7/08-5/8/08	0.682	-0.38272562
130	130	Department of Veterans Affairs Medical Center		Miami	FL	L	WS	Run 3	5/7/08-5/8/08	0.598	-0.51416452
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		), ≤500 LB/HR)									
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 1	4/12/00-4/13/00	0.0856	-2.457636568
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 2	4/12/00-4/13/00	0.0766	-2.569691166
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 3	4/12/00-4/13/00	0.0394	-3.23313516
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	М	WS	Run 1	3/15/01-3/16/01	0 150	-1.898092649
		Diagnostic Lab Incinerator		-							
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 2	3/15/01-3/16/01	0.142	-1.949872062
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 3	3/15/01-3/16/01	0.0771	-2.562184793
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	М	WS	Run 1	4/16/02-4/18/02	0.0906	-2.401094519
		Diagnostic Lab Incinerator									
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 2	4/16/02-4/18/02	0.0952	-2.35182347
		Diagnostic Lab Incinerator									
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 3	4/16/02-4/18/02	0.0918	-2.388547303
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 1	4/22/03-4/24/03	0.027	-3.595016988
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 2	4/22/03-4/24/03	0.023	-3.777338544
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	М	WS	Run 3	4/22/03-4/24/03	0.355	-1.03649852
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	М	WS	Run 1	4/13/04-4/15/04	0.0687	-2.678726256
		Diagnostic Lab Incinerator		-			_				
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 2	4/13/04-4/15/04	0.0458	-3.084191364
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 3	4/13/04-4/15/04	0.0915	-2.391044183
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 1	9/10/01-9/11/01	0.159	-1.838683039
41	41	Thomas Memorial Hospital		South Charleston	WV	м	WS	Run 2	9/10/01-9/11/01	0.230	-1.468011421
							14/0				
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 3	9/10/01-9/11/01	0.134	-2.006239737
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	10/01/02-10/03/02	0.0588	-2.832863156
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	10/01/02-10/03/02	0.105	-2.256629306
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	МТ	м	WS	Run 3	10/01/02-10/03/02	0.0892	-2.416939601
108	1081	Institute of Allergy and Infectious Diseases	Unit 1		MT	м	WS				-2.523231764
		Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases		Hamilton				Run 1	9/23/03		
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	9/23/03	0.156	-1.857899272
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	9/23/03	0.177	-1.729348209
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	9/28/04	0.626	-0.46904409
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	9/28/04	0.515	-0.663394222
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	9/28/04	0.140	-1.963259787
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	8/30/05	0.303	-1.194022473
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	8/30/05	0.55	-0.597837001
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	МТ	М	WS	Run 3	8/30/05	0.373	-0.986176859
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	8/15/06-8/17/06		-2.488914671
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	8/15/06-8/17/06	0.094	-2.364460497
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	8/15/06-8/17/06	0.187	-1.676646662
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	9/17/07, 9/19/07	0.0623	-2.775547012
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 2	9/17/07, 9/19/07		-2.478684933
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	9/17/07, 9/19/07	0.0206	-3.8805412
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SMALL NO		HMIWI (≤200 LB/HR)								
86	86	Fairfield Medical Center	Lancaster	ОН	S	WS	Run 1	11/6/02-11/7/02	3.12	1.137556501
86	86	Fairfield Medical Center	Lancaster	OH	S	WS	Run 2	11/6/02-11/7/02	4.50	1.505129441
80	00	Fairfield Medical Center	 Longostor	0.1	<u> </u>	MC	Dup 2	11/6/02 11/7/02	4.04	0.036692592
86	86		Lancaster	OH	S	WS	Run 3	11/6/02-11/7/02	1.04	0.036692592
							1	<u> </u>		
