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Subject: National Emission Standards for Hazardous Air Pollutants (NESHAP) Maximum Achievable Control Technology (MACT) Floor Analysis for Coal- and Oil-fired Electric Utility Steam Generating Units – REVISED

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Introduction

Section 112 of the Clean Air Act (CAA) requires that the U.S. Environmental Protection Agency (EPA) establish National Emission Standards for Hazardous Air Pollutants **(**NESHAP) for the control of the hazardous air pollutants (HAP) emitted from both new and existing sources in a source category. These standards must reflect the maximum degree of reduction in the HAP emissions that is achievable. The minimum level of control is referred to as the "Maximum Achievable Control Technology (MACT) floor." The method for determining the MACT floor is the minimum control level allowed for establishing standards for a NESHAP, and is defined for both new and existing sources by CAA section 112(d)(3). For new sources, the MACT floor cannot be less stringent than the emission control that is achieved in practice by the best-controlled similar source. For existing sources, the MACT floor cannot be less stringent than the average emission limitation achieved by the best-performing 12 percent of existing sources for source categories with 30 or more sources, or the best-performing 5 sources for source categories with fewer than 30 sources.

The purpose of this memorandum is to present the data, the methodology, and the results of the MACT floor analysis for the NESHAP source category "Coal- and Oil-fired Electric Utility Steam Generating Units" (referred to in this memorandum as "EGUs"). This MACT floor analysis uses data collected in a nationwide survey of EGU owners and operators conducted by EPA in 2010 under the *Information Collection Request For National Emission Standards For Hazardous Air Pollutants (NESHAP) for Coal- And Oil-Fired Electric Utility Steam Generating Units* (OMB Control No. 2060-0631). Individual EGU operating and air emissions data reported by respondents to the Information Collection Request (ICR) were compiled into a Microsoft Access software data base that serves as the data set used for this MACT floor analysis (referred to in this memorandum as the "ICR data set"). This memorandum reflects changes necessary to correct an error brought to our attention that involved an incorrect format conversion.

MACT Floor Analysis Hazardous Air Pollutants

The specific chemicals, compounds, or groups of compounds designated to be HAP are listed in CAA section 112(b). Included on the list are metals, organic compounds, and inorganic chemicals. From this HAP list, the following HAP, among others, were identified to be emitted from EGUs and were included in the MACT floor analysis: the metals antimony (Sb), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), manganese (Mn),

mercury (Hg), nickel (Ni), and selenium (Se); and the acid gases hydrogen chloride (HCl) and hydrogen fluoride (HF). In addition, MACT floor levels were analyzed using total particulate matter (PM) emissions as a surrogate pollutant for HAP metals other than Hg (non-Hg metallic HAP can be controlled with certain PM control devices), and using sulfur dioxide (SO_2) emissions as a surrogate pollutant for HAP acid gases (HAP acid gases are also controlled by flue gas desulfurization systems used to control SO_2).

MACT Floor Analysis Subcategories

Under CAA section 112(d)(1), EPA has the discretion to "...distinguish among classes, types, and sizes of sources within a category or subcategory in establishing..." standards. When separate subcategories are established, a MACT floor is determined separately for each subcategory. To determine whether the Coal- and Oil-fired Electric Utility Steam Generating Units source category warrants subcategorization for the MACT floor analysis, EPA reviewed EGU design, operating information, and air emissions data compiled in the ICR data set and other information collected by the Agency for development of the NESHAP for this source category. Based on this review, EPA concluded that there are significant design and operational differences in EGU designs affecting the levels of emissions of certain HAP to justify grouping EGUs by unit design within subcategories for the purpose of establishing MACT floors.

The data available to EPA show that the levels of HAP emissions for EGUs burning solid coal are the same for all of the HAP constituents except Hg. To account for the differences in Hg emissions from these units, EPA identified two subcategories for EGUs burning solid coal based on unit design. The HAP emissions from integrated gasification combined cycle (IGCC) EGUs are distinct from EGUs burning solid coal because IGCC units burn a synthetic gas derived from coal. Consequently, a separate subcategory is defined for IGCC units. The data show differences in all HAP emissions from oil-fired EGUs compared to coal-fired EGUs. Furthermore, there are distinct differences in the HAP emissions levels from oil-fired EGUs depending on whether fuel oil is burned or a petroleum-derived solid fuel is burned. Therefore, two separate subcategories are defined for oil-fired EGUs based on the physical state of the oil burned. For the MACT floor analysis, the following five EGU subcategories were defined:

> *Subcategory 1***.** New and existing EGUs designed to burn a coal having a calorific value (determined on a moisture and mineral matter-free basis) of greater than or equal to 8,300 British thermal units per pound (Btu/lb) in a unit with a furnace height-to-depth ratio of less than 3.82.[1]
>
> *Subcategory 2*. New and existing EGUs designed to burn a virgin nonagglomerating coal having a calorific value (determined on moisture and mineral matter-free basis) of less than 8,300 Btu/lb in a unit with a furnace height-to-depth ratio of 3.82 or greater.

[1] Subcategory 1 and Subcategory 2 were subcategorized for mercury emissions only. The remaining standards proposed in this action are the same for the two subcategories.

Subcategory 3. New and existing IGCC EGUs.

Subcategory 4. New and existing EGUs that burn liquid oil.

*Subcategory 5***.** New and existing EGUs that burn solid oil-derived fuel.

MACT Floor Analysis Methodology

The first step in the MACT floor analysis for each subcategory and HAP or surrogate pollutant type was to rank all of the EGUs in the subcategory (for which there were emissions data in the ICR data set) for the pollutant type by emission level (lowest to highest). From this ranking, a MACT floor pool of sources was identified for determining the minimum control level allowed for the MACT floor, consistent with the criteria defined for new and existing sources by CAA section 112(d)(3). For the new-source MACT floors, the best-controlled source was identified for which there were individual source test run data in the ICR data set. For the existing-source MACT floors, selection of the MACT floor pool size (i.e., number of EGUs to be included in the determination of the average emission limitation value) was determined on an individual subcategory basis as described below.

*Subcategory 1***.** The existing-source MACT floors for PM, HCl, SO_2, total non-Hg HAP metals, and individual non-Hg HAP metals emissions were based on the top 12 percent of the total number of EGUs in the nationwide subcategory EGU population (12 percent of 1,091 sources = 131 EGUs). For the existing-source MACT floor determination for Hg, this subcategory only includes 1,061 sources because the other 30 sources are included in Subcategory 2. The existing-source MACT floor for Hg emissions was based on the top 12 percent of the total number of the subcategory EGUs with Hg emissions in the ICR data set (12 percent of 330 sources = 40 EGUs). In the ICR, EPA indicated that it was requiring the best performing units selected for non-Hg metal HAP testing to also test for Hg because the test methods are similar for Hg and non-Hg HAP.

Subcategory 2. This subcategory includes fewer than 30 sources. The EPA only made a subcategory distinction for Hg emissions from EGUs burning solid coal. The existing-source MACT floors for PM, HCl, SO_2, total non-Hg HAP metals, and individual non-Hg HAP metals emissions were based on the same MACT floor data pool used for *Subcategory 1*. The existing-source MACT floor for Hg emissions was based on the top two EGUs of the subcategory EGUs in the ICR data set.

Subcategory 3. This subcategory includes two sources (a third source currently is under construction). The existing-source MACT floors for all HAP and surrogate pollutant emissions were based on the data for both IGCC EGUs in the subcategory.

Subcategory 4. This subcategory includes 154 sources and the ICR data set includes data from 58 of those sources. The existing-source MACT floors for all HAP and HAP surrogates emissions were based on the top 12 percent of the total number of the subcategory EGUs in the ICR data set (12 percent of 58 sources = 7 EGUs).

Subcategory 5. This subcategory includes 10 sources and the ICR data set

includes data from 7 of those sources. The existing-source MACT floors for all HAP and HAP surrogates were based on the top five EGUs of the subcategory EGUs in the ICR data set.

The next step in the MACT floor analysis was to incorporate data variability into the calculations of the applicable MACT floor limits for the subcategories using the data's 99 percent upper prediction limit (UPL). Specifically, the MACT floor limit is an UPL calculated with the Student's t-test using the "TINV" function in Microsoft Excel software. The Student's t-test has also been used in other EPA rulemakings (e.g., NESHAP for Portland Cement, NSPS for Hospital/Medical/Infectious Waste Incinerators, NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters) in accounting for variability and reflects the level of confidence. The level of confidence represents the level of protection afforded to facilities whose emissions are in line with the best performers, and consequently, the level of confidence is not arbitrary. For example, a 99 percent level of confidence means that a facility whose emissions are in line with the best performers has one chance in 100 of exceeding the floor limit. A prediction interval for a single future observation (or an average of several test observations) is an interval that will, with a specified degree of confidence, contain the next (or the average of some other pre-specified number) of randomly selected observation(s) from a population. In other words, the UPL estimates what the upper bound of future values will be, based upon present or past background samples taken. The UPL consequently represents the value at which we can expect the mean of future observations for the HAP or HAP surrogate emissions to fall within a specified level of confidence, based upon the results of an independent sample from the same population. This formula encompasses all the data point to data point variability. Its predictions derive from the data set to which it is applied, and thus can be applied to any type of data.

The form of the equation differs somewhat depending upon the nature of the data set to which it is applied. To this end, the data sets were evaluated for each HAP and HAP surrogate to ascertain whether the data were normally distributed, or distributed in some other manner (i.e., log normally). For data sets where the number of available EGUs was 15 or more, use of the UPL was based on assuming a normal distribution based on the *Central Limit Theorem* (Durrett, 1996). The Central Limit Theorem states that regardless of the shape of the original distribution, if the distribution has a finite mean (μ) and variance (σ^2), the sampling distribution of the mean approaches a normal distribution with a mean of (μ) and a variance of σ^2/N as N, the sample size, increases (Durrett, 1996).

When the sample size is smaller than 15 and the distribution of the data is unknown, the Central Limit Theorem cannot be used to support the normality assumption. Statistical test of the kurtosis, skewness, and goodness of fit test are then used to evaluate the normality assumption. The *skewness statistic* (S) characterizes the degree of asymmetry of a given data distribution. Normally distributed data have an S value of 0. An S value that is greater (less) than 0 indicates that the data are asymmetrically distributed with a right (left) tail extending towards positive (negative) values. Further, the *standard error of the skewness statistic* (SES) can be approximated by SES = SQRT(6/N) where N is the sample size. According to the small sample skewness hypothesis test, if the S value is greater than two times the SES, the data distribution can be considered non-normal. The *kurtosis statistic* (K) characterizes the degree of peakedness or flatness of a given data distribution in comparison to a normal distribution. Normally distributed data have a K value of 0. A K value that is greater (less) than 0 indicates a relatively

peaked (flat) distribution. Further, the *standard error of the kurtosis statistic* (SEK) can be approximated by SEK = SQRT(24/N) where N is the sample size. According to the small sample kurtosis hypothesis test, if the K value is greater than two times the SEK value, the data distribution is typically considered to be non-normal.

For each data set to which the UPL was applied (i.e., the separate data sets for each HAP and HAP surrogate type applicable to the subcategory), the S and K values were calculated using both the reported test values and the log-transformed reported test values. If the S and K values statistics of the reported data set were both less than twice the SES and SEK, respectively, the dataset was classified as normally distributed. If neither of the S and K values, or only one of these statistical values were less than twice the SES or SEK, respectively, then the skewness and kurtosis hypothesis tests were conducted for the natural log-transformed data. If the S and K values of the log-transformed reported data set were both less than twice the SES and SEK, respectively, the log-transformed dataset was classified as normally distributed and an equation to calculate the floor using an UPL equation for log-normal data was then used (Bhaumik and Gibbons, 2004). If both the reported values and the natural-log transformed reported values had S and K values that were greater than twice the SES or SEK, respectively, the normally distributed dataset was selected as the basis of the floor to be conservative. If the results of the skewness and kurtosis hypothesis tests were mixed for the reported values and the natural log-transformed reported values, the normal distribution was chosen to be conservative. This approach is more accurate and obtained more representative results than a more simplistic normal distribution assumption.

Specifically, in the case of normal distributed data, the MACT floor limit is an UPL calculated as:

$$\text{UPL} = \bar{x} + t_{df,.99}\sqrt{s^2\left(\frac{1}{n}+\frac{1}{m}\right)}$$

Where:

$\bar{x}$ = mean of the top performing sources calculated as $\bar{x} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$

n = Number of test runs = $\sum_{i=1}^{N} n_i$

m = Number of future test runs in the compliance average

N = Number of sources

s^2 = pooled variance calculated as $s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \bar{X}\right)^2$

$t_{df,\,99}$ = 99th – quantile of t-distribution with *df* degrees of freedom

$$df = \left(\sum_{i=1}^{N} n_i\right) - 1$$

df = degrees of freedom calculated as

This calculation was performed using the following Excel functions:

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

The 99th confidence UPL was selected as a reasonable upper limit because only 1 percent of future tests of the MACT pool of lowest emitting EGUs will exceed the limit if they are performing as well as the emission test data indicate (i.e., these EGUs will be below or achieve the limit 99 percent of the time in the future). If variability was not accounted for in this manner and a limit was set based solely on the average performance, then these EGUs could exceed the limit half the time or more.

For some data sets, a single floor average per source or unit was available; analysis based solely in these single per unit observations will not reflect any possible within-source variability. In cases where additional available emissions data from past years was available, it was decided to incorporate these data in the estimation of the variance term, s^2, allowing for consideration of within- and between-source variability. The most recent data (e.g., single floor average) were used to calculate the average in the UPL equation. The UPL equation for this case is calculated as:

$$\text{UPL} = \overline{x} + t_{df,.99}\sqrt{s^2\left(\frac{1}{N}+\frac{1}{m}\right)}$$

Where:

m = Number of future test runs in the compliance average

N = Number of units involved in calculating the average (a single measurement (e.g., floor average) per unit)

n_i = Number of data points (e.g., stack averages) collected in the past for the i-th source

$$n = N + \sum_{i=1}^{N} n_i$$

x_i = Current information (e.g., single floor average) for the i-th source

y_i = Past information (e.g., stack average) for the i-th source

$\bar{x}$ = mean of the top performing sources calculated as $\bar{x} = \frac{1}{N}\sum_{i=1}^{N} x_i$

$\bar{\bar{x}}$ = grand mean (mean of the current and past information from the top performing sources

$$\bar{\bar{x}} = \frac{1}{n}\left(\sum_{i=1}^{N} x_i + \sum_{i=1}^{N}\sum_{j=1}^{n_i} y_i\right)$$

s^2 = variance calculated as $s^2 = \frac{1}{n-1}\left\{\sum_{i=1}^{N}\left(x_i - \bar{\bar{x}}\right)^2 + \sum_{i=1}^{N}\sum_{j=1}^{n_i}\left(y_{ij} - \bar{\bar{x}}\right)^2\right\}$

$t_{df,\,99}$ = 99th quantile t-distribution with *df* degrees of freedom

df = Degrees of freedom = n -1

The calculation of this UPL was performed using the following Excel function:

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

The UPL, to test compliance based on a 3-run average and assuming log-normal data, is calculated by the following equation (Bhaumik and Gibbons, 2004):

$$UPL = e^{\hat{\mu}+\frac{\hat{\sigma}^2}{2}} + \frac{z_{.99}}{m}\sqrt{me^{2\hat{\mu}+\hat{\sigma}^2}\left(e^{\hat{\sigma}^2}-1\right) + m^2 e^{2\hat{\mu}+\hat{\sigma}^2}\left(\frac{\hat{\sigma}^2}{n} + \frac{\hat{\sigma}^4}{2(n-1)}\right)}$$

Where:

$\hat{\mu} = \frac{\sum_{i=1}^{n}\log\left(y_i\right)}{n}$ the average of the log transformed data from the top performing sources

$\hat{\sigma}^2 = \frac{\sum_{i=1}^{n}\left(\log\left(y_i\right)-\hat{\mu}\right)^2}{n-1}$ the variance estimate of the log transformed data from the top performing sources

$z_{.99}$ is the 99th-percentile of the log-normal distribution estimated using the trapezoidal rule approach from the following equation:

$$\int_0^{z_{.99}} \left(1 - \frac{\sqrt{\beta_{1z}}}{6}\left(3z - z^3\right) + \frac{\left(\beta_{2z} - 3\right)\left(3 - 6z^2 + z^4\right)}{24} \right) \phi(z) = .99$$

The calculation of this log-normal based UPL was performed using the following Excel function:

Normal distribution: 99% UPL =
EXP(AVERAGE(LN(Test Runs in Top 12%)) + VAR(LN(Test Runs in Top 12%))/2) +
*(99TH-PERCENTILE LOGNORMAL DISTRIBUTION/m)**
*SQRT(m*EXP(2* AVERAGE(LN(Test Runs in Top 12%))+ VAR(LN(Test Runs in Top 12%)))*(EXP(VAR(LN(Test Runs in Top 12%)))-1)+*
m^2 EXP(2* AVERAGE(LN(Test Runs in Top 12%))+ VAR(LN(Test Runs in Top 12%)))*(VAR(LN(Test Runs in Top 12%))/n+ VAR(LN(Test Runs in Top 12%))^2/(2*(n-1)))*

The 99th percentile of the log-normal distribution was calculated following Bhaumik and Gibbons (2004).

Adjustment for Below Detection Level Emissions Data

To account for the effect of measurement imprecision associated with a data base that includes method detection level data, a protocol specified by EPA was used. The first step was to define a method detection level that is representative of the data for a given HAP or HAP surrogate used in establishing the MACT floor emissions limit and that also minimizes the influence of an outlier test-specific method detection level value. Each pollutant-specific data set was reviewed to identify the highest test-specific method detection level reported that was also equal to, or less than, the average emissions level (i.e., unadjusted for probability confidence level) calculated for the data set. This approach is representative of the data collected to develop the MACT floor emissions limit while to some degree minimizing the effect of a test(s) with an inordinately high method detection level (e.g., the sample volume was too small, the laboratory technique was insufficiently sensitive, or the procedure for determining the detection level was other than that specified).

The second step is to calculate three times the representative method detection level and compare that value to the calculated floor or emissions limit. If three times the representative method detection level was less than the calculated floor or emissions limit calculated from the UPL, it was concluded that measurement variability was adequately addressed. The calculated MACT floor emission limit would need no adjustment. If, on the other hand, the value equal to three times the representative method detection level was greater than the UPL, it was concluded that the calculated MACT floor emissions limit does not account entirely for measurement variability. If indicated, we substituted the value equal to three times the representative method detection level to apply as the adjusted floor or emissions limit. This adjusted value would ensure measurement variability is adequately addressed in the floor or the emissions limit. This check was part of the variability analysis for all new MACT floors that had below detection level (BDL) or detection level limited (DLL) run data present in the best-controlled data set. Below detection level data are emissions data where all analytical values used to calculate and report an in-stack emissions value are less than the laboratory's reported detection level(s). Detection level

limited data are emissions data where at least one but not all values used to calculate and report an in-stack emissions value are less than the laboratory's reported detection level(s). For reference purposes, above detection level (ADL) data are emissions data where all analytical values used to calculate and report an in-stack emissions value are greater than the laboratory's reported detection level(s). The review cited above only resulted in the new MACT floors being three times the MDL rather than the UPL for the following limits:

Subcategory 1 - Coal: HCl, HF

Subcategory 3 - IGCC: HCl

Subcategory 4 - Liquid Oil: HCl, HF, Be, Cd

MACT Floor Analysis Data Set

In determining MACT floors for the pollutant emissions from coal-fired EGUs other than IGCC EGUs (*Subcategories 1 and 2*), the MACT floor calculations for PM, SO_2, total non-Hg HAP metals, individual HAP metals other than Hg, HCl, and Hg used the single lowest emission average reported for a pollutant for each EGU in the MACT floor pool. The variability analysis included other pollutant-specific test emission averages from data collected from the required 2010 ICR emissions testing (Part III of the 2010 ICR) and the applicable emissions data reported by the respondents for tests performed within the last 5 years (Part II of the 2010 ICR). This was done for the purpose of showing variability of emissions in testing at a unit over time. These additional data were filtered so that only those data from emissions tests with the same pollutant control configurations were included. For example, a company supplies Hg emissions Part II test data (i.e., test data from 1/1/2005 through 12/31/2009) for a unit from every year from 2005 to 2009 under the ICR. The ICR data also shows that that company installed an ACI system and a fabric filter that both went online in December of 2007, and the controls present as of that date at that unit are the same controls that the unit had during the 2010 ICR. In this case, only the Part II test data for Hg emissions tested on or after 12/2007 through 12/2009 was used in the MACT floor variability calculation. Also, the newer and older emission average data within these filtered constraints were given the same weight as far as which could be chosen as the lowest emission point. For example, if a data point from an earlier 2008 Hg emissions test for a given EGU showed a lower emission level than the data point from a 2010 ICR required emissions test, the lower emission average was used for the MACT floor calculations with the 2010 ICR data point and any other test data reported for the EGU used to show variability over time.

Three HCl data points were excluded from the data set used to calculate the HCl emission level MACT floors for coal-fired EGUs other than IGCC EGUs (*Subcategories 1 and 2*). Two single data points expressed as lb/MMBtu HCl emission averages were approximately two orders of magnitude greater than the minimum value for the given unit. These data were from older facility tests (not tests required to be performed by the 2010 ICR) for which only emission averages were reported. Without run level data it is not possible to determine whether these averages represent valid test values or were calculated incorrectly. Also, a third single data point expressed as a lb/MW emission average was approximately two orders of magnitude greater than the minimum value for the given unit and was excluded for the same reasoning.

Two data points were excluded from the data set used to calculate the Hg emission level MACT floors for Hg emissions from coal-fired EGUs other than IGCC EGUs (*Subcategory 1*). Both data points, expressed as lb/MMBtu Hg emission averages, were approximately two orders

of magnitude or greater than the minimum value for the given unit. Both of these data points were from older facility tests for which only emission averages were reported without the corresponding run-level data.

Three companies operating five of the oil-fired EGUs required to perform emissions testing by the 2010 ICR requested permission from EPA to continue their normal operating practice of co-firing No. 6 residual fuel oil with natural gas while conducting their testing in order to meet the ICR reporting deadline. The emissions data reported for these EGUs were not included in the data set used for *Subcategory 4* MACT floor calculations because their emissions are not representative of EGUs firing 100 percent fuel oil.

The MACT floors for new sources are based on the emission control that is achieved in practice by the best-controlled source in a subcategory. In determining the new-source MACT floors for the pollutant emissions from coal-fired EGUs other than IGCC EGUs (*Subcategories 1 and 2*), there were situations for some pollutants where only an emission average and no individual run-level data were available for the EGU identified as the best-controlled source for the given pollutant. In these cases, no emission variability could be determined based on a single data point. Therefore, the next best-controlled source with individual test run data was used to determine the new-source MACT emissions level as presented in Table 1.

MACT Floor Analysis Results

Tables 2, 3, 4, and 5 present the new-source and existing-source MACT floor values determined for the Coal- and Oil-fired Electric Utility Steam Generating Unit source category. Attachments A through D present the summary tables with mean, UPL, and floor values for new and existing sources, the ranked emission data for MACT floor analysis, and examples of the UPL calculations for existing sources and new sources. The data points removed due to being outliers are shown in Attachment E to this memorandum.

References

Bhaumik, D.K. and Gibbons, R.D. 2004. *An Upper Prediction Limit for the Arithmetic Mean of a Lognormal Random Variable*. Technometrics, 46(2):239-248.

Durrett, Richard (1996). Probability: Theory and Examples (Second edition).

Table 1. Coal-fired EGU New-Source MACT Floor Data Set Substitutions

Pollutant	Data Set Substitution
Hg	Could not use the data for either Spruance Genco, LLC (ORIS 54081) Gen 2 or Gen 3 as both are of a unique size and design that most likely will not be representative of newly built units. Therefore, the run-level data for Nucla Unit 001 (ORIS 527) was used.
Chromium	Could not use the data for Dallman Unit 34 (ORIS 963) as no run-level data were available; used the run-level data for Cholla Unit 3 (ORIS 113).
SO_2,	Could not use the data for Stanton Unit 10 (ORIS 2824) as no run-level data were available; used the run-level data for Port of Stockton District Energy Facility Unit 1 (ORIS 54238).
Total PM	Could not use the data for Bonanza Power Plant Unit 1-1 (ORIS 7790) as no run-level data were available; used the run-level data for Dunkirk Generating Plant Unit 1 (ORIS 2554).
Total non-Hg HAP Metals	Could not use the data for Chambers Cogeneration L.P. Boiler 2 (ORIS 10566) as no run-level data were available; used the run-level data for Weston Unit 4 (ORIS 4078).

Table 2. Summary of Existing Sources MACT Floor Results for Hg and Non-Hg Metal HAP

Subcategory	Parameter	Antimony (Sb)	Arsenic (As)	Beryllium (Be)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)
1	No. in MACT floor	131	131	131	131	131	131
	99% UPL of top 12% (i.e., MACT floor; except where noted)	0.6 lb/TBtu 0.006 lb/GWh	2 lb/TBtu 0.02 lb/GWh	0.2 lb/TBtu 0.002 lb/GWh	0.3 lb/TBtu 0.003 lb/GWh	3 lb/TBtu 0.03 lb/GWh	0.8 lb/TBtu 0.008 lb/GWh
2	No. in MACT floor	131	131	131	131	131	131
	99% UPL of top 12% (i.e., MACT floor; except where noted)	0.6 lb/TBtu 0.006 lb/GWh	2 lb/TBtu 0.02 lb/GWh	0.2 lb/TBtu 0.002 lb/GWh	0.3 lb/TBtu 0.003 lb/GWh	3 lb/TBtu 0.03 lb/GWh	0.8 lb/TBtu 0.008 lb/GWh
3	No. in MACT floor	2	2	2	2	2	2
	99% UPL (i.e., MACT floor)	0.4 lb/TBtu 0.004 lb/GWh	2 lb/TBtu 0.02 lb/GWh	0.03 lb/TBtu 0.003 lb/GWh	0.2 lb/TBtu 0.002 lb/GWh	3 lb/TBtu 0.02 lb/GWh	2 lb/TBtu 0.004 lb/GWh
4	No. in MACT floor	7	7	7	7	7	7
	99% UPL of top 12% (i.e., MACT floor)	0.2 lb/TBtu 0.003 lb/GWh	0.6 lb/TBtu 0.007 lb/GWh	0.06 lb/TBtu 0.0007 lb/GWh	0.1 lb/TBtu 0.002 lb/GWh	2 lb/TBtu 0.02 lb/GWh	3 lb/TBtu 0.02 lb/GWh
5	No. in MACT floor	5	5	5	5	5	5
	99% UPL of top 5 (i.e., MACT floor)	0.4 lb/TBtu 0.007 lb/GWh	0.4 lb/TBtu 0.004 lb/GWh	0.07 lb/TBtu 0.0007 lb/GWh	0.4 lb/TBtu 0.004 lb/GWh	2 lb/TBtu 0.02 lb/GWh	2 lb/TBtu 0.02 lb/GWh

Subcategory	Parameter	Lead (Pb)	Manganese (Mn)	Nickel (Ni)	Selenium (Se)	Total Non Hg HAP Metals	Total PM	Mercury (Hg)
1	No. in MACT floor	131	131	131	131	131	131	40*
	99% UPL of top 12% (i.e., MACT floor; except where noted)	2 lb/TBtu 0.02 lb/GWh	5 lb/TBtu 0.05 lb/GWh	4 lb/TBtu 0.04 lb/GWh	6 lb/TBtu 0.06 lb/GWh	0.00004 lb/MMBtu 0.0004 lb/MWh	0.03 lb/MMBtu 0.3 lb/MWh	1.2 lb/TBtu 0.013 lb/GWh
2	No. in MACT floor	131	131	131	131	131	131	2**
	99% UPL of top 12% (i.e., MACT floor; except where noted)	2 lb/TBtu 0.02 lb/GWh	5 lb/TBtu 0.05 lb/GWh	4 lb/TBtu 0.04 lb/GWh	6 lb/TBtu 0.06 lb/GWh	0.00004 lb/MMBtu 0.0004 lb/MWh	0.03 lb/MMBtu 0.3 lb/MWh	11 lb/TBtu 0.2 lb/GWh
3	No. in MACT floor	2	2	2	2	2	2	
	99% UPL (i.e., MACT floor)	0.0002 lb/MMBtu 3 lb/GWh	3 lb/TBtu 0.02 lb/GWh	5 lb/TBtu 0.05 lb/GWh	22 lb/TBtu 0.2 lb/GWh	5 lb/TBtu 0.05 lb/GWh	0.05 lb/MMBtu 0.3 lb/MWh	3 lb/TBtu 0.02 lb/GWh
4	No. in MACT floor	7	7	7	7	7***	7	
	99% UPL of top 12% (i.e., MACT floor)	2 lb/TBtu 0.03 lb/GWh	5 lb/TBtu 0.06 lb/GWh	8 lb/TBtu 0.08 lb/GWh	2 lb/TBtu 0.02 lb/GWh	0.00003 lb/MMBtu 0.0003 lb/MWh	N/A	0.05 lb/TBtu 0.0007 lb/GWh
5	No. in MACT floor	5	5	5	5	5	5	
	99% UPL of top 5 (i.e., MACT floor)	11 lb/TBtu 0.02 lb/GWh	3 lb/TBtu 0.04 lb/GWh	9 lb/TBtu 0.09 lb/GWh	2 lb/TBtu 0.02 lb/GWh	0.00005 lb/MMBtu 0.7 lb/GWh	0.2 lb/MMBtu 2 lb/MWh	0.2 lb/TBtu 0.002 lb/GWh

* Subcategory 1 used the top 40 data averages to calculate the MACT floor for mercury.
** Subcategory 2 used the top 2 data averages to calculate the MACT floor for mercury.
*** Subcategory 4 Total Non Hg HAP Metals value includes Hg emissions in the floor value.

Table 3. Summary of Existing Source MACT Floor Results for Acid Gases HAP Sources

Subcategory	Parameter	HCl	HF	SO_2
1	Number in MACT floor	131	N/A	131
	99% UPL of top 12% (i.e., MACT floor; except where noted)	0.002 lb/MMBtu 0.02 lb/MWh	N/A	0.2 lb/MMBtu 2 lb/MWh
2	Number in MACT floor	131	N/A	131
	99% UPL of top 12% (i.e., MACT floor; except where noted)	0.002 lb/MMBtu 0.02 lb/MWh	N/A	0.2 lb/MMBtu 2 lb/MWh
3	Number in MACT floor	2	N/A	N/A
	99% UPL (i.e., MACT floor)	0.0005 lb/MMBtu 0.03 lb/MWh	N/A	N/A
4	Number in MACT floor	7	7	N/A
	99% UPL of top 12% (i.e., MACT floor)	0.0003 lb/MMBtu 0.003 lb/MWh	0.0002 lb/MMBtu 0.002 lb/MWh	N/A
5	Number in MACT floor	5	N/A	5
	99% UPL of top 5 (i.e., MACT floor)	0.005 lb/MMBtu 0.08 lb/MWh	N/A	0.4 lb/MMBtu 5 lb/MWh

Table 4. Summary of New-Source MACT Floor Results for Hg and Non-Hg Metal HAP

Subcategory	Parameter	Antimony (Sb)	Arsenic (As)	Beryllium (Be)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)
1	**99% UPL of top performer (test runs)**	0.00008 lb/GWh	0.0002 lb/GWh	0.00003 lb/GWh	0.0004 lb/GWh	0.02 lb/GWh	0.0008 lb/GWh
2	**99% UPL of top performer (test runs)**	0.00008 lb/GWh	0.0002 lb/GWh	0.00003 lb/GWh	0.0004 lb/GWh	0.02 lb/GWh	0.0008 lb/GWh
3	**99% UPL of top performer (test runs)**	0.01 lb/GWh	0.008 lb/GWh	0.00009 lb/GWh	0.001 lb/GWh	0.03 lb/GWh	0.02 lb/GWh
4	**99% UPL of top performer (test runs)**	0.002 lb/GWh	0.002 lb/GWh	0.0007 lb/GWh	0.0004 lb/GWh	0.02 lb/GWh	0.006 lb/GWh
5	**99% UPL of top performer (test runs)**	0.0009 lb/GWh	0.002 lb/GWh	0.00008 lb/GWh	0.007 lb/GWh	0.006 lb/GWh	0.002 lb/GWh

Subcategory	Parameter	Lead (Pb)	Manganese (Mn)	Nickel (Ni)	Selenium (Se)	Total non-Hg HAP Metals	Total PM	Mercury (Hg)
1	**99% UPL of top performer (test runs)**	0.0009 lb/GWh	0.004 lb/GWh	0.004 lb/GWh	0.03 lb/GWh	0.00004 lb/MWh	0.05 lb/MWh	0.0002 lb/GWh
2	**99% UPL of top performer (test runs)**	0.0009 lb/GWh	0.004 lb/GWh	0.004 lb/GWh	0.03 lb/GWh	0.00004 lb/MWh	0.05 lb/MWh	0.04 lb/GWh
3	**99% UPL of top performer (test runs)**	0.006 lb/GWh	0.02 lb/GWh	0.02 lb/GWh	0.3 lb/GWh	0.03 lb/GWh	0.3 lb/MWh	0.02 lb/GWh
4	**99% UPL of top performer (test runs)**	0.006 lb/GWh	0.03 lb/GWh	0.04 lb/GWh	0.004 lb/GWh	0.0004 lb/MWh*	N/A	0.0001 lb/GWh
5	**99% UPL of top performer (test runs)**	0.02 lb/GWh	0.007 lb/GWh	0.007 lb/GWh	0.0009 lb/GWh	0.2 lb/GWh	0.05 lb/MWh	0.002 lb/GWh

* Subcategory 4 Total Non-Hg HAP Metals value includes Hg emissions in the floor value.

Table 5. Summary of New-Source MACT Floor Results for Acid Gases HAP Sources

Subcategory	Parameter	HCl	HF	SO_2
1	99% UPL of top performer (test runs)	0.3 lb/GWh	N/A	0.4 lb/MWh
2	99% UPL of top performer (test runs)	0.3 lb/GWh	N/A	0.4 lb/MWh
3	99% UPL of top performer (test runs)	0.003 lb/MWh	N/A	N/A
4	99% UPL of top performer (test runs)	0.0005 lb/MWh	0.0005 lb/MWh	N/A
5	99% UPL of top performer (test runs)	0.3 lb/GWh	N/A	0.4 lb/MWh

ATTACHMENTS

Attachment A: Summary Tables with Mean, Upper Prediction Limit, and Final MACT Floor Values for New and Existing Sources

Table A-1. Subcategory 1 Existing Sources --
Summary of UPLs using emission averages..... A-2

Table A-2. Subcategory 2 Existing Sources --
Summary of UPLs using emission averages..... A-3

Table A-3. Subcategory 3 Existing Sources --
Summary of UPLs using emission averages..... A-4

Table A-4. Subcategory 4 Existing Sources --
Summary of UPLs using emission averages..... A-5

Table A-5. Subcategory 5 Existing Sources --
Summary of UPLs using emission averages..... A-6

Table A-6. Subcategory 1 New Sources --
Summary of UPLs using emission averages..... A-7

Table A-7. Subcategory 2 New Sources --
Summary of UPLs using emission averages..... A-8

Table A-8. Subcategory 3 New Sources --
Summary of UPLs using emission averages..... A-9

Table A-9. Subcategory 4 New Sources --
Summary of UPLs using emission averages..... A-10

Table A-10. Subcategory 5 New Sources --
Summary of UPLs using emission averages..... A-11

Table A-1. ***Subcategory 1 Existing Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MMBtu)	UPL (lb/MMBtu)	Number of units in the floor	UPL (lb/TBtu)	Floor value	Units
PM total	0.0115	0.0262	131		0.03	lb/MMBtu
Metal total	0.0000142	0.0000376	131		0.00004	lb/MMBtu
Antimony (Sb)	2.0981E-07	5.4934E-07	131	0.54933853	0.6	lb/TBtu
Arsenic (As)	4.1029E-07	1.0816E-06	131	1.08162988	2.0	lb/TBtu
Beryllium (Be)	4.8952E-08	1.3337E-07	131	0.13337282	0.2	lb/TBtu
Cadmium (Cd)	9.8523E-08	2.1212E-07	131	0.21212059	0.3	lb/TBtu
Chromium (Cr)	1.2160E-06	2.8157E-06	131	2.81571786	3	lb/TBtu
Cobalt	2.8224E-07	7.1184E-07	131	0.71184105	0.8	lb/TBtu
Lead (Pb)	5.3617E-07	1.2792E-06	131	1.27916537	2	lb/TBtu
Manganese (Mn)	1.6846E-06	4.1963E-06	131	4.19634404	5	lb/TBtu
Nickel (Ni)	1.4138E-06	3.3913E-06	131	3.39126531	4	lb/TBtu
Selenium (Se)	1.6204E-06	5.5311E-06	131	5.53108071	6	lb/TBtu
Mercury (Hg)	2.1250E-08	1.1812E-06	40	1.18121634	1.2	lb/TBtu
HCl	0.000219	0.001250	131		0.002	lb/MMBtu
SO_2	0.073971	0.169892	131		0.2	lb/MMBtu

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	UPL (lb/GWh)	Floor value	Units
PM total	0.118	0.272	131		0.3	lb/MWh
Metal total	0.000142	0.000387	131		0.0004	lb/MWh
Antimony (Sb)	2.0973E-06	5.4628E-06	131	0.00546281	0.006	lb/GWh
Arsenic (As)	4.0513E-06	1.0711E-05	131	0.01071136	0.02	lb/GWh
Beryllium (Be)	4.8953E-07	1.3585E-06	131	0.00135849	0.002	lb/GWh
Cadmium (Cd)	9.8364E-07	2.1925E-06	131	0.00219252	0.003	lb/GWh
Chromium (Cr)	1.1861E-05	2.7511E-05	131	0.02751116	0.03	lb/GWh
Cobalt	2.7740E-06	7.1035E-06	131	0.00710350	0.008	lb/GWh
Lead (Pb)	5.1888E-06	1.2531E-05	131	0.01253068	0.02	lb/GWh
Manganese (Mn)	1.6792E-05	4.2836E-05	131	0.04283556	0.05	lb/GWh
Nickel (Ni)	1.4050E-05	3.4452E-05	131	0.03445213	0.04	lb/GWh
Selenium (Se)	1.6626E-05	5.7848E-05	131	0.05784770	0.06	lb/GWh
Mercury (Hg)	2.0899E-06	1.2329E-05	40	0.01232906	0.013	lb/GWh
HCl	0.003044	0.014655	131		0.02	lb/MWh
SO_2	0.7284	1.6832	131		2	lb/MWh

Table A-2. ***Subcategory 2 Existing Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MMBtu)	UPL (lb/MMBtu)	Number of units in the floor	UPL (lb/TBtu)	Floor value	Units
PM total	0.0115	0.0262	131		0.03	lb/MMBtu
Metal total	0.0000142	0.0000376	131		0.00004	lb/MMBtu
Antimony (Sb)	2.0981E-07	5.4934E-07	131	0.54933853	0.6	lb/TBtu
Arsenic (As)	4.1029E-07	1.0816E-06	131	1.08162988	2.0	lb/TBtu
Beryllium (Be)	4.8952E-08	1.3337E-07	131	0.13337282	0.2	lb/TBtu
Cadmium (Cd)	9.8523E-08	2.1212E-07	131	0.21212059	0.3	lb/TBtu
Chromium (Cr)	1.2160E-06	2.8157E-06	131	2.81571786	3	lb/TBtu
Cobalt	2.8224E-07	7.1184E-07	131	0.71184105	0.8	lb/TBtu
Lead (Pb)	5.3617E-07	1.2792E-06	131	1.27916537	2	lb/TBtu
Manganese (Mn)	1.6846E-06	4.1963E-06	131	4.19634404	5	lb/TBtu
Nickel (Ni)	1.4138E-06	3.3913E-06	131	3.39126531	4	lb/TBtu
Selenium (Se)	1.6204E-06	5.5311E-06	131	5.53108071	6	lb/TBtu
Mercury (Hg)	1.0672E-06	1.0574E-05	2	10.5740272	11	lb/TBtu
HCl	0.000219	0.001250	131		0.002	lb/MMBtu
SO_2	0.073971	0.169892	131		0.2	lb/MMBtu

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	UPL (lb/GWh)	Floor value	Units
PM total	0.118	0.272	131		0.3	lb/MWh
Metal total	0.000142	0.000387	131		0.0004	lb/MWh
Antimony (Sb)	2.0973E-06	5.4628E-06	131	0.00546281	0.006	lb/GWh
Arsenic (As)	4.0513E-06	1.0711E-05	131	0.01071136	0.02	lb/GWh
Beryllium (Be)	4.8953E-07	1.3585E-06	131	0.00135849	0.002	lb/GWh
Cadmium (Cd)	9.8364E-07	2.1925E-06	131	0.00219252	0.003	lb/GWh
Chromium (Cr)	1.1861E-05	2.7511E-05	131	0.02751116	0.03	lb/GWh
Cobalt	2.7740E-06	7.1035E-06	131	0.00710350	0.008	lb/GWh
Lead (Pb)	5.1888E-06	1.2531E-05	131	0.01253068	0.02	lb/GWh
Manganese (Mn)	1.6792E-05	4.2836E-05	131	0.04283556	0.05	lb/GWh
Nickel (Ni)	1.4050E-05	3.4452E-05	131	0.03445213	0.04	lb/GWh
Selenium (Se)	1.6626E-05	5.7848E-05	131	0.05784770	0.06	lb/GWh
Mercury (Hg)	1.1464E-05	1.1213E-04	2	0.11213482	0.2	lb/GWh
HCl	0.003044	0.014655	131		0.02	lb/MWh
SO_2	0.7284	1.6832	131		2	lb/MWh

Table A-3. ***Subcategory 3 Existing Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MMBtu)	UPL (lb/MMBtu)	Number of units in the floor	Floor value	Units
PM total	2.3940E-02	4.9897E-02	2	0.05	lb/MMBtu
Metal total	2.1687E-06	4.4044E-06	2	5	lb/TBtu
Antimony (Sb)	1.0170E-07	3.6460E-07	2	0.4	lb/TBtu
Arsenic (As)	5.7489E-07	1.1976E-06	2	2	lb/TBtu
Beryllium (Be)	1.0121E-08	2.1055E-08	2	0.03	lb/TBtu
Cadmium (Cd)	5.3267E-08	1.2716E-07	2	0.2	lb/TBtu
Chromium (Cr)	1.1838E-06	2.8483E-06	2	3	lb/TBtu
Cobalt (Co)	1.2906E-07	1.0127E-06	2	2	lb/TBtu
Lead (Pb)	5.1641E-06	1.3259E-04	2	0.0002	lb/MMBtu
Manganese (Mn)	9.7610E-07	2.4543E-06	2	3	lb/TBtu
Nickel (Ni)	1.8590E-06	4.1886E-06	2	5	lb/TBtu
Selenium (Se)	1.1652E-05	2.1544E-05	2	22	lb/TBtu
Mercury	8.1750E-07	2.1669E-06	2	3	lb/TBtu
Acid gases -- HCl	1.8245E-04	4.5035E-04	2	0.0005	lb/MMBtu

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	Floor value	Units
PM total	1.6480E-01	2.5899E-01	2	0.3	lb/MWh
Metal total	1.6747E-05	4.0834E-05	2	0.05	lb/GWh
Antimony (Sb)	8.7726E-07	3.4152E-06	2	0.004	lb/GWh
Arsenic (As)	4.7247E-06	1.1819E-05	2	0.02	lb/GWh
Beryllium (Be)	8.4092E-08	2.1209E-07	2	0.003	lb/GWh
Cadmium (Cd)	4.3885E-07	1.2066E-06	2	0.002	lb/GWh
Chromium (Cr)	7.9567E-06	1.6330E-05	2	0.02	lb/GWh
Cobalt (Co)	8.9184E-07	3.4531E-06	2	0.004	lb/GWh
Lead (Pb)	4.7874E-05	2.4820E-03	2	0.003	lb/MWh
Manganese (Mn)	6.4572E-06	1.3579E-05	2	0.02	lb/GWh
Nickel (Ni)	1.4899E-05	4.0371E-05	2	0.05	lb/GWh
Selenium (Se)	8.3414E-05	1.3253E-04	2	0.2	lb/GWh
Mercury	6.9413E-06	1.9966E-05	2	0.02	lb/GWh
Acid gases -- HCl	1.2099E-03	2.4155E-03	2	0.003	lb/MWh

Table A-4. ***Subcategory 4 Existing Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MMBtu)	UPL (lb/MMBtu)	Number of units in the floor	Floor value	Units
Metal total (including Mercury)	1.1024E-05	2.1337E-05	7	0.00003	lb/MMBtu
Antimony (Sb)	8.6708E-08	1.9652E-07	7	0.2	lb/TBtu
Arsenic (As)	2.7023E-07	5.4091E-07	7	0.6	lb/TBtu
Beryllium (Be)	2.7199E-08	5.6981E-08	7	0.06	lb/TBtu
Cadmium (Cd)	4.3958E-08	9.2940E-08	7	0.1	lb/TBtu
Chromium (Cr)	7.8696E-07	1.5677E-06	7	2	lb/TBtu
Cobalt	5.8610E-07	2.0215E-06	7	3	lb/TBtu
Lead (Pb)	6.4748E-07	1.9103E-06	7	2	lb/TBtu
Manganese (Mn)	1.4568E-06	4.3093E-06	7	5	lb/TBtu
Mercury (Hg)	1.9880E-08	4.8170E-08	7	0.05	lb/TBtu
Nickel (Ni)	2.3887E-06	7.2536E-06	7	8	lb/TBtu
Selenium (Se)	5.0320E-07	1.0922E-06	7	2	lb/TBtu
Acid gases -- HCl	9.2523E-05	2.2956E-04	7	0.0003	lb/MMBtu
Acid gases -- HF	6.1690E-05	1.5756E-04	7	0.0002	lb/MMBtu

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	Floor value	Units
Metal total (including Mercury)	1.3679E-04	2.8745E-04	7	0.0003	lb/MWh
Antimony (Sb)	1.1052E-06	2.4682E-06	7	0.003	lb/GWh
Arsenic (As)	3.2301E-06	6.8826E-06	7	0.007	lb/GWh
Beryllium (Be)	3.2934E-07	6.2782E-07	7	0.0007	lb/GWh
Cadmium (Cd)	4.8715E-07	1.0240E-06	7	0.002	lb/GWh
Chromium (Cr)	8.9730E-06	1.8550E-05	7	0.02	lb/GWh
Cobalt	6.1582E-06	1.9352E-05	7	0.02	lb/GWh
Lead (Pb)	7.2271E-06	2.0418E-05	7	0.03	lb/GWh
Manganese (Mn)	1.8763E-05	5.9894E-05	7	0.06	lb/GWh
Mercury (Hg)	2.2752E-07	6.1287E-07	7	0.007	lb/GWh
Nickel (Ni)	2.8419E-05	7.8157E-05	7	0.08	lb/GWh
Selenium (Se)	6.1244E-06	1.3004E-05	7	0.02	lb/GWh
Acid gases -- HCl	1.1228E-03	2.7328E-03	7	0.003	lb/MWh
Acid gases -- HF	6.2699E-04	1.5588E-03	7	0.002	lb/MWh

Table A-5. ***Subcategory 5 Existing Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MMBtu)	UPL (lb/MMBtu)	Number of units in the floor	Floor value	Units
PM Total	3.0874E-02	1.4293E-01	5	0.2	lb/MMBtu
Metal total	2.2139E-05	4.6531E-05	5	0.00005	lb/MMBtu
Antimony (Sb)	9.6847E-08	3.2348E-07	5	0.4	lb/TBtu
Arsenic (As)	1.4279E-07	3.1228E-07	5	0.4	lb/TBtu
Beryllium (Be)	2.7617E-08	6.4659E-08	5	0.07	lb/TBtu
Cadmium (Cd)	1.5634E-07	3.7855E-07	5	0.4	lb/TBtu
Chromium (Cr)	5.0947E-07	1.2553E-06	5	2	lb/TBtu
Cobalt (Co)	3.4111E-07	1.0863E-06	5	2	lb/TBtu
Lead (Pb)	2.4897E-06	1.0454E-05	5	11	lb/TBtu
Manganese (Mn)	1.0302E-06	2.3227E-06	5	3	lb/TBtu
Nickel (Ni)	3.5824E-06	8.9021E-06	5	9	lb/TBtu
Selenium (Se)	5.9813E-07	1.2850E-06	5	2	lb/TBtu
Mercury	8.3089E-08	1.6766E-07	5	0.2	lb/TBtu
Acid gases -- HCl	1.0296E-03	4.0628E-03	5	0.005	lb/MMBtu
Acid gases -- SO_2	2.1130E-01	3.9862E-01	5	0.4	lb/MMBtu

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	Floor value	Units
PM total	3.3129E-01	1.6152E+00	5	2	lb/MWh
Metal total	2.8772E-04	1.5394E-03	5	0.001	lb/MWh
Antimony (Sb)	1.5764E-06	6.1877E-06	5	0.007	lb/GWh
Arsenic (As)	1.5272E-06	3.2409E-06	5	0.004	lb/GWh
Beryllium (Be)	2.7902E-07	6.1268E-07	5	0.0007	lb/GWh
Cadmium (Cd)	1.8487E-06	3.9961E-06	5	0.004	lb/GWh
Chromium (Cr)	7.2496E-06	1.7488E-05	5	0.02	lb/GWh
Cobalt (Co)	4.3110E-06	1.0409E-05	5	0.02	lb/GWh
Lead (Pb)	7.3055E-06	1.4667E-05	5	0.02	lb/GWh
Manganese (Mn)	1.6152E-05	3.9828E-05	5	0.04	lb/GWh
Nickel (Ni)	3.7272E-05	8.9585E-05	5	0.09	lb/GWh
Selenium (Se)	6.6314E-06	1.4259E-05	5	0.02	lb/GWh
Mercury	7.7914E-07	1.5004E-06	5	0.002	lb/GWh
Acid gases -- HCl	1.2880E-02	4.9772E-02	5	0.08	lb/MWh
Acid gases -- SO_2	2.2960E+00	4.5505E+00	5	5	lb/MWh

Table A-6. ***Subcategory 1 New Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	UPL (lb/GWh)	Floor value	Units
PM total	0.0291	0.0486	1		0.05	lb/MWh
Metal total	0.0000112	0.0000328	1		0.00004	lb/MWh
Antimony (Sb)	1.4520E-08	7.5786E-08	1	0.00007579	0.00008	lb/GWh
Arsenic (As)	1.0380E-07	1.6301E-07	1	0.00016301	0.0002	lb/GWh
Beryllium (Be)	1.7610E-08	2.2056E-08	1	0.00002206	0.00003	lb/GWh
Cadmium (Cd)	7.3840E-08	3.6937E-07	1	0.00036937	0.0004	lb/GWh
Chromium (Cr)	7.0643E-06	1.6896E-05	1	0.01689591	0.02	lb/GWh
Cobalt	1.3748E-07	7.1620E-07	1	0.00071620	0.0008	lb/GWh
Lead (Pb)	2.8082E-07	8.8201E-07	1	0.00088201	0.0009	lb/GWh
Manganese (Mn)	1.3326E-06	3.0511E-06	1	0.00305110	0.004	lb/GWh
Nickel (Ni)	1.0770E-06	3.1608E-06	1	0.00316076	0.004	lb/GWh
Selenium (Se)	2.4230E-05	2.4567E-05	1	0.02456713	0.03	lb/GWh
Mercury (Hg)	5.0036E-08	1.7324E-07	1	0.00017324	0.0002	lb/GWh
HCl	0.000113	0.000262	1	0.2615315	0.3	lb/GWh
SO_2	0.0912	0.3115	1		0.4	lb/MWh

Table A-7. ***Subcategory 2 New Sources- Summary of UPLs using emission averages***

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	UPL (lb/GWh)	Floor value	Units
PM total	0.0291	0.0486	1		0.05	lb/MWh
Metal total	0.0000112	0.0000328	1		0.00004	lb/MWh
Antimony (Sb)	1.4520E-08	7.5786E-08	1	0.00007579	0.00008	lb/GWh
Arsenic (As)	1.0380E-07	1.6301E-07	1	0.00016301	0.0002	lb/GWh
Beryllium (Be)	1.7610E-08	2.2056E-08	1	0.00002206	0.00003	lb/GWh
Cadmium (Cd)	7.3840E-08	3.6937E-07	1	0.00036937	0.0004	lb/GWh
Chromium (Cr)	7.0643E-06	1.6896E-05	1	0.01689591	0.02	lb/GWh
Cobalt	1.3748E-07	7.1620E-07	1	0.00071620	0.0008	lb/GWh
Lead (Pb)	2.8082E-07	8.8201E-07	1	0.00088201	0.0009	lb/GWh
Manganese (Mn)	1.3326E-06	3.0511E-06	1	0.00305110	0.004	lb/GWh
Nickel (Ni)	1.0770E-06	3.1608E-06	1	0.00316076	0.004	lb/GWh
Selenium (Se)	2.4230E-05	2.4567E-05	1	0.02456713	0.03	lb/GWh
Mercury (Hg)	1.0726E-05	3.4543E-05	1	0.03454321	0.04	lb/GWh
HCl	0.000113	0.000262	1	0.2615315	0.3	lb/GWh
SO_2	0.0912	0.3115	1		0.4	lb/MWh

Table A-8. ***Subcategory 3 New Sources- Summary of UPLs using emission averages***

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	UPL (lb/GWh)	Floor value	Units
PM total	1.3196E-01	2.8029E-01	1		0.3	lb/MWh
Metal total	1.1816E-05	2.0723E-05	1	0.02802911	0.03	lb/GWh
Antimony (Sb)	3.0816E-07	9.7937E-06	1	0.00979373	0.01	lb/GWh
Arsenic (As)	2.1773E-06	7.6135E-06	1	0.00761351	0.008	lb/GWh
Beryllium (Be)	3.5294E-08	8.8144E-08	1	0.00008814	0.00009	lb/GWh
Cadmium (Cd)	1.9817E-07	9.2605E-07	1	0.00092605	0.001	lb/GWh
Chromium (Cr)	5.4949E-06	2.5323E-05	1	0.02532338	0.03	lb/GWh
Cobalt	1.0539E-06	1.0424E-05	1	0.01042449	0.02	lb/GWh
Lead (Pb)	1.3735E-06	5.0260E-06	1	0.00502600	0.006	lb/GWh
Manganese (Mn)	3.9787E-06	1.4459E-05	1	0.01445885	0.02	lb/GWh
Nickel (Ni)	8.3114E-06	1.5724E-05	1	0.01572402	0.02	lb/GWh
Selenium (Se)	8.1373E-05	2.3874E-04	1	0.23874064	0.3	lb/GWh
Mercury (Hg)	2.3510E-06	1.8968E-05	1	0.01896797	0.02	lb/GWh
HCl	7.5945E-04	2.2425E-03	1		0.003	lb/MWh

Table A-9. ***Subcategory 4 New Sources-Summary of UPLs using emission averages***

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	Floor value	Units
Total Metals (including Mercury)	8.7795E-05	3.3172E-04	1	0.0004	lb/MWh
Antimony (Sb)	3.1152E-07	1.0740E-06	1	0.002	lb/GWh
Arsenic (As)	1.4986E-06	1.5529E-06	1	0.002	lb/GWh
Beryllium (Be)	2.2836E-07	6.7882E-07	1	0.0007	lb/GWh
Cadmium (Cd)	1.2994E-07	3.8828E-07	1	0.0004	lb/GWh
Chromium (Cr)	3.9709E-06	1.1692E-05	1	0.02	lb/GWh
Cobalt	1.1416E-06	5.7337E-06	1	0.006	lb/GWh
Lead (Pb)	1.2618E-06	5.3277E-06	1	0.006	lb/GWh
Manganese (Mn)	4.8608E-06	2.4490E-05	1	0.03	lb/GWh
Mercury (Hg)	6.4837E-08	9.3613E-08	1	0.0001	lb/GWh
Nickel (Ni)	1.1470E-05	3.7526E-05	1	0.04	lb/GWh
Selenium (Se)	2.5693E-06	3.8753E-06	1	0.004	lb/GWh
Acid gases -- HCl	1.5213E-04	4.4745E-04	1	0.0005	lb/MWh
Acid gases -- HF	1.5661E-04	4.6087E-04	1	0.0005	lb/MWh

Table A-10. ***Subcategory 5 New Sources - Summary of UPLs using emission averages***

Pollutant	Mean (lb/MW)	UPL (lb/MW)	Number of units in the floor	Floor value	Units
PM	3.3626E-02	4.0713E-02	1	0.05	lb/MWh
Total Metals	7.8445E-05	1.7816E-04	1	0.2	lb/GWh
Antimony (Sb)	2.1008E-07	8.4167E-07	1	0.0009	lb/GWh
Arsenic (As)	4.8046E-07	1.2775E-06	1	0.002	lb/GWh
Beryllium (Be)	6.7508E-08	7.0105E-08	1	0.00008	lb/GWh
Cadmium (Cd)	2.3972E-07	6.2101E-07	1	0.007	lb/GWh
Chromium (Cr)	1.2450E-06	5.9693E-06	1	0.006	lb/GWh
Cobalt (Co)	6.3762E-07	1.5659E-06	1	0.002	lb/GWh
Lead (Pb)	3.9369E-06	1.3036E-05	1	0.02	lb/GWh
Manganese (Mn)	1.6067E-06	6.1877E-06	1	0.007	lb/GWh
Nickel (Ni)	1.9944E-06	6.3292E-06	1	0.007	lb/GWh
Selenium (Se)	7.0615E-07	8.2187E-07	1	0.0009	lb/GWh
Mercury	6.6061E-07	1.1126E-06	1	0.002	lb/GWh
Acid gases -- HCl	2.1559E-04	2.7169E-04	1	0.3	lb/GWh
Acid gases -- SO_2	2.4601E-01	3.6175E-01	1	0.4	lb/MWh

Attachment B: Ranked Emission Data for MACT Floor Analysis
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Table B-1. ***Subcategory 1 and Subcategory 2 Existing Sources Total PM Floor Data Averages (lb/MMBtu)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Bonanza Power Plant	7790	1-1	8.6037E-06
2	Dunkirk Generating Plant	2554	1	2.8211E-03
3	Martin Drake	492	Unit 5 - Coal	3.0755E-03
4	Bridgeport Station	568	BHSEMU3OS3-#2	3.2963E-03
5	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	3.4217E-03
6	Springerville	8223	4	3.7344E-03
7	Havana	891	Boiler 9	3.8254E-03
8	Dunkirk Generating Plant	2554	4	3.8498E-03
9	J K Spruce	7097	1	3.8651E-03
10	Reid Gardner	2324	1	4.3292E-03
11	San Juan	2451	Unit 3	4.3628E-03
12	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	4.9481E-03
13	Dallman	963	34	5.0000E-03
14	Walter Scott Jr. Energy Center	1082	4	5.0613E-03
15	Weston	4078	W4	5.2819E-03
16	Clover	7213	Unit 2	5.3145E-03
17	Gerald Gentleman	6077	U1	5.4900E-03
18	AES Hawaii	10673	001	5.7893E-03
19	Crist	641	Unit 4	5.8071E-03
20	Crist	641	Unit 5	5.8071E-03
21	Crist	641	Unit 7	5.8071E-03
22	Crist	641	Unit 6	5.8071E-03
23	TransAlta Centralia Generation	3845	BW21CONFIG	5.9300E-03
24	H L Spurlock Station	6041	Unit 03	6.0000E-03
25	Hammond	708	Unit 4	6.0665E-03
26	Hammond	708	Unit 1	6.0665E-03
27	Hammond	708	Unit 2	6.0665E-03
28	Hammond	708	Unit 3	6.0665E-03
29	North Valmy	8224	1	6.1667E-03
30	San Juan	2451	Unit 4	6.2635E-03
31	Duck Creek	6016	001	6.4089E-03
32	Whelan Energy Center Unit 1 (WEC1)	60	1	6.5607E-03
33	J T Deely	6181	1	6.6667E-03
34	J T Deely	6181	2	6.6667E-03
35	Sheldon Station	2277	U2	6.7358E-03
36	South Oak Creek	4041	OCPP-B7	6.9450E-03
37	Craig	6021	C2	6.9811E-03
38	Reid Gardner	2324	4	7.0000E-03
39	Sunnyside Cogen Associates	50951	Config 1	7.2511E-03

Table B-1 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
40	Brandon Shores	602	002	7.3544E-03
41	Cholla	113	004	7.3933E-03
42	Martin Drake	492	Unit 7 - Coal	7.4885E-03
43	Herbert A. Wagner	1554	002	7.4980E-03
44	AES Hawaii	10673	002	7.6998E-03
45	Martin Drake	492	Unit 6 - Coal	7.7020E-03
46	G G Allen	2718	3-2009-FGDIN	7.8232E-03
47	G G Allen	2718	4-2009-FGDIN	7.8232E-03
48	H L Spurlock Station	6041	Unit 04	7.9433E-03
49	Seward	3130	SEW-2	8.1333E-03
50	Seward	3130	SEW-1	8.1333E-03
51	San Juan	2451	Unit 1	8.1633E-03
52	Pulliam	4072	8	8.1938E-03
53	New Castle Plant	3138	NC4-2	8.5397E-03
54	Hawthorn	2079	5A	8.6910E-03
55	Panther Creek Energy Facility	50776	BG2	8.7817E-03
56	Panther Creek Energy Facility	50776	BG1	8.7817E-03
57	San Juan	2451	Unit 2	8.7986E-03
58	Cholla	113	003	8.8514E-03
59	Valley	4042	VAPP-B4	9.1246E-03
60	Craig	6021	C1	9.1787E-03
61	Sheldon Station	2277	U1	9.1890E-03
62	TransAlta Centralia Generation	3845	BW22CONFIG	9.3056E-03
63	James H. Miller Jr.	6002	Unit 4	9.4048E-03
64	Asheville Steam Electric Plant	2706	Ash_Cfg_2	9.4678E-03
65	AES Shady Point,LLC	10671	Unit 1	1.0199E-02
66	AES Shady Point,LLC	10671	Unit 2	1.0199E-02
67	Piney Creek Project	54144	BRBRI	1.0218E-02
68	Spruance Genco, LLC	54081	GEN2	1.0512E-02
69	Big Stone	6098	001	1.0601E-02
70	Neil Simpson II	7504	NS2Cfg	1.0656E-02
71	Eastlake	2837	Unit 1	1.0746E-02
72	Potomac River	3788	3	1.1000E-02
73	Ray D Nixon	8219	Unit 1	1.1257E-02
74	Weston	4078	W3	1.1679E-02
75	La Cygne	1241	2	1.1846E-02
76	Taconite Harbor Energy Center	10075	THEC2	1.1873E-02
77	Clifty Creek	983	Unit 3	1.1900E-02
78	Clifty Creek	983	Unit 1	1.1900E-02
79	Clifty Creek	983	Unit 2	1.1900E-02

Table B-1 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
80	Asheville Steam Electric Plant	2706	Ash_Cfg_1d	1.1976E-02
81	H L Spurlock Station	6041	Unit 01	1.2125E-02
82	Foster Wheeler Mt Carmel Cogen	10343	SG-101	1.2167E-02
83	Craig	6021	C3	1.2533E-02
84	Reid Gardner	2324	3	1.3047E-02
85	Louisa	6664	101	1.3458E-02
86	Cross	130	C1	1.3590E-02
87	Gibson	6113	2-2007-FGDIN	1.3763E-02
88	Sandow Station	52071	5B	1.3849E-02
89	South Oak Creek	4041	OCPP-B8	1.3932E-02
90	Reid Gardner	2324	2	1.4090E-02
91	Consumers Energy - J.H. Campbell	1710	JHC1-Conf	1.4097E-02
92	Consumers Energy - J.H. Campbell	1710	JHC2-Conf	1.4097E-02
93	TS Power Plant	56224	TSPower	1.4167E-02
94	Valley	4042	VAPP-B3	1.4196E-02
95	Valley	4042	VAPP-B2	1.4426E-02
96	Pleasant Prairie	6170	PPPPB2	1.4584E-02
97	North Valmy	8224	2	1.4967E-02
98	New Castle Plant	3138	NC3-2	1.5000E-02
99	Newton	6017	002	1.5254E-02
100	Eddystone Generating Station	3161	Unit 2	1.5836E-02
101	Oak Grove	6180	OG1	1.5961E-02
102	Rawhide	6761	Rawhide101	1.6452E-02
103	Gibson	6113	1-2007-FGDIN	1.6690E-02
104	Conemaugh	3118	CON-1	1.6800E-02
105	Eastlake	2837	Unit 3	1.6945E-02
106	Potomac River	3788	2	1.7000E-02
107	Scholz	642	Unit 1	1.7536E-02
108	AES Warrior Run Cogeneration Facility	10678	BLR1	1.8006E-02
109	Erickson Station	1832	001	1.8122E-02
110	Sioux	2107	002	1.8634E-02
111	Niles Plant	2861	N2-1	1.8667E-02
112	Shawville	3131	SHAW3-1	1.8977E-02
113	Shawville	3131	SHAW4-1	1.8977E-02
114	Cross	130	C3	1.9967E-02
115	Niles Plant	2861	N1-1	2.0000E-02
116	Gerald Gentleman	6077	U2	2.0338E-02
117	Wygen 1	55479	WYG1Cfg	2.0427E-02
118	R D Green	6639	2	2.0748E-02
119	Endicott Station	4259	1	2.1667E-02

Table B-1 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
120	Colbert	47	3	2.2383E-02
121	PPL Montour	3149	U1	2.3565E-02
122	Cane Run	1363	CR5	2.4170E-02
123	Northampton Generating Company, L.P.	50888	GEN1	2.4428E-02
124	Valley	4042	VAPP-B1	2.4478E-02
125	Stanton Energy Center	564	2 coal	2.4650E-02
126	Grant Town Power Plant	10151	GEN1	2.4756E-02
127	Sandow Station	52071	5A	2.4959E-02
128	Joppa Steam	887	1	2.5357E-02
129	PPL Montour	3149	U2	2.5464E-02
130	Avon Lake	2836	AL12-2	2.5667E-02
131	Dale Station	1385	03	2.5670E-02

Table B-2. ***Subcategory 1 and Subcategory 2 Existing Sources Total PM Floor Data Averages (lb/MW)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Bonanza Power Plant	7790	1-1	8.7266E-05
2	AES Hawaii	10673	001	2.9129E-02
3	Dunkirk Generating Plant	2554	1	3.0608E-02
4	Martin Drake	492	Unit 5 - Coal	3.1874E-02
5	Bridgeport Station	568	BHSEMU3OS3-#2	3.3535E-02
6	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	3.3550E-02
7	Springerville	8223	4	3.4854E-02
8	AES Hawaii	10673	002	3.5814E-02
9	Dunkirk Generating Plant	2554	4	3.6247E-02
10	Havana	891	Boiler 9	4.0004E-02
11	Dallman	963	34	4.1955E-02
12	J K Spruce	7097	1	4.2389E-02
13	Walter Scott Jr. Energy Center	1082	4	4.5701E-02
14	San Juan	2451	Unit 3	4.6179E-02
15	Reid Gardner	2324	1	4.7387E-02
16	Weston	4078	W4	4.7561E-02
17	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	4.8260E-02
18	H L Spurlock Station	6041	Unit 03	5.0000E-02
19	Gerald Gentleman	6077	U1	5.7879E-02
20	Crist	641	Unit 5	5.7917E-02
21	Crist	641	Unit 6	5.7950E-02
22	Hammond	708	Unit 2	6.0034E-02
23	Hammond	708	Unit 3	6.0211E-02
24	Hammond	708	Unit 1	6.1127E-02
25	Crist	641	Unit 7	6.1320E-02
26	Crist	641	Unit 4	6.1529E-02
27	Clover	7213	Unit 2	6.1728E-02
28	G G Allen	2718	3-2009-FGDIN	6.1919E-02
29	South Oak Creek	4041	OCPP-B7	6.2092E-02
30	G G Allen	2718	4-2009-FGDIN	6.2628E-02
31	J T Deely	6181	1	6.2978E-02
32	J T Deely	6181	2	6.2978E-02
33	Hammond	708	Unit 4	6.3682E-02
34	North Valmy	8224	1	6.4832E-02
35	San Juan	2451	Unit 4	6.5041E-02
36	Craig	6021	C2	6.5356E-02
37	Whelan Energy Center Unit 1 (WEC1)	60	1	6.6322E-02
38	Brandon Shores	602	002	7.1412E-02

Table B-2 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Duck Creek	6016	001	7.2101E-02
40	Sheldon Station	2277	U2	7.2326E-02
41	Reid Gardner	2324	4	7.3637E-02
42	H L Spurlock Station	6041	Unit 04	7.4138E-02
43	Cholla	113	004	7.4246E-02
44	TransAlta Centralia Generation	3845	BW21CONFIG	7.6145E-02
45	New Castle Plant	3138	NC4-2	7.6782E-02
46	Herbert A. Wagner	1554	002	7.6945E-02
47	Martin Drake	492	Unit 7 - Coal	7.8337E-02
48	Craig	6021	C1	8.1078E-02
49	San Juan	2451	Unit 1	8.1787E-02
50	Martin Drake	492	Unit 6 - Coal	8.4269E-02
51	Sunnyside Cogen Associates	50951	Config 1	8.4597E-02
52	Cholla	113	003	8.5002E-02
53	Seward	3130	SEW-2	8.6199E-02
54	Seward	3130	SEW-1	8.6199E-02
55	San Juan	2451	Unit 2	8.7700E-02
56	Asheville Steam Electric Plant	2706	Ash_Cfg_2	8.8273E-02
57	Pulliam	4072	8	8.9721E-02
58	Eastlake	2837	Unit 1	8.9922E-02
59	James H. Miller Jr.	6002	Unit 4	9.0751E-02
60	Hawthorn	2079	5A	9.6567E-02
61	Potomac River	3788	3	9.7880E-02
62	Sheldon Station	2277	U1	9.8638E-02
63	Ray D Nixon	8219	Unit 1	1.0481E-01
64	Craig	6021	C3	1.0813E-01
65	Weston	4078	W3	1.0936E-01
66	Valley	4042	VAPP-B4	1.1000E-01
67	Asheville Steam Electric Plant	2706	Ash_Cfg_1d	1.1074E-01
68	Panther Creek Energy Facility	50776	BG2	1.1331E-01
69	Panther Creek Energy Facility	50776	BG1	1.1331E-01
70	Big Stone	6098	001	1.1369E-01
71	TS Power Plant	56224	TSPower	1.2364E-01
72	Clifty Creek	983	Unit 3	1.2364E-01
73	Clifty Creek	983	Unit 2	1.2438E-01
74	South Oak Creek	4041	OCPP-B8	1.2456E-01
75	TransAlta Centralia Generation	3845	BW22CONFIG	1.2708E-01
76	AES Shady Point,LLC	10671	Unit 1	1.2762E-01
77	AES Shady Point,LLC	10671	Unit 2	1.2762E-01
78	Clifty Creek	983	Unit 1	1.2763E-01

Table B-2 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Piney Creek Project	54144	BRBRI	1.2772E-01
80	Consumers Energy - J.H. Campbell	1710	JHC2-Conf	1.2785E-01
81	H L Spurlock Station	6041	Unit 01	1.2833E-01
82	Eddystone Generating Station	3161	Unit 2	1.3117E-01
83	Consumers Energy - J.H. Campbell	1710	JHC1-Conf	1.3176E-01
84	La Cygne	1241	2	1.3316E-01
85	Neil Simpson II	7504	NS2Cfg	1.3320E-01
86	Gibson	6113	2-2007-FGDIN	1.3417E-01
87	Newton	6017	002	1.3531E-01
88	Taconite Harbor Energy Center	10075	THEC2	1.3687E-01
89	Spruance Genco, LLC	54081	GEN2	1.3735E-01
90	Eastlake	2837	Unit 3	1.4180E-01
91	Foster Wheeler Mt Carmel Cogen	10343	SG-101	1.4289E-01
92	Louisa	6664	101	1.4418E-01
93	Cross	130	C1	1.4486E-01
94	Pleasant Prairie	6170	PPPPB2	1.4492E-01
95	Sandow Station	52071	5B	1.4519E-01
96	Reid Gardner	2324	3	1.4539E-01
97	Rawhide	6761	Rawhide101	1.5103E-01
98	Reid Gardner	2324	2	1.5423E-01
99	New Castle Plant	3138	NC3-2	1.5689E-01
100	North Valmy	8224	2	1.5958E-01
101	Gibson	6113	1-2007-FGDIN	1.6078E-01
102	Conemaugh	3118	CON-1	1.6127E-01
103	Valley	4042	VAPP-B3	1.7114E-01
104	Valley	4042	VAPP-B2	1.7392E-01
105	Sioux	2107	002	1.7496E-01
106	Oak Grove	6180	OG1	1.7524E-01
107	Grant Town Power Plant	10151	GEN1	1.7590E-01
108	Potomac River	3788	2	1.7731E-01
109	Shawville	3131	SHAW3-1	1.8108E-01
110	Shawville	3131	SHAW4-1	1.8108E-01
111	AES Warrior Run Cogeneration Facility	10678	BLR1	1.8246E-01
112	Erickson Station	1832	001	1.8319E-01
113	Niles Plant	2861	N2-1	1.8484E-01
114	Cross	130	C3	1.9353E-01
115	Niles Plant	2861	N1-1	1.9804E-01
116	Gerald Gentleman	6077	U2	2.0441E-01
117	Scholz	642	Unit 1	2.0796E-01
118	PPL Montour	3149	U1	2.1404E-01

Table B-2 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Scrubgrass Generating Company L.P.	50974	Gen 1	2.1768E-01
120	Endicott Station	4259	1	2.2281E-01
121	Stanton Energy Center	564	2 coal	2.2575E-01
122	Northampton Generating Company, L.P.	50888	GEN1	2.3136E-01
123	PPL Montour	3149	U2	2.3274E-01
124	Wygen 1	55479	WYG1Cfg	2.3637E-01
125	R D Green	6639	2	2.3671E-01
126	Colbert	47	3	2.3737E-01
127	Colstrip	6076	Unit3	2.4357E-01
128	Avon Lake	2836	AL12-2	2.4840E-01
129	Joppa Steam	887	1	2.4901E-01
130	Eddystone Generating Station	3161	Unit 1	2.5204E-01
131	Armstrong Power Station	3178	Unit 2	2.5220E-01

Table B-3. ***Subcategory 1 and Subcategory 2 Existing Sources Total HAP Metals Floor Data Averages (lb/MMBtu)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Chambers Cogeneration LP	Boil 2	10566	1.3271E-06
2	Weston	W4	4078	1.5008E-06
3	Rawhide	Rawhide101	6761	1.5146E-06
4	Logan Generating Plant	Unit1	10043	1.6352E-06
5	Northampton Generating Company, L.P.	GEN1	50888	1.8194E-06
6	Wygen 1	WYG1Cfg	55479	2.0280E-06
7	AES Shady Point,LLC	Unit 1	10671	2.0991E-06
8	AES Shady Point,LLC	Unit 2	10671	2.0991E-06
9	Havana	Boiler 9	891	2.1492E-06
10	Martin Drake	Unit 5 - Coal	492	2.2076E-06
11	Reid Gardner	1	2324	2.3277E-06
12	Neil Simpson II	NS2Cfg	7504	2.6873E-06
13	Cedar Bay Generating Company L.P.	CBA1	10672	2.9424E-06
14	Cedar Bay Generating Company L.P.	CBB1	10672	3.4357E-06
15	TransAlta Centralia Generation	BW21CONFIG	3845	3.4470E-06
16	R D Green	2	6639	3.6290E-06
17	J K Spruce	1	7097	3.7213E-06
18	AES Warrior Run Cogeneration Facility	BLR1	10678	3.9494E-06
19	Chambers Cogeneration LP	Boil 1	10566	3.9895E-06
20	TransAlta Centralia Generation	BW22CONFIG	3845	4.1951E-06
21	Hayden	Unit 1	525	4.2327E-06
22	Springerville	4	8223	4.3890E-06
23	Sunnyside Cogen Associates	Config 1	50951	4.4551E-06
24	Hayden	Unit 2	525	4.8513E-06
25	Gerald Gentleman	U1	6077	4.9356E-06
26	Comanche	Unit 2	470	5.2450E-06
27	AES Hawaii	002	10673	5.3310E-06
28	Spruance Genco, LLC	GEN1	54081	5.4711E-06
29	Sheldon Station	U1	2277	5.5310E-06
30	Gerald Gentleman	U2	6077	5.5692E-06
31	Dunkirk Generating Plant	1	2554	5.9302E-06
32	Bridgeport Station	BHSEMU3OS3-#2	568	6.1301E-06
33	Whelan Energy Center Unit 1 (WEC1)	1	60	6.2112E-06
34	Martin Drake	Unit 7 - Coal	492	6.2811E-06
35	Dunkirk Generating Plant	4	2554	6.4023E-06
36	San Juan	Unit 3	2451	6.4840E-06
37	Southampton Power Station	Unit 1 & 2	10774	6.5102E-06
38	Spruance Genco, LLC	GEN2	54081	6.5928E-06

Table B-3 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Sheldon Station	U2	2277	6.6976E-06
40	Silver Bay Power	GEN1	10849	6.7353E-06
41	Sandow Station	5B	52071	7.2494E-06
42	Sandow Station	5A	52071	7.3264E-06
43	Indiantown Cogeneration L.P.	001	50976	7.3460E-06
44	Elm Road Generating Station	ERGS-B1	56068	7.5476E-06
45	Springerville	3	8223	7.6038E-06
46	Wygen 2	WYG2Cfg	56319	7.6949E-06
47	Dallman	34	963	7.8418E-06
48	Spruance Genco, LLC	GEN4	54081	7.8870E-06
49	Hawthorn	5A	2079	7.9891E-06
50	San Juan	Unit 2	2451	8.1335E-06
51	South Oak Creek	OCPP-B7	4041	8.2178E-06
52	James River Cogeneration Co	UNIT2	10377	8.3599E-06
53	Cedar Bay Generating Company L.P.	CBC1	10672	8.4995E-06
54	Panther Creek Energy Facility	BG2	50776	8.6932E-06
55	Panther Creek Energy Facility	BG1	50776	8.6932E-06
56	Nebraska City	NC2	6096	8.8555E-06
57	TS Power Plant	TSPower	56224	9.0661E-06
58	Brandon Shores	002	602	9.2764E-06
59	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	9.6107E-06
60	San Juan	Unit 4	2451	9.6577E-06
61	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	9.9718E-06
62	Morgantown Energy Facility	Unit 1&2	10743	1.0112E-05
63	AES Puerto Rico Cogeneration Facility	Unit_1	68029	1.0121E-05
64	H L Spurlock Station	Unit 04	6041	1.0221E-05
65	Cholla	003	113	1.0279E-05
66	Welsh	WE-1	6139	1.0325E-05
67	Birchwood Power Facility	1A	54304	1.0998E-05
68	Hennepin Power Station	001	892	1.1779E-05
69	Hennepin Power Station	002	892	1.1779E-05
70	Spruance Genco, LLC	GEN3	54081	1.2178E-05
71	Duck Creek	001	6016	1.2669E-05
72	San Juan	Unit 1	2451	1.3760E-05
73	Erickson Station	001	1832	1.4139E-05
74	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	1.4483E-05
75	Twin Oaks Power One	U2	7030	1.4648E-05
76	Piney Creek Project	BRBRI	54144	1.5061E-05
77	AES Puerto Rico Cogeneration Facility	Unit_2	68029	1.5187E-05
78	Hopewell	1 & 2	10771	1.5337E-05

Table B-3 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Cholla	004	113	1.5340E-05
80	Hardin Generator Project	PC1	55749	1.5567E-05
81	AES Hawaii	001	10673	1.5582E-05
82	Taconite Harbor Energy Center	THEC2	10075	1.6069E-05
83	J T Deely	2	6181	1.7213E-05
84	J T Deely	1	6181	1.7213E-05
85	Taconite Harbor Energy Center	THEC1	10075	1.7853E-05
86	PPL Montour	U2	3149	1.7926E-05
87	Sibley	1	2094	1.7942E-05
88	Sibley	2	2094	1.7942E-05
89	Sibley	3	2094	1.7942E-05
90	La Cygne	2	1241	1.8245E-05
91	Crist	Unit 4	641	1.8424E-05
92	Crist	Unit 5	641	1.8424E-05
93	Crist	Unit 7	641	1.8424E-05
94	Crist	Unit 6	641	1.8424E-05
95	Clinch River	CR-1	3775	1.8894E-05
96	Weston	W3	4078	1.9218E-05
97	Seward	SEW-1	3130	1.9616E-05
98	Seward	SEW-2	3130	1.9616E-05
99	James H. Miller Jr.	Unit 4	6002	1.9894E-05
100	Ebensburg Power Company	EPC01	10603	2.0806E-05
101	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	2.2156E-05
102	Grant Town Power Plant	GEN1	10151	2.2461E-05
103	Will County	WC4CONFIG	884	2.2542E-05
104	Sioux	002	2107	2.3198E-05
105	Oak Grove	OG1	6180	2.3701E-05
106	Louisa	101	6664	2.4885E-05
107	Cope	COP001	7210	2.6137E-05
108	Joppa Steam	1	887	2.6240E-05
109	Lawrence Energy Center	3	1250	2.6638E-05
110	H L Spurlock Station	Unit 01	6041	2.6680E-05
111	PPL Montour	U1	3149	2.7890E-05
112	Craig	C2	6021	2.8340E-05
113	Hammond	Unit 1	708	2.8996E-05
114	Hammond	Unit 2	708	2.8996E-05
115	Hammond	Unit 3	708	2.8996E-05
116	Hammond	Unit 4	708	2.8996E-05
117	H L Spurlock Station	Unit 03	6041	2.9167E-05
118	Tanners Creek	TC-4	988	2.9361E-05

Table B-3 ***(continued)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Meredosia	005	864	2.9533E-05
120	Eastlake	Unit 1	2837	3.0039E-05
121	Muscatine #1	8	1167	3.0190E-05
122	State Line	Unit 3	981	3.0413E-05
123	Newton	002	6017	3.1038E-05
124	Colver Power Project	AAB01	10143	3.2508E-05
125	Clover	Unit 1	7213	3.3152E-05
126	Quindaro	Unit 2	1295	3.4085E-05
127	RS Nelson	001	1393	3.4720E-05
128	Joliet 9	JOL5 CONFIG	874	3.4826E-05
129	G G Allen	3-2009-FGDIN	2718	3.5460E-05
130	G G Allen	4-2009-FGDIN	2718	3.5460E-05
131	Clover	Unit 2	7213	3.5680E-05