SMALL RU	IRAL HMIW	/I (≤200 LB/HR)	Kaalahal			0.0	Dura 1	1/0/00 1/11/55	×= -1	0 70005
115 115	115 115	Kona Community Hospital Kona Community Hospital	 Kealakekua Kealakekua	Η Η	SR SR	00 00	Run 1 Run 2	1/9/02-1/11/02 1/9/02-1/11/02	15.8	2.760857592 2.203085949
115	115	Kona Community Hospital	Kealakekua	H	SR	CC	Run 2 Run 3	1/9/02-1/11/02	9.05	4.156901807
									00.0	

## Table 18. CDD/CDF TEQ MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	number	City	abbr	Cate-gory	code	Parameter	TEQ test date	ng/dscm	In(TEQ)
ARGE HI 120	MIWI (>500 1202	LB/HR) Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	9/18/02-9/20/02	0.00517	-5.2650
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	9/18/02-9/20/02	0.00892	-4.7194
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	TX	L	DIFF	Run 3	9/18/02-9/20/02	0.00329	-5.7171
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	10/15/02-10/17/02	0.00725	-4.9266
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	10/15/02-10/17/02	0.00612	-5.0959
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	10/15/02-10/17/02	0.00817	-4.8072
120	120-2	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	тх	L	DIFF	Run 1	11/10/04	0.001	-6.9077
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	11/10/04	0.001	-6.9077
	1202	Recycling Center					DIFF		11/10/04		
120		Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	TX	L		Run 3		0.001	-6.9077
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	TX	L	DIFF	Run 1	12/4/06-12/9/06	0.00121	-6.7171
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	12/4/06-12/9/06	0.00114	-6.7767
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 3	12/4/06-12/9/06	0.00104	-6.8685
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 1	1/20/00-1/21/00	0.00408	-5.5006
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 2	1/20/00-1/21/00	0.00450	-5.4029
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 3	1/20/00-1/21/00	0.00267	-5.9269
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 1	2/4/02-2/5/02	0.0132	-4.3241
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 2	2/4/02-2/5/02	0.00539	-5.2231
125	125	East Carolina University, Health Sciences		Greenville	NC	L	HEPA/CA/	Run 3	2/4/02-2/5/02	0.00201	-6.2109
120	1201	Campus, HSC Utility Plant Waste Management Resource Recovery and	Unit 1	Anahuac	ТΧ	L	WS DIFF	Run 1	10/9/02-10/10/02	0.0116	-4.4539
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	TX	L	DIFF	Run 2	10/9/02-10/10/02	0.0105	-4.5581
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТΧ	L	DIFF	Run 3	10/9/02-10/10/02	0.00991	-4.6137
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	TX	L	DIFF	Run 1	10/21/02-10/23/02	0.0201	-3.9069
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	10/21/02-10/23/02	0.0100	-4.6029
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	10/21/02-10/23/02	0.0115	-4.4692
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 1	10/27/04	0.003	-5.8091
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	10/27/04	0.001	-6.9077
120		Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	10/27/04	0.002	-6.2146
120		Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	11/28/06-12/2/06	0.00767	-4.8704
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	11/28/06-12/2/06	0.00112	-6.7944
120	1201	Recycling Center			ТХ		DIFF	Run 4			-4.7807
		Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac		L			11/28/06-12/2/06	0.00839	
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	Run 1	6/24/02-6/25/02	0.00585	-5.1416
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	Run 2	6/24/02-6/25/02	0.0131	-4.337
65	651	Stericycle, Inc.	Unit 1	Clinton	IL	L	WS	Run 3	6/24/02-6/25/02	0.0125	-4.3839
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 1	2/20/01-2/21/01	0.0192	-3.9527
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 2	2/20/01-2/21/01	0.0336	-3.3919
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 3	2/20/01-2/21/01	0.0148	-4.2157
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 1	7/1/03	0.0183	-4.0004
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 2	7/1/03	0.00458	-5.3867
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 3	7/1/03	0.00458	-5.3867