Table B-4. ***Subcategory 1 and Subcategory 2 Existing Sources Antimony (Sb) Floor Emission Data (lb/MMBtu)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	AES Hawaii	10673	002	3.1217E-09
2	AES Hawaii	10673	001	5.6256E-09
3	Reid Gardner	2324	1	9.8044E-09
4	AES Warrior Run Cogeneration Facility	10678	BLR1	1.4421E-08
5	Wygen 1	55479	WYG1Cfg	1.6214E-08
6	Logan Generating Plant	10043	Unit1	1.7596E-08
7	Neil Simpson II	7504	NS2Cfg	1.9772E-08
8	Chambers Cogeneration LP	10566	Boil 1	1.9832E-08
9	Chambers Cogeneration LP	10566	Boil 2	2.0061E-08
10	AES Shady Point,LLC	10671	Unit 1	2.4209E-08
11	AES Shady Point,LLC	10671	Unit 2	2.4209E-08
12	Martin Drake	492	Unit 7 - Coal	3.0371E-08
13	Cedar Bay Generating Company L.P.	10672	CBA1	3.1881E-08
14	Cedar Bay Generating Company L.P.	10672	CBB1	3.3652E-08
15	Havana	891	Boiler 9	3.7518E-08
16	Cholla	113	004	4.0403E-08
17	R D Green	6639	2	4.1382E-08
18	Martin Drake	492	Unit 5 - Coal	4.3434E-08
19	Eastlake	2837	Unit 3	4.5696E-08
20	San Juan	2451	Unit 2	4.6294E-08
21	Cholla	113	003	4.6798E-08
22	Rawhide	6761	Rawhide101	4.9819E-08
23	Weston	4078	W4	5.0290E-08
24	Silver Bay Power	10849	GEN1	5.4390E-08
25	G G Allen	2718	3-2009-FGDIN	6.1903E-08
26	G G Allen	2718	4-2009-FGDIN	6.1903E-08
27	Bridgeport Station	568	BHSEMU3OS3-#2	6.5281E-08
28	Asheville Steam Electric Plant	2706	Ash_Cfg_1d	6.9085E-08
29	Hayden	525	Unit 1	7.0754E-08
30	San Juan	2451	Unit 3	7.1528E-08
31	Cedar Bay Generating Company L.P.	10672	CBC1	7.7604E-08
32	Oak Grove	6180	OG1	7.8700E-08
33	Southampton Power Station	10774	Unit 1 & 2	8.8666E-08
34	Pulliam	4072	8	9.1873E-08
35	Spruance Genco, LLC	54081	GEN2	9.3751E-08
36	Sunnyside Cogen Associates	50951	Config 1	9.4160E-08
37	W H Zimmer	6019	1	9.8722E-08

Table B-4 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Wygen 2	56319	WYG2Cfg	9.9986E-08
39	Clover	7213	Unit 1	1.0641E-07
40	San Juan	2451	Unit 4	1.0782E-07
41	San Juan	2451	Unit 1	1.0907E-07
42	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	1.1190E-07
43	Ebensburg Power Company	10603	EPC01	1.1600E-07
44	Northampton Generating Company, L.P.	50888	GEN1	1.1901E-07
45	TransAlta Centralia Generation	3845	BW21CONFIG	1.1968E-07
46	Hayden	525	Unit 2	1.2161E-07
47	Weston	4078	W3	1.2397E-07
48	Welsh	6139	WE-1	1.2883E-07
49	Clover	7213	Unit 2	1.2914E-07
50	James River Cogeneration Co	10377	UNIT2	1.3169E-07
51	Roanoke Valley II	54755	Boiler 2	1.4130E-07
52	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	1.4182E-07
53	East Bend Station	6018	2	1.5002E-07
54	Salem Harbor	1626	Unit 1	1.5016E-07
55	Newton	6017	002	1.5085E-07
56	TransAlta Centralia Generation	3845	BW22CONFIG	1.5145E-07
57	Cross	130	C3	1.5579E-07
58	Meredosia	864	005	1.6038E-07
59	Asheville Steam Electric Plant	2706	Ash_Cfg_2	1.6272E-07
60	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	1.6315E-07
61	Cope	7210	COP001	1.6521E-07
62	Elm Road Generating Station	56068	ERGS-B1	1.6536E-07
63	Marion Generating Station	976	123	1.7911E-07
64	State Line	981	Unit 3	1.8522E-07
65	Cross	130	C4	1.8960E-07
66	TS Power Plant	56224	TSPower	1.9396E-07
67	Birchwood Power Facility	54304	1A	1.9686E-07
68	Hatfield's Ferry Power Station	3179	001	2.0169E-07
69	Gibson	6113	2-2007-FGDIN	2.0858E-07
70	Hopewell	10771	1 & 2	2.1352E-07
71	Gibson	6113	1-2007-FGDIN	2.2318E-07
72	Red Hills Generating Facility	55076	002	2.2331E-07
73	Red Hills Generating Facility	55076	001	2.2331E-07
74	Springerville	8223	4	2.2831E-07
75	Hammond	708	Unit 2	2.3360E-07
76	Hammond	708	Unit 3	2.3360E-07
77	Hammond	708	Unit 1	2.3360E-07

Table B-4 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	Hammond	708	Unit 4	2.3360E-07
79	Panther Creek Energy Facility	50776	BG2	2.3589E-07
80	Panther Creek Energy Facility	50776	BG1	2.3589E-07
81	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	2.3767E-07
82	Indiantown Cogeneration L.P.	50976	001	2.4107E-07
83	Sibley	2094	3	2.4313E-07
84	Sibley	2094	1	2.4313E-07
85	Sibley	2094	2	2.4313E-07
86	J K Spruce	7097	1	2.4634E-07
87	Joppa Steam	887	1	2.4788E-07
88	Erickson Station	1832	001	2.5109E-07
89	Brandon Shores	602	002	2.5777E-07
90	Spruance Genco, LLC	54081	GEN4	2.6856E-07
91	Cross	130	C1	2.6912E-07
92	R.M. Schahfer	6085	R.M.0014	2.9433E-07
93	Colbert	47	3	3.0294E-07
94	H L Spurlock Station	6041	Unit 03	3.0801E-07
95	Cambria Cogen	10641	001	3.0880E-07
96	Seward	3130	SEW-1	3.1058E-07
97	Seward	3130	SEW-2	3.1058E-07
98	Spruance Genco, LLC	54081	GEN3	3.2026E-07
99	Duck Creek	6016	001	3.2433E-07
100	Mecklenburg Power Station	52007	Unit 1 & 2	3.3153E-07
101	AES Puerto Rico Cogeneration Facility	68029	Unit_1	3.4520E-07
102	Clinch River	3775	CR-1	3.5266E-07
103	Dallman	963	34	3.6033E-07
104	Nebraska City	6096	NC2	3.6233E-07
105	H L Spurlock Station	6041	Unit 01	3.7049E-07
106	AES Puerto Rico Cogeneration Facility	68029	Unit_2	3.7122E-07
107	Whelan Energy Center Unit 1 (WEC1)	60	1	3.7270E-07
108	Comanche	470	Unit 2	3.7311E-07
109	Springerville	8223	3	3.7547E-07
110	H L Spurlock Station	6041	Unit 04	3.7910E-07
111	Stanton Energy Center	564	2 coal	3.8423E-07
112	James H. Miller Jr.	6002	Unit 4	3.8501E-07
113	Cambria Cogen	10641	002	3.8659E-07
114	Lawrence Energy Center	1250	3	3.9486E-07
115	Hennepin Power Station	892	001	3.9839E-07
116	Hennepin Power Station	892	002	3.9839E-07
117	Coal Creek	6030	Unit 1b	4.0000E-07

Table B-4 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Cardinal	2828	CD-U3	4.0498E-07
119	Roanoke Valley I	54035	Boiler 1	4.0700E-07
120	Albright Power Station	3942	Unit_2	4.1519E-07
121	Gallatin	3403	2	4.4167E-07
122	Dunkirk Generating Plant	2554	1	4.5962E-07
123	Craig	6021	C2	4.7036E-07
124	Gerald Gentleman	6077	U1	4.7094E-07
125	South Oak Creek	4041	OCPP-B7	4.7950E-07
126	A. B. Brown Generating Station	6137	1Config	4.9190E-07
127	Crist	641	Unit 5	4.9257E-07
128	Crist	641	Unit 6	4.9257E-07
129	Crist	641	Unit 7	4.9257E-07
130	Crist	641	Unit 4	4.9257E-07
131	Hawthorn	2079	5A	4.9685E-07

Table B-5. ***Subcategory 1 and 2 Existing Sources***
Antimony (Sb) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	AES Hawaii	002	10673	1.4520E-08
2	AES Hawaii	001	10673	2.8305E-08
3	Chambers Cogeneration LP	Boil 1	10566	9.6515E-08
4	Chambers Cogeneration LP	Boil 2	10566	9.7629E-08
5	Reid Gardner	1	2324	1.0732E-07
6	Cedar Bay Generating Company L.P.	CBA1	10672	1.2104E-07
7	Cedar Bay Generating Company L.P.	CBB1	10672	1.2776E-07
8	AES Warrior Run Cogeneration Facility	BLR1	10678	1.4614E-07
9	Logan Generating Plant	Unit1	10043	1.5405E-07
10	Wygen 1	WYG1Cfg	55479	1.8762E-07
11	Neil Simpson II	NS2Cfg	7504	2.4714E-07
12	Cedar Bay Generating Company L.P.	CBC1	10672	2.9462E-07
13	AES Shady Point,LLC	Unit 1	10671	3.0292E-07
14	AES Shady Point,LLC	Unit 2	10671	3.0292E-07
15	Martin Drake	Unit 7 - Coal	492	3.1771E-07
16	Eastlake	Unit 3	2837	3.8238E-07
17	Havana	Boiler 9	891	3.9234E-07
18	Cholla	004	113	4.0574E-07
19	Cholla	003	113	4.4941E-07
20	Silver Bay Power	GEN1	10849	4.4952E-07
21	Martin Drake	Unit 5 - Coal	492	4.5013E-07
22	Weston	W4	4078	4.5283E-07
23	Rawhide	Rawhide101	6761	4.5736E-07
24	San Juan	Unit 2	2451	4.6143E-07
25	R D Green	2	6639	4.7210E-07
26	G G Allen	3-2009-FGDIN	2718	4.8995E-07
27	G G Allen	4-2009-FGDIN	2718	4.9556E-07
28	Southampton Power Station	Unit 1 & 2	10774	5.7959E-07
29	Asheville Steam Electric Plant	Ash_Cfg_1d	2706	6.3878E-07
30	Bridgeport Station	BHSEMU3OS3-#2	568	6.6415E-07
31	Hayden	Unit 1	525	6.8758E-07
32	San Juan	Unit 3	2451	7.5710E-07
33	Oak Grove	OG1	6180	8.6406E-07
34	W H Zimmer	1	6019	8.8738E-07
35	Pulliam	8	4072	1.0060E-06
36	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	1.0914E-06
37	San Juan	Unit 1	2451	1.0928E-06

Table B-5 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Sunnyside Cogen Associates	Config 1	50951	1.0985E-06
39	San Juan	Unit 4	2451	1.1197E-06
40	Northampton Generating Company, L.P.	GEN1	50888	1.1272E-06
41	Hayden	Unit 2	525	1.1572E-06
42	Weston	W3	4078	1.1609E-06
43	Welsh	WE-1	6139	1.1904E-06
44	Clover	Unit 1	7213	1.2154E-06
45	Spruance Genco, LLC	GEN2	54081	1.2250E-06
46	Newton	002	6017	1.3382E-06
47	Hopewell	1 & 2	10771	1.3423E-06
48	Wygen 2	WYG2Cfg	56319	1.3540E-06
49	James River Cogeneration Co	UNIT2	10377	1.3768E-06
50	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	1.3906E-06
51	East Bend Station	2	6018	1.4554E-06
52	PSEG Mercer Generating Station	MERU1E1PT1 OS1-Coal	2408	1.4745E-06
53	Clover	Unit 2	7213	1.4999E-06
54	Cross	C3	130	1.5101E-06
55	Asheville Steam Electric Plant	Ash_Cfg_2	2706	1.5171E-06
56	Cope	COP001	7210	1.5206E-06
57	TransAlta Centralia Generation	BW21CONFIG	3845	1.5368E-06
58	Roanoke Valley II	Boiler 2	54755	1.5826E-06
59	Elm Road Generating Station	ERGS-B1	56068	1.5913E-06
60	Ebensburg Power Company	EPC01	10603	1.6600E-06
61	TS Power Plant	TSPower	56224	1.6927E-06
62	Salem Harbor	Unit 1	1626	1.8093E-06
63	Marion Generating Station	123	976	1.8657E-06
64	Hatfield's Ferry Power Station	001	3179	1.9485E-06
65	Gibson	2-2007-FGDIN	6113	2.0335E-06
66	Birchwood Power Facility	1A	54304	2.0395E-06
67	State Line	Unit 3	981	2.0409E-06
68	Cross	C4	130	2.0623E-06
69	TransAlta Centralia Generation	BW22CONFIG	3845	2.0682E-06
70	Red Hills Generating Facility	002	55076	2.1279E-06
71	Springerville	4	8223	2.1309E-06
72	Red Hills Generating Facility	001	55076	2.1446E-06
73	PSEG Mercer Generating Station	MERU2E2PT2 OS1-Coal	2408	2.1481E-06
74	Gibson	1-2007-FGDIN	6113	2.1501E-06
75	Meredosia	005	864	2.1887E-06
76	Indiantown Cogeneration L.P.	001	50976	2.2852E-06

Table B-5 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
77	Hammond	Unit 2	708	2.3117E-06
78	Hammond	Unit 3	708	2.3185E-06
79	Hammond	Unit 1	708	2.3538E-06
80	Sibley	3	2094	2.3757E-06
81	Joppa Steam	1	887	2.4342E-06
82	Hammond	Unit 4	708	2.4522E-06
83	Brandon Shores	002	602	2.5030E-06
84	Erickson Station	001	1832	2.5383E-06
85	H L Spurlock Station	Unit 03	6041	2.5667E-06
86	Sibley	1	2094	2.6948E-06
87	J K Spruce	1	7097	2.7017E-06
88	Cross	C1	130	2.8685E-06
89	R.M. Schahfer	R.M.0014	6085	2.9244E-06
90	Sibley	2	2094	2.9905E-06
91	Dallman	34	963	3.0236E-06
92	Panther Creek Energy Facility	BG2	50776	3.0438E-06
93	Panther Creek Energy Facility	BG1	50776	3.0438E-06
94	Colbert	3	47	3.2127E-06
95	Clinch River	CR-1	3775	3.2213E-06
96	Cardinal	CD-U3	2828	3.2866E-06
97	Seward	SEW-1	3130	3.2916E-06
98	Seward	SEW-2	3130	3.2916E-06
99	Albright Power Station	Unit_2	3942	3.2959E-06
100	AES Puerto Rico Cogeneration Facility	Unit_1	68029	3.3321E-06
101	Scrubgrass Generating Company L.P.	Gen 1	50974	3.3748E-06
102	Springerville	3	8223	3.5044E-06
103	Spruance Genco, LLC	GEN4	54081	3.5090E-06
104	Stanton Energy Center	2 coal	564	3.5188E-06
105	Cambria Cogen	001	10641	3.5291E-06
106	H L Spurlock Station	Unit 04	6041	3.5383E-06
107	Comanche	Unit 2	470	3.5594E-06
108	AES Puerto Rico Cogeneration Facility	Unit_2	68029	3.5832E-06
109	Duck Creek	001	6016	3.6487E-06
110	Nebraska City	NC2	6096	3.6766E-06
111	James H. Miller Jr.	Unit 4	6002	3.7151E-06
112	Whelan Energy Center Unit 1 (WEC1)	1	60	3.7675E-06
113	Roanoke Valley I	Boiler 1	54035	3.8016E-06
114	Coal Creek	Unit 1b	6030	3.8869E-06
115	H L Spurlock Station	Unit 01	6041	3.9214E-06
116	Mecklenburg Power Station	Unit 1 & 2	52007	4.0002E-06

Table B-5 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
117	Gallatin	2	3403	4.0486E-06
118	Hennepin Power Station	001	892	4.1220E-06
119	Spruance Genco, LLC	GEN3	54081	4.1845E-06
120	Hennepin Power Station	002	892	4.2563E-06
121	South Oak Creek	OCPP-B7	4041	4.2870E-06
122	Lawrence Energy Center	3	1250	4.3911E-06
123	Craig	C2	6021	4.4034E-06
124	Cambria Cogen	002	10641	4.4181E-06
125	River Rouge Power Plant	RR2-Config	1740	4.6082E-06
126	A. B. Brown Generating Station	1Config	6137	4.6740E-06
127	Dunkirk Generating Plant	4	2554	4.7194E-06
128	W.H. Weatherspoon Plant	Wea_Cfg_1	2716	4.8774E-06
129	Crist	Unit 5	641	4.9127E-06
130	Crist	Unit 6	641	4.9155E-06
131	Gerald Gentleman	U1	6077	4.9650E-06

Table B-6. ***Subcategory 1 and 2 Existing Sources***
Arsenic (As) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Oak Grove	6180	OG1	9.4542E-09
2	San Juan	2451	Unit 3	2.3374E-08
3	AES Hawaii	10673	001	2.6229E-08
4	Neil Simpson II	7504	NS2Cfg	3.3442E-08
5	AES Hawaii	10673	002	3.5151E-08
6	Reid Gardner	2324	1	4.0506E-08
7	Chambers Cogeneration LP	10566	Boil 2	4.2269E-08
8	Northampton Generating Company, L.P.	50888	GEN1	4.4245E-08
9	San Juan	2451	Unit 2	4.6294E-08
10	San Juan	2451	Unit 1	4.7797E-08
11	Rawhide	6761	Rawhide101	7.2890E-08
12	Hayden	525	Unit 2	7.7572E-08
13	Hayden	525	Unit 1	8.1962E-08
14	Dallman	963	34	8.2410E-08
15	San Juan	2451	Unit 4	8.2493E-08
16	Sunnyside Cogen Associates	50951	Config 1	1.0044E-07
17	AES Shady Point,LLC	10671	Unit 1	1.0704E-07
18	AES Shady Point,LLC	10671	Unit 2	1.0704E-07
19	Wygen 2	56319	WYG2Cfg	1.1029E-07
20	Wygen 1	55479	WYG1Cfg	1.1032E-07
21	Cope	7210	COP001	1.1355E-07
22	AES Warrior Run Cogeneration Facility	10678	BLR1	1.1785E-07
23	Birchwood Power Facility	54304	1A	1.1826E-07
24	Chambers Cogeneration LP	10566	Boil 1	1.1889E-07
25	TransAlta Centralia Generation	3845	BW21CONFIG	1.2034E-07
26	Hardin Generator Project	55749	PC1	1.2153E-07
27	Cedar Bay Generating Company L.P.	10672	CBA1	1.2516E-07
28	Cedar Bay Generating Company L.P.	10672	CBB1	1.2519E-07
29	Logan Generating Plant	10043	Unit1	1.3186E-07
30	Cholla	113	003	1.3302E-07
31	Indiantown Cogeneration L.P.	50976	001	1.3491E-07
32	Martin Drake	492	Unit 5 - Coal	1.6404E-07
33	Welsh	6139	WE-1	1.7273E-07
34	Colbert	47	3	1.7514E-07
35	Walter Scott Jr. Energy Center	1082	4	1.7911E-07
36	R D Green	6639	2	1.8496E-07
37	Havana	891	Boiler 9	1.8829E-07

Table B-6 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	TS Power Plant	56224	TSPower	2.0113E-07
39	Weston	4078	W4	2.0116E-07
40	Cholla	113	004	2.0122E-07
41	J T Deely	6181	2	2.1148E-07
42	J T Deely	6181	1	2.1148E-07
43	Springerville	8223	4	2.2831E-07
44	TransAlta Centralia Generation	3845	BW22CONFIG	2.3001E-07
45	Eastlake	2837	Unit 1	2.3321E-07
46	J K Spruce	7097	1	2.4634E-07
47	Lawrence Energy Center	1250	3	2.5723E-07
48	Brandon Shores	602	002	2.5777E-07
49	Southampton Power Station	10774	Unit 1 & 2	2.8111E-07
50	Clover	7213	Unit 1	2.8112E-07
51	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	2.8438E-07
52	Elm Road Generating Station	56068	ERGS-B1	2.8954E-07
53	Bridgeport Station	568	BHSEMU3OS3-#2	2.8982E-07
54	Craig	6021	C2	2.9254E-07
55	Twin Oaks Power One	7030	U2	2.9846E-07
56	Louisa	6664	101	3.0019E-07
57	Hawthorn	2079	5A	3.0296E-07
58	Silver Bay Power	10849	GEN1	3.0972E-07
59	Spruance Genco, LLC	54081	GEN1	3.3274E-07
60	Spruance Genco, LLC	54081	GEN2	3.4170E-07
61	Sandow Station	52071	5A	3.4279E-07
62	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	3.4347E-07
63	RS Nelson	1393	001	3.4976E-07
64	Sandow Station	52071	5B	3.5283E-07
65	Martin Drake	492	Unit 7 - Coal	3.6811E-07
66	Whelan Energy Center Unit 1 (WEC1)	60	1	3.7029E-07
67	Harding Street	990	70ss	3.7129E-07
68	Mecklenburg Power Station	52007	Unit 1 & 2	3.7154E-07
69	Comanche	470	Unit 2	3.7162E-07
70	Clover	7213	Unit 2	3.7686E-07
71	H L Spurlock Station	6041	Unit 03	3.8322E-07
72	Stanton Energy Center	564	2 coal	3.8423E-07
73	H L Spurlock Station	6041	Unit 04	3.8855E-07
74	Panther Creek Energy Facility	50776	BG2	3.8925E-07
75	Panther Creek Energy Facility	50776	BG1	3.8925E-07
76	Gallatin	3403	2	3.9687E-07
77	James H. Miller Jr.	6002	Unit 4	4.2222E-07

Table B-6 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	Weston	4078	W3	4.2433E-07
79	Cambria Cogen	10641	001	4.2726E-07
80	Nebraska City	6096	NC2	4.4942E-07
81	Cambria Cogen	10641	002	4.5169E-07
82	Dunkirk Generating Plant	2554	1	4.5962E-07
83	Gerald Gentleman	6077	U1	4.7094E-07
84	South Oak Creek	4041	OCPP-B7	4.7950E-07
85	H L Spurlock Station	6041	Unit 01	4.8680E-07
86	Hennepin Power Station	892	001	5.0034E-07
87	Hennepin Power Station	892	002	5.0034E-07
88	Dunkirk Generating Plant	2554	4	5.0124E-07
89	Cedar Bay Generating Company L.P.	10672	CBC1	5.0640E-07
90	Gerald Gentleman	6077	U2	5.2804E-07
91	PPL Montour	3149	U2	5.6824E-07
92	Sheldon Station	2277	U1	5.8237E-07
93	Colbert	47	4	5.8676E-07
94	Valley	4042	VAPP-B4	5.9351E-07
95	Crist	641	Unit 5	5.9498E-07
96	Crist	641	Unit 6	5.9498E-07
97	Crist	641	Unit 7	5.9498E-07
98	Crist	641	Unit 4	5.9498E-07
99	Valley	4042	VAPP-B3	5.9990E-07
100	Sheldon Station	2277	U2	6.1233E-07
101	Spruance Genco, LLC	54081	GEN4	6.1728E-07
102	Duck Creek	6016	001	6.3175E-07
103	PPL Montour	3149	U1	6.4867E-07
104	Eastlake	2837	Unit 3	6.5914E-07
105	Morgantown Energy Facility	10743	Unit 1&2	6.6285E-07
106	AES Puerto Rico Cogeneration Facility	68029	Unit_1	6.9758E-07
107	Nucla	527	001	7.1140E-07
108	James River Cogeneration Co	10377	UNIT2	7.1198E-07
109	G G Allen	2718	3-2009-FGDIN	7.2805E-07
110	G G Allen	2718	4-2009-FGDIN	7.2805E-07
111	Red Hills Generating Facility	55076	002	7.4274E-07
112	Red Hills Generating Facility	55076	001	7.4274E-07
113	Springerville	8223	3	7.5094E-07
114	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	7.6176E-07
115	BL England	2378	2 Coal w or w/o TDF	7.8082E-07
116	La Cygne	1241	2	7.8785E-07
117	Cardinal	2828	CD-U3	8.1910E-07

Table B-6 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Muscatine #1	1167	8	8.2602E-07
119	Piney Creek Project	54144	BRBRI	8.2780E-07
120	PPL Brunner Island	3140	U2	8.3236E-07
121	PPL Brunner Island	3140	U1	8.3236E-07
122	Roanoke Valley II	54755	Boiler 2	8.5438E-07
123	Hopewell	10771	1 & 2	8.7152E-07
124	Taconite Harbor Energy Center	10075	THEC2	9.0631E-07
125	Clinch River	3775	CR-1	9.8085E-07
126	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	1.0180E-06
127	AES Puerto Rico Cogeneration Facility	68029	Unit_2	1.0314E-06
128	State Line	981	Unit 3	1.0605E-06
129	Valley	4042	VAPP-B2	1.0730E-06
130	Salem Harbor	1626	Unit 1	1.0887E-06
131	Will County	884	WC4CONFIG	1.0917E-06

Table B-7. ***Subcategory 1 and 2 Existing Sources***
Arsenic (As) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Oak Grove	OG1	6180	1.0380E-07
2	AES Hawaii	001	10673	1.3197E-07
3	AES Hawaii	002	10673	1.6349E-07
4	Chambers Cogeneration LP	Boil 2	10566	2.0571E-07
5	San Juan	Unit 3	2451	2.4741E-07
6	Neil Simpson II	NS2Cfg	7504	4.1803E-07
7	Northampton Generating Company, L.P.	GEN1	50888	4.1905E-07
8	Reid Gardner	1	2324	4.4338E-07
9	San Juan	Unit 2	2451	4.6143E-07
10	Cedar Bay Generating Company L.P.	CBA1	10672	4.7515E-07
11	Cedar Bay Generating Company L.P.	CBB1	10672	4.7527E-07
12	San Juan	Unit 1	2451	4.7888E-07
13	Chambers Cogeneration LP	Boil 1	10566	5.7858E-07
14	Rawhide	Rawhide101	6761	6.6915E-07
15	Dallman	34	963	6.9150E-07
16	Hayden	Unit 2	525	7.3815E-07
17	Hayden	Unit 1	525	7.9650E-07
18	San Juan	Unit 4	2451	8.5662E-07
19	Cope	COP001	7210	1.0452E-06
20	Logan Generating Plant	Unit1	10043	1.1544E-06
21	Sunnyside Cogen Associates	Config 1	50951	1.1718E-06
22	AES Warrior Run Cogeneration Facility	BLR1	10678	1.1942E-06
23	Birchwood Power Facility	1A	54304	1.2252E-06
24	Wygen 1	WYG1Cfg	55479	1.2765E-06
25	Cholla	003	113	1.2774E-06
26	Indiantown Cogeneration L.P.	001	50976	1.2788E-06
27	Hardin Generator Project	PC1	55749	1.3317E-06
28	AES Shady Point,LLC	Unit 1	10671	1.3394E-06
29	AES Shady Point,LLC	Unit 2	10671	1.3394E-06
30	Wygen 2	WYG2Cfg	56319	1.4935E-06
31	TransAlta Centralia Generation	BW21CONFIG	3845	1.5453E-06
32	Welsh	WE-1	6139	1.5961E-06
33	Walter Scott Jr. Energy Center	4	1082	1.6173E-06
34	Martin Drake	Unit 5 - Coal	492	1.7000E-06
35	TS Power Plant	TSPower	56224	1.7553E-06
36	Weston	W4	4078	1.8113E-06
37	Southampton Power Station	Unit 1 & 2	10774	1.8375E-06
38	Colbert	3	47	1.8573E-06

Table B-7 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Cedar Bay Generating Company L.P.	CBC1	10672	1.9225E-06
40	Eastlake	Unit 1	2837	1.9515E-06
41	Havana	Boiler 9	891	1.9690E-06
42	J T Deely	2	6181	1.9978E-06
43	J T Deely	1	6181	1.9978E-06
44	Cholla	004	113	2.0207E-06
45	R D Green	2	6639	2.1101E-06
46	Springerville	4	8223	2.1309E-06
47	Brandon Shores	002	602	2.5030E-06
48	Silver Bay Power	GEN1	10849	2.5598E-06
49	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	2.5702E-06
50	J K Spruce	1	7097	2.7017E-06
51	Craig	C2	6021	2.7388E-06
52	Elm Road Generating Station	ERGS-B1	56068	2.7863E-06
53	Lawrence Energy Center	3	1250	2.8606E-06
54	Bridgeport Station	BHSEMU3OS3-#2	568	2.9485E-06
55	Twin Oaks Power One	U2	7030	2.9794E-06
56	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	3.1042E-06
57	TransAlta Centralia Generation	BW22CONFIG	3845	3.1410E-06
58	H L Spurlock Station	Unit 03	6041	3.1935E-06
59	Clover	Unit 1	7213	3.2110E-06
60	Louisa	101	6664	3.2160E-06
61	Harding Street	70ss	990	3.3063E-06
62	Hawthorn	5A	2079	3.3663E-06
63	RS Nelson	001	1393	3.4741E-06
64	Stanton Energy Center	2 coal	564	3.5188E-06
65	Comanche	Unit 2	470	3.5452E-06
66	Sandow Station	5A	52071	3.5936E-06
67	H L Spurlock Station	Unit 04	6041	3.6264E-06
68	Gallatin	2	3403	3.6380E-06
69	Sandow Station	5B	52071	3.6989E-06
70	Whelan Energy Center Unit 1 (WEC1)	1	60	3.7432E-06
71	Martin Drake	Unit 7 - Coal	492	3.8508E-06
72	Weston	W3	4078	3.9734E-06
73	James H. Miller Jr.	Unit 4	6002	4.0741E-06
74	South Oak Creek	OCPP-B7	4041	4.2870E-06
75	Spruance Genco, LLC	GEN1	54081	4.3477E-06
76	Clover	Unit 2	7213	4.3773E-06
77	Spruance Genco, LLC	GEN2	54081	4.4648E-06
78	Mecklenburg Power Station	Unit 1 & 2	52007	4.4829E-06

Table B-7 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Nebraska City	NC2	6096	4.5602E-06
80	Dunkirk Generating Plant	4	2554	4.7194E-06
81	Cambria Cogen	001	10641	4.8830E-06
82	Gerald Gentleman	U1	6077	4.9650E-06
83	Dunkirk Generating Plant	1	2554	4.9866E-06
84	Panther Creek Energy Facility	BG2	50776	5.0226E-06
85	Panther Creek Energy Facility	BG1	50776	5.0226E-06
86	H L Spurlock Station	Unit 01	6041	5.1524E-06
87	Cambria Cogen	002	10641	5.1622E-06
88	Hennepin Power Station	001	892	5.1768E-06
89	PPL Montour	U2	3149	5.1938E-06
90	Morgantown Energy Facility	Unit 1&2	10743	5.1999E-06
91	Gerald Gentleman	U2	6077	5.3071E-06
92	Hennepin Power Station	002	892	5.3455E-06
93	Hopewell	1 & 2	10771	5.4791E-06
94	Eastlake	Unit 3	2837	5.5157E-06
95	G G Allen	3-2009-FGDIN	2718	5.7624E-06
96	G G Allen	4-2009-FGDIN	2718	5.8284E-06
97	PPL Montour	U1	3149	5.8918E-06
98	Crist	Unit 5	641	5.9341E-06
99	Crist	Unit 6	641	5.9374E-06
100	Colbert	4	47	6.2226E-06
101	Sheldon Station	U1	2277	6.2514E-06
102	Crist	Unit 7	641	6.2827E-06
103	Crist	Unit 4	641	6.3042E-06
104	Sheldon Station	U2	2277	6.5750E-06
105	Cardinal	CD-U3	2828	6.6473E-06
106	Nucla	001	527	6.6742E-06
107	AES Puerto Rico Cogeneration Facility	Unit_1	68029	6.7334E-06
108	Springerville	3	8223	7.0088E-06
109	Red Hills Generating Facility	002	55076	7.0777E-06
110	Duck Creek	001	6016	7.1072E-06
111	Red Hills Generating Facility	001	55076	7.1333E-06
112	Scrubgrass Generating Company L.P.	Gen 1	50974	7.1521E-06
113	Valley	VAPP-B4	4042	7.1551E-06
114	Valley	VAPP-B3	4042	7.2321E-06
115	James River Cogeneration Co	UNIT2	10377	7.4436E-06
116	BL England	2 Coal w or w/o TDF	2378	7.4675E-06
117	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	7.4692E-06
118	PPL Brunner Island	U2	3140	8.0271E-06

Table B-7 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Spruance Genco, LLC	GEN4	54081	8.0656E-06
120	PPL Brunner Island	U1	3140	8.4371E-06
121	La Cygne	2	1241	8.8561E-06
122	Clinch River	CR-1	3775	8.9595E-06
123	Muscatine #1	8	1167	9.0642E-06
124	Grant Town Power Plant	GEN1	10151	9.3650E-06
125	Roanoke Valley II	Boiler 2	54755	9.5691E-06
126	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	9.9284E-06
127	AES Puerto Rico Cogeneration Facility	Unit_2	68029	9.9558E-06
128	Piney Creek Project	BRBRI	54144	1.0348E-05
129	Taconite Harbor Energy Center	THEC2	10075	1.0448E-05
130	Will County	WC4CONFIG	884	1.0584E-05
131	R.M. Schahfer	R.M.0014	6085	1.0946E-05

Table B-8. ***Subcategory 1 and 2 Existing Sources***
Beryllium (Be) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Lawrence Energy Center	1250	3	1.6477E-09
2	Walter Scott Jr. Energy Center	1082	4	2.6047E-09
3	Oak Grove	6180	OG1	3.3372E-09
4	Chambers Cogeneration LP	10566	Boil 2	3.6185E-09
5	Northampton Generating Company, L.P.	50888	GEN1	4.0172E-09
6	AES Hawaii	10673	001	4.1966E-09
7	Cholla	113	003	4.2074E-09
8	Wygen 1	55479	WYG1Cfg	4.3841E-09
9	Louisa	6664	101	4.5425E-09
10	Neil Simpson II	7504	NS2Cfg	5.2553E-09
11	Logan Generating Plant	10043	Unit1	5.6730E-09
12	AES Hawaii	10673	002	6.1069E-09
13	Chambers Cogeneration LP	10566	Boil 1	6.1458E-09
14	Reid Gardner	2324	1	6.1627E-09
15	Springerville	8223	3	6.4366E-09
16	Cedar Bay Generating Company L.P.	10672	CBB1	8.4129E-09
17	Cross	130	C3	9.4527E-09
18	Cholla	113	004	9.5437E-09
19	Cross	130	C4	1.0098E-08
20	AES Shady Point,LLC	10671	Unit 1	1.0385E-08
21	AES Shady Point,LLC	10671	Unit 2	1.0385E-08
22	Martin Drake	492	Unit 5 - Coal	1.0727E-08
23	Indiantown Cogeneration L.P.	50976	001	1.0980E-08
24	Rawhide	6761	Rawhide101	1.1131E-08
25	Cope	7210	COP001	1.1705E-08
26	R D Green	6639	2	1.2012E-08
27	Cedar Bay Generating Company L.P.	10672	CBA1	1.3141E-08
28	H L Spurlock Station	6041	Unit 04	1.4467E-08
29	Cross	130	C1	1.4496E-08
30	AES Warrior Run Cogeneration Facility	10678	BLR1	1.4823E-08
31	Hayden	525	Unit 2	1.4880E-08
32	Duck Creek	6016	001	1.5702E-08
33	McMeekin	3287	MCM002	1.5711E-08
34	James River Cogeneration Co	10377	UNIT2	1.5896E-08
35	Eastlake	2837	Unit 1	1.6389E-08
36	Hayden	525	Unit 1	1.6847E-08
37	Martin Drake	492	Unit 7 - Coal	1.7617E-08

Table B-8 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Sioux	2107	002	1.7848E-08
39	G G Allen	2718	3-2009-FGDIN	1.8530E-08
40	G G Allen	2718	4-2009-FGDIN	1.8530E-08
41	Morgantown Energy Facility	10743	Unit 1&2	1.8862E-08
42	Asheville Steam Electric Plant	2706	Ash_Cfg_1d	1.9411E-08
43	Dallman	963	34	1.9600E-08
44	Muscatine #1	1167	8	2.0185E-08
45	Birchwood Power Facility	54304	1A	2.0426E-08
46	Eastlake	2837	Unit 3	2.2444E-08
47	W H Zimmer	6019	1	2.3056E-08
48	Sunnyside Cogen Associates	50951	Config 1	2.4652E-08
49	Asheville Steam Electric Plant	2706	Ash_Cfg_2	2.9180E-08
50	Comanche	470	Unit 2	3.0720E-08
51	Whelan Energy Center Unit 1 (WEC1)	60	1	3.0985E-08
52	Welsh	6139	WE-1	3.1753E-08
53	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	3.2712E-08
54	Clover	7213	Unit 2	3.2765E-08
55	Havana	891	Boiler 9	3.2786E-08
56	Clover	7213	Unit 1	3.5980E-08
57	Pulliam	4072	8	3.8504E-08
58	Elm Road Generating Station	56068	ERGS-B1	4.1341E-08
59	Silver Bay Power	10849	GEN1	4.2391E-08
60	Gibson	6113	1-2007-FGDIN	4.3054E-08
61	Gibson	6113	2-2007-FGDIN	4.3302E-08
62	East Bend Station	6018	2	4.3795E-08
63	Newton	6017	002	4.5551E-08
64	Wygen 2	56319	WYG2Cfg	4.6386E-08
65	Hatfield's Ferry Power Station	3179	001	4.7780E-08
66	TS Power Plant	56224	TSPower	4.8490E-08
67	Weston	4078	W3	4.9471E-08
68	Sibley	2094	3	4.9791E-08
69	Sibley	2094	1	4.9791E-08
70	Sibley	2094	2	4.9791E-08
71	Salem Harbor	1626	Unit 1	4.9881E-08
72	Weston	4078	W4	5.0290E-08
73	Scrubgrass Generating Company L.P.	50974	Gen 1	5.0800E-08
74	Hennepin Power Station	892	001	5.1564E-08
75	Hennepin Power Station	892	002	5.1564E-08
76	Southampton Power Station	10774	Unit 1 & 2	5.3669E-08
77	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	5.3718E-08

Table B-8 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	Colbert	47	3	5.6255E-08
79	Hammond	708	Unit 2	5.6870E-08
80	Hammond	708	Unit 3	5.6870E-08
81	Hammond	708	Unit 1	5.6870E-08
82	Hammond	708	Unit 4	5.6870E-08
83	Springerville	8223	4	5.7079E-08
84	Hardin Generator Project	55749	PC1	5.7318E-08
85	Panther Creek Energy Facility	50776	BG2	5.7907E-08
86	Panther Creek Energy Facility	50776	BG1	5.7907E-08
87	TransAlta Centralia Generation	3845	BW21CONFIG	5.9842E-08
88	McMeekin	3287	MCM001	6.0147E-08
89	La Cygne	1241	2	6.1332E-08
90	J K Spruce	7097	1	6.1586E-08
91	Seward	3130	SEW-1	6.2050E-08
92	Seward	3130	SEW-2	6.2050E-08
93	Brandon Shores	602	002	6.4442E-08
94	Bridgeport Station	568	BHSEMU3OS3-#2	6.6657E-08
95	R.M. Schahfer	6085	R.M.0014	6.8667E-08
96	Erickson Station	1832	001	6.8821E-08
97	TransAlta Centralia Generation	3845	BW22CONFIG	7.0187E-08
98	Craig	6021	C2	7.3136E-08
99	Harding Street	990	70ss	7.3382E-08
100	Hawthorn	2079	5A	7.4100E-08
101	Joppa Steam	887	1	7.5785E-08
102	H L Spurlock Station	6041	Unit 03	7.7578E-08
103	Spruance Genco, LLC	54081	GEN4	8.1323E-08
104	Gallatin	3403	2	8.2731E-08
105	AES Puerto Rico Cogeneration Facility	68029	Unit_1	8.7194E-08
106	Spruance Genco, LLC	54081	GEN2	8.9649E-08
107	Nebraska City	6096	NC2	9.0582E-08
108	Prairie Creek	1073	Unit 1	9.2000E-08
109	H L Spurlock Station	6041	Unit 01	9.2623E-08
110	W.H. Weatherspoon Plant	2716	Wea_Cfg_1	9.5089E-08
111	Cambria Cogen	10641	001	9.5471E-08
112	Cedar Bay Generating Company L.P.	10672	CBC1	9.5784E-08
113	Stanton Energy Center	564	2 coal	9.6058E-08
114	James H. Miller Jr.	6002	Unit 4	9.6252E-08
115	Cambria Cogen	10641	002	9.6646E-08
116	Mecklenburg Power Station	52007	Unit 1 & 2	9.7541E-08
117	AES Puerto Rico Cogeneration Facility	68029	Unit_2	9.7663E-08

Table B-8 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Coal Creek	6030	Unit 1b	1.0000E-07
119	BL England	2378	2 Coal w or w/o TDF	1.0185E-07
120	Colbert	47	4	1.0195E-07
121	Vermilion	897	002	1.1169E-07
122	Vermilion	897	001	1.1169E-07
123	Colstrip	6076	Unit3	1.1345E-07
124	Dunkirk Generating Plant	2554	1	1.1491E-07
125	State Line	981	Unit 3	1.1630E-07
126	Gerald Gentleman	6077	U1	1.1774E-07
127	South Oak Creek	4041	OCPP-B7	1.1988E-07
128	Cardinal	2828	CD-U3	1.2046E-07
129	Ebensburg Power Company	10603	EPC01	1.2192E-07
130	A. B. Brown Generating Station	6137	1Config	1.2297E-07
131	Crist	641	Unit 5	1.2314E-07

Table B-9. ***Subcategory 1 and 2 Existing Sources***
Cadmium (Cd) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Walter Scott Jr. Energy Center	1082	4	8.1778E-09
2	Oak Grove	6180	OG1	1.1401E-08
3	AES Hawaii	10673	001	1.6100E-08
4	Eastlake	2837	Unit 1	1.6973E-08
5	Cholla	113	004	1.7924E-08
6	Pulliam	4072	8	1.9252E-08
7	Reid Gardner	2324	1	1.9836E-08
8	Cholla	113	003	1.9907E-08
9	Louisa	6664	101	2.4828E-08
10	Chambers Cogeneration LP	10566	Boil 1	2.6377E-08
11	Weston	4078	W4	2.7337E-08
12	Southampton Power Station	10774	Unit 1 & 2	2.8435E-08
13	Havana	891	Boiler 9	3.2814E-08
14	Clover	7213	Unit 2	3.2910E-08
15	Logan Generating Plant	10043	Unit1	3.4339E-08
16	Salem Harbor	1626	Unit 1	3.4890E-08
17	Northampton Generating Company, L.P.	50888	GEN1	3.6003E-08
18	Weston	4078	W3	3.6175E-08
19	Bridgeport Station	568	BHSEMU3OS3-#2	4.1957E-08
20	Cross	130	C3	4.3666E-08
21	Wygen 1	55479	WYG1Cfg	4.6487E-08
22	Hardin Generator Project	55749	PC1	4.8932E-08
23	Sioux	2107	002	4.9019E-08
24	Asheville Steam Electric Plant	2706	Ash_Cfg_2	5.2276E-08
25	Harding Street	990	70ss	5.3287E-08
26	Neil Simpson II	7504	NS2Cfg	5.3522E-08
27	Cope	7210	COP001	5.3842E-08
28	Hopewell	10771	1 & 2	5.6688E-08
29	AES Hawaii	10673	002	5.7186E-08
30	TransAlta Centralia Generation	3845	BW21CONFIG	5.9842E-08
31	Spruance Genco, LLC	54081	GEN2	6.0151E-08
32	Duck Creek	6016	001	6.3447E-08
33	Spruance Genco, LLC	54081	GEN1	6.5823E-08
34	James River Cogeneration Co	10377	UNIT2	6.6056E-08
35	Martin Drake	492	Unit 5 - Coal	6.7594E-08
36	Eastlake	2837	Unit 3	6.9477E-08
37	TransAlta Centralia Generation	3845	BW22CONFIG	7.0187E-08

Table B-9 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Spruance Genco, LLC	54081	GEN4	7.1794E-08
39	Red Hills Generating Facility	55076	002	7.2557E-08
40	Red Hills Generating Facility	55076	001	7.2557E-08
41	Elm Road Generating Station	56068	ERGS-B1	7.3499E-08
42	Clinch River	3775	CR-1	7.5956E-08
43	H L Spurlock Station	6041	Unit 03	7.8142E-08
44	Cross	130	C4	7.8441E-08
45	Welsh	6139	WE-1	7.8459E-08
46	Dallman	963	34	7.8500E-08
47	Springerville	8223	3	7.8575E-08
48	W.H. Weatherspoon Plant	2716	Wea_Cfg_1	7.9321E-08
49	Rawhide	6761	Rawhide101	8.0251E-08
50	Silver Bay Power	10849	GEN1	8.1885E-08
51	R D Green	6639	2	8.4082E-08
52	San Juan	2451	Unit 2	8.4983E-08
53	Hammond	708	Unit 2	8.5308E-08
54	Hammond	708	Unit 3	8.5308E-08
55	Hammond	708	Unit 1	8.5308E-08
56	Hammond	708	Unit 4	8.5308E-08
57	Erickson Station	1832	001	8.5379E-08
58	Whelan Energy Center Unit 1 (WEC1)	60	1	8.5441E-08
59	Comanche	470	Unit 2	8.5504E-08
60	Lawrence Energy Center	1250	3	8.7237E-08
61	Brandon Shores	602	002	8.7609E-08
62	AES Puerto Rico Cogeneration Facility	68029	Unit_2	8.7633E-08
63	Sibley	2094	3	8.8744E-08
64	Sibley	2094	1	8.8744E-08
65	Sibley	2094	2	8.8744E-08
66	G G Allen	2718	3-2009-FGDIN	8.9710E-08
67	G G Allen	2718	4-2009-FGDIN	8.9710E-08
68	Muscatine #1	1167	8	9.1245E-08
69	James H. Miller Jr.	6002	Unit 4	9.6252E-08
70	AES Shady Point,LLC	10671	Unit 1	9.6507E-08
71	AES Shady Point,LLC	10671	Unit 2	9.6507E-08
72	Stanton Energy Center	564	2 coal	1.0038E-07
73	Nebraska City	6096	NC2	1.0152E-07
74	Cedar Bay Generating Company L.P.	10672	CBA1	1.0317E-07
75	McMeekin	3287	MCM002	1.0564E-07
76	H L Spurlock Station	6041	Unit 01	1.0593E-07
77	H L Spurlock Station	6041	Unit 04	1.0649E-07

Table B-9 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	San Juan	2451	Unit 3	1.0660E-07
79	Eagle Valley	991	6	1.0768E-07
80	Panther Creek Energy Facility	50776	BG2	1.1015E-07
81	Panther Creek Energy Facility	50776	BG1	1.1015E-07
82	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	1.1065E-07
83	Lansing	1047	Unit 4	1.1100E-07
84	Cross	130	C1	1.1194E-07
85	Spruance Genco, LLC	54081	GEN3	1.1535E-07
86	AES Warrior Run Cogeneration Facility	10678	BLR1	1.1640E-07
87	Springerville	8223	4	1.1734E-07
88	Craig	6021	C2	1.1770E-07
89	Cardinal	2828	CD-U3	1.1958E-07
90	A. B. Brown Generating Station	6137	1Config	1.2355E-07
91	Ebensburg Power Company	10603	EPC01	1.2567E-07
92	Gibson	6113	2-2007-FGDIN	1.2895E-07
93	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	1.3098E-07
94	Hennepin Power Station	892	001	1.3227E-07
95	Hennepin Power Station	892	002	1.3227E-07
96	Wygen 2	56319	WYG2Cfg	1.3328E-07
97	AES Puerto Rico Cogeneration Facility	68029	Unit_1	1.3660E-07
98	Newton	6017	002	1.3903E-07
99	BL England	2378	2 Coal w or w/o TDF	1.4032E-07
100	Birchwood Power Facility	54304	1A	1.4225E-07
101	Chambers Cogeneration LP	10566	Boil 2	1.4376E-07
102	Crist	641	Unit 5	1.4410E-07
103	Crist	641	Unit 6	1.4410E-07
104	Crist	641	Unit 7	1.4410E-07
105	Crist	641	Unit 4	1.4410E-07
106	Asheville Steam Electric Plant	2706	Ash_Cfg_1d	1.4620E-07
107	Valley	4042	VAPP-B4	1.4838E-07
108	Morgantown Energy Facility	10743	Unit 1&2	1.4881E-07
109	Valley	4042	VAPP-B3	1.4997E-07
110	PPL Brunner Island	3140	U2	1.5237E-07
111	PPL Brunner Island	3140	U1	1.5237E-07
112	Sheldon Station	2277	U1	1.5403E-07
113	State Line	981	Unit 3	1.5496E-07
114	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	1.5573E-07
115	Piney Creek Project	54144	BRBRI	1.6190E-07
116	Sheldon Station	2277	U2	1.6340E-07
117	La Cygne	1241	2	1.6523E-07

Table B-9 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	PSEG Hudson Generating Station	2403	HUDU2E2PT2OS1-Coal	1.6667E-07
119	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	1.6713E-07
120	ML Kapp	1048	Unit 2	1.6900E-07
121	Nucla	527	001	1.6952E-07
122	Meredosia	864	005	1.6982E-07
123	Cedar Bay Generating Company L.P.	10672	CBB1	1.7632E-07
124	River Rouge Power Plant	1740	RR2-Config	1.8400E-07
125	Cane Run	1363	CR5	1.8431E-07
126	R.M. Schahfer	6085	R.M.0014	1.8510E-07
127	Dunkirk Generating Plant	2554	1	1.8575E-07
128	Wabash River	1010	6	1.8678E-07
129	Wabash River	1010	4	1.8678E-07
130	Cane Run	1363	CR4	1.8804E-07
131	Will County	884	WC4CONFIG	1.9255E-07

Table B-10. ***Subcategory 1 and 2 Existing Sources***
Cadmium (Cd) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Walter Scott Jr. Energy Center	4	1082	7.3840E-08
2	AES Hawaii	001	10673	8.1008E-08
3	Oak Grove	OG1	6180	1.2518E-07
4	Chambers Cogeneration LP	Boil 1	10566	1.2837E-07
5	Eastlake	Unit 1	2837	1.4203E-07
6	Cholla	004	113	1.8000E-07
7	Southampton Power Station	Unit 1 & 2	10774	1.8588E-07
8	Cholla	003	113	1.9117E-07
9	Pulliam	8	4072	2.1081E-07
10	Reid Gardner	1	2324	2.1712E-07
11	Weston	W4	4078	2.4615E-07
12	Louisa	101	6664	2.6598E-07
13	AES Hawaii	002	10673	2.6599E-07
14	Logan Generating Plant	Unit1	10043	3.0063E-07
15	Weston	W3	4078	3.3874E-07
16	Northampton Generating Company, L.P.	GEN1	50888	3.4098E-07
17	Havana	Boiler 9	891	3.4315E-07
18	Hopewell	1 & 2	10771	3.5638E-07
19	Clover	Unit 2	7213	3.8226E-07
20	Cedar Bay Generating Company L.P.	CBA1	10672	3.9166E-07
21	Salem Harbor	Unit 1	1626	4.2039E-07
22	Cross	C3	130	4.2325E-07
23	Bridgeport Station	BHSEMU3OS3-#2	568	4.2686E-07
24	Sioux	002	2107	4.6026E-07
25	Harding Street	70ss	990	4.7452E-07
26	Asheville Steam Electric Plant	Ash_Cfg_2	2706	4.8739E-07
27	Cope	COP001	7210	4.9558E-07
28	Hardin Generator Project	PC1	55749	5.3619E-07
29	Wygen 1	WYG1Cfg	55479	5.3792E-07
30	Eastlake	Unit 3	2837	5.8139E-07
31	H L Spurlock Station	Unit 03	6041	6.5118E-07
32	Dallman	34	963	6.5870E-07
33	Neil Simpson II	NS2Cfg	7504	6.6903E-07
34	Cedar Bay Generating Company L.P.	CBB1	10672	6.6940E-07
35	Silver Bay Power	GEN1	10849	6.7676E-07
36	James River Cogeneration Co	UNIT2	10377	6.9060E-07
37	Red Hills Generating Facility	002	55076	6.9141E-07
38	Clinch River	CR-1	3775	6.9381E-07

Table B-10 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Red Hills Generating Facility	001	55076	6.9683E-07
40	Chambers Cogeneration LP	Boil 2	10566	6.9965E-07
41	Martin Drake	Unit 5 - Coal	492	7.0052E-07
42	W.H. Weatherspoon Plant	Wea_Cfg_1	2716	7.0641E-07
43	Elm Road Generating Station	ERGS-B1	56068	7.0731E-07
44	G G Allen	3-2009-FGDIN	2718	7.1003E-07
45	Duck Creek	001	6016	7.1378E-07
46	G G Allen	4-2009-FGDIN	2718	7.1816E-07
47	Welsh	WE-1	6139	7.2497E-07
48	Springerville	3	8223	7.3337E-07
49	Rawhide	Rawhide101	6761	7.3673E-07
50	TransAlta Centralia Generation	BW21CONFIG	3845	7.6841E-07
51	Spruance Genco, LLC	GEN2	54081	7.8595E-07
52	Comanche	Unit 2	470	8.1568E-07
53	Hammond	Unit 2	708	8.4421E-07
54	AES Puerto Rico Cogeneration Facility	Unit_2	68029	8.4589E-07
55	Hammond	Unit 3	708	8.4670E-07
56	San Juan	Unit 2	2451	8.4707E-07
57	Brandon Shores	002	602	8.5070E-07
58	Cross	C4	130	8.5319E-07
59	Hammond	Unit 1	708	8.5958E-07
60	Spruance Genco, LLC	GEN1	54081	8.6006E-07
61	Erickson Station	001	1832	8.6310E-07
62	Whelan Energy Center Unit 1 (WEC1)	1	60	8.6371E-07
63	Sibley	3	2094	8.6713E-07
64	McMeekin	MCM002	3287	8.8140E-07
65	Hammond	Unit 4	708	8.9550E-07
66	Stanton Energy Center	2 coal	564	9.1934E-07
67	James H. Miller Jr.	Unit 4	6002	9.2878E-07
68	Spruance Genco, LLC	GEN4	54081	9.3807E-07
69	TransAlta Centralia Generation	BW22CONFIG	3845	9.5848E-07
70	R D Green	2	6639	9.5924E-07
71	Lawrence Energy Center	3	1250	9.7013E-07
72	Cardinal	CD-U3	2828	9.7047E-07
73	Sibley	1	2094	9.8361E-07
74	H L Spurlock Station	Unit 04	6041	9.9388E-07
75	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	1.0000E-06
76	Muscatine #1	8	1167	1.0013E-06
77	Nebraska City	NC2	6096	1.0301E-06
78	Eagle Valley	6	991	1.0429E-06

Table B-10 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Sibley	2	2094	1.0916E-06
80	Springerville	4	8223	1.0952E-06
81	Craig	C2	6021	1.1019E-06
82	Lansing	Unit 4	1047	1.1033E-06
83	H L Spurlock Station	Unit 01	6041	1.1212E-06
84	San Juan	Unit 3	2451	1.1283E-06
85	Morgantown Energy Facility	Unit 1&2	10743	1.1674E-06
86	A. B. Brown Generating Station	1Config	6137	1.1740E-06
87	AES Warrior Run Cogeneration Facility	BLR1	10678	1.1796E-06
88	Cross	C1	130	1.1931E-06
89	AES Shady Point,LLC	Unit 1	10671	1.2076E-06
90	AES Shady Point,LLC	Unit 2	10671	1.2076E-06
91	Newton	002	6017	1.2333E-06
92	Gibson	2-2007-FGDIN	6113	1.2571E-06
93	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	1.2774E-06
94	AES Puerto Rico Cogeneration Facility	Unit_1	68029	1.3185E-06
95	BL England	2 Coal w or w/o TDF	2378	1.3420E-06
96	Asheville Steam Electric Plant	Ash_Cfg_1d	2706	1.3519E-06
97	Hennepin Power Station	001	892	1.3686E-06
98	Hennepin Power Station	002	892	1.4131E-06
99	Panther Creek Energy Facility	BG2	50776	1.4213E-06
100	Panther Creek Energy Facility	BG1	50776	1.4213E-06
101	Crist	Unit 5	641	1.4372E-06
102	Crist	Unit 6	641	1.4380E-06
103	PPL Brunner Island	U2	3140	1.4695E-06
104	Birchwood Power Facility	1A	54304	1.4738E-06
105	Spruance Genco, LLC	GEN3	54081	1.5072E-06
106	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	1.5105E-06
107	Crist	Unit 7	641	1.5217E-06
108	Crist	Unit 4	641	1.5269E-06
109	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	1.5269E-06
110	PPL Brunner Island	U1	3140	1.5445E-06
111	River Rouge Power Plant	RR2-Config	1740	1.5849E-06
112	Nucla	001	527	1.5904E-06
113	Sheldon Station	U1	2277	1.6534E-06
114	PSEG Hudson Generating Station	HUDU2E2PT2OS1-Coal	2403	1.6674E-06
115	Wabash River	6	1010	1.6707E-06
116	State Line	Unit 3	981	1.7074E-06
117	ML Kapp	Unit 2	1048	1.7210E-06
118	Sheldon Station	U2	2277	1.7545E-06

Table B-10 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Valley	VAPP-B4	4042	1.7888E-06
120	Ebensburg Power Company	EPC01	10603	1.7983E-06
121	Wygen 2	WYG2Cfg	56319	1.8048E-06
122	Valley	VAPP-B3	4042	1.8080E-06
123	R.M. Schahfer	R.M.0014	6085	1.8392E-06
124	Cedar Bay Generating Company L.P.	CBC1	10672	1.8496E-06
125	La Cygne	2	1241	1.8573E-06
126	Will County	WC4CONFIG	884	1.8667E-06
127	Dunkirk Generating Plant	4	2554	1.8747E-06
128	Wabash River	4	1010	1.9170E-06
129	Coal Creek	Unit 1b	6030	1.9435E-06
130	Craig	C1	6021	1.9599E-06
131	J T Deely	2	6181	1.9639E-06

Table B-11. ***Subcategory 1 and 2 Existing Sources***
Chromium (Cr) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Dallman	963	34	7.8500E-08
2	Cholla	113	003	1.3625E-07
3	Chambers Cogeneration LP	10566	Boil 2	1.8943E-07
4	Martin Drake	492	Unit 5 - Coal	1.9802E-07
5	Oak Grove	6180	OG1	2.0802E-07
6	TransAlta Centralia Generation	3845	BW21CONFIG	2.1809E-07
7	Weston	4078	W4	2.5136E-07
8	J K Spruce	7097	1	2.5960E-07
9	Reid Gardner	2324	1	2.7654E-07
10	Springerville	8223	4	2.8659E-07
11	Rawhide	6761	Rawhide101	2.9033E-07
12	Havana	891	Boiler 9	3.2238E-07
13	Logan Generating Plant	10043	Unit1	3.4327E-07
14	Gerald Gentleman	6077	U1	3.5321E-07
15	TransAlta Centralia Generation	3845	BW22CONFIG	3.9067E-07
16	James H. Miller Jr.	6002	Unit 4	4.0658E-07
17	Sandow Station	52071	5B	4.1167E-07
18	R D Green	6639	2	4.2313E-07
19	Northampton Generating Company, L.P.	50888	GEN1	4.3906E-07
20	Wygen 1	55479	WYG1Cfg	4.4024E-07
21	Sheldon Station	2277	U1	4.5506E-07
22	Gerald Gentleman	6077	U2	4.8334E-07
23	Salem Harbor	1626	Unit 1	4.9068E-07
24	Cholla	113	004	5.1347E-07
25	Sioux	2107	002	5.2073E-07
26	Springerville	8223	3	5.4479E-07
27	Crist	641	Unit 5	5.4737E-07
28	Crist	641	Unit 6	5.4737E-07
29	Crist	641	Unit 7	5.4737E-07
30	Crist	641	Unit 4	5.4737E-07
31	Sheldon Station	2277	U2	5.6731E-07
32	South Oak Creek	4041	OCPP-B7	5.7029E-07
33	Pulliam	4072	8	5.7138E-07
34	Bridgeport Station	568	BHSEMU3OS3-#2	6.1689E-07
35	Neil Simpson II	7504	NS2Cfg	6.1710E-07
36	Sandow Station	52071	5A	6.5210E-07
37	RS Nelson	1393	001	6.7790E-07
38	Brandon Shores	602	002	6.8892E-07

Table B-11 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Taconite Harbor Energy Center	10075	THEC2	6.9851E-07
40	Cane Run	1363	CR4	7.0990E-07
41	AES Shady Point,LLC	10671	Unit 1	7.3685E-07
42	AES Shady Point,LLC	10671	Unit 2	7.3685E-07
43	Martin Drake	492	Unit 7 - Coal	7.5232E-07
44	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	7.8163E-07
45	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	8.1810E-07
46	Cope	7210	COP001	8.2215E-07
47	Nebraska City	6096	NC2	8.5487E-07
48	Duck Creek	6016	001	8.8611E-07
49	Cedar Bay Generating Company L.P.	10672	CBA1	8.8688E-07
50	Gibson	6113	1-2007-FGDIN	8.8753E-07
51	Gibson	6113	2-2007-FGDIN	9.0176E-07
52	H L Spurlock Station	6041	Unit 03	9.4941E-07
53	Indiantown Cogeneration L.P.	50976	001	9.5884E-07
54	Cedar Bay Generating Company L.P.	10672	CBB1	9.8262E-07
55	Spruance Genco, LLC	54081	GEN2	9.9758E-07
56	Spruance Genco, LLC	54081	GEN1	1.0236E-06
57	Muscatine #1	1167	8	1.0327E-06
58	Hayden	525	Unit 1	1.0925E-06
59	AES Warrior Run Cogeneration Facility	10678	BLR1	1.1222E-06
60	Southampton Power Station	10774	Unit 1 & 2	1.1430E-06
61	San Juan	2451	Unit 3	1.1431E-06
62	Hammond	708	Unit 2	1.1501E-06
63	Hammond	708	Unit 3	1.1501E-06
64	Hammond	708	Unit 1	1.1501E-06
65	Hammond	708	Unit 4	1.1501E-06
66	Silver Bay Power	10849	GEN1	1.1624E-06
67	Twin Oaks Power One	7030	U2	1.1722E-06
68	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	1.1769E-06
69	Taconite Harbor Energy Center	10075	THEC1	1.1830E-06
70	Spruance Genco, LLC	54081	GEN4	1.2233E-06
71	Chambers Cogeneration LP	10566	Boil 1	1.2259E-06
72	Walter Scott Jr. Energy Center	1082	4	1.2305E-06
73	Hawthorn	2079	5A	1.2364E-06
74	Morgantown Energy Facility	10743	Unit 1&2	1.2640E-06
75	Newton	6017	002	1.3474E-06
76	Dunkirk Generating Plant	2554	1	1.3560E-06
77	J T Deely	6181	2	1.3662E-06
78	J T Deely	6181	1	1.3662E-06

Table B-11 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Asheville Steam Electric Plant	2706	Ash_Cfg_2	1.4001E-06
80	Lansing	1047	Unit 4	1.4100E-06
81	Dunkirk Generating Plant	2554	4	1.4447E-06
82	Sunnyside Cogen Associates	50951	Config 1	1.4682E-06
83	San Juan	2451	Unit 2	1.4776E-06
84	Comanche	470	Unit 2	1.4946E-06
85	Craig	6021	C2	1.4959E-06
86	H L Spurlock Station	6041	Unit 04	1.5084E-06
87	James River Cogeneration Co	10377	UNIT2	1.5101E-06
88	PPL Montour	3149	U2	1.5424E-06
89	Lawrence Energy Center	1250	3	1.5428E-06
90	Panther Creek Energy Facility	50776	BG2	1.5655E-06
91	Panther Creek Energy Facility	50776	BG1	1.5655E-06
92	Seward	3130	SEW-1	1.5703E-06
93	Seward	3130	SEW-2	1.5703E-06
94	Stanton Energy Center	564	2 coal	1.6553E-06
95	Cane Run	1363	CR5	1.6734E-06
96	Whelan Energy Center Unit 1 (WEC1)	60	1	1.6828E-06
97	Shawville	3131	SHAW4-1	1.7508E-06
98	Shawville	3131	SHAW3-1	1.7508E-06
99	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	1.7699E-06
100	AES Puerto Rico Cogeneration Facility	68029	Unit_1	1.7966E-06
101	Hayden	525	Unit 2	1.8026E-06
102	Consumers Energy - J.H. Campbell	1710	JHC2-Conf	1.8063E-06
103	Consumers Energy - J.H. Campbell	1710	JHC1-Conf	1.8063E-06
104	Ebensburg Power Company	10603	EPC01	1.8533E-06
105	Spruance Genco, LLC	54081	GEN3	1.8620E-06
106	Hardin Generator Project	55749	PC1	1.8817E-06
107	Prairie Creek	1073	Unit 1	2.0000E-06
108	Meredosia	864	005	2.0397E-06
109	Joppa Steam	887	1	2.0480E-06
110	Sibley	2094	3	2.0528E-06
111	Sibley	2094	1	2.0528E-06
112	Sibley	2094	2	2.0528E-06
113	AES Puerto Rico Cogeneration Facility	68029	Unit_2	2.0588E-06
114	McMeekin	3287	MCM002	2.0706E-06
115	Erickson Station	1832	001	2.1314E-06
116	Eagle Valley	991	6	2.1341E-06
117	Elmer Smith Station	1374	Unit001	2.1424E-06
118	Elmer Smith Station	1374	Unit002	2.1424E-06

Table B-11 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Cedar Bay Generating Company L.P.	10672	CBC1	2.1566E-06
120	Welsh	6139	WE-1	2.1720E-06
121	Hennepin Power Station	892	001	2.2455E-06
122	Hennepin Power Station	892	002	2.2455E-06
123	Elm Road Generating Station	56068	ERGS-B1	2.2570E-06
124	Birchwood Power Facility	54304	1A	2.2700E-06
125	Harding Street	990	70ss	2.3481E-06
126	Colver Power Project	10143	AAB01	2.4097E-06
127	TS Power Plant	56224	TSPower	2.4275E-06
128	McMeekin	3287	MCM001	2.4762E-06
129	Scholz	642	Unit 1	2.5718E-06
130	Eastlake	2837	Unit 1	2.6093E-06
131	Prairie Creek	1073	Unit 2	2.6100E-06

Table B-12. ***Subcategory 1 and 2 Existing Sources***
Chromium (Cr) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	7.0643E-06
2	Dallman	34	963	6.5870E-07
3	Chambers Cogeneration LP	Boil 2	10566	9.2187E-07
4	Cholla	003	113	1.3085E-06
5	Martin Drake	Unit 5 - Coal	492	2.0523E-06
6	Weston	W4	4078	2.2634E-06
7	Oak Grove	OG1	6180	2.2839E-06
8	Rawhide	Rawhide101	6761	2.6653E-06
9	Springerville	4	8223	2.6748E-06
10	TransAlta Centralia Generation	BW21CONFIG	3845	2.8004E-06
11	J K Spruce	1	7097	2.8470E-06
12	Logan Generating Plant	Unit1	10043	3.0052E-06
13	Reid Gardner	1	2324	3.0270E-06
14	Cedar Bay Generating Company L.P.	CBA1	10672	3.3670E-06
15	Havana	Boiler 9	891	3.3712E-06
16	Gerald Gentleman	U1	6077	3.7237E-06
17	Cedar Bay Generating Company L.P.	CBB1	10672	3.7304E-06
18	James H. Miller Jr.	Unit 4	6002	3.9232E-06
19	Northampton Generating Company, L.P.	GEN1	50888	4.1583E-06
20	Sandow Station	5B	52071	4.3158E-06
21	R D Green	2	6639	4.8272E-06
22	Gerald Gentleman	U2	6077	4.8579E-06
23	Sheldon Station	U1	2277	4.8847E-06
24	Sioux	002	2107	4.8893E-06
25	Springerville	3	8223	5.0847E-06
26	Wygen 1	WYG1Cfg	55479	5.0942E-06
27	South Oak Creek	OCPP-B7	4041	5.0987E-06
28	Cholla	004	113	5.1565E-06
29	TransAlta Centralia Generation	BW22CONFIG	3845	5.3350E-06
30	Crist	Unit 5	641	5.4592E-06
31	Crist	Unit 6	641	5.4623E-06
32	Crist	Unit 7	641	5.7800E-06
33	Crist	Unit 4	641	5.7997E-06
34	Salem Harbor	Unit 1	1626	5.9121E-06
35	Chambers Cogeneration LP	Boil 1	10566	5.9658E-06
36	Sheldon Station	U2	2277	6.0915E-06
37	Pulliam	8	4072	6.2566E-06
38	Bridgeport Station	BHSEMU3OS3-#2	568	6.2760E-06

Table B-12 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Brandon Shores	002	602	6.6896E-06
40	RS Nelson	001	1393	6.7335E-06
41	Sandow Station	5A	52071	6.8363E-06
42	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	7.3939E-06
43	Southampton Power Station	Unit 1 & 2	10774	7.4717E-06
44	Cope	COP001	7210	7.5673E-06
45	Neil Simpson II	NS2Cfg	7504	7.7137E-06
46	Martin Drake	Unit 7 - Coal	492	7.8700E-06
47	H L Spurlock Station	Unit 03	6041	7.9118E-06
48	Taconite Harbor Energy Center	THEC2	10075	8.0523E-06
49	Cedar Bay Generating Company L.P.	CBC1	10672	8.1874E-06
50	Gibson	1-2007-FGDIN	6113	8.5504E-06
51	Nebraska City	NC2	6096	8.6743E-06
52	Gibson	2-2007-FGDIN	6113	8.7912E-06
53	Indiantown Cogeneration L.P.	001	50976	9.0891E-06
54	AES Shady Point,LLC	Unit 1	10671	9.2203E-06
55	AES Shady Point,LLC	Unit 2	10671	9.2203E-06
56	Silver Bay Power	GEN1	10849	9.6068E-06
57	Cane Run	CR4	1363	9.7611E-06
58	Morgantown Energy Facility	Unit 1&2	10743	9.9160E-06
59	Duck Creek	001	6016	9.9688E-06
60	Hayden	Unit 1	525	1.0617E-05
61	Walter Scott Jr. Energy Center	4	1082	1.1111E-05
62	Muscatine #1	8	1167	1.1332E-05
63	AES Warrior Run Cogeneration Facility	BLR1	10678	1.1372E-05
64	Hammond	Unit 2	708	1.1381E-05
65	Hammond	Unit 3	708	1.1415E-05
66	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	1.1479E-05
67	Hammond	Unit 1	708	1.1589E-05
68	Twin Oaks Power One	U2	7030	1.1702E-05
69	Newton	002	6017	1.1952E-05
70	Taconite Harbor Energy Center	THEC1	10075	1.2072E-05
71	Hammond	Unit 4	708	1.2073E-05
72	San Juan	Unit 3	2451	1.2099E-05
73	J T Deely	2	6181	1.2906E-05
74	J T Deely	1	6181	1.2906E-05
75	Spruance Genco, LLC	GEN2	54081	1.3035E-05
76	Asheville Steam Electric Plant	Ash_Cfg_2	2706	1.3054E-05
77	Spruance Genco, LLC	GEN1	54081	1.3375E-05
78	Dunkirk Generating Plant	4	2554	1.3602E-05

Table B-12 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	AES Hawaii	002	10673	1.3717E-05
80	Hawthorn	5A	2079	1.3738E-05
81	Craig	C2	6021	1.4005E-05
82	Lansing	Unit 4	1047	1.4015E-05
83	H L Spurlock Station	Unit 04	6041	1.4079E-05
84	PPL Montour	U2	3149	1.4098E-05
85	Comanche	Unit 2	470	1.4258E-05
86	Dunkirk Generating Plant	1	2554	1.4712E-05
87	San Juan	Unit 2	2451	1.4728E-05
88	Stanton Energy Center	2 coal	564	1.5160E-05
89	James River Cogeneration Co	UNIT2	10377	1.5788E-05
90	Spruance Genco, LLC	GEN4	54081	1.5984E-05
91	Consumers Energy - J.H. Campbell	JHC2-Conf	1710	1.6382E-05
92	Seward	SEW-1	3130	1.6642E-05
93	Seward	SEW-2	3130	1.6642E-05
94	Shawville	SHAW4-1	3131	1.6707E-05
95	Shawville	SHAW3-1	3131	1.6707E-05
96	Consumers Energy - J.H. Campbell	JHC1-Conf	1710	1.6883E-05
97	Whelan Energy Center Unit 1 (WEC1)	1	60	1.7011E-05
98	Sunnyside Cogen Associates	Config 1	50951	1.7128E-05
99	Hopewell	1 & 2	10771	1.7135E-05
100	Hayden	Unit 2	525	1.7153E-05
101	Lawrence Energy Center	3	1250	1.7158E-05
102	McMeekin	MCM002	3287	1.7275E-05
103	AES Puerto Rico Cogeneration Facility	Unit_1	68029	1.7342E-05
104	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	1.7354E-05
105	Elmer Smith Station	Unit001	1374	1.7771E-05
106	Elmer Smith Station	Unit002	1374	1.7771E-05
107	Grant Town Power Plant	GEN1	10151	1.9834E-05
108	AES Puerto Rico Cogeneration Facility	Unit_2	68029	1.9872E-05
109	Sibley	3	2094	2.0058E-05
110	Welsh	WE-1	6139	2.0070E-05
111	Joppa Steam	1	887	2.0112E-05
112	Cane Run	CR5	1363	2.0173E-05
113	Panther Creek Energy Facility	BG2	50776	2.0200E-05
114	Panther Creek Energy Facility	BG1	50776	2.0200E-05
115	Scrubgrass Generating Company L.P.	Gen 1	50974	2.0499E-05
116	Hardin Generator Project	PC1	55749	2.0620E-05
117	Eagle Valley	6	991	2.0670E-05
118	Harding Street	70ss	990	2.0910E-05

Table B-12 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	McMeekin	MCM001	3287	2.0974E-05
120	TS Power Plant	TSPower	56224	2.1185E-05
121	Erickson Station	001	1832	2.1547E-05
122	Elm Road Generating Station	ERGS-B1	56068	2.1720E-05
123	Eastlake	Unit 1	2837	2.1835E-05
124	Sibley	1	2094	2.2752E-05
125	Hennepin Power Station	001	892	2.3233E-05
126	Birchwood Power Facility	1A	54304	2.3518E-05
127	Hennepin Power Station	002	892	2.3990E-05
128	Spruance Genco, LLC	GEN3	54081	2.4330E-05
129	Prairie Creek	Unit 1	1073	2.4659E-05
130	Sibley	2	2094	2.5249E-05
131	Harding Street	60s	990	2.5544E-05

Table B-13. ***Subcategory 1 and 2 Existing Sources***
Cobalt (Co) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Cholla	113	003	1.4315E-08
2	Northampton Generating Company, L.P.	50888	GEN1	2.7008E-08
3	Martin Drake	492	Unit 5 - Coal	2.9239E-08
4	Cholla	113	004	3.7332E-08
5	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	3.9954E-08
6	Havana	891	Boiler 9	4.8202E-08
7	Weston	4078	W4	5.0290E-08
8	Martin Drake	492	Unit 7 - Coal	5.4409E-08
9	Hayden	525	Unit 2	5.6334E-08
10	Hayden	525	Unit 1	5.8212E-08
11	Springerville	8223	3	5.9429E-08
12	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	5.9678E-08
13	Duck Creek	6016	001	6.0244E-08
14	J K Spruce	7097	1	6.1586E-08
15	Salem Harbor	1626	Unit 1	6.6659E-08
16	Brandon Shores	602	002	6.7093E-08
17	AES Hawaii	10673	001	7.4125E-08
18	Cedar Bay Generating Company L.P.	10672	CBA1	7.6599E-08
19	Elm Road Generating Station	56068	ERGS-B1	7.6895E-08
20	Cope	7210	COP001	7.7089E-08
21	Rawhide	6761	Rawhide101	8.3843E-08
22	Sioux	2107	002	8.4769E-08
23	AES Hawaii	10673	002	8.9379E-08
24	Sunnyside Cogen Associates	50951	Config 1	9.1072E-08
25	Cedar Bay Generating Company L.P.	10672	CBB1	9.4274E-08
26	Craig	6021	C2	1.1281E-07
27	Dunkirk Generating Plant	2554	1	1.1491E-07
28	PPL Montour	3149	U1	1.1555E-07
29	Gerald Gentleman	6077	U1	1.1774E-07
30	James River Cogeneration Co	10377	UNIT2	1.2025E-07
31	James H. Miller Jr.	6002	Unit 4	1.2193E-07
32	Gibson	6113	1-2007-FGDIN	1.2481E-07
33	Dunkirk Generating Plant	2554	4	1.2531E-07
34	South Oak Creek	4041	OCPP-B7	1.2557E-07
35	G G Allen	2718	3-2009-FGDIN	1.2619E-07
36	G G Allen	2718	4-2009-FGDIN	1.2619E-07
37	Welsh	6139	WE-1	1.2778E-07

Table B-13 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Pulliam	4072	8	1.4481E-07
39	Sheldon Station	2277	U1	1.4559E-07
40	Clover	7213	Unit 2	1.4918E-07
41	Sheldon Station	2277	U2	1.5308E-07
42	Gibson	6113	2-2007-FGDIN	1.5392E-07
43	Bridgeport Station	568	BHSEMU3OS3-#2	1.7041E-07
44	AES Warrior Run Cogeneration Facility	10678	BLR1	1.7288E-07
45	McMeekin	3287	MCM002	1.7379E-07
46	Ebensburg Power Company	10603	EPC01	1.7400E-07
47	Birchwood Power Facility	54304	1A	1.7643E-07
48	PPL Montour	3149	U2	1.8274E-07
49	R D Green	6639	2	1.8447E-07
50	Clover	7213	Unit 1	1.8919E-07
51	Colbert	47	3	1.8922E-07
52	East Bend Station	6018	2	1.9344E-07
53	Hatfield's Ferry Power Station	3179	001	1.9685E-07
54	Morgantown Energy Facility	10743	Unit 1&2	1.9929E-07
55	Hammond	708	Unit 2	2.0159E-07
56	Hammond	708	Unit 3	2.0159E-07
57	Hammond	708	Unit 1	2.0159E-07
58	Hammond	708	Unit 4	2.0159E-07
59	Panther Creek Energy Facility	50776	BG2	2.2084E-07
60	Panther Creek Energy Facility	50776	BG1	2.2084E-07
61	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	2.3664E-07
62	Lawrence Energy Center	1250	3	2.4549E-07
63	Crist	641	Unit 5	2.5056E-07
64	Crist	641	Unit 6	2.5056E-07
65	Crist	641	Unit 7	2.5056E-07
66	Crist	641	Unit 4	2.5056E-07
67	Weston	4078	W3	2.5699E-07
68	San Juan	2451	Unit 3	2.5719E-07
69	Hennepin Power Station	892	001	2.5853E-07
70	Hennepin Power Station	892	002	2.5853E-07
71	Nebraska City	6096	NC2	2.5929E-07
72	Southampton Power Station	10774	Unit 1 & 2	2.7010E-07
73	Gerald Gentleman	6077	U2	2.7652E-07
74	H L Spurlock Station	6041	Unit 01	2.7932E-07
75	Cardinal	2828	CD-U3	2.8788E-07
76	Taconite Harbor Energy Center	10075	THEC2	2.8844E-07
77	H L Spurlock Station	6041	Unit 03	2.9113E-07

Table B-13 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	Asheville Steam Electric Plant	2706	Ash_Cfg_2	2.9469E-07
79	Whelan Energy Center Unit 1 (WEC1)	60	1	3.0043E-07
80	Spruance Genco, LLC	54081	GEN2	3.0058E-07
81	Comanche	470	Unit 2	3.0135E-07
82	Colstrip	6076	Unit3	3.1864E-07
83	Cross	130	C3	3.2102E-07
84	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	3.3304E-07
85	Walter Scott Jr. Energy Center	1082	4	3.3751E-07
86	Cross	130	C4	3.3960E-07
87	Springerville	8223	4	3.5275E-07
88	Silver Bay Power	10849	GEN1	3.8517E-07
89	Eastlake	2837	Unit 3	3.9706E-07
90	Herbert A. Wagner	1554	002	3.9925E-07
91	Erickson Station	1832	001	4.0384E-07
92	Elmer Smith Station	1374	Unit001	4.0539E-07
93	Elmer Smith Station	1374	Unit002	4.0539E-07
94	Cane Run	1363	CR4	4.0844E-07
95	Cane Run	1363	CR5	4.0944E-07
96	PPL Brunner Island	3140	U2	4.0959E-07
97	PPL Brunner Island	3140	U1	4.0959E-07
98	Piney Creek Project	54144	BRBRI	4.1053E-07
99	Shawville	3131	SHAW4-1	4.1447E-07
100	Shawville	3131	SHAW3-1	4.1447E-07
101	Tanners Creek	988	TC-4	4.1581E-07
102	H L Spurlock Station	6041	Unit 04	4.3708E-07
103	San Juan	2451	Unit 2	4.4069E-07
104	Spruance Genco, LLC	54081	GEN1	4.4198E-07
105	Newton	6017	002	4.4428E-07
106	Muscatine #1	1167	8	4.5363E-07
107	Cedar Bay Generating Company L.P.	10672	CBC1	4.7453E-07
108	W H Zimmer	6019	1	4.7463E-07
109	Colver Power Project	10143	AAB01	4.7800E-07
110	Cross	130	C1	4.9014E-07
111	R.M. Schahfer	6085	R.M.0014	5.0218E-07
112	Eddystone Generating Station	3161	Unit 2	5.0536E-07
113	Cambria Cogen	10641	002	5.1431E-07
114	San Juan	2451	Unit 4	5.2722E-07
115	Red Hills Generating Facility	55076	002	5.3761E-07
116	Red Hills Generating Facility	55076	001	5.3761E-07
117	Elrama Power Plant	3098	ELR4-2	5.6360E-07

Table B-13 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Elrama Power Plant	3098	ELR3-2	5.6360E-07
119	Elrama Power Plant	3098	ELR1-2	5.6360E-07
120	Elrama Power Plant	3098	ELR2-2	5.6360E-07
121	La Cygne	1241	2	5.6997E-07
122	Hawthorn	2079	5A	5.8796E-07
123	Clinch River	3775	CR-1	6.0793E-07
124	McMeekin	3287	MCM001	6.2915E-07
125	Spruance Genco, LLC	54081	GEN4	6.3966E-07
126	Consumers Energy - J.H. Campbell	1710	JHC2-Conf	6.3987E-07
127	Consumers Energy - J.H. Campbell	1710	JHC1-Conf	6.3987E-07
128	Sibley	2094	3	6.4664E-07
129	Sibley	2094	1	6.4664E-07
130	Sibley	2094	2	6.4664E-07
131	A. B. Brown Generating Station	6137	1Config	6.5498E-07