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 1	12/20/06-12/21/06	0.006	-5.11
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 2	12/20/06-12/21/06	0.002	-6.2146
84	84	Mayo Clinic, Waste Management Facility		Rochester	MN	L	DIFF	Run 3	12/20/06-12/21/06	0.002	-6.2146
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MEDIUM H 34	MIWI (>20 34	<mark>0, ≤500 LB/HR)</mark> Pennsylvania State University, Animal		State College	PA	м	WS	Run 1	4/12/00-4/13/00	0.00184	-6.29847
	-	Diagnostic Lab Incinerator									
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 2	4/12/00-4/13/00	0.00154	-6.47719
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 3	4/12/00-4/13/00	0.000982	-6.92595
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 1	3/15/01-3/16/01	0.00277	-5.89012
		Diagnostic Lab Incinerator			54		14/0		0/45/04 0/40/04	0.00000	0.00.170
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 2	3/15/01-3/16/01	0.00232	-6.06478
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	М	WS	Run 3	3/15/01-3/16/01	0.00176	-6.34245
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 1	4/16/02-4/18/02	0.00421	-5.47016
		Diagnostic Lab Incinerator		-							
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 2	4/16/02-4/18/02	0.00391	-5.54343
		Diagnostic Lab Incinerator									
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 3	4/16/02-4/18/02	0.00650	-5.03612
		Diagnostic Lab Incinerator									
34	34	Pennsylvania State University, Animal		State College	PA	м	WS	Run 1	4/22/03-4/24/03	0.00103	-6.87843
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 2	4/22/03-4/24/03	0.00098	-6.92389
		Diagnostic Lab Incinerator					-				
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 3	4/22/03-4/24/03	0.00888	-4.72409
34	34	Pennsylvania State University, Animal		State College	PA	М	WS	Run 1	4/13/04-4/15/04	0.00215	-6.1418
34	34	Diagnostic Lab Incinerator Pennsylvania State University, Animal		State College	PA	м	WS	Run 2	4/13/04-4/15/04	0.00225	-6.09504
-	-	Diagnostic Lab Incinerator					_				
34	34	Pennsylvania State University, Animal Diagnostic Lab Incinerator		State College	PA	м	WS	Run 3	4/13/04-4/15/04	0.00247	-6.00389
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	10/01/02-10/03/02	0.00181	-6.31718
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	10/01/02-10/03/02	0.00201	-6.2111
100	100.4	Institute of Allergy and Infectious Diseases	11-21-4	L La va Ura v	МТ	м	14/0	Dur 0	10/01/00 10/00/00	0.00400	0.00400
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	IVI	WS	Run 3	10/01/02-10/03/02	0.00198	-6.22466
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	9/23/03	0.0012	-6.72543
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	9/23/03	0.0028	-5.87814
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	9/23/03	0.0031	-5.77635
		Institute of Allergy and Infectious Diseases						Rull 3			
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	9/28/04	0.0058	-5.1499
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	9/28/04	0.004	-5.52146
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	9/28/04	0.0009	-7.01312
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	м	WS	Run 1	8/30/05	0.0012	-6.72543
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	8/30/05	0.0078	-4.85363
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	МТ	м	WS	Run 3	8/30/05	0.0071	-4.94766
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	8/15/06-8/17/06	0.0026	-5.95224
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	8/15/06-8/17/06	0.0027	-5.9145
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 3	8/15/06-8/17/06	0.0059	-5.1328
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 1	9/17/07, 9/19/07	0.00213	-6.15385
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	м	WS	Run 2	9/17/07, 9/19/07	0.000882	-7.03366
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 3	9/17/07, 9/19/07	0.0000700	-9.56752
41	41	Institute of Allergy and Infectious Diseases Thomas Memorial Hospital		South Charleston	WV	м	WS	Run 1	9/10/01-9/11/01	0.00523	-5.25381
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 2	9/10/01-9/11/01	0.00463	-5.37617
41	41	Thomas Memorial Hospital		South Charleston	WV	М	WS	Run 3	9/10/01-9/11/01	0.00287	-5.85336
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SMALL NO		HMIWI (≤200 LB/HR)									
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	Ş	WS	Run 1	1/11/07-1/12/07	0.0049	-5,31852
		Clifton, Building 18									
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 2	1/11/07-1/12/07	0.0033	-5.71383
		Clifton, Building 18									
129	129	Centers for Disease Control and Prevention	Unit 3	Atlanta	GA	S	WS	Run 3	1/11/07-1/12/07	0.0054	-5.22136
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SMALL RU		'I (≤200 LB/HR)									
	RAL HMIW							1			
115	115	Kona Community Hospital		Kealakekua	HI	SR	CC	Run 1	1/9/02-1/11/02	0.273	-1.29731
115 115	115 115	Kona Community Hospital Kona Community Hospital		Kealakekua	HI	SR	CC	Run 2	1/9/02-1/11/02	0.273	-1.29731 -1.48389
115	115 115	Kona Community Hospital			H H H	SR SR SR	CC CC CC		1/9/02-1/11/02 1/9/02-1/11/02 1/9/02-1/11/02	0.273 0.227 1.35	-1.29731 -1.48389 0.303153

Table 19. NO<sub>X</sub> MACT Floor Test Runs for Option 1A - Current Subcategories / Pollutant-by-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	NO <sub>x</sub> test date	NO <sub>x</sub> ppmvd	In(NO <sub>x</sub> )
	MIWI (>500	LB/HR)		-				Dura 4			
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS		1/20/00-1/21/00	54.7	4.002327
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 2	1/20/00-1/21/00	70.0	4.247934
125	125	East Carolina University, Health Sciences Campus, HSC Utility Plant		Greenville	NC	L	HEPA/CA/ WS	Run 3	1/20/00-1/21/00	76.1	4.332252
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 1	10/16/02-10/17/02	80.7	4.390783
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 2	10/16/02-10/17/02	80.7	4.390783
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 3	10/16/02-10/17/02	80.7	4.390783
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 1	11/10/05	63.2	4.146304
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 2	11/10/05	48.1	3.873282
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 3	11/10/05	53.8	
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 1	10/8/02-10/9/02	58.1	4.06143
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	тх	L	DIFF	Run 2	10/8/02-10/9/02	47.0	3.849233
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	TX	L	DIFF	Run 3	10/8/02-10/9/02	63.2	4.146122
120	1201	Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 1	10/21/02	42.7	3.753151
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	10/21/02	62.1	4.129352
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	TX	L	DIFF	Run 3	10/21/02	67.8	4.215969
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	тх	L	DIFF	Run 2	10/27/04	78.0	4.356709
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	10/27/04	98.1	4.585987
		Recycling Center									
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 4	10/27/04	145	
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТΧ	L	DIFF	Run 1	12/12/05-12/15/05	54.2	3.992687
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 2	12/12/05-12/15/05	60.1	4.09601
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТХ	L	DIFF	Run 3	12/12/05-12/15/05	56.6	4.036009
120	1201	Waste Management Resource Recovery and	Unit 1	Anahuac	тх	L	DIFF	Run 2	11/28/06-12/2/06	74.6	4.312275
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	тх	L	DIFF	Run 4	11/28/06-12/2/06	100	4.607068
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	тх	L	DIFF	Run 5	11/28/06-12/2/06	91.4	4.514917
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF	Run 1	11/28/07-11/30/07	72.97	4.290048
120	1201	Recycling Center Waste Management Resource Recovery and	Unit 1	Anahuac	ТХ	L	DIFF		11/28/07-11/30/07	77.47	4.349891
		Recycling Center						Run 3			
120	1201	Waste Management Resource Recovery and Recycling Center	Unit 1	Anahuac	ТΧ	L	DIFF	Run 4	11/28/07-11/30/07	53.16	
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 1	8/29/00	59.8	4.091387
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 2	8/29/00	59.8	4.091387
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 3	8/29/00	62.9	4.141243
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 1	8/8/05	109	4.687671