Table B-14. ***Subcategory 1 and 2 Existing Sources***
Cobalt (Co) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Cholla	003	113	1.3748E-07
2	Northampton Generating Company, L.P.	GEN1	50888	2.5579E-07
3	Cedar Bay Generating Company L.P.	CBA1	10672	2.9080E-07
4	Martin Drake	Unit 5 - Coal	492	3.0302E-07
5	Cedar Bay Generating Company L.P.	CBB1	10672	3.5790E-07
6	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	3.6110E-07
7	AES Hawaii	001	10673	3.7296E-07
8	Cholla	004	113	3.7490E-07
9	AES Hawaii	002	10673	4.1572E-07
10	Weston	W4	4078	4.5283E-07
11	Havana	Boiler 9	891	5.0407E-07
12	Hayden	Unit 2	525	5.3606E-07
13	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	5.3936E-07
14	Springerville	3	8223	5.5467E-07
15	Hayden	Unit 1	525	5.6570E-07
16	Martin Drake	Unit 7 - Coal	492	5.6918E-07
17	Brandon Shores	002	602	6.5148E-07
18	J K Spruce	1	7097	6.7543E-07
19	Duck Creek	001	6016	6.7774E-07
20	Cope	COP001	7210	7.0955E-07
21	Elm Road Generating Station	ERGS-B1	56068	7.3999E-07
22	Rawhide	Rawhide101	6761	7.6971E-07
23	Sioux	002	2107	7.9592E-07
24	Salem Harbor	Unit 1	1626	8.0316E-07
25	G G Allen	3-2009-FGDIN	2718	9.9875E-07
26	G G Allen	4-2009-FGDIN	2718	1.0102E-06
27	PPL Montour	U1	3149	1.0495E-06
28	Craig	C2	6021	1.0561E-06
29	Sunnyside Cogen Associates	Config 1	50951	1.0625E-06
30	South Oak Creek	OCPP-B7	4041	1.1227E-06
31	James H. Miller Jr.	Unit 4	6002	1.1766E-06
32	Dunkirk Generating Plant	4	2554	1.1798E-06
33	Welsh	WE-1	6139	1.1807E-06
34	Gibson	1-2007-FGDIN	6113	1.2024E-06
35	Gerald Gentleman	U1	6077	1.2412E-06
36	Dunkirk Generating Plant	1	2554	1.2467E-06
37	James River Cogeneration Co	UNIT2	10377	1.2572E-06
38	McMeekin	MCM002	3287	1.4499E-06

Table B-14 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Gibson	2-2007-FGDIN	6113	1.5005E-06
40	Sheldon Station	U1	2277	1.5629E-06
41	Morgantown Energy Facility	Unit 1&2	10743	1.5634E-06
42	Pulliam	8	4072	1.5856E-06
43	Sheldon Station	U2	2277	1.6437E-06
44	PPL Montour	U2	3149	1.6702E-06
45	Clover	Unit 2	7213	1.7328E-06
46	Bridgeport Station	BHSEMU3OS3-#2	568	1.7337E-06
47	AES Warrior Run Cogeneration Facility	BLR1	10678	1.7519E-06
48	Southampton Power Station	Unit 1 & 2	10774	1.7656E-06
49	Cedar Bay Generating Company L.P.	CBC1	10672	1.8015E-06
50	Birchwood Power Facility	1A	54304	1.8279E-06
51	East Bend Station	2	6018	1.8767E-06
52	Hatfield's Ferry Power Station	001	3179	1.9017E-06
53	Hammond	Unit 2	708	1.9950E-06
54	Hammond	Unit 3	708	2.0009E-06
55	Colbert	3	47	2.0067E-06
56	Hammond	Unit 1	708	2.0313E-06
57	R D Green	2	6639	2.1045E-06
58	Hammond	Unit 4	708	2.1162E-06
59	Clover	Unit 1	7213	2.1610E-06
60	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	2.3080E-06
61	Cardinal	CD-U3	2828	2.3363E-06
62	Weston	W3	4078	2.4064E-06
63	H L Spurlock Station	Unit 03	6041	2.4261E-06
64	Ebensburg Power Company	EPC01	10603	2.4900E-06
65	Crist	Unit 5	641	2.4990E-06
66	Crist	Unit 6	641	2.5004E-06
67	Nebraska City	NC2	6096	2.6310E-06
68	Crist	Unit 7	641	2.6458E-06
69	Crist	Unit 4	641	2.6549E-06
70	Hennepin Power Station	001	892	2.6749E-06
71	San Juan	Unit 3	2451	2.7222E-06
72	Lawrence Energy Center	3	1250	2.7300E-06
73	Asheville Steam Electric Plant	Ash_Cfg_2	2706	2.7476E-06
74	Hennepin Power Station	002	892	2.7621E-06
75	Gerald Gentleman	U2	6077	2.7793E-06
76	Panther Creek Energy Facility	BG2	50776	2.8495E-06
77	Panther Creek Energy Facility	BG1	50776	2.8495E-06
78	Comanche	Unit 2	470	2.8748E-06

Table B-14 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	H L Spurlock Station	Unit 01	6041	2.9564E-06
80	Colstrip	Unit3	6076	2.9975E-06
81	Whelan Energy Center Unit 1 (WEC1)	1	60	3.0370E-06
82	Walter Scott Jr. Energy Center	4	1082	3.0475E-06
83	Cross	C3	130	3.1116E-06
84	Silver Bay Power	GEN1	10849	3.1834E-06
85	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	3.2655E-06
86	Springerville	4	8223	3.2924E-06
87	Eastlake	Unit 3	2837	3.3226E-06
88	Taconite Harbor Energy Center	THEC2	10075	3.3250E-06
89	Elmer Smith Station	Unit001	1374	3.3626E-06
90	Elmer Smith Station	Unit002	1374	3.3626E-06
91	Tanners Creek	TC-4	988	3.5792E-06
92	Cross	C4	130	3.6938E-06
93	Spruance Genco, LLC	GEN2	54081	3.9275E-06
94	Newton	002	6017	3.9412E-06
95	PPL Brunner Island	U2	3140	3.9499E-06
96	Shawville	SHAW4-1	3131	3.9551E-06
97	Shawville	SHAW3-1	3131	3.9551E-06
98	H L Spurlock Station	Unit 04	6041	4.0794E-06
99	Erickson Station	001	1832	4.0825E-06
100	Herbert A. Wagner	002	1554	4.0971E-06
101	PPL Brunner Island	U1	3140	4.1517E-06
102	Eddystone Generating Station	Unit 2	3161	4.1860E-06
103	Scrubgrass Generating Company L.P.	Gen 1	50974	4.2453E-06
104	W H Zimmer	1	6019	4.2663E-06
105	San Juan	Unit 2	2451	4.3926E-06
106	Grant Town Power Plant	GEN1	10151	4.6597E-06
107	Cane Run	CR5	1363	4.9360E-06
108	Muscatine #1	8	1167	4.9778E-06
109	R.M. Schahfer	R.M.0014	6085	4.9896E-06
110	Red Hills Generating Facility	002	55076	5.1230E-06
111	Piney Creek Project	BRBRI	54144	5.1317E-06
112	Red Hills Generating Facility	001	55076	5.1632E-06
113	Cross	C1	130	5.2244E-06
114	Colver Power Project	AAB01	10143	5.2325E-06
115	McMeekin	MCM001	3287	5.3291E-06
116	San Juan	Unit 4	2451	5.4748E-06
117	Clinch River	CR-1	3775	5.5530E-06
118	Cane Run	CR4	1363	5.6160E-06

Table B-14 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Spruance Genco, LLC	GEN1	54081	5.7750E-06
120	Consumers Energy - J.H. Campbell	JHC2-Conf	1710	5.8033E-06
121	Elrama Power Plant	ELR4-2	3098	5.8523E-06
122	Elrama Power Plant	ELR3-2	3098	5.8750E-06
123	Cambria Cogen	002	10641	5.8778E-06
124	Consumers Energy - J.H. Campbell	JHC1-Conf	1710	5.9807E-06
125	A. B. Brown Generating Station	1Config	6137	6.2235E-06
126	South Oak Creek	OCPP-B8	4041	6.2625E-06
127	Sibley	3	2094	6.3184E-06
128	La Cygne	2	1241	6.4070E-06
129	Joppa Steam	1	887	6.5256E-06
130	Hawthorn	5A	2079	6.5328E-06
131	Taconite Harbor Energy Center	THEC1	10075	6.9089E-06

Table B-15. ***Subcategory 1 and 2 Existing Sources***
Lead (Pb) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Oak Grove	6180	OG1	2.5577E-08
2	Reid Gardner	2324	1	9.0551E-08
3	Weston	4078	W4	9.9562E-08
4	TransAlta Centralia Generation	3845	BW21CONFIG	1.2896E-07
5	Rawhide	6761	Rawhide101	1.3236E-07
6	Dallman	963	34	1.3600E-07
7	Brandon Shores	602	002	1.4171E-07
8	Havana	891	Boiler 9	1.5555E-07
9	AES Shady Point,LLC	10671	Unit 1	1.7942E-07
10	AES Shady Point,LLC	10671	Unit 2	1.7942E-07
11	Cholla	113	004	1.8284E-07
12	Logan Generating Plant	10043	Unit1	1.8499E-07
13	AES Hawaii	10673	002	1.8823E-07
14	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	1.8879E-07
15	Chambers Cogeneration LP	10566	Boil 2	1.9971E-07
16	Walter Scott Jr. Energy Center	1082	4	2.0000E-07
17	Asheville Steam Electric Plant	2706	Ash_Cfg_2	2.1983E-07
18	Cope	7210	COP001	2.3286E-07
19	Craig	6021	C2	2.3491E-07
20	R D Green	6639	2	2.3581E-07
21	TransAlta Centralia Generation	3845	BW22CONFIG	2.4106E-07
22	Northampton Generating Company, L.P.	50888	GEN1	2.4467E-07
23	AES Hawaii	10673	001	2.5955E-07
24	Wygen 2	56319	WYG2Cfg	2.6068E-07
25	Gerald Gentleman	6077	U2	2.6402E-07
26	H L Spurlock Station	6041	Unit 04	2.6700E-07
27	Duck Creek	6016	001	2.7008E-07
28	Crist	641	Unit 5	2.7154E-07
29	Crist	641	Unit 6	2.7154E-07
30	Crist	641	Unit 7	2.7154E-07
31	Crist	641	Unit 4	2.7154E-07
32	Chambers Cogeneration LP	10566	Boil 1	2.7617E-07
33	Elm Road Generating Station	56068	ERGS-B1	2.7919E-07
34	Clover	7213	Unit 2	2.8178E-07
35	South Oak Creek	4041	OCPP-B7	2.8913E-07
36	Sheldon Station	2277	U1	2.9119E-07
37	Wygen 1	55479	WYG1Cfg	2.9383E-07

Table B-15 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	3.0277E-07
39	Welsh	6139	WE-1	3.1190E-07
40	Dunkirk Generating Plant	2554	1	3.1348E-07
41	Sunnyside Cogen Associates	50951	Config 1	3.1721E-07
42	J K Spruce	7097	1	3.1761E-07
43	Sheldon Station	2277	U2	3.2129E-07
44	A. B. Brown Generating Station	6137	1Config	3.2147E-07
45	San Juan	2451	Unit 3	3.2299E-07
46	Neil Simpson II	7504	NS2Cfg	3.2935E-07
47	Cedar Bay Generating Company L.P.	10672	CBA1	3.2951E-07
48	Cedar Bay Generating Company L.P.	10672	CBB1	3.3319E-07
49	Dunkirk Generating Plant	2554	4	3.3841E-07
50	AES Warrior Run Cogeneration Facility	10678	BLR1	3.4524E-07
51	Stanton Energy Center	564	2 coal	3.4737E-07
52	Bridgeport Station	568	BHSEMU3OS3-#2	3.4743E-07
53	Springerville	8223	4	3.5303E-07
54	Clover	7213	Unit 1	3.6458E-07
55	James H. Miller Jr.	6002	Unit 4	3.7468E-07
56	San Juan	2451	Unit 2	3.7876E-07
57	Springerville	8223	3	3.8553E-07
58	Gibson	6113	1-2007-FGDIN	3.9105E-07
59	Pulliam	4072	8	3.9747E-07
60	Cross	130	C3	3.9976E-07
61	Valley	4042	VAPP-B4	4.2887E-07
62	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	4.5783E-07
63	J T Deely	6181	2	4.6153E-07
64	J T Deely	6181	1	4.6153E-07
65	Gerald Gentleman	6077	U1	4.7643E-07
66	RS Nelson	1393	001	4.7787E-07
67	Indiantown Cogeneration L.P.	50976	001	4.9000E-07
68	Salem Harbor	1626	Unit 1	4.9694E-07
69	Sandow Station	52071	5A	5.0780E-07
70	TS Power Plant	56224	TSPower	5.0883E-07
71	Hatfield's Ferry Power Station	3179	001	5.1104E-07
72	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	5.1169E-07
73	Sioux	2107	002	5.1346E-07
74	Twin Oaks Power One	7030	U2	5.1492E-07
75	PPL Montour	3149	U2	5.2017E-07
76	G G Allen	2718	3-2009-FGDIN	5.2983E-07
77	G G Allen	2718	4-2009-FGDIN	5.2983E-07

Table B-15 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	Spruance Genco, LLC	54081	GEN2	5.3829E-07
79	Sandow Station	52071	5B	5.5531E-07
80	PPL Brunner Island	3140	U2	5.5680E-07
81	PPL Brunner Island	3140	U1	5.5680E-07
82	Gibson	6113	2-2007-FGDIN	5.6046E-07
83	Birchwood Power Facility	54304	1A	5.7816E-07
84	San Juan	2451	Unit 4	5.8652E-07
85	Cambria Cogen	10641	001	6.0585E-07
86	Piney Creek Project	54144	BRBRI	6.2054E-07
87	Eastlake	2837	Unit 3	6.3901E-07
88	Hammond	708	Unit 2	6.4907E-07
89	Hammond	708	Unit 3	6.4907E-07
90	Hammond	708	Unit 1	6.4907E-07
91	Hammond	708	Unit 4	6.4907E-07
92	Weston	4078	W3	6.5152E-07
93	Gallatin	3403	2	6.5947E-07
94	Newton	6017	002	6.6673E-07
95	PPL Montour	3149	U1	6.7769E-07
96	AES Puerto Rico Cogeneration Facility	68029	Unit_1	6.7876E-07
97	Comanche	470	Unit 2	6.8083E-07
98	Southampton Power Station	10774	Unit 1 & 2	6.9037E-07
99	Cardinal	2828	CD-U3	7.0213E-07
100	Iatan	6065	1	7.2000E-07
101	Herbert A. Wagner	1554	002	7.3207E-07
102	Cedar Bay Generating Company L.P.	10672	CBC1	7.6627E-07
103	Whelan Energy Center Unit 1 (WEC1)	60	1	7.7806E-07
104	Cross	130	C4	7.8335E-07
105	Spruance Genco, LLC	54081	GEN1	7.8881E-07
106	Silver Bay Power	10849	GEN1	9.2110E-07
107	Craig	6021	C1	9.2528E-07
108	Cambria Cogen	10641	002	9.4512E-07
109	Hayden	525	Unit 1	9.5925E-07
110	Muscatine #1	1167	8	9.6746E-07
111	Nebraska City	6096	NC2	9.7181E-07
112	East Bend Station	6018	2	9.8002E-07
113	Scrubgrass Generating Company L.P.	50974	Gen 1	1.0000E-06
114	Roanoke Valley II	54755	Boiler 2	1.0049E-06
115	Cholla	113	003	1.0104E-06
116	McMeekin	3287	MCM002	1.0192E-06
117	W H Zimmer	6019	1	1.0471E-06

Table B-15 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Hardin Generator Project	55749	PC1	1.0484E-06
119	San Juan	2451	Unit 1	1.0505E-06
120	New Castle Plant	3138	NC3-2	1.0528E-06
121	AES Puerto Rico Cogeneration Facility	68029	Unit_2	1.0570E-06
122	Hayden	525	Unit 2	1.0650E-06
123	Martin Drake	492	Unit 5 - Coal	1.0690E-06
124	Lansing	1047	Unit 4	1.1100E-06
125	Cross	130	C1	1.1159E-06
126	Valley	4042	VAPP-B3	1.1750E-06
127	Eastlake	2837	Unit 1	1.1756E-06
128	Elmer Smith Station	1374	Unit001	1.1955E-06
129	Elmer Smith Station	1374	Unit002	1.1955E-06
130	Spruance Genco, LLC	54081	GEN4	1.2123E-06
131	W.H. Weatherspoon Plant	2716	Wea_Cfg_1	1.3095E-06

Table B-16. ***Subcategory 1 and 2 Existing Sources***
Lead (Pb) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Oak Grove	OG1	6180	2.8082E-07
2	AES Hawaii	002	10673	8.7551E-07
3	Weston	W4	4078	8.9650E-07
4	Chambers Cogeneration LP	Boil 2	10566	9.7193E-07
5	Reid Gardner	1	2324	9.9116E-07
6	Dallman	34	963	1.1412E-06
7	Rawhide	Rawhide101	6761	1.2151E-06
8	Cedar Bay Generating Company L.P.	CBA1	10672	1.2509E-06
9	Cedar Bay Generating Company L.P.	CBB1	10672	1.2649E-06
10	AES Hawaii	001	10673	1.3060E-06
11	Chambers Cogeneration LP	Boil 1	10566	1.3440E-06
12	Brandon Shores	002	602	1.3760E-06
13	Logan Generating Plant	Unit1	10043	1.6195E-06
14	Havana	Boiler 9	891	1.6266E-06
15	TransAlta Centralia Generation	BW21CONFIG	3845	1.6559E-06
16	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	1.7063E-06
17	Walter Scott Jr. Energy Center	4	1082	1.8059E-06
18	Cholla	004	113	1.8362E-06
19	Asheville Steam Electric Plant	Ash_Cfg_2	2706	2.0496E-06
20	Cope	COP001	7210	2.1433E-06
21	Craig	C2	6021	2.1992E-06
22	AES Shady Point,LLC	Unit 1	10671	2.2451E-06
23	AES Shady Point,LLC	Unit 2	10671	2.2451E-06
24	Northampton Generating Company, L.P.	GEN1	50888	2.3172E-06
25	H L Spurlock Station	Unit 04	6041	2.4920E-06
26	South Oak Creek	OCPP-B7	4041	2.5850E-06
27	Gerald Gentleman	U2	6077	2.6536E-06
28	Elm Road Generating Station	ERGS-B1	56068	2.6867E-06
29	R D Green	2	6639	2.6902E-06
30	Crist	Unit 5	641	2.7082E-06
31	Crist	Unit 6	641	2.7097E-06
32	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	2.7364E-06
33	Crist	Unit 7	641	2.8673E-06
34	Crist	Unit 4	641	2.8771E-06
35	Welsh	WE-1	6139	2.8820E-06
36	Cedar Bay Generating Company L.P.	CBC1	10672	2.9091E-06
37	Duck Creek	001	6016	3.0384E-06
38	A. B. Brown Generating Station	1Config	6137	3.0545E-06

Table B-16 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Sheldon Station	U1	2277	3.1257E-06
40	Stanton Energy Center	2 coal	564	3.1813E-06
41	Dunkirk Generating Plant	4	2554	3.1863E-06
42	Clover	Unit 2	7213	3.2730E-06
43	TransAlta Centralia Generation	BW22CONFIG	3845	3.2920E-06
44	Springerville	4	8223	3.2950E-06
45	Wygen 1	WYG1Cfg	55479	3.4000E-06
46	Dunkirk Generating Plant	1	2554	3.4011E-06
47	San Juan	Unit 3	2451	3.4187E-06
48	Sheldon Station	U2	2277	3.4499E-06
49	J K Spruce	1	7097	3.4833E-06
50	AES Warrior Run Cogeneration Facility	BLR1	10678	3.4985E-06
51	Wygen 2	WYG2Cfg	56319	3.5300E-06
52	Bridgeport Station	BHSEMU3OS3-#2	568	3.5347E-06
53	Springerville	3	8223	3.5983E-06
54	James H. Miller Jr.	Unit 4	6002	3.6154E-06
55	Sunnyside Cogen Associates	Config 1	50951	3.7007E-06
56	Gibson	1-2007-FGDIN	6113	3.7673E-06
57	San Juan	Unit 2	2451	3.7753E-06
58	Cross	C3	130	3.8748E-06
59	Neil Simpson II	NS2Cfg	7504	4.1169E-06
60	Clover	Unit 1	7213	4.1644E-06
61	G G Allen	3-2009-FGDIN	2718	4.1935E-06
62	G G Allen	4-2009-FGDIN	2718	4.2415E-06
63	Pulliam	8	4072	4.3522E-06
64	J T Deely	2	6181	4.3599E-06
65	J T Deely	1	6181	4.3599E-06
66	TS Power Plant	TSPower	56224	4.4407E-06
67	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	4.4654E-06
68	Southampton Power Station	Unit 1 & 2	10774	4.5128E-06
69	Indiantown Cogeneration L.P.	001	50976	4.6448E-06
70	RS Nelson	001	1393	4.7466E-06
71	PPL Montour	U2	3149	4.7545E-06
72	Sioux	002	2107	4.8211E-06
73	Hatfield's Ferry Power Station	001	3179	4.9372E-06
74	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	5.0172E-06
75	Gerald Gentleman	U1	6077	5.0228E-06
76	Twin Oaks Power One	U2	7030	5.1402E-06
77	Valley	VAPP-B4	4042	5.1703E-06
78	Sandow Station	5A	52071	5.3235E-06

Table B-16 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Eastlake	Unit 3	2837	5.3473E-06
80	PPL Brunner Island	U2	3140	5.3696E-06
81	Gibson	2-2007-FGDIN	6113	5.4639E-06
82	PPL Brunner Island	U1	3140	5.6439E-06
83	Cardinal	CD-U3	2828	5.6981E-06
84	Sandow Station	5B	52071	5.8215E-06
85	Newton	002	6017	5.9146E-06
86	Salem Harbor	Unit 1	1626	5.9876E-06
87	Birchwood Power Facility	1A	54304	5.9899E-06
88	Gallatin	2	3403	6.0451E-06
89	San Juan	Unit 4	2451	6.0905E-06
90	Weston	W3	4078	6.1008E-06
91	PPL Montour	U1	3149	6.1554E-06
92	Hammond	Unit 2	708	6.4232E-06
93	Hammond	Unit 3	708	6.4421E-06
94	Scrubgrass Generating Company L.P.	Gen 1	50974	6.4433E-06
95	Comanche	Unit 2	470	6.4949E-06
96	Hammond	Unit 1	708	6.5401E-06
97	AES Puerto Rico Cogeneration Facility	Unit_1	68029	6.5518E-06
98	Hammond	Unit 4	708	6.8134E-06
99	Cambria Cogen	001	10641	6.9240E-06
100	Spruance Genco, LLC	GEN2	54081	7.0334E-06
101	Herbert A. Wagner	002	1554	7.5126E-06
102	Silver Bay Power	GEN1	10849	7.6126E-06
103	Iatan	1	6065	7.7355E-06
104	Piney Creek Project	BRBRI	54144	7.7568E-06
105	Whelan Energy Center Unit 1 (WEC1)	1	60	7.8653E-06
106	Craig	C1	6021	8.1733E-06
107	McMeekin	MCM002	3287	8.5032E-06
108	Cross	C4	130	8.5204E-06
109	Hayden	Unit 1	525	9.3218E-06
110	W H Zimmer	1	6019	9.4123E-06
111	East Bend Station	2	6018	9.5077E-06
112	Cholla	003	113	9.7028E-06
113	Eastlake	Unit 1	2837	9.8376E-06
114	Nebraska City	NC2	6096	9.8609E-06
115	Elmer Smith Station	Unit001	1374	9.9164E-06
116	Elmer Smith Station	Unit002	1374	9.9164E-06
117	Hayden	Unit 2	525	1.0134E-05
118	AES Puerto Rico Cogeneration Facility	Unit_2	68029	1.0203E-05

Table B-16 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Spruance Genco, LLC	GEN1	54081	1.0307E-05
120	San Juan	Unit 1	2451	1.0524E-05
121	Muscatine #1	8	1167	1.0616E-05
122	Cambria Cogen	002	10641	1.0801E-05
123	New Castle Plant	NC3-2	3138	1.1011E-05
124	Lansing	Unit 4	1047	1.1033E-05
125	Martin Drake	Unit 5 - Coal	492	1.1078E-05
126	McMeekin	MCM001	3287	1.1165E-05
127	Roanoke Valley II	Boiler 2	54755	1.1255E-05
128	Hardin Generator Project	PC1	55749	1.1488E-05
129	W.H. Weatherspoon Plant	Wea_Cfg_1	2716	1.1662E-05
130	Cross	C1	130	1.1895E-05
131	Tanners Creek	TC-4	988	1.2673E-05

Table B-17. ***Subcategory 1 and 2 Existing Sources***
Manganese (Mn) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Oak Grove	6180	OG1	1.2151E-07
2	Weston	4078	W4	1.4799E-07
3	Dallman	963	34	2.0400E-07
4	Sandow Station	52071	5B	2.3401E-07
5	Martin Drake	492	Unit 5 - Coal	2.5234E-07
6	Sandow Station	52071	5A	2.5590E-07
7	Reid Gardner	2324	1	2.5855E-07
8	AES Shady Point,LLC	10671	Unit 1	2.6239E-07
9	AES Shady Point,LLC	10671	Unit 2	2.6239E-07
10	Chambers Cogeneration LP	10566	Boil 2	3.1159E-07
11	Wygen 1	55479	WYG1Cfg	3.8022E-07
12	Havana	891	Boiler 9	3.8840E-07
13	Cedar Bay Generating Company L.P.	10672	CBB1	4.1250E-07
14	Logan Generating Plant	10043	Unit1	4.6027E-07
15	Rawhide	6761	Rawhide101	4.6511E-07
16	Hayden	525	Unit 2	4.7748E-07
17	Cedar Bay Generating Company L.P.	10672	CBA1	5.2706E-07
18	Hayden	525	Unit 1	5.3478E-07
19	Northampton Generating Company, L.P.	50888	GEN1	5.4643E-07
20	Chambers Cogeneration LP	10566	Boil 1	5.4650E-07
21	J K Spruce	7097	1	6.2277E-07
22	Martin Drake	492	Unit 7 - Coal	6.5187E-07
23	AES Hawaii	10673	002	6.5271E-07
24	AES Hawaii	10673	001	6.7791E-07
25	Salem Harbor	1626	Unit 1	6.8794E-07
26	Neil Simpson II	7504	NS2Cfg	7.2869E-07
27	Dunkirk Generating Plant	2554	1	7.2900E-07
28	Gerald Gentleman	6077	U1	7.3258E-07
29	RS Nelson	1393	001	7.3393E-07
30	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	7.5119E-07
31	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	7.6205E-07
32	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	7.7107E-07
33	Spruance Genco, LLC	54081	GEN1	7.9050E-07
34	Dunkirk Generating Plant	2554	4	7.9304E-07
35	Spruance Genco, LLC	54081	GEN2	7.9956E-07
36	AES Warrior Run Cogeneration Facility	10678	BLR1	8.0291E-07
37	Gerald Gentleman	6077	U2	8.2139E-07

Table B-17 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Indiantown Cogeneration L.P.	50976	001	8.3978E-07
39	Sunnyside Cogen Associates	50951	Config 1	8.4930E-07
40	Sheldon Station	2277	U1	8.6787E-07
41	Sheldon Station	2277	U2	8.7820E-07
42	Cholla	113	004	8.9530E-07
43	Crist	641	Unit 5	9.1099E-07
44	Crist	641	Unit 6	9.1099E-07
45	Crist	641	Unit 7	9.1099E-07
46	Crist	641	Unit 4	9.1099E-07
47	Duck Creek	6016	001	9.2033E-07
48	Pulliam	4072	8	1.0290E-06
49	J T Deely	6181	2	1.0349E-06
50	J T Deely	6181	1	1.0349E-06
51	PPL Montour	3149	U1	1.0430E-06
52	PPL Montour	3149	U2	1.0524E-06
53	Sioux	2107	002	1.0892E-06
54	South Oak Creek	4041	OCPP-B7	1.0903E-06
55	Eagle Valley	991	6	1.1776E-06
56	Cane Run	1363	CR4	1.1846E-06
57	Spruance Genco, LLC	54081	GEN4	1.1877E-06
58	Comanche	470	Unit 2	1.2619E-06
59	Hawthorn	2079	5A	1.2681E-06
60	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	1.2989E-06
61	Wygen 2	56319	WYG2Cfg	1.3156E-06
62	Springerville	8223	4	1.3904E-06
63	Spruance Genco, LLC	54081	GEN3	1.4522E-06
64	Cane Run	1363	CR5	1.4698E-06
65	Whelan Energy Center Unit 1 (WEC1)	60	1	1.4829E-06
66	H L Spurlock Station	6041	Unit 04	1.5859E-06
67	Elm Road Generating Station	56068	ERGS-B1	1.5982E-06
68	Cedar Bay Generating Company L.P.	10672	CBC1	1.6182E-06
69	Hennepin Power Station	892	001	1.7003E-06
70	Hennepin Power Station	892	002	1.7003E-06
71	Southampton Power Station	10774	Unit 1 & 2	1.7020E-06
72	Cross	130	C3	1.7490E-06
73	TransAlta Centralia Generation	3845	BW22CONFIG	1.7514E-06
74	Seward	3130	SEW-1	1.7524E-06
75	Seward	3130	SEW-2	1.7524E-06
76	James H. Miller Jr.	6002	Unit 4	1.7839E-06
77	McMeekin	3287	MCM002	1.7903E-06

Table B-17 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	TransAlta Centralia Generation	3845	BW21CONFIG	1.8617E-06
79	San Juan	2451	Unit 3	1.8789E-06
80	San Juan	2451	Unit 4	1.9775E-06
81	Weston	4078	W3	2.0930E-06
82	R D Green	6639	2	2.1028E-06
83	H L Spurlock Station	6041	Unit 03	2.1149E-06
84	Hopewell	10771	1 & 2	2.1265E-06
85	Ebensburg Power Company	10603	EPC01	2.1700E-06
86	Cardinal	2828	CD-U3	2.1816E-06
87	Newton	6017	002	2.1915E-06
88	Elmer Smith Station	1374	Unit001	2.2432E-06
89	Elmer Smith Station	1374	Unit002	2.2432E-06
90	Sibley	2094	3	2.2683E-06
91	Sibley	2094	1	2.2683E-06
92	Sibley	2094	2	2.2683E-06
93	Panther Creek Energy Facility	50776	BG2	2.2897E-06
94	Panther Creek Energy Facility	50776	BG1	2.2897E-06
95	Silver Bay Power	10849	GEN1	2.3117E-06
96	Nebraska City	6096	NC2	2.3432E-06
97	Tanners Creek	988	TC-4	2.3583E-06
98	Welsh	6139	WE-1	2.3696E-06
99	Asheville Steam Electric Plant	2706	Ash_Cfg_2	2.3765E-06
100	Harding Street	990	60s	2.4559E-06
101	G G Allen	2718	3-2009-FGDIN	2.4843E-06
102	G G Allen	2718	4-2009-FGDIN	2.4843E-06
103	Cholla	113	003	2.5910E-06
104	La Cygne	1241	2	2.6078E-06
105	TS Power Plant	56224	TSPower	2.6699E-06
106	H L Spurlock Station	6041	Unit 01	2.6752E-06
107	Morgantown Energy Facility	10743	Unit 1&2	2.7505E-06
108	AES Puerto Rico Cogeneration Facility	68029	Unit_1	2.8462E-06
109	James River Cogeneration Co	10377	UNIT2	2.8652E-06
110	Bridgeport Station	568	BHSEMU3OS3-#2	2.8782E-06
111	Herbert A. Wagner	1554	002	2.8828E-06
112	San Juan	2451	Unit 2	2.9165E-06
113	Eastlake	2837	Unit 3	2.9487E-06
114	R.M. Schahfer	6085	R.M.0014	2.9970E-06
115	East Bend Station	6018	2	3.0280E-06
116	Springerville	8223	3	3.0408E-06
117	Taconite Harbor Energy Center	10075	THEC2	3.3359E-06

Table B-17 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	PPL Brunner Island	3140	U2	3.3751E-06
119	PPL Brunner Island	3140	U1	3.3751E-06
120	W H Zimmer	6019	1	3.3895E-06
121	Colver Power Project	10143	AAB01	3.3968E-06
122	Scholz	642	Unit 1	3.4946E-06
123	Hammond	708	Unit 2	3.6408E-06
124	Hammond	708	Unit 3	3.6408E-06
125	Hammond	708	Unit 1	3.6408E-06
126	Hammond	708	Unit 4	3.6408E-06
127	Erickson Station	1832	001	3.6458E-06
128	Mecklenburg Power Station	52007	Unit 1 & 2	3.7005E-06
129	AES Puerto Rico Cogeneration Facility	68029	Unit_2	3.7779E-06
130	Birchwood Power Facility	54304	1A	4.0069E-06
131	Piney Creek Project	54144	BRBRI	4.3688E-06

Table B-18. ***Subcategory 1 and 2 Existing Sources***
Manganese (Mn) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Weston	W4	4078	1.3326E-06
2	Oak Grove	OG1	6180	1.3341E-06
3	Chambers Cogeneration LP	Boil 2	10566	1.5164E-06
4	Cedar Bay Generating Company L.P.	CBB1	10672	1.5660E-06
5	Dallman	34	963	1.7118E-06
6	Cedar Bay Generating Company L.P.	CBA1	10672	2.0009E-06
7	Sandow Station	5B	52071	2.4532E-06
8	Martin Drake	Unit 5 - Coal	492	2.6152E-06
9	Chambers Cogeneration LP	Boil 1	10566	2.6596E-06
10	Sandow Station	5A	52071	2.6827E-06
11	Reid Gardner	1	2324	2.8301E-06
12	AES Hawaii	002	10673	3.0359E-06
13	AES Shady Point,LLC	Unit 1	10671	3.2833E-06
14	AES Shady Point,LLC	Unit 2	10671	3.2833E-06
15	AES Hawaii	001	10673	3.4109E-06
16	Logan Generating Plant	Unit1	10043	4.0295E-06
17	Havana	Boiler 9	891	4.0617E-06
18	Rawhide	Rawhide101	6761	4.2698E-06
19	Wygen 1	WYG1Cfg	55479	4.3997E-06
20	Hayden	Unit 2	525	4.5436E-06
21	Northampton Generating Company, L.P.	GEN1	50888	5.1753E-06
22	Hayden	Unit 1	525	5.1969E-06
23	Cedar Bay Generating Company L.P.	CBC1	10672	6.1435E-06
24	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	6.7892E-06
25	Martin Drake	Unit 7 - Coal	492	6.8192E-06
26	J K Spruce	1	7097	6.8301E-06
27	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	6.9689E-06
28	RS Nelson	001	1393	7.2900E-06
29	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	7.4325E-06
30	Dunkirk Generating Plant	4	2554	7.4668E-06
31	Gerald Gentleman	U1	6077	7.7233E-06
32	Dunkirk Generating Plant	1	2554	7.9092E-06
33	Indiantown Cogeneration L.P.	001	50976	7.9604E-06
34	AES Warrior Run Cogeneration Facility	BLR1	10678	8.1364E-06
35	Gerald Gentleman	U2	6077	8.2555E-06
36	Salem Harbor	Unit 1	1626	8.2889E-06
37	Cholla	004	113	8.9909E-06
38	Crist	Unit 5	641	9.0858E-06

Table B-18 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Crist	Unit 6	641	9.0910E-06
40	Neil Simpson II	NS2Cfg	7504	9.1086E-06
41	Sheldon Station	U1	2277	9.3160E-06
42	Sheldon Station	U2	2277	9.4298E-06
43	PPL Montour	U1	3149	9.4735E-06
44	PPL Montour	U2	3149	9.6195E-06
45	Crist	Unit 7	641	9.6197E-06
46	Crist	Unit 4	641	9.6525E-06
47	South Oak Creek	OCPP-B7	4041	9.7476E-06
48	J T Deely	2	6181	9.7764E-06
49	J T Deely	1	6181	9.7764E-06
50	Sunnyside Cogen Associates	Config 1	50951	9.9085E-06
51	Sioux	002	2107	1.0227E-05
52	Spruance Genco, LLC	GEN1	54081	1.0329E-05
53	Duck Creek	001	6016	1.0354E-05
54	Spruance Genco, LLC	GEN2	54081	1.0447E-05
55	Southampton Power Station	Unit 1 & 2	10774	1.1126E-05
56	Pulliam	8	4072	1.1268E-05
57	Eagle Valley	6	991	1.1406E-05
58	Comanche	Unit 2	470	1.2039E-05
59	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	1.2736E-05
60	Springerville	4	8223	1.2977E-05
61	Hopewell	1 & 2	10771	1.3369E-05
62	Hawthorn	5A	2079	1.4090E-05
63	H L Spurlock Station	Unit 04	6041	1.4802E-05
64	McMeekin	MCM002	3287	1.4937E-05
65	Whelan Energy Center Unit 1 (WEC1)	1	60	1.4990E-05
66	Elm Road Generating Station	ERGS-B1	56068	1.5380E-05
67	Spruance Genco, LLC	GEN4	54081	1.5519E-05
68	Cane Run	CR4	1363	1.6289E-05
69	Cross	C3	130	1.6953E-05
70	James H. Miller Jr.	Unit 4	6002	1.7213E-05
71	Hennepin Power Station	001	892	1.7592E-05
72	H L Spurlock Station	Unit 03	6041	1.7624E-05
73	Cardinal	CD-U3	2828	1.7705E-05
74	Cane Run	CR5	1363	1.7719E-05
75	Wygen 2	WYG2Cfg	56319	1.7815E-05
76	Hennepin Power Station	002	892	1.8165E-05
77	Seward	SEW-1	3130	1.8572E-05
78	Seward	SEW-2	3130	1.8572E-05

Table B-18 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Elmer Smith Station	Unit001	1374	1.8606E-05
80	Elmer Smith Station	Unit002	1374	1.8606E-05
81	Spruance Genco, LLC	GEN3	54081	1.8975E-05
82	Silver Bay Power	GEN1	10849	1.9106E-05
83	Newton	002	6017	1.9440E-05
84	Weston	W3	4078	1.9599E-05
85	G G Allen	3-2009-FGDIN	2718	1.9663E-05
86	San Juan	Unit 3	2451	1.9887E-05
87	G G Allen	4-2009-FGDIN	2718	1.9888E-05
88	Tanners Creek	TC-4	988	2.0300E-05
89	San Juan	Unit 4	2451	2.0535E-05
90	Morgantown Energy Facility	Unit 1&2	10743	2.1577E-05
91	Welsh	WE-1	6139	2.1895E-05
92	Asheville Steam Electric Plant	Ash_Cfg_2	2706	2.2158E-05
93	Sibley	3	2094	2.2163E-05
94	Harding Street	60s	990	2.2301E-05
95	TS Power Plant	TSPower	56224	2.3301E-05
96	Nebraska City	NC2	6096	2.3777E-05
97	TransAlta Centralia Generation	BW21CONFIG	3845	2.3906E-05
98	TransAlta Centralia Generation	BW22CONFIG	3845	2.3917E-05
99	R D Green	2	6639	2.3989E-05
100	Eastlake	Unit 3	2837	2.4674E-05
101	Cholla	003	113	2.4882E-05
102	Sibley	1	2094	2.5141E-05
103	AES Puerto Rico Cogeneration Facility	Unit_1	68029	2.7473E-05
104	Sibley	2	2094	2.7900E-05
105	H L Spurlock Station	Unit 01	6041	2.8316E-05
106	Springerville	3	8223	2.8381E-05
107	San Juan	Unit 2	2451	2.9070E-05
108	Bridgeport Station	BHSEMU3OS3-#2	568	2.9282E-05
109	La Cygne	2	1241	2.9314E-05
110	East Bend Station	2	6018	2.9376E-05
111	Panther Creek Energy Facility	BG2	50776	2.9544E-05
112	Panther Creek Energy Facility	BG1	50776	2.9544E-05
113	Herbert A. Wagner	002	1554	2.9583E-05
114	R.M. Schahfer	R.M.0014	6085	2.9778E-05
115	James River Cogeneration Co	UNIT2	10377	2.9955E-05
116	W H Zimmer	1	6019	3.0467E-05
117	Ebensburg Power Company	EPC01	10603	3.1053E-05
118	PPL Brunner Island	U2	3140	3.2548E-05

Table B-18 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	PPL Brunner Island	U1	3140	3.4211E-05
120	Hammond	Unit 2	708	3.6029E-05
121	Hammond	Unit 3	708	3.6136E-05
122	AES Puerto Rico Cogeneration Facility	Unit_2	68029	3.6466E-05
123	Hammond	Unit 1	708	3.6685E-05
124	Erickson Station	001	1832	3.6856E-05
125	Colver Power Project	AAB01	10143	3.7183E-05
126	Hammond	Unit 4	708	3.8219E-05
127	Taconite Harbor Energy Center	THEC2	10075	3.8455E-05
128	Clinch River	CR-1	3775	4.0497E-05
129	Scholz	Unit 1	642	4.1443E-05
130	Birchwood Power Facility	1A	54304	4.1513E-05
131	Grant Town Power Plant	GEN1	10151	4.2002E-05