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 2	8/8/05	93.9	4.54223
51	51	Lakeland Regional Medical Center		Lakeland	FL	L	DIFF	Run 3	8/8/05	77.8	4.354141
98	981	University of Texas Medical Branch		Galveston	ТХ	L	WS	Run 1	3/11/03-3/12/03	73.8	
98	981	University of Texas Medical Branch		Galveston	тх	L	WS	Run 2	3/11/03-3/12/03	78.2	
98	981	University of Texas Medical Branch		Galveston	ТХ	L	WS	Run 3	3/11/03-3/12/03	84.8	4.440796
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81 81	81 81	0, ≤ <b>500 LB/HR)</b> South Bend Medical Foundation	South Bend	IN	М	WS	Run 1	2/21/01	21.2	3.056222
						WS				
81	81	South Bend Medical Foundation	South Bend	IN	М	VV5	Run 2	2/21/01	16.8	2.823556
81	81	South Bend Medical Foundation	South Bend	IN	М	WS	Run 3	2/21/01	6.85	1.923704
18	18	Franklin Square Hospital Center	Baltimore	MD	М	WS	Run 1	1/22/02-1/23/02	98.8	4.59342
18	18	Franklin Square Hospital Center	Baltimore	MD	М	WS	Run 2	1/22/02-1/23/02	35.0	3.555263
18	18	Franklin Square Hospital Center	Baltimore	MD	М	WS	Run 3	1/22/02-1/23/02	120	4.789959
16	16	Johns Hopkins Medical Institute, Department of	Baltimore	MD	М	WS	Run 1	11/27/01-11/28/01	94.3	4.546967
		Health, Safety, and Environment								
16	16	Johns Hopkins Medical Institute, Department of Health, Safety, and Environment	Baltimore	MD	М	WS	Run 2	11/27/01-11/28/01	84.6	4.438138
16	16	Johns Hopkins Medical Institute, Department of	Baltimore	MD	М	WS	Run 3	11/27/01-11/28/01	84.9	4.441211
		Health, Safety, and Environment								
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SMALL NO	N-RURAL	HMIWI (≤200 LB/HR)								
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SMALL RU	RAL HMIW	'I (≤200 LB/HR)								
116	116	I (<200 LB/HR) Yukon-Kuskokwim Delta Regional Hospital Yukon-Kuskokwim Delta Regional Hospital	Bethel	AK	SR SR	CC CC	Run 1 Run 2	10/23/01 10/23/01	90.6	4.506536
116	116	Yukon-Kuskokwim Delta Regional Hospital	Bethel	AK	SR	CC	Run 2	10/23/01	94.3	4.506536 4.546251 4.607952
116	116	Yukon-Kuskokwim Delta Regional Hospital	 Bethel	AK	SR	CC	Run 3	10/23/01	100	4.607952
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Table 20. SO <sub>2</sub> MACT Floor	Test Runs for Option 1A - Cur	rrent Subcategories / Pollutant-b	v-Pollutant Ranking

FACID	UNITID	Facility name	Unit number	City	State abbr	Cate-gory	APCD code	Parameter	SO <sub>2</sub> test date	SO <sub>2</sub> ppmvd	In(SO <sub>2</sub> )
ARGE HI 120	<b>MIWI (&gt;500</b> 1202	LB/HR) Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	9/20/02	0.896	-0.1102
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	9/20/02	0.886	-0.120
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	9/20/02	0.933	-0.0694
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	10/15/02-10/16/02	0.952	-0.0491
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	тх	L	DIFF	Run 2	10/15/02-10/16/02	0.943	-0.0586
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	10/15/02-10/16/02	1.02	
	1202	Recycling Center					DIFF				
120		Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L		Run 1	11/10/04	0.2	
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	TX	L	DIFF	Run 2	11/10/04	0.2	
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 3	11/10/04	0.2	
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 1	12/5/05-12/8/05	0.2	-1.6094
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	12/5/05-12/8/05	0.2	-1.6094
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 3	12/5/05-12/8/05	0.2	-1.6094
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	12/4/06-12/9/06	0.02	-3.9120
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 3	12/4/06-12/9/06	1.26	0.23111
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТХ	L	DIFF	Run 4	12/4/06-12/9/06	0.02	-3.9120
120	1202	Waste Management Resource Recovery and Recycling Center	Unit 2	Anahuac	ТΧ	L	DIFF	Run 1	12/3/07-12/5/07	0.06	-2.8134
120	1202	Waste Management Resource Recovery and	Unit 2	Anahuac	ТХ	L	DIFF	Run 2	12/3/07-12/5/07	0.06	-2.8134
120	1202	Recycling Center Waste Management Resource Recovery and	Unit 2	Anahuac	ΤХ	L	DIFF	Run 3	12/3/07-12/5/07	0.06	-2.8134
71	71	Recycling Center Loyola University Medical Center		Maywood	IL	L	WS	Run 1	11/13/01-11/15/01	1.0	
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 2	11/13/01-11/15/01	0.209	-1.5668
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 3	11/13/01-11/15/01	0.784	-0.2428
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 1	11/13/01-11/15/01	1.0	
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 2	11/13/01-11/15/01	1.01	0.01303
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 3	11/13/01-11/15/01	1.35	0.30082
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 1	11/2/04-11/3/04	0.46	-0.7765
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 2	11/2/04-11/3/04	0.78	-0.2484
71	71	Loyola University Medical Center		Maywood	IL	L	WS	Run 3	11/2/04-11/3/04	0.77	-0.2613
98	981	University of Texas Medical Branch		Galveston	TX	L	ws	Run 1	3/11/03-3/12/03	1.00	0.2010
	981						WS			1.00	
98		University of Texas Medical Branch		Galveston	TX	L		Run 2	3/11/03-3/12/03		
98	981	University of Texas Medical Branch		Galveston	TX	L	WS	Run 3	3/11/03-3/12/03	0.787	-0.2397
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	10/24/01	1.0	
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 2	10/24/01	0.143	-1.9428
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	10/24/01	1.0	
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	5/4/04-5/7/04	3.0	1.0986
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 2	5/4/04-5/7/04	1.0	
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 3	5/4/04-5/7/04	1.0	
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper Gwynedd Township)	PA	L	DIFF	Run 1	4/25/06-5/3/06	1.0	
36	361	Merck & Company, Inc.	Unit 2	West Point (Upper	PA	L	DIFF	Run 2	4/25/06-5/3/06	1.0	
36	361	Merck & Company, Inc.	Unit 2	Gwynedd Township) West Point (Upper	PA	L	DIFF	Run 3	4/25/06-5/3/06	1.0	
46	46	Holy Cross Hospital		Gwynedd Township) Fort Lauderdale	FL	L	WS	Run 1	10/16/02	1.48	0.39281
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 2	10/16/02	0.911	-0.0926
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 3	10/16/02	0.304	-1.191
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 1	11/10/05		0.95165
46	46	Holy Cross Hospital		Fort Lauderdale	FL	L	WS	Run 2	11/10/05	0.39	-0.9416
46	46	Holy Cross Hospital		Fort Lauderdale	FL		WS	Run 3	11/10/05	1.31	0.2700

IEDIUM H 30	1MIWI (>20 30	<mark>0, ≤500 LB/HR)</mark> Riddle Memorial Hospital		Media	PA	м	WS	Run 1	3/11/03, 3/13/03-	0.264	-1.3332
									3/14/03		
30	30	Riddle Memorial Hospital		Media	PA	м	WS	Run 2	3/11/03, 3/13/03- 3/14/03	0.499	-0.69
30	30	Riddle Memorial Hospital		Media	PA	М	WS	Run 3	3/11/03, 3/13/03-	0.246	-1.402
13	13	University of Maryland at Baltimore,		Baltimore	MD	м	WS	Run 1	3/14/03 9/24/03-9/25/03	1.0	
13	13	Environmental Health and Safety Facility University of Maryland at Baltimore,	-	Baltimore	MD	м	WS	Run 2	9/24/03-9/25/03	0.101	-2.295
-	-	Environmental Health and Safety Facility									
13	13	University of Maryland at Baltimore, Environmental Health and Safety Facility		Baltimore	MD	М	WS	Run 3	9/24/03-9/25/03	0.305	
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	10/01/02	0.366	-1.00
		Institute of Anergy and Illectious Disedses									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	10/01/02	1.0	
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	10/01/02	0.136	-1.993
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 4	10/01/02	0.545	-0.606
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 5	10/01/02	0.724	-0.323
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	МТ	м	WS	Run 6	10/01/02	1.0	
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 7	10/01/02	0.158	-1.845
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 8	10/01/02	0.625	
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 9	10/01/02	0.474	-0.746
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	9/24/03	1.0	
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 2	9/24/03	1.0	<u> </u>
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 3	9/24/03	1.0	
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	МТ	м	WS	Run 4	9/24/03	1.0	
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	МТ	м	WS	Run 5	9/24/03	1.0	
108	1081	Institute of Allergy and Infectious Diseases	Unit I	Hamilton	IVII	IVI	005	Run S	9/24/03	1.0	