Table B-19. ***Subcategory 1 and 2 Existing Sources***
Nickel (Ni) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Weston	4078	W4	1.1961E-07
2	Martin Drake	492	Unit 5 - Coal	1.5420E-07
3	R D Green	6639	2	2.1620E-07
4	Dallman	963	34	2.2500E-07
5	Rawhide	6761	Rawhide101	2.8813E-07
6	Sioux	2107	002	2.9170E-07
7	Havana	891	Boiler 9	3.1316E-07
8	Martin Drake	492	Unit 7 - Coal	3.2532E-07
9	Northampton Generating Company, L.P.	50888	GEN1	3.3503E-07
10	Sandow Station	52071	5B	3.4323E-07
11	Cholla	113	004	3.7579E-07
12	Reid Gardner	2324	1	3.9712E-07
13	Chambers Cogeneration LP	10566	Boil 2	4.0220E-07
14	Comanche	470	Unit 2	4.3251E-07
15	Logan Generating Plant	10043	Unit1	4.4356E-07
16	Hayden	525	Unit 1	4.7320E-07
17	Oak Grove	6180	OG1	4.9303E-07
18	TransAlta Centralia Generation	3845	BW21CONFIG	5.5299E-07
19	Sunnyside Cogen Associates	50951	Config 1	5.5608E-07
20	Pulliam	4072	8	5.6871E-07
21	AES Shady Point,LLC	10671	Unit 1	5.9026E-07
22	AES Shady Point,LLC	10671	Unit 2	5.9026E-07
23	Gerald Gentleman	6077	U1	6.0176E-07
24	Cedar Bay Generating Company L.P.	10672	CBA1	6.2027E-07
25	Sandow Station	52071	5A	6.2589E-07
26	Wygen 1	55479	WYG1Cfg	6.5760E-07
27	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	6.9012E-07
28	Gerald Gentleman	6077	U2	7.1291E-07
29	Morgantown Energy Facility	10743	Unit 1&2	7.2074E-07
30	Sheldon Station	2277	U1	7.3148E-07
31	Crist	641	Unit 5	7.3951E-07
32	Crist	641	Unit 6	7.3951E-07
33	Crist	641	Unit 7	7.3951E-07
34	Crist	641	Unit 4	7.3951E-07
35	Duck Creek	6016	001	7.6235E-07
36	Cedar Bay Generating Company L.P.	10672	CBB1	7.6574E-07
37	Cope	7210	COP001	7.7714E-07

Table B-19 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	J K Spruce	7097	1	7.8850E-07
39	Springerville	8223	4	8.0441E-07
40	Neil Simpson II	7504	NS2Cfg	8.0689E-07
41	Hayden	525	Unit 2	8.5700E-07
42	Cholla	113	003	8.6545E-07
43	Indiantown Cogeneration L.P.	50976	001	8.9065E-07
44	Whelan Energy Center Unit 1 (WEC1)	60	1	8.9290E-07
45	Silver Bay Power	10849	GEN1	9.1289E-07
46	Panther Creek Energy Facility	50776	BG2	9.2288E-07
47	Panther Creek Energy Facility	50776	BG1	9.2288E-07
48	Gibson	6113	1-2007-FGDIN	9.2693E-07
49	Spruance Genco, LLC	54081	GEN1	9.4729E-07
50	Roxboro Steam Electric Plant	2712	Rox_Cfg_1b	9.6828E-07
51	Dunkirk Generating Plant	2554	1	9.8019E-07
52	Gibson	6113	2-2007-FGDIN	9.9261E-07
53	Sheldon Station	2277	U2	1.0008E-06
54	Hawthorn	2079	5A	1.0196E-06
55	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	1.0357E-06
56	TransAlta Centralia Generation	3845	BW22CONFIG	1.0512E-06
57	Dunkirk Generating Plant	2554	4	1.0533E-06
58	Bridgeport Station	568	BHSEMU3OS3-#2	1.0761E-06
59	Salem Harbor	1626	Unit 1	1.0927E-06
60	Hammond	708	Unit 2	1.1079E-06
61	Hammond	708	Unit 3	1.1079E-06
62	Hammond	708	Unit 1	1.1079E-06
63	Hammond	708	Unit 4	1.1079E-06
64	Shawville	3131	SHAW4-1	1.1133E-06
65	Shawville	3131	SHAW3-1	1.1133E-06
66	AES Warrior Run Cogeneration Facility	10678	BLR1	1.1765E-06
67	Ebensburg Power Company	10603	EPC01	1.2333E-06
68	Muscatine #1	1167	8	1.2492E-06
69	James River Cogeneration Co	10377	UNIT2	1.2568E-06
70	AES Hawaii	10673	002	1.2681E-06
71	Taconite Harbor Energy Center	10075	THEC2	1.2831E-06
72	Cane Run	1363	CR4	1.2951E-06
73	Nebraska City	6096	NC2	1.3167E-06
74	H L Spurlock Station	6041	Unit 04	1.3224E-06
75	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	1.3500E-06
76	Seward	3130	SEW-1	1.3941E-06
77	Seward	3130	SEW-2	1.3941E-06

Table B-19 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	Red Hills Generating Facility	55076	002	1.4264E-06
79	Red Hills Generating Facility	55076	001	1.4264E-06
80	Newton	6017	002	1.4699E-06
81	Springerville	8223	3	1.6108E-06
82	James H. Miller Jr.	6002	Unit 4	1.6704E-06
83	Cedar Bay Generating Company L.P.	10672	CBC1	1.6887E-06
84	Taconite Harbor Energy Center	10075	THEC1	1.6917E-06
85	Spruance Genco, LLC	54081	GEN4	1.6997E-06
86	Chambers Cogeneration LP	10566	Boil 1	1.7544E-06
87	TS Power Plant	56224	TSPower	1.7820E-06
88	Elm Road Generating Station	56068	ERGS-B1	1.7893E-06
89	Southampton Power Station	10774	Unit 1 & 2	1.7960E-06
90	Big Stone	6098	001	1.8011E-06
91	Walter Scott Jr. Energy Center	1082	4	1.8148E-06
92	Meredosia	864	005	1.8316E-06
93	Joppa Steam	887	1	1.8335E-06
94	Craig	6021	C2	1.8336E-06
95	Brandon Shores	602	002	1.8839E-06
96	RS Nelson	1393	001	1.8918E-06
97	Hardin Generator Project	55749	PC1	2.0154E-06
98	AES Puerto Rico Cogeneration Facility	68029	Unit_1	2.0653E-06
99	Wygen 2	56319	WYG2Cfg	2.1318E-06
100	Hennepin Power Station	892	001	2.1366E-06
101	Hennepin Power Station	892	002	2.1366E-06
102	San Juan	2451	Unit 4	2.1933E-06
103	Scrubgrass Generating Company L.P.	50974	Gen 1	2.2300E-06
104	Welsh	6139	WE-1	2.3005E-06
105	San Juan	2451	Unit 3	2.3637E-06
106	Sibley	2094	3	2.3712E-06
107	Sibley	2094	1	2.3712E-06
108	Sibley	2094	2	2.3712E-06
109	Cane Run	1363	CR5	2.4126E-06
110	Ottumwa	6254	Unit 1	2.4300E-06
111	Colver Power Project	10143	AAB01	2.4798E-06
112	Eddystone Generating Station	3161	Unit 2	2.4850E-06
113	Spruance Genco, LLC	54081	GEN3	2.5065E-06
114	San Juan	2451	Unit 2	2.5505E-06
115	Lawrence Energy Center	1250	3	2.5541E-06
116	AES Hawaii	10673	001	2.6069E-06
117	Piney Creek Project	54144	BRBRI	2.6386E-06

Table B-19 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Twin Oaks Power One	7030	U2	2.6392E-06
119	La Cygne	1241	2	2.7391E-06
120	Elmer Smith Station	1374	Unit001	2.7588E-06
121	Elmer Smith Station	1374	Unit002	2.7588E-06
122	Consumers Energy - J.H. Campbell	1710	JHC2-Conf	2.7878E-06
123	Consumers Energy - J.H. Campbell	1710	JHC1-Conf	2.7878E-06
124	South Oak Creek	4041	OCPP-B7	2.7884E-06
125	San Juan	2451	Unit 1	2.9823E-06
126	Scholz	642	Unit 1	3.0306E-06
127	Clinch River	3775	CR-1	3.0683E-06
128	Eagle Valley	991	6	3.1103E-06
129	Spruance Genco, LLC	54081	GEN2	3.1375E-06
130	Hoot Lake	1943	2	3.1705E-06
131	Hopewell	10771	1 & 2	3.2775E-06

Table B-20. ***Subcategory 1 and 2 Existing Sources***
Nickel (Ni) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Weston	W4	4078	1.0770E-06
2	Martin Drake	Unit 5 - Coal	492	1.5980E-06
3	Dallman	34	963	1.8880E-06
4	Chambers Cogeneration LP	Boil 2	10566	1.9574E-06
5	Cedar Bay Generating Company L.P.	CBA1	10672	2.3548E-06
6	R D Green	2	6639	2.4665E-06
7	Rawhide	Rawhide101	6761	2.6452E-06
8	Sioux	002	2107	2.7389E-06
9	Cedar Bay Generating Company L.P.	CBB1	10672	2.9071E-06
10	Northampton Generating Company, L.P.	GEN1	50888	3.1731E-06
11	Havana	Boiler 9	891	3.2748E-06
12	Martin Drake	Unit 7 - Coal	492	3.4032E-06
13	Sandow Station	5B	52071	3.5982E-06
14	Cholla	004	113	3.7738E-06
15	Logan Generating Plant	Unit1	10043	3.8832E-06
16	Comanche	Unit 2	470	4.1260E-06
17	Reid Gardner	1	2324	4.3469E-06
18	Hayden	Unit 1	525	4.5985E-06
19	Oak Grove	OG1	6180	5.4130E-06
20	Morgantown Energy Facility	Unit 1&2	10743	5.6541E-06
21	AES Hawaii	002	10673	5.8982E-06
22	Pulliam	8	4072	6.2274E-06
23	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	6.2372E-06
24	Gerald Gentleman	U1	6077	6.3442E-06
25	Cedar Bay Generating Company L.P.	CBC1	10672	6.4110E-06
26	Sunnyside Cogen Associates	Config 1	50951	6.4876E-06
27	Sandow Station	5A	52071	6.5615E-06
28	TransAlta Centralia Generation	BW21CONFIG	3845	7.1009E-06
29	Cope	COP001	7210	7.1530E-06
30	Gerald Gentleman	U2	6077	7.1652E-06
31	Crist	Unit 5	641	7.3755E-06
32	Crist	Unit 6	641	7.3797E-06
33	AES Shady Point,LLC	Unit 1	10671	7.3859E-06
34	AES Shady Point,LLC	Unit 2	10671	7.3859E-06
35	Springerville	4	8223	7.5079E-06
36	Silver Bay Power	GEN1	10849	7.5448E-06
37	Wygen 1	WYG1Cfg	55479	7.6094E-06
38	Crist	Unit 7	641	7.8089E-06

Table B-20 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Crist	Unit 4	641	7.8356E-06
40	Sheldon Station	U1	2277	7.8520E-06
41	Hayden	Unit 2	525	8.1550E-06
42	Cholla	003	113	8.3112E-06
43	Indiantown Cogeneration L.P.	001	50976	8.4427E-06
44	Chambers Cogeneration LP	Boil 1	10566	8.5380E-06
45	Duck Creek	001	6016	8.5764E-06
46	J K Spruce	1	7097	8.6477E-06
47	Gibson	1-2007-FGDIN	6113	8.9299E-06
48	Whelan Energy Center Unit 1 (WEC1)	1	60	9.0262E-06
49	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	9.3602E-06
50	Roxboro Steam Electric Plant	Rox_Cfg_1b	2712	9.4439E-06
51	Gibson	2-2007-FGDIN	6113	9.6768E-06
52	Dunkirk Generating Plant	4	2554	9.9173E-06
53	Neil Simpson II	NS2Cfg	7504	1.0086E-05
54	Shawville	SHAW4-1	3131	1.0624E-05
55	Shawville	SHAW3-1	3131	1.0624E-05
56	Dunkirk Generating Plant	1	2554	1.0634E-05
57	Sheldon Station	U2	2277	1.0746E-05
58	Bridgeport Station	BHSEMU3OS3-#2	568	1.0948E-05
59	Hammond	Unit 2	708	1.0964E-05
60	Hammond	Unit 3	708	1.0996E-05
61	Hammond	Unit 1	708	1.1164E-05
62	Hawthorn	5A	2079	1.1329E-05
63	Hammond	Unit 4	708	1.1630E-05
64	Southampton Power Station	Unit 1 & 2	10774	1.1740E-05
65	Panther Creek Energy Facility	BG2	50776	1.1908E-05
66	Panther Creek Energy Facility	BG1	50776	1.1908E-05
67	AES Warrior Run Cogeneration Facility	BLR1	10678	1.1922E-05
68	H L Spurlock Station	Unit 04	6041	1.2343E-05
69	Spruance Genco, LLC	GEN1	54081	1.2377E-05
70	Newton	002	6017	1.3039E-05
71	AES Hawaii	001	10673	1.3117E-05
72	James River Cogeneration Co	UNIT2	10377	1.3139E-05
73	Salem Harbor	Unit 1	1626	1.3166E-05
74	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	1.3237E-05
75	Nebraska City	NC2	6096	1.3360E-05
76	Red Hills Generating Facility	002	55076	1.3592E-05
77	Red Hills Generating Facility	001	55076	1.3699E-05
78	Muscatine #1	8	1167	1.3708E-05

Table B-20 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	TransAlta Centralia Generation	BW22CONFIG	3845	1.4356E-05
80	Scrubgrass Generating Company L.P.	Gen 1	50974	1.4369E-05
81	Seward	SEW-1	3130	1.4775E-05
82	Seward	SEW-2	3130	1.4775E-05
83	Taconite Harbor Energy Center	THEC2	10075	1.4792E-05
84	Springerville	3	8223	1.5034E-05
85	TS Power Plant	TSPower	56224	1.5552E-05
86	James H. Miller Jr.	Unit 4	6002	1.6119E-05
87	Walter Scott Jr. Energy Center	4	1082	1.6387E-05
88	Craig	C2	6021	1.7166E-05
89	Elm Road Generating Station	ERGS-B1	56068	1.7219E-05
90	Taconite Harbor Energy Center	THEC1	10075	1.7263E-05
91	Ebensburg Power Company	EPC01	10603	1.7649E-05
92	Cane Run	CR4	1363	1.7808E-05
93	Joppa Steam	1	887	1.8005E-05
94	Brandon Shores	002	602	1.8293E-05
95	RS Nelson	001	1393	1.8791E-05
96	Big Stone	001	6098	1.9317E-05
97	AES Puerto Rico Cogeneration Facility	Unit_1	68029	1.9935E-05
98	Eddystone Generating Station	Unit 2	3161	2.0584E-05
99	Hopewell	1 & 2	10771	2.0605E-05
100	Welsh	WE-1	6139	2.1257E-05
101	Hardin Generator Project	PC1	55749	2.2085E-05
102	Hennepin Power Station	001	892	2.2106E-05
103	Spruance Genco, LLC	GEN4	54081	2.2209E-05
104	San Juan	Unit 4	2451	2.2776E-05
105	Hennepin Power Station	002	892	2.2827E-05
106	Elmer Smith Station	Unit001	1374	2.2884E-05
107	Elmer Smith Station	Unit002	1374	2.2884E-05
108	Sibley	3	2094	2.3170E-05
109	South Oak Creek	OCPP-B7	4041	2.4930E-05
110	Meredosia	005	864	2.4996E-05
111	San Juan	Unit 3	2451	2.5018E-05
112	Consumers Energy - J.H. Campbell	JHC2-Conf	1710	2.5284E-05
113	Ottumwa	Unit 1	6254	2.5377E-05
114	San Juan	Unit 2	2451	2.5423E-05
115	Consumers Energy - J.H. Campbell	JHC1-Conf	1710	2.6056E-05
116	Sibley	1	2094	2.6282E-05
117	Twin Oaks Power One	U2	7030	2.6346E-05
118	Colver Power Project	AAB01	10143	2.7145E-05

Table B-20 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Clinch River	CR-1	3775	2.8027E-05
120	Lawrence Energy Center	3	1250	2.8404E-05
121	Wygen 2	WYG2Cfg	56319	2.8869E-05
122	Cane Run	CR5	1363	2.9085E-05
123	Sibley	2	2094	2.9166E-05
124	San Juan	Unit 1	2451	2.9880E-05
125	Eagle Valley	6	991	3.0125E-05
126	Cardinal	CD-U3	2828	3.0745E-05
127	La Cygne	2	1241	3.0790E-05
128	Spruance Genco, LLC	GEN3	54081	3.2751E-05
129	Piney Creek Project	BRBRI	54144	3.2982E-05
130	G G Allen	3-2009-FGDIN	2718	3.3158E-05
131	G G Allen	4-2009-FGDIN	2718	3.3538E-05

Table B-21. ***Subcategory 1 and 2 Existing Sources***
Selenium (Se) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Logan Generating Plant	10043	Unit1	1.3678E-08
2	Chambers Cogeneration LP	10566	Boil 2	1.4474E-08
3	Chambers Cogeneration LP	10566	Boil 1	1.5322E-08
4	Northampton Generating Company, L.P.	50888	GEN1	1.6069E-08
5	Rawhide	6761	Rawhide101	4.0724E-08
6	Sunnyside Cogen Associates	50951	Config 1	4.6747E-08
7	Hayden	525	Unit 2	5.0933E-08
8	AES Hawaii	10673	001	5.3087E-08
9	Oak Grove	6180	OG1	6.4514E-08
10	AES Warrior Run Cogeneration Facility	10678	BLR1	6.6084E-08
11	Wygen 1	55479	WYG1Cfg	7.8691E-08
12	AES Hawaii	10673	002	8.1968E-08
13	AES Shady Point,LLC	10671	Unit 1	9.2067E-08
14	AES Shady Point,LLC	10671	Unit 2	9.2067E-08
15	Neil Simpson II	7504	NS2Cfg	9.3254E-08
16	Cope	7210	COP001	1.1813E-07
17	San Juan	2451	Unit 1	1.3251E-07
18	James River Cogeneration Co	10377	UNIT2	1.3527E-07
19	Hayden	525	Unit 1	1.3548E-07
20	Birchwood Power Facility	54304	1A	1.4151E-07
21	R D Green	6639	2	1.4415E-07
22	San Juan	2451	Unit 4	1.7116E-07
23	Reid Gardner	2324	1	1.7866E-07
24	San Juan	2451	Unit 2	1.9178E-07
25	Sandow Station	52071	5B	2.1027E-07
26	Comanche	470	Unit 2	2.1286E-07
27	Whelan Energy Center Unit 1 (WEC1)	60	1	2.1473E-07
28	Martin Drake	492	Unit 5 - Coal	2.1901E-07
29	Cedar Bay Generating Company L.P.	10672	CBA1	2.2878E-07
30	Spruance Genco, LLC	54081	GEN2	2.3410E-07
31	TransAlta Centralia Generation	3845	BW22CONFIG	2.3887E-07
32	Wygen 2	56319	WYG2Cfg	2.8605E-07
33	Spruance Genco, LLC	54081	GEN1	2.9709E-07
34	San Juan	2451	Unit 3	3.1668E-07
35	TransAlta Centralia Generation	3845	BW21CONFIG	3.2553E-07
36	Ebensburg Power Company	10603	EPC01	3.8933E-07
37	Spruance Genco, LLC	54081	GEN4	3.9882E-07
38	Cedar Bay Generating Company L.P.	10672	CBC1	4.2583E-07

Table B-21 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Twin Oaks Power One	7030	U2	4.3390E-07
40	Sandow Station	52071	5A	4.5081E-07
41	Southampton Power Station	10774	Unit 1 & 2	4.5685E-07
42	Morgantown Energy Facility	10743	Unit 1&2	4.6565E-07
43	Hawthorn	2079	5A	4.6595E-07
44	TS Power Plant	56224	TSPower	4.8490E-07
45	Indiantown Cogeneration L.P.	50976	001	4.9155E-07
46	Weston	4078	W4	5.0290E-07
47	Cedar Bay Generating Company L.P.	10672	CBB1	5.0381E-07
48	Silver Bay Power	10849	GEN1	5.5364E-07
49	Springerville	8223	4	5.7079E-07
50	Bridgeport Station	568	BHSEMU3OS3-#2	5.7739E-07
51	Cambria Cogen	10641	002	5.8441E-07
52	Panther Creek Energy Facility	50776	BG2	6.0040E-07
53	Panther Creek Energy Facility	50776	BG1	6.0040E-07
54	Havana	891	Boiler 9	6.3014E-07
55	Hardin Generator Project	55749	PC1	6.4017E-07
56	Mecklenburg Power Station	52007	Unit 1 & 2	6.5826E-07
57	AES Puerto Rico Cogeneration Facility	68029	Unit_1	6.7247E-07
58	Marion Generating Station	976	123	6.8388E-07
59	Springerville	8223	3	7.5094E-07
60	H L Spurlock Station	6041	Unit 03	7.7002E-07
61	J K Spruce	7097	1	8.8926E-07
62	Spruance Genco, LLC	54081	GEN3	8.9316E-07
63	Craig	6021	C2	9.2987E-07
64	AES Puerto Rico Cogeneration Facility	68029	Unit_2	9.4625E-07
65	Cambria Cogen	10641	001	9.5471E-07
66	Elm Road Generating Station	56068	ERGS-B1	9.7731E-07
67	Martin Drake	492	Unit 7 - Coal	9.8555E-07
68	BL England	2378	2 Coal w or w/o TDF	1.0185E-06
69	H L Spurlock Station	6041	Unit 04	1.0837E-06
70	Gerald Gentleman	6077	U1	1.1774E-06
71	Dunkirk Generating Plant	2554	1	1.2168E-06
72	Brandon Shores	602	002	1.2973E-06
73	Roanoke Valley II	54755	Boiler 2	1.3104E-06
74	Gerald Gentleman	6077	U2	1.3201E-06
75	Dunkirk Generating Plant	2554	4	1.3207E-06
76	Louisa	6664	101	1.4461E-06
77	Piney Creek Project	54144	BRBRI	1.4471E-06
78	Hennepin Power Station	892	001	1.4935E-06

Table B-21 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Hennepin Power Station	892	002	1.4935E-06
80	Dallman	963	34	1.5000E-06
81	Harding Street	990	70ss	1.5109E-06
82	Sheldon Station	2277	U1	1.5754E-06
83	Hopewell	10771	1 & 2	1.6932E-06
84	Walter Scott Jr. Energy Center	1082	4	1.7083E-06
85	Nucla	527	001	1.7617E-06
86	Grant Town Power Plant	10151	GEN1	1.8453E-06
87	South Oak Creek	4041	OCPP-B7	1.9886E-06
88	Erickson Station	1832	001	2.0582E-06
89	Craig	6021	C1	2.0619E-06
90	Nebraska City	6096	NC2	2.1058E-06
91	Prairie Creek	1073	Unit 1	2.1700E-06
92	Sheldon Station	2277	U2	2.2357E-06
93	Colver Power Project	10143	AAB01	2.2440E-06
94	Seward	3130	SEW-1	2.2792E-06
95	Seward	3130	SEW-2	2.2792E-06
96	Roanoke Valley I	54035	Boiler 1	2.2909E-06
97	Valley	4042	VAPP-B4	2.3510E-06
98	La Cygne	1241	2	2.4568E-06
99	PSEG Mercer Generating Station	2408	MERU2E2PT2OS1-Coal	2.5667E-06
100	Red Hills Generating Facility	55076	002	2.5979E-06
101	Red Hills Generating Facility	55076	001	2.5979E-06
102	Welsh	6139	WE-1	2.6310E-06
103	PSEG Mercer Generating Station	2408	MERU1E1PT1OS1-Coal	2.6810E-06
104	Valley	4042	VAPP-B2	2.6824E-06
105	Weston	4078	W3	2.6980E-06
106	Lake Road	2098	6	2.9021E-06
107	State Line	981	Unit 3	2.9696E-06
108	Joliet 9	874	JOL5 CONFIG	3.1572E-06
109	Will County	884	WC4CONFIG	3.1649E-06
110	Roxboro Steam Electric Plant	2712	Rox_Cfg_2c	3.2341E-06
111	Gallatin	3403	2	3.3939E-06
112	Hoot Lake	1943	2	3.4617E-06
113	Clover	7213	Unit 1	3.6513E-06
114	J T Deely	6181	2	3.8494E-06
115	J T Deely	6181	1	3.8494E-06
116	Valley	4042	VAPP-B3	3.8807E-06
117	PSEG Hudson Generating Station	2403	HUDU2E2PT2OS1-Coal	4.1667E-06
118	PSEG Hudson Generating Station	2403	HUDU2E2PT2OS2-Gas	4.1667E-06

Table B-21 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Prairie Creek	1073	Unit 2	4.2500E-06
120	Quindaro	1295	Unit 2	4.3634E-06
121	Muscatine #1	1167	8	4.5998E-06
122	Taconite Harbor Energy Center	10075	THEC1	4.6147E-06
123	Waukegan	883	WK8CONFIG	4.7773E-06
124	Clinch River	3775	CR-1	4.8698E-06
125	South Oak Creek	4041	OCPP-B8	5.0721E-06
126	Cholla	113	003	5.4579E-06
127	Burlington	1104	Unit 1	5.6800E-06
128	Sibley	2094	3	6.3081E-06
129	Sibley	2094	1	6.3081E-06
130	Sibley	2094	2	6.3081E-06
131	Taconite Harbor Energy Center	10075	THEC2	6.3235E-06

Table B-22. ***Subcategory 1 and 2 Existing Sources***
Selenium (Se) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	PSEG Mercer Generating Station	MERU1E1PT1OS1-Coal	2408	2.4230E-05
2	Chambers Cogeneration LP	Boil 2	10566	7.0441E-08
3	Chambers Cogeneration LP	Boil 1	10566	7.4569E-08
4	Logan Generating Plant	Unit1	10043	1.1974E-07
5	Northampton Generating Company, L.P.	GEN1	50888	1.5219E-07
6	AES Hawaii	001	10673	2.6711E-07
7	Rawhide	Rawhide101	6761	3.7386E-07
8	AES Hawaii	002	10673	3.8125E-07
9	Hayden	Unit 2	525	4.8467E-07
10	Sunnyside Cogen Associates	Config 1	50951	5.4538E-07
11	AES Warrior Run Cogeneration Facility	BLR1	10678	6.6967E-07
12	Oak Grove	OG1	6180	7.0831E-07
13	Cedar Bay Generating Company L.P.	CBA1	10672	8.6856E-07
14	Wygen 1	WYG1Cfg	55479	9.1057E-07
15	Cope	COP001	7210	1.0873E-06
16	AES Shady Point,LLC	Unit 1	10671	1.1520E-06
17	AES Shady Point,LLC	Unit 2	10671	1.1520E-06
18	Neil Simpson II	NS2Cfg	7504	1.1657E-06
19	Hayden	Unit 1	525	1.3165E-06
20	San Juan	Unit 1	2451	1.3276E-06
21	James River Cogeneration Co	UNIT2	10377	1.4142E-06
22	Birchwood Power Facility	1A	54304	1.4661E-06
23	Cedar Bay Generating Company L.P.	CBC1	10672	1.6166E-06
24	R D Green	2	6639	1.6445E-06
25	San Juan	Unit 4	2451	1.7774E-06
26	San Juan	Unit 2	2451	1.9115E-06
27	Cedar Bay Generating Company L.P.	CBB1	10672	1.9127E-06
28	Reid Gardner	1	2324	1.9556E-06
29	Comanche	Unit 2	470	2.0306E-06
30	Whelan Energy Center Unit 1 (WEC1)	1	60	2.1707E-06
31	Sandow Station	5B	52071	2.2044E-06
32	Martin Drake	Unit 5 - Coal	492	2.2697E-06
33	Southampton Power Station	Unit 1 & 2	10774	2.9863E-06
34	Spruance Genco, LLC	GEN2	54081	3.0587E-06
35	TransAlta Centralia Generation	BW22CONFIG	3845	3.2620E-06
36	San Juan	Unit 3	2451	3.3520E-06
37	Morgantown Energy Facility	Unit 1&2	10743	3.6529E-06
38	Wygen 2	WYG2Cfg	56319	3.8736E-06

Table B-22 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	Spruance Genco, LLC	GEN1	54081	3.8818E-06
40	TransAlta Centralia Generation	BW21CONFIG	3845	4.1801E-06
41	TS Power Plant	TSPower	56224	4.2318E-06
42	Twin Oaks Power One	U2	7030	4.3314E-06
43	Weston	W4	4078	4.5283E-06
44	Silver Bay Power	GEN1	10849	4.5757E-06
45	Indiantown Cogeneration L.P.	001	50976	4.6596E-06
46	Sandow Station	5A	52071	4.7260E-06
47	Hawthorn	5A	2079	5.1772E-06
48	Spruance Genco, LLC	GEN4	54081	5.2111E-06
49	Springerville	4	8223	5.3273E-06
50	Ebensburg Power Company	EPC01	10603	5.5715E-06
51	Bridgeport Station	BHSEMU3OS3-#2	568	5.8742E-06
52	H L Spurlock Station	Unit 03	6041	6.4169E-06
53	AES Puerto Rico Cogeneration Facility	Unit_1	68029	6.4910E-06
54	Havana	Boiler 9	891	6.5896E-06
55	Cambria Cogen	002	10641	6.6789E-06
56	Springerville	3	8223	7.0088E-06
57	Hardin Generator Project	PC1	55749	7.0150E-06
58	Marion Generating Station	123	976	7.1238E-06
59	Panther Creek Energy Facility	BG2	50776	7.7470E-06
60	Panther Creek Energy Facility	BG1	50776	7.7470E-06
61	Mecklenburg Power Station	Unit 1 & 2	52007	7.9425E-06
62	Craig	C2	6021	8.7053E-06
63	AES Puerto Rico Cogeneration Facility	Unit_2	68029	9.1337E-06
64	Elm Road Generating Station	ERGS-B1	56068	9.4050E-06
65	BL England	2 Coal w or w/o TDF	2378	9.7403E-06
66	J K Spruce	1	7097	9.7527E-06
67	H L Spurlock Station	Unit 04	6041	1.0114E-05
68	Martin Drake	Unit 7 - Coal	492	1.0310E-05
69	Hopewell	1 & 2	10771	1.0645E-05
70	Cambria Cogen	001	10641	1.0911E-05
71	Spruance Genco, LLC	GEN3	54081	1.1670E-05
72	Gerald Gentleman	U1	6077	1.2412E-05
73	Dunkirk Generating Plant	4	2554	1.2435E-05
74	Dallman	34	963	1.2587E-05
75	Brandon Shores	002	602	1.2597E-05
76	Grant Town Power Plant	GEN1	10151	1.3111E-05
77	Dunkirk Generating Plant	1	2554	1.3201E-05
78	Gerald Gentleman	U2	6077	1.3268E-05

Table B-22 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Harding Street	70ss	990	1.3454E-05
80	Roanoke Valley II	Boiler 2	54755	1.4677E-05
81	Walter Scott Jr. Energy Center	4	1082	1.5425E-05
82	Hennepin Power Station	001	892	1.5452E-05
83	Louisa	101	6664	1.5492E-05
84	Hennepin Power Station	002	892	1.5956E-05
85	Nucla	001	527	1.6528E-05
86	Sheldon Station	U1	2277	1.6911E-05
87	South Oak Creek	OCPP-B7	4041	1.7779E-05
88	Piney Creek Project	BRBRI	54144	1.8088E-05
89	Craig	C1	6021	1.8213E-05
90	Erickson Station	001	1832	2.0807E-05
91	Nebraska City	NC2	6096	2.1368E-05
92	Roanoke Valley I	Boiler 1	54035	2.1399E-05
93	PSEG Mercer Generating Station	MERU2E2PT2OS1-Coal	2408	2.3197E-05
94	Sheldon Station	U2	2277	2.4006E-05
95	Seward	SEW-1	3130	2.4155E-05
96	Seward	SEW-2	3130	2.4155E-05
97	Welsh	WE-1	6139	2.4311E-05
98	Colver Power Project	AAB01	10143	2.4564E-05
99	Red Hills Generating Facility	002	55076	2.4755E-05
100	Red Hills Generating Facility	001	55076	2.4950E-05
101	Weston	W3	4078	2.5264E-05
102	Prairie Creek	Unit 1	1073	2.6754E-05
103	La Cygne	2	1241	2.7617E-05
104	Valley	VAPP-B4	4042	2.8343E-05
105	Lake Road	6	2098	2.8728E-05
106	Will County	WC4CONFIG	884	3.0683E-05
107	Gallatin	2	3403	3.1110E-05
108	Roxboro Steam Electric Plant	Rox_Cfg_2c	2712	3.1711E-05
109	Valley	VAPP-B2	4042	3.2338E-05
110	State Line	Unit 3	981	3.2721E-05
111	Joliet 9	JOL5 CONFIG	874	3.4597E-05
112	J T Deely	2	6181	3.6364E-05
113	J T Deely	1	6181	3.6364E-05
114	PSEG Hudson Generating Station	HUDU2E2PT2OS1-Coal	2403	4.1686E-05
115	PSEG Hudson Generating Station	HUDU2E2PT2OS2-Gas	2403	4.1686E-05
116	Clover	Unit 1	7213	4.1706E-05
117	Hoot Lake	2	1943	4.2612E-05
118	Clinch River	CR-1	3775	4.4483E-05

Table B-22 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	South Oak Creek	OCPP-B8	4041	4.5347E-05
120	Valley	VAPP-B3	4042	4.6784E-05
121	Taconite Harbor Energy Center	THEC1	10075	4.7092E-05
122	Waukegan	WK8CONFIG	883	4.9406E-05
123	Muscatine #1	8	1167	5.0475E-05
124	Quindaro	Unit 2	1295	5.0773E-05
125	Prairie Creek	Unit 2	1073	5.2399E-05
126	Cholla	003	113	5.2414E-05
127	Burlington	Unit 1	1104	5.9688E-05
128	Sibley	3	2094	6.1637E-05
129	James River Power Station	Unit_4_JRPS	2161	6.6139E-05
130	Sibley	1	2094	6.9917E-05
131	Taconite Harbor Energy Center	THEC2	10075	7.2896E-05

Table B-23. ***Subcategory 1 and 2 Existing Sources HCl Floor Emission Data Averages (lb/MMBtu)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
1	Logan Generating Plant	Unit1	10043	1.29E-05	7.54E-05	7.60E-05	1.17E-04	1.81E-04	3.98E-04
2	Spruance Genco, LLC	GEN3	54081	1.61E-05					
3	Spruance Genco, LLC	GEN2	54081	1.69E-05					
4	Seward	SEW-1	3130	1.93E-05	1.47E-04				
5	Seward	SEW-2	3130	1.93E-05	1.47E-04				
6	Sandow Station	5A	52071	2.12E-05	9.24E-05				
7	TS Power Plant	TSPower	56224	2.17E-05	4.00E-04				
8	Sandow Station	5B	52071	2.55E-05	3.02E-05				
9	Holcomb	SGU1	108	2.60E-05					
10	Roanoke Valley II	Boiler 2	54755	3.22E-05					
11	Indiantown Cogeneration L.P.	001	50976	3.58E-05					
12	Rawhide	Rawhide101	6761	3.61E-05	6.00E-05	1.60E-04	3.20E-04	3.34E-04	3.51E-04
13	Walter Scott Jr. Energy Center	4	1082	3.80E-05	5.90E-05	7.37E-05			
14	Spruance Genco, LLC	GEN4	54081	3.84E-05					
15	Chambers Cogeneration LP	Boil 1	10566	4.24E-05					
16	Navajo Generating Station	001	4941	5.00E-05	6.48E-05				
17	Chambers Cogeneration LP	Boil 2	10566	5.60E-05					
18	Colstrip	Unit3	6076	6.21E-05					
19	Navajo Generating Station	002	4941	6.67E-05	6.97E-05				
20	Cross	C3	130	6.89E-05					
21	Hawthorn	5A	2079	7.21E-05	2.70E-04	3.50E-04			
22	Roanoke Valley I	Boiler 1	54035	7.32E-05					
23	H L Spurlock Station	Unit 03	6041	7.33E-05	7.51E-05				
24	Hopewell	1 & 2	10771	7.34E-05					
25	J K Spruce	1	7097	7.62E-05					
26	Elm Road Generating Station	ERGS-B1	56068	7.64E-05					
27	Weston	W4	4078	7.67E-05					
28	Southampton Power Station	Unit 1 & 2	10774	7.76E-05					
29	Hammond	Unit 1	708	7.88E-05					
30	Hammond	Unit 2	708	7.88E-05					
31	Hammond	Unit 3	708	7.88E-05					
32	Hammond	Unit 4	708	7.88E-05					

Table B-23 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
33	Cholla	003	113	8.03E-05					
34	Cholla	004	113	8.52E-05					
35	Navajo Generating Station	003	4941	9.38E-05	9.67E-05				
36	Pleasant Prairie	PPPPB2	6170	9.44E-05					
37	AES Puerto Rico Cogeneration Facility	Unit_2	68029	9.60E-05					
38	San Juan	Unit 3	2451	9.60E-05					
39	Pleasant Prairie	PPPPB1	6170	9.66E-05					
40	Dallman	34	963	9.70E-05	1.00E-04	8.60E-04			
41	AES Puerto Rico Cogeneration Facility	Unit_1	68029	1.02E-04					
42	Walter Scott Jr. Energy Center	3	1082	1.10E-04					
43	Hamilton	Unit 9	2917	1.10E-04					
44	San Juan	Unit 1	2451	1.11E-04					
45	San Juan	Unit 4	2451	1.18E-04					
46	H L Spurlock Station	Unit 04	6041	1.18E-04	1.30E-04	2.00E-04	1.13E-03		
47	Bowen	Unit 4	703	1.19E-04					
48	Oak Grove	OG1	6180	1.20E-04					
49	San Juan	Unit 2	2451	1.24E-04					
50	Hatfield's Ferry Power Station	001	3179	1.31E-04					
51	Hayden	Unit 2	525	1.43E-04					
52	Cardinal	CD-U1	2828	1.43E-04					
53	Hardin Generator Project	PC1	55749	1.46E-04					
54	Neil Simpson II	NS2Cfg	7504	1.47E-04	1.48E-04				
55	Wygen 1	WYG1Cfg	55479	1.54E-04	1.57E-04				
56	Healy	1	6288	1.54E-04					
57	Bowen	Unit 2	703	1.56E-04					
58	Whelan Energy Center Unit 1 (WEC1)	1	60	1.62E-04					
59	AES Petersburg	2ss	994	1.62E-04					
60	Yates	Y1BR	728	1.63E-04					
61	Conesville	CV-4	2840	1.63E-04					
62	AES Petersburg	1s	994	1.76E-04					
63	Ghent	GH1	1356	1.80E-04					
64	John E. Amos	AM-2	3935	1.83E-04					
65	Cardinal	CD-U2	2828	1.85E-04					
66	Cherokee	Unit 2	469	1.86E-04					
67	Louisa	101	6664	1.91E-04					
68	Welsh	WE-1	6139	1.94E-04					

Table B-23 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
69	Valmont	Unit 5	477	2.11E-04					
70	Mountaineer	Mt-1	6264	2.14E-04					
71	Arapahoe	Unit 3	465	2.18E-04					
72	Hayden	Unit 1	525	2.18E-04					
73	Wansley	Unit 2	6052	2.21E-04					
74	R D Green	2	6639	2.23E-04					
75	Cherokee	Unit 1	469	2.25E-04					
76	Cross	C4	130	2.29E-04					
77	Cherokee	Unit 4	469	2.37E-04					
78	Cross	C1	130	2.44E-04					
79	Bowen	Unit 3	703	2.50E-04					
80	HMP&L Station Two Henderson	1	1382	2.52E-04					
81	Gibson	4	6113	2.61E-04					
82	Crystal River Power Plant	CryR_Cfg_5c	628	2.74E-04					
83	Nebraska City	NC2	6096	2.76E-04					
84	Marshall	U4	2727	2.83E-04					
85	Mt. Storm	Unit 3	3954	2.85E-04					
86	Marshall	U12007	2727	2.86E-04					
87	Marshall	U22007	2727	2.86E-04					
88	Conemaugh	CON-1	3118	2.88E-04	3.30E-04				
89	Montrose	3	2080	3.00E-04	3.60E-03				
90	Montrose	1	2080	3.00E-04	1.00E-03				
91	Montrose	2	2080	3.00E-04	3.60E-03				
92	PPL Montour	U1	3149	3.02E-04					
93	HMP&L Station Two Henderson	2	1382	3.05E-04					
94	Cherokee	Unit 3	469	3.05E-04					
95	Springerville	3	8223	3.06E-04					
96	Wansley	Unit 1	6052	3.11E-04					
97	John E. Amos	AM-3	3935	3.13E-04					
98	Cogentrix Virginia Leasing Corporation	GEN2	10071	3.15E-04					
99	Cumberland	1	3399	3.17E-04					
100	Marshall	U3	2727	3.26E-04					
101	Conemaugh	CON-2	3118	3.33E-04	4.67E-04				
102	Cumberland	2	3399	3.35E-04					
103	Clover	Unit 2	7213	3.38E-04					
104	PPL Montour	U2	3149	3.57E-04					
105	AES Cayuga, LLC	Unit_1	2535	3.59E-04					
106	Red Hills Generating Facility	001	55076	3.67E-04					

Table B-23 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
107	Red Hills Generating Facility	002	55076	3.67E-04					
108	Clover	Unit 1	7213	3.73E-04					
109	Quindaro	Unit 1	1295	3.80E-04					
110	Wygen 2	WYG2Cfg	56319	3.92E-04	4.00E-04				
111	PSEG Hudson Generating Station	HUDU2E2PT 2OS1-Coal	2403	3.94E-04	4.59E-04	2.16E-03			
112	PPL Brunner Island	U2	3140	3.98E-04					
113	PPL Brunner Island	U1	3140	3.98E-04					
114	BL England	2 Coal w or w/o TDF	2378	4.05E-04	5.31E-04	1.00E-03	1.01E-03		
115	Homer City Station	HC3CONFIG	3122	4.06E-04					
116	Nearman Creek	N1	6064	4.10E-04					
117	Laramie River Station	3	6204	4.11E-04					
118	Mt. Storm	Unit 1&2	3954	4.20E-04					
119	Reid Gardner	3	2324	4.52E-04					
120	AES Cayuga, LLC	Unit_2	2535	4.66E-04					
121	Mecklenburg Power Station	Unit 1 & 2	52007	4.86E-04					
122	Newton	002	6017	4.87E-04					
123	Prairie Creek	Unit 2	1073	5.00E-04					
124	Duck Creek	001	6016	5.01E-04					
125	Boswell Energy Center	BEC3	1893	5.13E-04					
126	Ghent	GH3	1356	5.27E-04					
127	East Bend Station	2	6018	5.28E-04					
128	Joliet 9	JOL5 CONFIG	874	5.41E-04					
129	Elrama Power Plant	ELR1-2	3098	5.53E-04					
130	Elrama Power Plant	ELR4-2	3098	5.53E-04					
131	Elrama Power Plant	ELR3-2	3098	5.53E-04					

Table B-24. ***Subcategory 1 and 2 Existing Sources HCl Floor Emission Data Averages (lb/MW)***

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
1	Logan Generating Plant	Unit1	10043	1.13E-04	6.60E-04	6.65E-04	1.02E-03	1.58E-03	3.48E-03
2	TS Power Plant	TSPower	56224	1.89E-04	3.49E-03	9.18E-03			
3	Seward	SEW-1	3130	2.04E-04	1.56E-03				
4	Seward	SEW-2	3130	2.04E-04	1.56E-03				
5	Chambers Cogeneration LP	Boil 1	10566	2.06E-04					
6	Spruance Genco, LLC	GEN3	54081	2.11E-04					
7	Spruance Genco, LLC	GEN2	54081	2.21E-04					
8	Sandow Station	5A	52071	2.22E-04	9.69E-04				
9	Holcomb	SGU1	108	2.28E-04					
10	Sandow Station	5B	52071	2.68E-04	3.16E-04				
11	Chambers Cogeneration LP	Boil 2	10566	2.73E-04					
12	Rawhide	Rawhide101	6761	3.31E-04	5.51E-04	1.47E-03	2.94E-03	3.06E-03	3.22E-03
13	Indiantown Cogeneration L.P.	001	50976	3.39E-04					
14	Walter Scott Jr. Energy Center	4	1082	3.43E-04	5.33E-04	6.66E-04			
15	Roanoke Valley II	Boiler 2	54755	3.60E-04					
16	Navajo Generating Station	001	4941	4.59E-04	5.95E-04				
17	Hopewell	1 & 2	10771	4.61E-04					
18	Spruance Genco, LLC	GEN4	54081	5.02E-04					
19	Southampton Power Station	Unit 1 & 2	10774	5.07E-04					
20	Colstrip	Unit3	6076	5.84E-04					
21	H L Spurlock Station	Unit 03	6041	6.11E-04	6.26E-04				
22	Navajo Generating Station	002	4941	6.12E-04	6.39E-04				
23	Cross	C3	130	6.68E-04					
24	Roanoke Valley I	Boiler 1	54035	6.83E-04					
25	Weston	W4	4078	6.90E-04					
26	Elm Road Generating Station	ERGS-B1	56068	7.35E-04					
27	Cholla	003	113	7.71E-04					
28	Hammond	Unit 2	708	7.79E-04					
29	Hammond	Unit 3	708	7.82E-04					
30	Hammond	Unit 1	708	7.94E-04					
31	Hawthorn	5A	2079	8.01E-04	3.00E-03	3.89E-03			
32	Dallman	34	963	8.14E-04	8.42E-04	7.22E-03			
33	Hammond	Unit 4	708	8.27E-04					
34	J K Spruce	1	7097	8.36E-04					
35	Cholla	004	113	8.56E-04					

Table B-24 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
36	Navajo Generating Station	003	4941	8.61E-04	8.87E-04				
37	AES Puerto Rico Cogeneration Facility	Unit_2	68029	9.26E-04					
38	Pleasant Prairie	PPPPB2	6170	9.38E-04					
39	Pleasant Prairie	PPPPB1	6170	9.59E-04					
40	AES Puerto Rico Cogeneration Facility	Unit_1	68029	9.83E-04					
41	San Juan	Unit 3	2451	1.02E-03					
42	H L Spurlock Station	Unit 04	6041	1.11E-03	1.22E-03	1.87E-03	1.05E-02		
43	Walter Scott Jr. Energy Center	3	1082	1.11E-03					
44	San Juan	Unit 1	2451	1.12E-03					
45	Bowen	Unit 4	703	1.14E-03					
46	San Juan	Unit 4	2451	1.22E-03					
47	Cardinal	CD-U1	2828	1.23E-03					
48	San Juan	Unit 2	2451	1.24E-03					
49	Hatfield's Ferry Power Station	001	3179	1.27E-03					
50	Oak Grove	OG1	6180	1.32E-03					
51	Hayden	Unit 2	525	1.36E-03					
52	AES Petersburg	2ss	994	1.51E-03					
53	AES Petersburg	1s	994	1.52E-03					
54	Conesville	CV-4	2840	1.54E-03					
55	John E. Amos	AM-2	3935	1.57E-03					
56	Hamilton	Unit 9	2917	1.59E-03					
57	Cardinal	CD-U2	2828	1.59E-03					
58	Hardin Generator Project	PC1	55749	1.59E-03					
59	Whelan Energy Center Unit 1 (WEC1)	1	60	1.64E-03					
60	Yates	Y1BR	728	1.67E-03					
61	Bowen	Unit 2	703	1.69E-03					
62	Wygen 1	WYG1Cfg	55479	1.78E-03	1.81E-03				
63	Welsh	WE-1	6139	1.80E-03					
64	Neil Simpson II	NS2Cfg	7504	1.84E-03	1.85E-03				
65	Mountaineer	Mt-1	6264	1.94E-03					
66	Bowen	Unit 3	703	1.95E-03					
67	Valmont	Unit 5	477	1.99E-03					
68	Louisa	101	6664	2.05E-03					
69	Wansley	Unit 2	6052	2.05E-03					
70	Hayden	Unit 1	525	2.12E-03					
71	Healy	1	6288	2.14E-03					
72	Ghent	GH1	1356	2.17E-03					

Table B-24 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
73	Cherokee	Unit 4	469	2.18E-03					
74	Cherokee	Unit 2	469	2.28E-03					
75	Marshall	U4	2727	2.44E-03					
76	Gibson	4	6113	2.47E-03					
77	Cross	C4	130	2.49E-03					
78	R D Green	2	6639	2.54E-03					
79	Cross	C1	130	2.60E-03					
80	Marshall	U12007	2727	2.61E-03					
81	Marshall	U22007	2727	2.62E-03					
82	Crystal River Power Plant	CryR_Cfg_5c	628	2.65E-03					
83	Cherokee	Unit 1	469	2.68E-03					
84	HMP&L Station Two Henderson	1	1382	2.73E-03					
85	PPL Montour	U1	3149	2.74E-03					
86	Conemaugh	CON-1	3118	2.76E-03	3.17E-03				
87	Nebraska City	NC2	6096	2.80E-03					
88	Marshall	U3	2727	2.85E-03					
89	Wansley	Unit 1	6052	2.85E-03					
90	Springerville	3	8223	2.86E-03					
91	John E. Amos	AM-3	3935	2.87E-03					
92	Mt. Storm	Unit 3	3954	3.01E-03					
93	Conemaugh	CON-2	3118	3.19E-03	4.48E-03				
94	AES Cayuga, LLC	Unit_1	2535	3.20E-03					
95	PPL Montour	U2	3149	3.26E-03					
96	Cogentrix Virginia Leasing Corporation	GEN2	10071	3.28E-03					
97	HMP&L Station Two Henderson	2	1382	3.29E-03					
98	Montrose	2	2080	3.40E-03	4.08E-02				
99	Montrose	1	2080	3.41E-03	1.14E-02				
100	Arapahoe	Unit 3	465	3.42E-03					
101	Cumberland	1	3399	3.44E-03					
102	Cherokee	Unit 3	469	3.47E-03					
103	Red Hills Generating Facility	002	55076	3.49E-03					
104	Red Hills Generating Facility	001	55076	3.52E-03					
105	Montrose	3	2080	3.59E-03	4.31E-02				
106	Cumberland	2	3399	3.64E-03					
107	Homer City Station	HC3CONFIG	3122	3.69E-03					
108	PPL Brunner Island	U2	3140	3.84E-03					
109	Quindaro	Unit 1	1295	3.86E-03					

Table B-24 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data	Variability Data				
110	BL England	2 Coal w or w/o TDF	2378	3.87E-03	5.08E-03	9.56E-03	9.67E-03		
111	Nearman Creek	N1	6064	3.88E-03					
112	Clover	Unit 2	7213	3.92E-03					
113	PSEG Hudson Generating Station	HUDU2E2 PT2OS1-Coal	2403	3.94E-03	4.59E-03	2.16E-02			
114	AES Cayuga, LLC	Unit_2	2535	4.02E-03					
115	PPL Brunner Island	U1	3140	4.04E-03					
116	Clover	Unit 1	7213	4.26E-03					
117	Newton	002	6017	4.32E-03					
118	Laramie River Station	3	6204	4.44E-03					
119	Mt. Storm	Unit 1&2	3954	5.00E-03					
120	Reid Gardner	3	2324	5.04E-03					
121	East Bend Station	2	6018	5.13E-03					
122	Wygen 2	WYG2Cfg	56319	5.31E-03	5.42E-03				
123	Duck Creek	001	6016	5.64E-03					
124	Boswell Energy Center	BEC3	1893	5.68E-03					
125	Elrama Power Plant	ELR4-2	3098	5.74E-03					
126	Elrama Power Plant	ELR3-2	3098	5.76E-03					
127	Mecklenburg Power Station	Unit 1 & 2	52007	5.86E-03					
128	Ghent	GH3	1356	5.89E-03					
129	Joliet 9	JOL5 CONFIG	874	5.93E-03					
130	Prairie Creek	Unit 2	1073	6.16E-03					
131	Elrama Power Plant	ELR1-2	3098	6.94E-03					

Table B-25. ***Subcategory 1 and 2 Existing Sources***
SO_2 Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Stanton	u10	2824	7.3939E-03
2	Port of Stockton District Energy Facility	1	54238	8.0000E-03
3	Coffeen	001	861	8.4667E-03
4	AES Puerto Rico Cogeneration Facility	Unit_2	68029	8.7100E-03
5	Elm Road Generating Station	ERGS-B1	56068	9.0000E-03
6	AES Puerto Rico Cogeneration Facility	Unit_1	68029	9.0000E-03
7	Sandow Station	5A	52071	1.1155E-02
8	Boswell Energy Center	BEC3	1893	1.1667E-02
9	TransAlta Centralia Generation	BW21CONFIG	3845	2.1300E-02
10	Spruance Genco, LLC	GEN3	54081	2.2700E-02
11	Hopewell	1 & 2	10771	2.3157E-02
12	Rio Bravo Jasmin	Config 1	10768	2.3200E-02
13	TransAlta Centralia Generation	BW22CONFIG	3845	2.3333E-02
14	Spruance Genco, LLC	GEN2	54081	2.4100E-02
15	Rio Bravo Poso	Config 1	10769	2.4500E-02
16	Crist	Unit 7	641	2.5000E-02
17	Crist	Unit 6	641	2.5000E-02
18	Crist	Unit 4	641	2.5000E-02
19	Crist	Unit 5	641	2.5000E-02
20	Edgecombe Genco, LLC	Gen 1	10384	2.7800E-02
21	Southampton Power Station	Unit 1 & 2	10774	2.8695E-02
22	Reid Gardner	3	2324	2.9267E-02
23	Hammond	Unit 2	708	2.9367E-02
24	Hammond	Unit 3	708	2.9367E-02
25	Hammond	Unit 1	708	2.9367E-02
26	Hammond	Unit 4	708	2.9367E-02
27	Mountaineer	Mt-1	6264	3.1400E-02
28	Hatfield's Ferry Power Station	001	3179	3.1525E-02
29	Colstrip Energy LP	Config1	10784	3.1567E-02
30	Sandow Station	5B	52071	3.2000E-02
31	San Juan	Unit 3	2451	3.5548E-02
32	Walter Scott Jr. Energy Center	4	1082	4.1000E-02
33	TS Power Plant	TSPower	56224	4.1667E-02
34	Spruance Genco, LLC	GEN4	54081	4.2300E-02
35	Clover	Unit 1	7213	4.3842E-02
36	John E. Amos	AM-2	3935	4.5067E-02
37	Colstrip	Unit3	6076	4.5224E-02
38	Asheville Steam Electric Plant	Ash_Cfg_2	2706	4.6388E-02

Table B-25 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
39	AES Petersburg	1s	994	4.7471E-02
40	Bonanza Power Plant	1-1	7790	4.7712E-02
41	Wygen 2	WYG2Cfg	56319	4.8000E-02
42	Belews Creek Steam Station	1-2008	8042	4.8360E-02
43	Big Bend	BB02_pre-SCR	645	4.8783E-02
44	Weston	W4	4078	5.0000E-02
45	Spruance Genco, LLC	GEN1	54081	5.1563E-02
46	Asheville Steam Electric Plant	Ash_Cfg_1d	2706	5.1661E-02
47	ACE Cogeneration Company	Config 1	10002	5.2000E-02
48	John E. Amos	AM-3	3935	5.2143E-02
49	Bowen	Unit 4	703	5.3933E-02
50	Oak Grove	OG1	6180	5.4000E-02
51	Reid Gardner	1	2324	5.5000E-02
52	Springerville	2	8223	5.6000E-02
53	Edgecombe Genco, LLC	Gen 2	10384	5.6800E-02
54	North Valmy	2	8224	5.8667E-02
55	San Juan	Unit 4	2451	5.8871E-02
56	Reid Gardner	4	2324	5.9100E-02
57	East Bend Station	2	6018	6.0856E-02
58	Mitchell	MI-1	3948	6.1300E-02
59	Gorgas	Unit 10	8	6.2911E-02
60	Gorgas	Unit 8	8	6.2911E-02
61	Gorgas	Unit 9	8	6.2911E-02
62	Crystal River Power Plant	CryR_Cfg_5c	628	6.5224E-02
63	San Juan	Unit 1	2451	6.5474E-02
64	Springerville	4	8223	6.9233E-02
65	Harrison Power Station	Boiler2	3944	7.0078E-02
66	Springerville	1	8223	7.1000E-02
67	Bowen	Unit 3	703	7.1933E-02
68	Cross	C3	130	7.4300E-02
69	Springerville	3	8223	7.4367E-02
70	Mitchell	MI-2	3948	7.5067E-02
71	Rawhide	Rawhide101	6761	7.8533E-02
72	Clover	Unit 2	7213	7.9175E-02
73	F. B. Culley	Config3	1012	8.0045E-02
74	F. B. Culley	Config2	1012	8.0045E-02
75	R D Green	2	6639	8.0267E-02
76	Marshall	U12007	2727	8.2924E-02
77	Marshall	U22007	2727	8.2924E-02
78	Reid Gardner	2	2324	8.3000E-02

Table B-25 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
79	Mecklenburg Power Station	Unit 1 & 2	52007	8.3128E-02
80	San Juan	Unit 2	2451	8.3286E-02
81	Ghent	GH1	1356	8.4433E-02
82	Logan Generating Plant	Unit1	10043	9.0996E-02
83	Neil Simpson II	NS2Cfg	7504	9.2100E-02
84	Nebraska City	NC2	6096	9.2367E-02
85	Yates	Y1BR	728	9.3700E-02
86	Panther Creek Energy Facility	BG1	50776	9.3701E-02
87	Panther Creek Energy Facility	BG2	50776	9.3701E-02
88	Marshall	U4	2727	9.4491E-02
89	Hardin Generator Project	PC1	55749	9.5333E-02
90	G G Allen	3-2009-FGDIN	2718	9.7062E-02
91	G G Allen	4-2009-FGDIN	2718	9.7062E-02
92	H L Spurlock Station	Unit 04	6041	9.7767E-02
93	AES Petersburg	2ss	994	9.8233E-02
94	Mt. Storm	Unit 3	3954	9.8267E-02
95	Apache Station	ST2	160	9.9002E-02
96	Ghent	GH4	1356	9.9100E-02
97	Mt. Storm	Unit 1&2	3954	1.0114E-01
98	Foster Wheeler Mt Carmel Cogen	SG-101	10343	1.0864E-01
99	H L Spurlock Station	Unit 01	6041	1.0867E-01
100	Cherokee	Unit 3	469	1.1097E-01
101	Valmont	Unit 5	477	1.1116E-01
102	Cherokee	Unit 4	469	1.1387E-01
103	Bailly	7	995	1.1433E-01
104	Bailly	8	995	1.1433E-01
105	Dallman	34	963	1.1800E-01
106	Hayden	Unit 1	525	1.1897E-01
107	G G Allen	2-2009	2718	1.1925E-01
108	G G Allen	5-2009	2718	1.1925E-01
109	G G Allen	1-2009	2718	1.1925E-01
110	Apache Station	ST3	160	1.2057E-01
111	Hayden	Unit 2	525	1.2141E-01
112	Northampton Generating Company, L.P.	GEN1	50888	1.2354E-01
113	Red Hills Generating Facility	002	55076	1.2496E-01
114	Red Hills Generating Facility	001	55076	1.2496E-01
115	Hawthorn	5A	2079	1.2535E-01
116	Indiantown Cogeneration L.P.	001	50976	1.2667E-01
117	Wygen 1	WYG1Cfg	55479	1.2767E-01
118	Marshall	U3	2727	1.3037E-01

Table B-25 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
119	Cumberland	1	3399	1.3268E-01
120	Conemaugh	CON-2	3118	1.3458E-01
121	Cedar Bay Generating Company L.P.	CBC1	10672	1.3557E-01
122	Oklaunion	OKL-1	127	1.3562E-01
123	Cardinal	CD-U2	2828	1.3690E-01
124	Cholla	003	113	1.3794E-01
125	Cross	C4	130	1.3860E-01
126	Conemaugh	CON-1	3118	1.3917E-01
127	H L Spurlock Station	Unit 02	6041	1.4053E-01
128	Cholla	004	113	1.5058E-01
129	AES Warrior Run Cogeneration Facility	BLR1	10678	1.5393E-01
130	Conesville	CV-4	2840	1.5700E-01
131	Chambers Cogeneration LP	Boil 1	10566	1.5911E-01

Table B-26. ***Subcategory 1 and 2 Existing Sources***
SO_2 Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Coffeen	001	861	7.7188E-02
2	Stanton	u10	2824	7.9115E-02
3	AES Puerto Rico Cogeneration Facility	Unit_2	68029	8.4074E-02
4	Elm Road Generating Station	ERGS-B1	56068	8.6610E-02
5	AES Puerto Rico Cogeneration Facility	Unit_1	68029	8.6873E-02
6	Port of Stockton District Energy Facility	1	54238	9.1200E-02
7	Sandow Station	5A	52071	1.1695E-01
8	Boswell Energy Center	BEC3	1893	1.2930E-01
9	Hopewell	1 & 2	10771	1.4559E-01
10	Edgecombe Genco, LLC	Gen 1	10384	1.7090E-01
11	Southampton Power Station	Unit 1 & 2	10774	1.8757E-01
12	Crist	Unit 5	641	2.4934E-01
13	Crist	Unit 6	641	2.4948E-01
14	Crist	Unit 7	641	2.6399E-01
15	Crist	Unit 4	641	2.6489E-01
16	Rio Bravo Jasmin	Config 1	10768	2.6561E-01
17	TransAlta Centralia Generation	BW21CONFIG	3845	2.7351E-01
18	Rio Bravo Poso	Config 1	10769	2.7762E-01
19	Mountaineer	Mt-1	6264	2.8450E-01
20	Hammond	Unit 2	708	2.9061E-01
21	Hammond	Unit 3	708	2.9147E-01
22	Hammond	Unit 1	708	2.9590E-01
23	Spruance Genco, LLC	GEN3	54081	2.9660E-01
24	Hatfield's Ferry Power Station	001	3179	3.0456E-01
25	Hammond	Unit 4	708	3.0827E-01
26	Spruance Genco, LLC	GEN2	54081	3.1490E-01
27	TransAlta Centralia Generation	BW22CONFIG	3845	3.1864E-01
28	Reid Gardner	3	2324	3.2615E-01
29	Sandow Station	5B	52071	3.3547E-01
30	Edgecombe Genco, LLC	Gen 2	10384	3.4918E-01
31	TS Power Plant	TSPower	56224	3.6364E-01
32	Walter Scott Jr. Energy Center	4	1082	3.7021E-01
33	San Juan	Unit 3	2451	3.7626E-01
34	John E. Amos	AM-2	3935	3.8756E-01
35	AES Petersburg	1s	994	4.0955E-01
36	Colstrip	Unit3	6076	4.2544E-01
37	Asheville Steam Electric Plant	Ash_Cfg_2	2706	4.3250E-01

Table B-26 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
38	Belews Creek Steam Station	1-2008	8042	4.4045E-01
39	Weston	W4	4078	4.5022E-01
40	Colstrip Energy LP	Config1	10784	4.5556E-01
41	ACE Cogeneration Company	Config 1	10002	4.6756E-01
42	Big Bend	BB02_pre-SCR	645	4.7545E-01
43	Asheville Steam Electric Plant	Ash_Cfg_1d	2706	4.7768E-01
44	John E. Amos	AM-3	3935	4.7875E-01
45	Bonanza Power Plant	1-1	7790	4.8394E-01
46	Springerville	2	8223	4.9879E-01
47	Clover	Unit 1	7213	5.0077E-01
48	Bowen	Unit 4	703	5.1377E-01
49	Cedar Bay Generating Company L.P.	CBC1	10672	5.1467E-01
50	Mitchell	MI-1	3948	5.2717E-01
51	Spruance Genco, LLC	GEN4	54081	5.5270E-01
52	Bowen	Unit 3	703	5.6160E-01
53	Gorgas	Unit 10	8	5.7003E-01
54	Gorgas	Unit 8	8	5.7551E-01
55	East Bend Station	2	6018	5.9039E-01
56	Gorgas	Unit 9	8	5.9124E-01
57	Oak Grove	OG1	6180	5.9288E-01
58	Reid Gardner	1	2324	6.0203E-01
59	San Juan	Unit 4	2451	6.1133E-01
60	Harrison Power Station	Boiler2	3944	6.1187E-01
61	Reid Gardner	4	2324	6.2171E-01
62	North Valmy	2	8224	6.2553E-01
63	Crystal River Power Plant	CryR_Cfg_5c	628	6.3124E-01
64	Springerville	1	8223	6.3684E-01
65	Mitchell	MI-2	3948	6.4556E-01
66	Springerville	4	8223	6.4618E-01
67	Wygen 2	WYG2Cfg	56319	6.5000E-01
68	San Juan	Unit 1	2451	6.5598E-01
69	Spruance Genco, LLC	GEN1	54081	6.7374E-01
70	Springerville	3	8223	6.9409E-01
71	Cross	C3	130	7.2018E-01
72	Rawhide	Rawhide101	6761	7.2096E-01
73	F. B. Culley	Config3	1012	7.4997E-01
74	Marshall	U12007	2727	7.5838E-01
75	Marshall	U22007	2727	7.5941E-01
76	G G Allen	3-2009-FGDIN	2718	7.6822E-01
77	Chambers Cogeneration LP	Boil 1	10566	7.7436E-01

Table B-26 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
78	G G Allen	4-2009-FGDIN	2718	7.7701E-01
79	Logan Generating Plant	Unit1	10043	7.9664E-01
80	Marshall	U4	2727	8.1395E-01
81	Chambers Cogeneration LP	Boil 2	10566	8.1837E-01
82	F. B. Culley	Config2	1012	8.2527E-01
83	San Juan	Unit 2	2451	8.3016E-01
84	Reid Gardner	2	2324	9.0851E-01
85	H L Spurlock Station	Unit 04	6041	9.1249E-01
86	AES Petersburg	2ss	994	9.1478E-01
87	R D Green	2	6639	9.1571E-01
88	Clover	Unit 2	7213	9.1963E-01
89	Nebraska City	NC2	6096	9.3724E-01
90	Apache Station	ST2	160	9.3786E-01
91	Yates	Y1BR	728	9.5867E-01
92	Dallman	34	963	9.9014E-01
93	Mecklenburg Power Station	Unit 1 & 2	52007	1.0030E+00
94	G G Allen	2-2009	2718	1.0166E+00
95	Ghent	GH1	1356	1.0207E+00
96	Mt. Storm	Unit 3	3954	1.0397E+00
97	Hardin Generator Project	PC1	55749	1.0447E+00
98	Valmont	Unit 5	477	1.0464E+00
99	Cherokee	Unit 4	469	1.0465E+00
100	AES Hawaii	002	10673	1.0467E+00
101	Bailly	7	995	1.0640E+00
102	Bailly	8	995	1.0958E+00
103	AES Hawaii	001	10673	1.1237E+00
104	Ghent	GH4	1356	1.1263E+00
105	G G Allen	5-2009	2718	1.1306E+00
106	Marshall	U3	2727	1.1367E+00
107	Apache Station	ST3	160	1.1421E+00
108	H L Spurlock Station	Unit 01	6041	1.1502E+00
109	Neil Simpson II	NS2Cfg	7504	1.1513E+00
110	Hayden	Unit 2	525	1.1553E+00
111	Hayden	Unit 1	525	1.1561E+00
112	Northampton Generating Company, L.P.	GEN1	50888	1.1700E+00
113	Cardinal	CD-U2	2828	1.1738E+00
114	G G Allen	1-2009	2718	1.1762E+00
115	Red Hills Generating Facility	002	55076	1.1908E+00
116	Red Hills Generating Facility	001	55076	1.2002E+00
117	Indiantown Cogeneration L.P.	001	50976	1.2007E+00

Table B-26 (continued)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
118	Mt. Storm	Unit 1&2	3954	1.2047E+00
119	Panther Creek Energy Facility	BG1	50776	1.2090E+00
120	Panther Creek Energy Facility	BG2	50776	1.2090E+00
121	AES Thames	B	10675	1.2181E+00
122	AES Thames	A	10675	1.2409E+00
123	Cherokee	Unit 3	469	1.2624E+00
124	Foster Wheeler Mt Carmel Cogen	SG-101	10343	1.2759E+00
125	Conemaugh	CON-2	3118	1.2919E+00
126	Cholla	003	113	1.3247E+00
127	Conemaugh	CON-1	3118	1.3360E+00
128	Oklaunion	OKL-1	127	1.3764E+00
129	Hawthorn	5A	2079	1.3928E+00
130	H L Spurlock Station	Unit 02	6041	1.4180E+00
131	Cumberland	1	3399	1.4421E+00

Table B-27 ***Subcategory 1 Existing Sources***
Mercury Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data	Variability Data						
1	Spruance Genco, LLC	54081	GEN2	2.63E-09							
2	Spruance Genco, LLC	54081	GEN3	4.69E-09							
3	Nucla	527	001	5.33E-09	6.00E-09	9.85E-09					
4	Logan Generating Plant	10043	Unit1	5.33E-09							
5	Seward	3130	SEW-1	6.35E-09	3.80E-08	5.53E-08					
6	AES Greenidge	2527	Unit 4	6.46E-09	7.68E-08						
7	Roanoke Valley I	54035	Boiler 1	7.26E-09							
8	AES Westover, LLC	2526	8	8.15E-09							
9	Indiantown Cogeneration, L.P.	50976	001	8.54E-09	5.49E-07						
10	Northampton Generating Company, L.P.	50888	GEN1	1.04E-08	1.29E-07						
11	Roanoke Valley II	54755	Boiler 2	1.08E-08							
12	AES Hawaii	10673	001	1.17E-08							
13	Spruance Genco, LLC	54081	GEN4	1.18E-08	1.61E-06						
14	Ebensburg Power Company	10603	EPC01	1.25E-08	3.87E-08	3.47E-07					
15	AES Hawaii	10673	002	1.30E-08							
16	Colver Power Project	10143	AAB01	1.46E-08	6.75E-08	7.16E-08					
17	Birchwood Power Facility	54304	1A	1.55E-08							
18	Cedar Bay Generating Company L.P.	10672	CBB1	1.90E-08	1.48E-07						
19	Valley	4042	VAPP-B1	1.93E-08							
20	Chambers Cogeneration LP	10566	Boil 1	1.93E-08							
21	Reid Gardner	2324	1	2.01E-08							
22	Clover	7213	Unit 1	2.02E-08							
23	Valley	4042	VAPP-B3	2.09E-08							
24	Cedar Bay Generating Company L.P.	10672	CBA1	2.22E-08							
25	AES Warrior Run Cogeneration Facility	10678	BLR1	2.34E-08	2.01E-07	2.27E-07	2.65E-07				
26	Cedar Bay Generating Company L.P.	10672	CBC1	2.65E-08							
27	Valley	4042	VAPP-B2	2.74E-08							
28	Cherokee	469	Unit 3	2.81E-08	9.73E-08	1.60E-07					
29	BL England	2378	2 Coal w or w/o TDF	2.96E-08	4.41E-08	2.23E-07	2.85E-07	3.51E-07	4.85E-07	7.69E-07	2.43E-06
30	Martin Drake	492	Unit 7 - Coal	3.11E-08	1.83E-07	6.83E-07					
31	Cherokee	469	Unit 4	3.17E-08	1.92E-07	1.12E-06					
32	Chambers Cogeneration LP	10566	Boil 2	3.38E-08							
33	San Juan	2451	Unit 4	3.43E-08	1.36E-07	3.43E-07					
34	Scrubgrass Generating Company L.P.	50974	Gen 1	3.53E-08	5.60E-07	3.00E-06					

Table B-27 (continued)

Count	Facility Name	ORIS Code	Unit ID	Floor Data	Variability Data						
35	Martin Drake	492	Unit 5 - Coal	3.75E-08	3.37E-07	4.33E-07					
36	Panther Creek Energy Facility	50776	BG1	4.13E-08	8.10E-08	1.80E-07					
37	Panther Creek Energy Facility	50776	BG2	4.13E-08	5.98E-08	1.28E-07					
38	Canadys Steam	3280	CAN003	4.34E-08							
39	Valmont	477	Unit 5	4.39E-08	5.90E-07						
40	McMeekin	3287	MCM002	4.53E-08							

Table B-28. ***Subcategory 1 Existing Sources Mercury Floor Emission Data Averages (lb/MW)***

Count	Facility Name	ORIS Code	Unit ID	Floor Data	Variability Data						
1	Spruance Genco, LLC	54081	GEN2	3.4E-08							
2	Spruance Genco, LLC	54081	GEN3	6.1E-08							
3	Nucla	527	001	5.0E-08	5.6E-08	9.2E-08					
4	Logan Generating Plant	10043	Unit1	4.7E-08							
5	Seward	3130	SEW-1	6.7E-08	4.0E-07	5.9E-07					
6	AES Greenidge	2527	Unit 4	6.4E-08	7.7E-07						
7	Roanoke Valley I	54035	Boiler 1	6.8E-08							
8	AES Westover, LLC	2526	8	8.3E-08							
9	Indiantown Cogeneration, L.P.	50976	001	8.1E-08	5.2E-06						
10	Northampton Generating Company, L.P.	50888	GEN1	9.8E-08	1.2E-06						
11	Roanoke Valley II	54755	Boiler 2	1.2E-07							
12	AES Hawaii	10673	001	5.9E-08							
13	Spruance Genco, LLC	54081	GEN4	1.5E-07	2.1E-05						
14	Ebensburg Power Company	10603	EPC01	1.8E-07	5.5E-07	5.0E-06					
15	AES Hawaii	10673	002	6.0E-08							
16	Colver Power Project	10143	AAB01	1.6E-07	7.4E-07	7.8E-07					
17	Birchwood Power Facility	54304	1A	1.6E-07							
18	Cedar Bay Generating Company L.P.	10672	CBB1	7.2E-08	5.6E-07						
19	Valley	4042	VAPP-B1	2.3E-07							
20	Chambers Cogeneration LP	10566	Boil 1	9.4E-08							
21	Reid Gardner	2324	1	2.2E-07							
22	Clover	7213	Unit 1	2.3E-07							
23	Valley	4042	VAPP-B3	2.5E-07							
24	Cedar Bay Generating Company L.P.	10672	CBA1	8.4E-08							
25	AES Warrior Run Cogeneration Facility	10678	BLR1	2.4E-07	2.0E-06	2.3E-06	2.7E-06				
26	Cedar Bay Generating Company L.P.	10672	CBC1	1.0E-07							
27	Valley	4042	VAPP-B2	3.3E-07							
28	Cherokee	469	Unit 3	3.2E-07	1.1E-06	1.8E-06					
29	BL England	2378	2 Coal w or w/o TDF	2.8E-07	4.2E-07	2.1E-06	2.7E-06	3.4E-06	4.6E-06	7.4E-06	2.3E-05
30	Martin Drake	492	Unit 7 - Coal	3.3E-07	1.9E-06	7.1E-06					
31	Cherokee	469	Unit 4	2.9E-07	1.8E-06	1.0E-05					
32	Chambers Cogeneration LP	10566	Boil 2	1.6E-07							
33	San Juan	2451	Unit 4	3.6E-07	1.4E-06	3.6E-06					
34	Scrubgrass Generating Company L.P.	50974	Gen 1	2.3E-07	3.6E-06	1.9E-05					

Table B-28 (continued)

Count	Facility Name	ORIS Code	Unit ID	Floor Data	Variability Data						
35	Martin Drake	492	Unit 5 - Coal	3.9E-07	3.5E-06	4.5E-06					
36	Panther Creek Energy Facility	50776	BG1	5.3E-07	1.0E-06	2.3E-06					
37	Panther Creek Energy Facility	50776	BG2	5.3E-07	7.7E-07	1.6E-06					
38	Canadys Steam	3280	CAN003	4.3E-07							
39	Valmont	477	Unit 5	4.1E-07	5.6E-06						
40	McMeekin	3287	MCM002	3.8E-07							

Table B-29. ***Subcategory 2 Existing Sources***
Mercury Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data	Variability Data	
1	Sandow Station	52071	5B	1.02E-06	1.24E-06	5.60E-06
2	Oak Grove	6180	OG1	1.11E-06	3.87E-06	

Table B-30. ***Subcategory 2 Existing Sources***
Mercury Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data	Variability Data	
1	Sandow Station	52071	5B	1.07E-05	1.30E-05	5.87E-05
2	Oak Grove	6180	OG1	1.22E-05	4.25E-05	

Table B-31. ***Subcategory 3 Existing Sources***
Total PM Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	1.1627E-02	1.3584E-02	1.7130E-02
2	Wabash River	1010	PG7221FA	3.3990E-02	3.3780E-02	3.3530E-02

Table B-32. ***Subcategory 3 Existing Sources***
Total PM Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	1.0871E-01	1.2701E-01	1.6017E-01
2	Wabash River	1010	PG7221FA	1.9895E-01	1.9772E-01	1.9625E-01

Table B-33. ***Subcategory 3 Existing Sources***
Total HAP Metal Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.9304E-06	2.3194E-06	1.8066E-06
2	Polk	7242	IGCC1	3.8627E-06	2.0753E-06	1.0174E-06

Table B-34. ***Subcategory 3 Existing Sources***
Total HAP Metal Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.1299E-05	1.3576E-05	1.0574E-05
2	Polk	7242	IGCC1	3.6116E-05	1.9404E-05	9.5131E-06

Table B-35. ***Subcategory 3 Existing Sources***
Antimony (Sb) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.3200E-08	9.2100E-08	
2	Polk	7242	IGCC1	2.6549E-07	7.1530E-08	6.6185E-08

Table B-36. ***Subcategory 3 Existing Sources***
Antimony (Sb) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	7.7261E-08	5.3907E-07	
2	Polk	7242	IGCC1	2.4823E-06	6.6880E-07	6.1883E-07

Table B-37. ***Subcategory 3 Existing Sources***
Arsenic (As) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.9800E-07	3.9600E-07	5.2200E-07
2	Polk	7242	IGCC1	7.8720E-07	9.1806E-07	6.2805E-07

Table B-38. ***Subcategory 3 Existing Sources***
Arsenic (As) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.1589E-06	2.3178E-06	3.0553E-06
2	Polk	7242	IGCC1	7.3603E-06	8.5839E-06	5.8723E-06

Table B-39. ***Subcategory 3 Existing Sources***
Beryllium (Be) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	4.3900E-09	7.5600E-09	6.1400E-09
2	Polk	7242	IGCC1	1.4476E-08	1.4081E-08	1.4082E-08

Table B-40. ***Subcategory 3 Existing Sources***
Beryllium (Be) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	2.5695E-08	4.4249E-08	3.5938E-08
2	Polk	7242	IGCC1	1.3535E-07	1.3165E-07	1.3167E-07

Table B-41. ***Subcategory 3 Existing Sources***
Cadmium (Cd) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	4.3900E-08	4.8900E-08	8.7700E-09
2	Polk	7242	IGCC1	1.0538E-07	5.6323E-08	5.6327E-08

Table B-42. ***Subcategory 3 Existing Sources***
Cadmium (Cd) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	2.5695E-07	2.8622E-07	5.1332E-08
2	Polk	7242	IGCC1	9.8535E-07	5.2662E-07	5.2666E-07

Table B-43. ***Subcategory 3 Existing Sources***
Chromium (Cr) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	8.7261E-07	7.2487E-07	1.6560E-07
2	Wabash River	1010	PG7221FA	1.6300E-06	1.8200E-06	1.8900E-06

Table B-44. ***Subcategory 3 Existing Sources***
Chromium (Cr) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	8.1589E-06	6.7776E-06	1.5484E-06
2	Wabash River	1010	PG7221FA	9.5405E-06	1.0653E-05	1.1062E-05

Table B-45. ***Subcategory 3 Existing Sources***
Cobalt (Co) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	5.0500E-07	8.9000E-09	2.6300E-08
2	Polk	7242	IGCC1	1.1754E-07	6.0265E-08	5.6327E-08

Table B-46. ***Subcategory 3 Existing Sources***
Cobalt (Co) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	2.9558E-06	5.2092E-08	1.5394E-07
2	Polk	7242	IGCC1	1.0990E-06	5.6348E-07	5.2666E-07

Table B-47. ***Subcategory 3 Existing Sources***
Lead (Pb) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	2.2000E-07	1.3300E-07	3.5100E-07
2	Polk	7242	IGCC1	2.4722E-05	3.8550E-06	1.7036E-06

Table B-48. ***Subcategory 3 Existing Sources***
Lead (Pb) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.2877E-06	7.7846E-07	2.0544E-06
2	Polk	7242	IGCC1	2.3115E-04	3.6044E-05	1.5929E-05

Table B-49. ***Subcategory 3 Existing Sources***
Manganese (Mn) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	6.1841E-07	2.2445E-07	4.3372E-07
2	Wabash River	1010	PG7221FA	1.6700E-06	1.4200E-06	1.4900E-06

Table B-50. ***Subcategory 3 Existing Sources***
Manganese (Mn) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	5.7821E-06	2.0986E-06	4.0553E-06
2	Wabash River	1010	PG7221FA	9.7746E-06	8.3114E-06	8.7211E-06

Table B-51. ***Subcategory 3 Existing Sources***
Nickel (Ni) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.6200E-06	1.4600E-06	1.1800E-06
2	Polk	7242	IGCC1	3.2785E-06	2.8313E-06	7.8408E-07

Table B-52. ***Subcategory 3 Existing Sources***
Nickel (Ni) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	9.4820E-06	8.5455E-06	6.9066E-06
2	Polk	7242	IGCC1	3.0654E-05	2.6473E-05	7.3311E-06

Table B-53. ***Subcategory 3 Existing Sources***
Selenium (Se) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	7.8459E-06	1.1997E-05	6.2664E-06
2	Wabash River	1010	PG7221FA	1.3400E-05	1.7900E-05	1.2500E-05

Table B-54. ***Subcategory 3 Existing Sources***
Selenium (Se) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	7.3360E-05	1.1217E-04	5.8591E-05
2	Wabash River	1010	PG7221FA	7.8431E-05	1.0477E-04	7.3164E-05

Table B-55. ***Subcategory 3 Existing Sources***
HCl Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	7.9410E-05	7.9946E-05	8.4319E-05
2	Wabash River	1010	PG7221FA	2.9400E-04	3.0800E-04	2.4900E-04

Table B-56. ***Subcategory 3 Existing Sources***
HCl Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Polk	7242	IGCC1	7.4248E-04	7.4750E-04	7.8838E-04
2	Wabash River	1010	PG7221FA	1.7208E-03	1.8027E-03	1.4574E-03