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	м	WS	Run 6	9/24/03	1.0	
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 7	9/24/03	1.0	
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 1	9/28/04	1.0	
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	9/28/04	1.0	
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	9/28/04	1.0	
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 4	9/28/04	0.2	-1.609
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 5	9/28/04	1.0	
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	M	WS	Run 6	9/28/04	1.0	
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 7	9/28/04	1.0	
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 8	9/28/04	0.8	-0.223
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 9	9/28/04	4.1	1.4109
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 10	9/28/04	1.0	<u> </u>
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 11	9/28/04	1.0	
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 12	9/28/04	1.0	
		Institute of Allergy and Infectious Diseases									
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 14	9/28/04	1.0	
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 15	9/28/04	2.5	0.9162
	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 1	8/30/05	1.0	t

108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	8/30/05	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	8/30/05	0.4	-0.91629
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 4	8/30/05	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 5	8/30/05	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 6	8/30/05	1.0	0

108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 7	8/30/05		0.470004
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 8	8/30/05	0.5	-0.69315
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 9	8/30/05	0.2	-1.60944
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 10	8/30/05	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 11	8/30/05	0.4	-0.91629
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 12	8/30/05	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 1	8/15/06-8/17/06	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 2	8/15/06-8/17/06	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 3	8/15/06-8/17/06	0.1	-2.30259
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 4	8/15/06-8/17/06	1.0	0
108	1081	Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases	Unit 1	Hamilton	MT	М	WS	Run 5	8/15/06-8/17/06	1.0	0
108	1081	Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 6	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 7	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 8	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 9	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 10	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 11	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 12	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 13	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 14	8/15/06-8/17/06	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 1	9/17/07-9/19/07	0.104	-2.26595
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 2	9/17/07-9/19/07	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 3	9/17/07-9/19/07	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 4	9/17/07-9/19/07	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 5	9/17/07-9/19/07	1.0	0
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 6	9/17/07-9/19/07	0.431	-0.84163
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	М	WS	Run 7	9/17/07-9/19/07	0.386	-0.95163
108	1081	Institute of Allergy and Infectious Diseases Rocky Mountain Laboratories, National	Unit 1	Hamilton	MT	м	WS	Run 8	9/17/07-9/19/07	3.09	1.127811
		Institute of Allergy and Infectious Diseases									
SMALL NC	JN-RURAL	HMIWI (≤200 LB/HR)									
			<u> </u>			<u> </u>		<u> </u>			
					1			1	1	1	
116	JRAL HMIV 116	VI (≤200 LB/HR) Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 1	10/23/01	15.0	2.759228
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 1 Run 2	10/23/01		3.140538
116	116	Yukon-Kuskokwim Delta Regional Hospital		Bethel	AK	SR	CC	Run 3	10/23/01		3.360127