Table B-57. ***Subcategory 3 Existing Sources***
Mercury Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	1.2500E-07	9.7800E-07	1.0200E-07
2	Polk	7242	IGCC1	1.2400E-06	1.4200E-06	1.0400E-06

Table B-58. ***Subcategory 3 Existing Sources***
Mercury Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Wabash River	1010	PG7221FA	7.3164E-07	5.7243E-06	5.9701E-07
2	Polk	7242	IGCC1	1.1594E-05	1.3277E-05	9.7240E-06

Table B-59. ***Subcategory 4 Existing Sources***
Total HAP Metal Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	6.9703E-06
2	Port Everglades	617	PPE04	8.6104E-06
3	Mitchell Power Station	3181	003	8.6441E-06
4	Port Everglades	617	PPE03	1.0928E-05
5	Eagle Valley	991	1	1.2799E-05
6	Eagle Valley	991	2	1.2799E-05
7	Mitchell Power Station	3181	001	1.5586E-05

Table B-60. ***Subcategory 4 Existing Sources***
Total HAP Metal Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	8.7194E-05
2	Harding Street	990	09	9.9280E-05
3	Port Everglades	617	PPE03	1.1066E-04
4	Mitchell Power Station	3181	003	1.1787E-04
5	Eagle Valley	991	1	1.5968E-04
6	Eagle Valley	991	2	1.5968E-04
7	Mitchell Power Station	3181	001	2.1253E-04

Table B-61. ***Subcategory 4 Existing Sources***
Antimony (Sb) Floor Emission Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	2.1226E-08
2	Mitchell Power Station	3181	003	7.0337E-08
3	Mitchell Power Station	3181	001	8.9044E-08
4	Harding Street	990	10	9.8104E-08
5	Port Everglades	617	PPE04	9.8724E-08
6	Eagle Valley	991	1	1.1476E-07
7	Eagle Valley	991	2	1.1476E-07

Table B-62. ***Subcategory 4 Existing Sources***
Arsenic (As) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE03	1.6383E-07
2	Port Everglades	617	PPE04	2.0653E-07
3	Harding Street	990	09	2.1801E-07
4	Mitchell Power Station	3181	001	2.5163E-07
5	Montville Station	546	5	3.2441E-07
6	Mitchell Power Station	3181	003	3.5594E-07
7	Middletown	562	2	3.7129E-07

Table B-63. ***Subcategory 4 Existing Sources***
Beryllium (Be) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	1.6033E-08
2	Mitchell Power Station	3181	003	2.1101E-08
3	Jefferies	3319	J2	2.1469E-08
4	Mitchell Power Station	3181	001	2.6713E-08
5	Port Everglades	617	PPE03	2.8409E-08
6	Harding Street	990	10	3.4656E-08
7	Suwannee River Plant	638	Suw_Cfg_2	4.2014E-08

Table B-64. ***Subcategory 4 Existing Sources***
Cadmium (Cd) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE03	1.4205E-08
2	Mitchell Power Station	3181	003	3.9047E-08
3	Montville Station	546	5	4.2553E-08
4	Manatee	6042	PMT02	4.7800E-08
5	Middletown	562	2	5.3287E-08
6	Eagle Valley	991	1	5.5408E-08
7	Eagle Valley	991	2	5.5408E-08

Table B-65. ***Subcategory 4 Existing Sources***
Chromium (Cr) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	4.3092E-07
2	Harding Street	990	09	4.8310E-07
3	Waiau	766	W6	8.5221E-07
4	Port Everglades	617	PPE03	8.6871E-07
5	Northport	2516	Unit2	8.9322E-07
6	Eagle Valley	991	1	9.9028E-07
7	Eagle Valley	991	2	9.9028E-07

Table B-66. ***Subcategory 4 Existing Sources***
Cobalt (Co) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	8.0152E-08
2	Mitchell Power Station	3181	003	2.1101E-07
3	Port Everglades	617	PPE03	3.3974E-07
4	Mitchell Power Station	3181	001	3.8045E-07
5	Danskammer Generating Station	2480	1	9.8722E-07
6	Danskammer Generating Station	2480	2	1.0362E-06
7	Norwalk - Norwalk Power LLC	548	2	1.0679E-06

Table B-67. ***Subcategory 4 Existing Sources***
Lead (Pb) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	1.3693E-07
2	Port Everglades	617	PPE03	2.3555E-07
3	Mitchell Power Station	3181	003	5.4833E-07
4	Mitchell Power Station	3181	001	6.9486E-07
5	Waiau	766	W7	7.8488E-07
6	Honolulu	764	H9	9.3131E-07
7	Northport	2516	Unit2	1.2005E-06

Table B-68. ***Subcategory 4 Existing Sources***
Manganese (Mn) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	5.2749E-07
2	Port Everglades	617	PPE03	8.3343E-07
3	Harding Street	990	09	8.3983E-07
4	Eagle Valley	991	1	1.4861E-06
5	Eagle Valley	991	2	1.4861E-06
6	Mitchell Power Station	3181	003	2.0313E-06
7	Mitchell Power Station	3181	001	2.9932E-06

Table B-69. ***Subcategory 4 Existing Sources***
Nickel (Ni) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	7.8153E-07
2	Eagle Valley	991	1	1.1888E-06
3	Eagle Valley	991	2	1.1888E-06
4	Mitchell Power Station	3181	003	2.6068E-06
5	Harding Street	990	10	2.8318E-06
6	Port Everglades	617	PPE04	3.2625E-06
7	Port Everglades	617	PPE03	4.8607E-06

Table B-70. ***Subcategory 4 Existing Sources***
Selenium (Se) Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	1.8038E-07
2	Manatee	6042	PMT02	3.9828E-07
3	Harding Street	990	10	4.7288E-07
4	William F Wyman	1507	1	5.2559E-07
5	Eagle Valley	991	1	6.2094E-07
6	Eagle Valley	991	2	6.2094E-07
7	Mitchell Power Station	3181	003	7.0337E-07

Table B-71. ***Subcategory 4 Existing Sources***
Antimony (Sb) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	3.0233E-07
2	Mitchell Power Station	3181	003	9.5913E-07
3	Port Everglades	617	PPE04	9.9974E-07
4	Mitchell Power Station	3181	001	1.2142E-06
5	Harding Street	990	10	1.3973E-06
6	Eagle Valley	991	1	1.4318E-06
7	Eagle Valley	991	2	1.4318E-06

Table B-72. ***Subcategory 4 Existing Sources***
Arsenic (As) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE03	1.6590E-06
2	Port Everglades	617	PPE04	2.0914E-06
3	Mitchell Power Station	3181	001	3.1052E-06
4	Ravenswood	2500	20	3.4313E-06
5	Harding Street	990	09	3.4850E-06
6	Ravenswood	2500	30	3.9850E-06
7	Mitchell Power Station	3181	003	4.8537E-06

Table B-73. ***Subcategory 4 Existing Sources***
Beryllium (Be) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	2.2836E-07
2	Mitchell Power Station	3181	003	2.5080E-07
3	Jefferies	3319	J2	2.8769E-07
4	Mitchell Power Station	3181	001	2.8774E-07
5	Port Everglades	617	PPE03	3.6427E-07
6	Harding Street	990	10	4.3000E-07
7	Suwannee River Plant	638	Suw_Cfg_2	4.5652E-07

Table B-74. ***Subcategory 4 Existing Sources***
Cadmium (Cd) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE03	1.4385E-07
2	Manatee	6042	PMT02	4.8415E-07
3	Middletown	562	2	5.0016E-07
4	Montville Station	546	5	5.2272E-07
5	Mitchell Power Station	3181	003	5.3245E-07
6	Northport	2516	Unit2	6.1113E-07
7	Manatee	6042	PMT01	6.1557E-07

Table B-75. ***Subcategory 4 Existing Sources***
Chromium (Cr) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	4.3637E-06
2	Harding Street	990	09	6.8809E-06
3	Northport	2516	Unit2	8.6940E-06
4	Port Everglades	617	PPE03	8.7970E-06
5	Waiau	766	W6	9.3654E-06
6	Eagle Valley	991	1	1.2355E-05
7	Eagle Valley	991	2	1.2355E-05

Table B-76. ***Subcategory 4 Existing Sources***
Cobalt (Co) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	1.1416E-06
2	Mitchell Power Station	3181	003	2.8774E-06
3	Port Everglades	617	PPE03	3.4404E-06
4	Mitchell Power Station	3181	001	5.1879E-06
5	Danskammer Generating Station	2480	1	9.8269E-06
6	Danskammer Generating Station	2480	2	9.9779E-06
7	Norwalk - Norwalk Power LLC	548	2	1.0655E-05

Table B-77. ***Subcategory 4 Existing Sources***
Lead (Pb) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	1.3867E-06
2	Port Everglades	617	PPE03	2.3853E-06
3	Mitchell Power Station	3181	003	7.4773E-06
4	Waiau	766	W7	7.8624E-06
5	Mitchell Power Station	3181	001	9.4753E-06
6	Honolulu	764	H9	1.0318E-05
7	Northport	2516	Unit2	1.1685E-05

Table B-78. ***Subcategory 4 Existing Sources***
Manganese (Mn) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Port Everglades	617	PPE04	5.3417E-06
2	Port Everglades	617	PPE03	8.4398E-06
3	Harding Street	990	09	1.1962E-05
4	Eagle Valley	991	1	1.8540E-05
5	Eagle Valley	991	2	1.8540E-05
6	Mitchell Power Station	3181	003	2.7700E-05
7	Mitchell Power Station	3181	001	4.0817E-05

Table B-79. ***Subcategory 4 Existing Sources***
Nickel (Ni) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	1.1132E-05
2	Eagle Valley	991	1	1.4831E-05
3	Eagle Valley	991	2	1.4831E-05
4	Port Everglades	617	PPE04	3.3038E-05
5	Mitchell Power Station	3181	003	3.5548E-05
6	Harding Street	990	10	4.0334E-05
7	Port Everglades	617	PPE03	4.9223E-05

Table B-80. ***Subcategory 4 Existing Sources***
Selenium (Se) Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Harding Street	990	09	2.5693E-06
2	Manatee	6042	PMT02	4.0341E-06
3	William F Wyman	1507	1	6.3434E-06
4	Harding Street	990	10	6.7354E-06
5	Kahe	765	K1	7.6945E-06
6	Eagle Valley	991	1	7.7470E-06
7	Eagle Valley	991	2	7.7470E-06

Table B-81. ***Subcategory 4 Existing Sources***
HCl Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	East River	2493	60	1.0200E-05
2	Eagle Valley	991	1	9.3457E-05
3	Eagle Valley	991	2	9.3457E-05
4	Harding Street	990	09	9.5896E-05
5	Kahe	765	K1	9.6790E-05
6	Harding Street	990	10	1.1276E-04
7	Waiau	766	W7	1.4510E-04

Table B-82. ***Subcategory 4 Existing Sources***
HCl Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	East River	2493	60	1.5213E-04
2	Kahe	765	K1	9.5001E-04
3	Eagle Valley	991	1	1.1660E-03
4	Eagle Valley	991	2	1.1660E-03
5	Harding Street	990	09	1.3659E-03
6	Waiau	766	W7	1.4535E-03
7	Harding Street	990	10	1.6061E-03

Table B-83. ***Subcategory 4 Existing Sources***
HF Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	East River	2493	60	1.0500E-05
2	Suwannee River Plant	638	Suw_Cfg_1	4.5011E-05
3	C D McIntosh Jr	676	Unit 2	5.7150E-05
4	BL England	2378	3	5.9031E-05
5	Manatee	6042	PMT01	8.1140E-05
6	Northside Generating Station	667	3	8.5359E-05
7	Suwannee River Plant	638	Suw_Cfg_2	9.3639E-05

Table B-84. ***Subcategory 4 Existing Sources***
HF Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	East River	2493	60	1.5661E-04
2	Suwannee River Plant	638	Suw_Cfg_1	4.5737E-04
3	BL England	2378	3	5.7363E-04
4	C D McIntosh Jr	676	Unit 2	5.9019E-04
5	Northside Generating Station	667	3	7.7061E-04
6	Manatee	6042	PMT01	8.3455E-04
7	Martin	6043	PMR02	1.0060E-03

Table B-85. ***Subcategory 4 Existing Sources***
Mercury Floor Emission Data Averages (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Northport	2516	Unit2	6.6613E-09
2	Northport	2516	Unit3	9.3057E-09
3	William F Wyman	1507	1	2.0326E-08
4	Waiau	766	W7	2.4833E-08
5	C D McIntosh Jr	676	Unit 2	2.5533E-08
6	Honolulu	764	H9	2.5533E-08
7	PSEG Sewaren Generating Station	2411	SEWU3E3PT3OS0	2.6967E-08

Table B-86. ***Subcategory 4 Existing Sources***
Mercury Floor Emission Data Averages (lb/MW)

Count	Facility Name	ORIS Code	Unit Number	Floor Data
1	Northport	2516	Unit2	6.4837E-08
2	Northport	2516	Unit3	9.0575E-08
3	William F Wyman	1507	1	2.4532E-07
4	Waiau	766	W7	2.4877E-07
5	C D McIntosh Jr	676	Unit 2	2.6368E-07
6	Honolulu	764	H9	2.8288E-07
7	Waiau	766	W6	3.1650E-07

Table B-87. ***Subcategory 5 Existing Sources***
Total PM Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Manitowoc	4125	B-09	2.0956E-03	6.0140E-03	2.9027E-03
2	Northside Generating Station	667	2A	3.8994E-03	3.7926E-03	3.6222E-03
3	Northside Generating Station	667	1A	3.2803E-03	4.1168E-03	6.1240E-03
4	Bay Shore	2878	Unit 1	2.0045E-02	5.4972E-02	3.6516E-02
5	AES Deepwater	10670	Deepwater	2.6824E-01	3.1234E-02	1.6253E-02

Table B-88. ***Subcategory 5 Existing Sources***
Total PM Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	2A	3.4767E-02	3.3816E-02	3.2296E-02
2	Northside Generating Station	667	1A	2.9248E-02	3.6706E-02	5.4603E-02
3	Manitowoc	4125	B-09	4.1138E-02	1.1806E-01	5.6982E-02
4	Bay Shore	2878	Unit 1	1.6169E-01	4.4342E-01	2.9455E-01
5	AES Deepwater	10670	Deepwater	3.0858E+00	3.5931E-01	1.8697E-01

Table B-89. ***Subcategory 5 Existing Sources***
Total HAP Metal Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	8.4090E-06	6.6782E-06	5.3700E-06
2	Yellowstone Energy LP	50931	Config1	1.1993E-05	1.2643E-05	1.3262E-05
3	Northside Generating Station	667	2A	1.6898E-05	5.9801E-06	2.2347E-05
4	Manitowoc	4125	B-09	3.2902E-05	3.5006E-05	3.4099E-05
5	Bay Shore	2878	Unit 1	5.0281E-05	4.1803E-05	3.4419E-05

Table B-90. ***Subcategory 5 Existing Sources***
Total HAP Metal Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	9.6735E-05	7.6825E-05	6.1776E-05
2	Northside Generating Station	667	2A	1.5067E-04	5.3320E-05	1.9924E-04
3	Yellowstone Energy LP	50931	Config1	2.0707E-04	2.1831E-04	2.2899E-04
4	Bay Shore	2878	Unit 1	4.0558E-04	3.3719E-04	2.7763E-04
5	Manitowoc	4125	B-09	6.4589E-04	6.8719E-04	6.6940E-04

Table B-91. ***Subcategory 5 Existing Sources***
Antimony (Sb) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	1.3785E-08	2.9342E-08	1.1657E-08
2	Yellowstone Energy LP	50931	Config1	2.5771E-08	2.0708E-08	2.2459E-08
3	Northside Generating Station	667	2A	3.5725E-08	1.8473E-08	9.4601E-08
4	Bay Shore	2878	Unit 1	9.0471E-08	7.5746E-08	6.4638E-08
5	Manitowoc	4125	B-09	1.6785E-07	2.5526E-07	5.2621E-07

Table B-92. ***Subcategory 5 Existing Sources***
Arsenic (As) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	5.5141E-08	3.1298E-08	3.8857E-08
2	Northside Generating Station	667	2A	5.8947E-08	6.0960E-08	6.2436E-08
3	Bay Shore	2878	Unit 1	1.4223E-07	1.4679E-07	1.4697E-07
4	Northside Generating Station	667	1A	4.0465E-07	1.8421E-07	1.2004E-07
5	Yellowstone Energy LP	50931	Config1	2.5771E-07	2.0708E-07	2.2459E-07

Table B-93. ***Subcategory 5 Existing Sources***
Beryllium (Be) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	5.9080E-09	5.8684E-09	5.8285E-09
2	Yellowstone Energy LP	50931	Config1	1.2885E-08	1.0354E-08	1.1229E-08
3	Bay Shore	2878	Unit 1	1.2155E-08	1.5731E-08	1.2435E-08
4	Manitowoc	4125	B-09	5.5737E-08	4.4872E-08	5.4602E-08
5	Northside Generating Station	667	1A	5.5574E-08	5.4580E-08	5.6488E-08

Table B-94. ***Subcategory 5 Existing Sources***
Cadmium (Cd) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	1.5755E-08	1.9561E-08	2.7200E-08
2	Yellowstone Energy LP	50931	Config1	1.1480E-07	6.1184E-08	3.4709E-08
3	Manitowoc	4125	B-09	1.4543E-07	1.3694E-07	1.7498E-07
4	Northside Generating Station	667	1A	1.8478E-07	1.8284E-07	1.8765E-07
5	Northside Generating Station	667	2A	3.4832E-07	1.9636E-07	5.1463E-07

Table B-95. ***Subcategory 5 Existing Sources***
Chromium (Cr) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	2A	1.1075E-07	2.4384E-07	6.4328E-08
2	Northside Generating Station	667	1A	2.2056E-07	1.6886E-07	1.0945E-07
3	Yellowstone Energy LP	50931	Config1	3.3970E-07	3.9534E-07	3.1646E-07
4	Manitowoc	4125	B-09	7.1967E-07	7.7468E-07	6.1559E-07
5	AES Deepwater	10670	Deepwater	1.3490E-06	1.5630E-06	6.5085E-07

Table B-96. ***Subcategory 5 Existing Sources***
Cobalt (Co) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	6.4988E-08	3.9123E-08	6.2171E-08
2	Northside Generating Station	667	2A	1.7863E-07	1.8473E-07	1.8920E-07
3	Manitowoc	4125	B-09	2.6758E-07	3.2236E-07	4.3914E-07
4	Northside Generating Station	667	1A	1.7653E-07	1.7056E-07	8.3361E-07
5	Yellowstone Energy LP	50931	Config1	3.0339E-07	1.7979E-06	8.6772E-08

Table B-97. ***Subcategory 5 Existing Sources***
Lead (Pb) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Yellowstone Energy LP	50931	Config1	3.4908E-07	1.4684E-07	2.5011E-07
2	AES Deepwater	10670	Deepwater	5.2384E-07	2.3669E-07	3.3806E-07
3	Bay Shore	2878	Unit 1	7.1700E-07	3.8062E-07	3.6660E-07
4	Manitowoc	4125	B-09	6.3425E-07	6.1170E-07	7.3154E-07
5	Northside Generating Station	667	2A	1.0700E-05	4.7659E-06	1.6593E-05

Table B-98. ***Subcategory 5 Existing Sources***
Manganese (Mn) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	1A	2.3445E-07	2.3026E-07	7.5906E-08
2	Northside Generating Station	667	2A	1.8041E-07	2.3460E-07	2.1380E-07
3	Yellowstone Energy LP	50931	Config1	1.8977E-06	1.0524E-06	1.4129E-06
4	AES Deepwater	10670	Deepwater	2.1150E-06	1.2011E-06	1.3872E-06
5	Manitowoc	4125	B-09	2.1099E-06	1.9642E-06	1.1426E-06

Table B-99. ***Subcategory 5 Existing Sources***
Nickel (Ni) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	1A	3.1955E-07	1.9615E-07	1.5534E-07
2	AES Deepwater	10670	Deepwater	3.0524E-06	2.8951E-06	1.7291E-06
3	Manitowoc	4125	B-09	3.2545E-06	2.6119E-06	2.9388E-06
4	Northside Generating Station	667	2A	5.1516E-06	1.3670E-07	4.4727E-06
5	Yellowstone Energy LP	50931	Config1	8.0475E-06	8.4339E-06	1.0341E-05

Table B-100. ***Subcategory 5 Existing Sources***
Selenium (Se) Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	2A	7.6810E-08	7.9432E-08	8.1357E-08
2	Northside Generating Station	667	1A	5.0364E-07	2.1832E-07	1.8006E-07
3	Yellowstone Energy LP	50931	Config1	6.4427E-07	5.1771E-07	5.6147E-07
4	AES Deepwater	10670	Deepwater	1.2131E-06	6.5726E-07	1.1191E-06
5	Bay Shore	2878	Unit 1	1.0147E-06	1.1313E-06	9.7348E-07

Table B-101. ***Subcategory 5 Existing Sources***
Antimony (Sb) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	1.5858E-07	3.3754E-07	1.3410E-07
2	Yellowstone Energy LP	50931	Config1	4.4497E-07	3.5756E-07	3.8779E-07
3	Northside Generating Station	667	2A	3.1853E-07	1.6470E-07	8.4347E-07
4	Bay Shore	2878	Unit 1	7.2976E-07	6.1099E-07	5.2139E-07
5	Manitowoc	4125	B-09	3.2951E-06	5.0110E-06	1.0330E-05

Table B-102. ***Subcategory 5 Existing Sources***
Arsenic (As) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	6.3433E-07	3.6005E-07	4.4700E-07
2	Northside Generating Station	667	2A	4.7548E-07	4.9171E-07	5.0363E-07
3	Bay Shore	2878	Unit 1	2.4558E-06	2.5346E-06	2.5377E-06
4	Northside Generating Station	667	1A	3.6079E-06	1.6424E-06	1.0703E-06
5	Yellowstone Energy LP	50931	Config1	2.2978E-06	1.8464E-06	2.0024E-06

Table B-103. ***Subcategory 5 Existing Sources***
Beryllium (Be) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	6.7964E-08	6.7509E-08	6.7050E-08
2	Bay Shore	2878	Unit 1	9.8046E-08	1.2689E-07	1.0030E-07
3	Yellowstone Energy LP	50931	Config1	2.2249E-07	1.7878E-07	1.9389E-07
4	Northside Generating Station	667	1A	4.9550E-07	4.8664E-07	5.0365E-07
5	Northside Generating Station	667	2A	5.3982E-07	5.2705E-07	5.0965E-07

Table B-104. ***Subcategory 5 Existing Sources***
Cadmium (Cd) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	1.8124E-07	2.2503E-07	3.1290E-07
2	Yellowstone Energy LP	50931	Config1	1.9822E-06	1.0564E-06	5.9931E-07
3	Northside Generating Station	667	1A	1.6476E-06	1.6302E-06	1.6731E-06
4	Manitowoc	4125	B-09	2.8549E-06	2.6883E-06	3.4350E-06
5	Northside Generating Station	667	2A	3.1057E-06	1.7508E-06	4.5885E-06

Table B-105. S*ubcategory 5 Existing Sources*
Chromium (Cr) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	2A	9.8745E-07	2.1741E-06	5.7356E-07
2	Northside Generating Station	667	1A	1.9665E-06	1.5055E-06	9.7583E-07
3	Yellowstone Energy LP	50931	Config1	5.8656E-06	6.8262E-06	5.4643E-06
4	AES Deepwater	10670	Deepwater	1.5518E-05	1.7980E-05	7.4873E-06
5	Manitowoc	4125	B-09	1.4128E-05	1.5208E-05	1.2085E-05

Table B-106. ***Subcategory 5 Existing Sources***
Cobalt (Co) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	7.4760E-07	4.5006E-07	7.1520E-07
2	Northside Generating Station	667	2A	1.5927E-06	1.6470E-06	1.6869E-06
3	Northside Generating Station	667	1A	1.5739E-06	1.5208E-06	7.4326E-06
4	Manitowoc	4125	B-09	5.2528E-06	6.3282E-06	8.6206E-06
5	Bay Shore	2878	Unit 1	7.7957E-06	1.1811E-05	7.4899E-06

Table B-107. ***Subcategory 5 Existing Sources***
Lead (Pb) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Bay Shore	2878	Unit 1	5.7835E-06	3.0702E-06	2.9570E-06
2	AES Deepwater	10670	Deepwater	6.0261E-06	2.7229E-06	3.8889E-06
3	Yellowstone Energy LP	50931	Config1	6.0274E-06	2.5355E-06	4.3185E-06
4	Northside Generating Station	667	2A	1.1144E-05	7.5388E-06	1.4750E-05
5	Manitowoc	4125	B-09	1.2451E-05	1.2008E-05	1.4361E-05

Table B-108. ***Subcategory 5 Existing Sources***
Manganese (Mn) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	1A	2.0904E-06	2.0530E-06	6.7679E-07
2	Northside Generating Station	667	2A	1.6086E-06	2.0917E-06	1.9062E-06
3	AES Deepwater	10670	Deepwater	2.4331E-05	1.3817E-05	1.5958E-05
4	Yellowstone Energy LP	50931	Config1	3.2766E-05	1.8171E-05	2.4395E-05
5	Manitowoc	4125	B-09	4.1419E-05	3.8559E-05	2.2431E-05

Table B-109. ***Subcategory 5 Existing Sources***
Nickel (Ni) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	1A	2.8492E-06	1.7489E-06	1.3851E-06
2	Northside Generating Station	667	2A	4.5932E-05	1.2188E-06	3.9879E-05
3	AES Deepwater	10670	Deepwater	3.5115E-05	3.3304E-05	1.9892E-05
4	Manitowoc	4125	B-09	6.3889E-05	5.1274E-05	5.7691E-05
5	Hanford	10373	1A	9.0656E-05	9.9000E-05	1.5248E-05

Table B-110. ***Subcategory 5 Existing Sources***
Selenium (Se) Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	Northside Generating Station	667	2A	6.8485E-07	7.0823E-07	7.2539E-07
2	Northside Generating Station	667	1A	4.4905E-06	1.9466E-06	1.6054E-06
3	Bay Shore	2878	Unit 1	8.1850E-06	9.1251E-06	7.8523E-06
4	Yellowstone Energy LP	50931	Config1	1.1124E-05	8.9391E-06	9.6947E-06
5	AES Deepwater	10670	Deepwater	1.3955E-05	7.5610E-06	1.2874E-05

Table B-111. ***Subcategory 5 Existing Sources***
HCl Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	1.7877E-05	1.9592E-05	1.8752E-05
2	Northside Generating Station	667	2A	9.1812E-05	9.7047E-05	8.3972E-05
3	Northside Generating Station	667	1A	1.3650E-04	8.6419E-04	1.3085E-04
4	Hanford	10373	1A	6.0000E-04	6.0000E-04	5.0000E-04
5	Manitowoc	4125	B-09	6.1834E-03	4.4700E-03	1.6297E-03

Table B-112. ***Subcategory 5 Existing Sources***
HCl Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data		
1	AES Deepwater	10670	Deepwater	2.0565E-04	2.2538E-04	2.1572E-04
2	Northside Generating Station	667	2A	8.1861E-04	8.6528E-04	7.4870E-04
3	Northside Generating Station	667	1A	1.2171E-03	7.7052E-03	1.1666E-03
4	Hanford	10373	1A	6.4302E-03	6.4302E-03	5.3585E-03
5	Bay Shore	2878	Unit 1	5.3076E-02	7.0176E-02	3.8557E-02

Table B-113. ***Subcategory 5 Existing Sources***
SO_2 Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data					
1	Hanford	10373	1A	2.2647E-02	2.1230E-02	2.4990E-02			
2	Northside Generating Station	667	1A	1.4171E-01	1.5112E-01	1.6148E-01			
3	Northside Generating Station	667	2A	1.6347E-01	1.7796E-01	1.7246E-01			
4	Manitowoc	4125	B-09	2.8848E-01	2.7586E-01	2.6949E-01	2.7009E-01	2.5652E-01	2.7413E-01
5	Bay Shore	2878	Unit 1	3.7572E-01	4.2774E-01	3.2820E-01			

Table B-114. ***Subcategory 5 Existing Sources***
SO_2 Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data					
1	Hanford	10373	1A	2.4270E-01	2.2752E-01	2.6782E-01			
2	Northside Generating Station	667	1A	1.2973E+00	1.3835E+00	1.4784E+00			
3	Northside Generating Station	667	2A	1.4816E+00	1.6129E+00	1.5630E+00			
4	Manitowoc	4125	B-09	3.3415E+00	3.1954E+00	3.1216E+00	3.1285E+00	2.9714E+00	3.1753E+00
5	Bay Shore	2878	Unit 1	4.2626E+00	4.8528E+00	3.7235E+00			

Table B-115. ***Subcategory 5 Existing Sources***
Mercury Floor Emission Run-Level Data (lb/MMBtu)

Count	Facility Name	ORIS Code	Unit ID	Floor Data																	
1	Yellowstone Energy LP	50931	Config1	4.08E-08	3.29E-08	4.10E-08															
2	AES Deepwater	10670	Deepwater	8.78E-08	9.15E-08	1.52E-08															
3	Northside Generating Station	667	2A	7.67E-08	7.61E-08	8.66E-08															
4	Northside Generating Station	667	1A	1.30E-07	1.74E-07	1.98E-07	2.02E-07	1.46E-07	7.95E-08	1.08E-07	6.64E-08	4.89E-08	2.82E-08	1.86E-08	2.41E-08	2.59E-08	2.26E-08	1.11E-08	3.90E-08	1.06E-07	1.48E-07
5	Bay Shore	2878	Unit 1	1.77E-07	9.18E-08	9.89E-08															

Table B-116. ***Subcategory 5 Existing Sources***
Mercury Floor Emission Run-Level Data (lb/MW)

Count	Facility Name	ORIS Code	Unit ID	Floor Data																	
1	AES Deepwater	10670	Deepwater	7.05E-07	5.69E-07	7.08E-07															
2	Yellowstone Energy LP	50931	Config1	6.84E-07	6.79E-07	7.72E-07															
3	Northside Generating Station	667	2A	1.01E-06	1.05E-06	1.75E-07															
4	Northside Generating Station	667	1A	1.16E-06	1.55E-06	1.77E-06	1.80E-06	1.30E-06	7.09E-07	9.63E-07	5.92E-07	4.36E-07	2.51E-07	1.66E-07	2.15E-07	2.31E-07	2.02E-07	9.90E-08	3.48E-07	9.45E-07	1.32E-06
5	Hanford	10373	1A	1.43E-06	7.40E-07	7.98E-07															

Attachment C: Upper Prediction Limit
Example Calculations for Existing Sources

Example C-1. Mercury Emissions from Coal-Fired Units
(Data from Page B-106).....C-2

Example C-2. PM Emissions from Coal-Fired Units
(Data from Page B-6).....C-3

Example C-3. Arsenic Emissions from Pet Coke-Fired Units
(Data from Table B-21) C-4

Example C-4. Lead Emissions from IGCC Units
(Data from Table B-114) C-5

Example C-5. Lead Emissions from IGCC Units
(Data from Table B-114) C-6

Example C-6. Lead Emissions from IGCC Units
(Log Normal Analyses; tab 1).....C-8

Example C-7. Lead Emissions from IGCC Units
(Log Normal Analyses; tab 2).....C-9

Example C-1. Mercury Emissions from Coal-Fired Units (Data from Table B-106)

Runs	Emissions (lb/MMBtu) [NOT ALL DATA SHOWN]						
1	1.17E-10	3.71E-10	3.74E-10	7.50E-10	7.53E-10	8.06E-10	8.67E-10
2	9.43E-08	7.42E-10	7.48E-10	1.07E-06	1.03E-06	1.06E-09	1.71E-09
3	3.51E-07					1.03E-06	4.64E-09
4	4.21E-07						9.03E-07
5							1.26E-06
ni = number test runs =	4	2	2	2	2	3	5
Total Number of sources = N				40			
n =Total # test runs = $\sum_{i=1}^{N} n_i$				66			
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$							
				65			
This step is for QC only:							
means $\overline{x}_i = \frac{1}{n_i}\sum_{k=1}^{n_i} x_{ik}$							
	1.17E-10	3.71E-10	3.74E-10	7.50E-10	7.53E-10	8.06E-10	8.67E-10
$\overline{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$				7.01E-09			
Mean =							
Pooled Variance = $s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \overline{X}\right)^2$				1.18E-13			
m= number future runs =				1			
Term1 $\frac{1}{n} + \frac{1}{m}$				1.03			
Term2 $s^2\left(\frac{1}{n} + \frac{1}{m}\right)$				1.21E-13			
Squared root Term2 $\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$				3.49E-07			
NOTE: the pvalue for the t-statistic is calculated as: 2*alpha, where 1-alpha is desired confidence, so if 99% confidence is desired then alpha=0.01 and 2*alpha=2*(0.01)							
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =			2.43			
UPL POOLED VARIANCE = $\overline{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$				8.52E-07			

Example C-2. PM Emissions from Coal-Fired Units (Data from Table B-6)

Runs	Emissions (lb/MMBtu) [NOT ALL DATA SHOWN]						
1	8.60E-06	2.82E-03	3.08E-03	3.30E-03	3.42E-03	3.73E-03	3.82E-03
ni = number test runs =	1	1	1	1	1	1	1
Total Number of sources = $\sum_{i=1}^{N} n_i$							
n =Total # test runs =				131			
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$							
				130			
This step is for QC only:							
means $\overline{x}_i = \frac{1}{n_i}\sum_{k=1}^{n_i} x_{ik}$							
	8.60E-06	2.82E-03	3.08E-03	3.30E-03	3.42E-03	3.73E-03	3.83E-03
$\overline{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$							
				1.15E-02			
Mean =							
$s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \overline{X}\right)^2$							
Pooled Variance =				3.89E-05			
m= number future runs =				1			
$\frac{1}{n} + \frac{1}{m}$							
Term1				1.0076			
$s^2\left(\frac{1}{n} + \frac{1}{m}\right)$							
Term2				3.92E-05			
$\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$							
Squared root Term2				0.00626			
NOTE: the pvalue for the t-statistic is calculated as: 2*alpha, where 1-alpha is desired confidence, so if 99% confidence is desired then alpha=0.01 and 2*alpha=2*(0.01)							
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =			2.36			
UPL POOLED VARIANCE = $\overline{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$				2.62E-02			

Example C-3. Arsenic Emissions from Pet Coke-Fired Units (Data from Table B-21)

Runs	Emissions (lb/MMBtu)				
1	5.51E-08	5.89E-08	1.42E-07	4.05E-07	2.58E-07
2	3.13E-08	6.10E-08	1.47E-07	1.84E-07	2.07E-07
3	3.89E-08	6.24E-08	1.47E-07	1.20E-07	2.25E-07
ni = number test runs =	3	3	3	3	3
Total Number of sources = N				5	
n =Total # test runs = $\sum_{i=1}^{N} n_i$				15	
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$					
				14	
This step is for QC only:					
means $\overline{x}_i = \frac{1}{n_i}\sum_{k=1}^{n_i} x_{ik}$	4.18E-08	6.08E-08	1.45E-07	2.36E-07	2.30E-07
Mean = $\overline{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$				1.43E-07	
Pooled Variance = $s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \overline{X}\right)^2$				1.04E-14	
m= number future runs =				3	
Term1 $\frac{1}{n} + \frac{1}{m}$				4.17E-15	
Term2 $s^2\left(\frac{1}{n} + \frac{1}{m}\right)$				1.21E-13	
Squared root Term2 $\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$				6.46E-08	
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =			2.62	
UPL POOLED VARIANCE = $\overline{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$				3.12E-07	

Example C-4. Lead Emissions from IGCC Units (Data from Table B-114)

Runs	Emissions (lb/MMBtu)				
1	2.20E-07	2.47E-05			
2	1.33E-07	3.86E-06			
3	3.51E-07	1.70E-06			
ni = number test runs =	3	3			
Total Number of sources = N				2	
n =Total # test runs = $\sum_{i=1}^{N} n_i$				6	
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$					
				5	
This step is for QC only:					
means $\overline{x}_i = \frac{1}{n_i}\sum_{k=1}^{n_i} x_{ik}$					
	2.35E-07	1.01E-05			
Mean = $\overline{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$				5.16E-06	
Pooled Variance = $s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \overline{X}\right)^2$					
				9.38E-11	
m= number future runs =				3	
Term1 $\frac{1}{n} + \frac{1}{m}$				0.50	
Term2 $s^2\left(\frac{1}{n} + \frac{1}{m}\right)$					
				4.69E-11	
Squared root Term2 $\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$					
				6.85E-06	
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =			3.36	
UPL POOLED VARIANCE = $\overline{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$				2.82E-05	

Example C-5. Lead Emissions from IGCC Units (Data from Table B-114) (cont'd)

	Distribution of Normal Tests	Distribution of Log Tests		
Skewness =	2.34E+00	6.74E-01		
SE Skewness	1.00	1.00		
Skewness Test	non-normal	normal		
Kurtosis =	5.54E+00	-6.58E-01		
SE Kurtosis	2.00	2.00		
Kurtosis Test	non-normal	normal		
Number of test runs =	6	6	**REsult:**	**normal**

New UPL based on log normal distribution calculation 0.000132587

Example C-6. Lead Emissions from IGCC Units (Log Normal Analyses; tab 1)

	1010	7242
	Wabash River	Polk
Data	PG7221FA	IGCC1
Sample #1	2.2000E-07	2.4722E-05
Sample #2	1.3300E-07	3.8550E-06
Sample #3	3.5100E-07	1.7036E-06
Sample #4		
Sample #5		
Sample #6		
Sample #7		
Sample #8		
Sample #9		
Sample #10		
Sample #11		

1- Take log of data

Sample #		
1	-15.32963829	-10.60783013
2	-15.83291671	-12.46613704
3	-14.86247961	-13.28275523
4		
5		
6		
7		
8		
9		
10		
11		

2. Calculate sample size, n= 6

3- Calculate $\hat{\mu} = \frac{\sum_{i=1}^{n} x_i}{n}$ -13.73029284

4- Calculate $\hat{\sigma}^2 = \frac{\sum_{i=1}^{n} (x_i - \bar{x})^2}{n-1}$ 3.961786612

5- m 3

6- Calculate $\beta_{2z} = \frac{e^{4\hat{\sigma}^2} + 2e^{3\hat{\sigma}^2} + 3e^{2\hat{\sigma}^2} - 3}{m\left(e^{\hat{\sigma}^2} - 1\right)^2} + 3\left(1 - \frac{1}{m}\right)$

a- Numerator first term $e^{4\hat{\sigma}^2} + 2e^{3\hat{\sigma}^2} + 3e^{2\hat{\sigma}^2} - 3$ 7925087

b- denominator first term $m\left(e^{\hat{\sigma}^2} - 1\right)^2$ 7972.557

β_{2z} 996.0457843

6- Calculate $\sqrt{\beta_{1z}} = \frac{\sqrt{e^{\hat{\sigma}^2} - 1}\left(e^{\hat{\sigma}^2} + 2\right)}{\sqrt{m}}$ 226.1321

7- Go to tab distribution for 99 percentile

8- substitue the values of β_{2z} $\sqrt{\beta_{1z}}$ in columns D and F respectively

9- identify the row in column AE that has the smallest value that is larger than 0.99
in this example correspond to row 93, value is 0.9908

10- Go to column B and copy the z value that correspond to the 99 percentile, in this example is 3.585

16- calculate the UPL using the formula

$$UPL = e^{\hat{\mu} + \frac{\hat{\sigma}^2}{2}} + \frac{z_{.99}}{m}\sqrt{me^{2\hat{\mu}+\hat{\sigma}^2}\left(e^{\hat{\sigma}^2} - 1\right) + m^2 e^{2\hat{\mu}+\hat{\sigma}^2}\left(\frac{\hat{\sigma}^2}{n} + \frac{\hat{\sigma}^4}{2(n-1)}\right)}$$

a- Calculate $e^{\hat{\mu} + \frac{\hat{\sigma}^2}{2}}$ 7.89406E-06

b- Calculate $e^{2\hat{\mu}+\hat{\sigma}^2}$ 6.23162E-11

c- Calculate $\left(e^{\hat{\sigma}^2} - 1\right)$ 51.55113062

d-calculate $\left(\frac{\hat{\sigma}^2}{n} + \frac{\hat{\sigma}^4}{2(n-1)}\right)$ 2.229873085

e- Calculate $\sqrt{me^{2\hat{\mu}+\hat{\sigma}^2}\left(e^{\hat{\sigma}^2} - 1\right) + m^2 e^{2\hat{\mu}+\hat{\sigma}^2}\left(\frac{\hat{\sigma}^2}{n} + \frac{\hat{\sigma}^4}{2(n-1)}\right)}$ 0.00010435

f- Calculate UPL 1.3259E-04

Example C-7. Lead Emissions from IGCC Units (Log Normal Analyses; tab 2)

Δz	z	β_{1z}	$\sqrt{\beta_{1z}}$	$\left(1-\frac{\sqrt{\beta_{1z}}}{6}(3z-z^3)+\frac{(\beta_{2z}-3)(3-6z^2+z^4)}{24}\right)$	Normal distribution $\phi(z)$	distribution of Z $f_Z(z)=\left(1-\frac{\sqrt{\beta_{1z}}}{6}(3z-z^3)+\frac{(\beta_{2z}-3)(3-6z^2+z^4)}{24}\right)\phi(z)$	Absolute values	$\left[\frac{\Delta x}{2}\left(f(a)+2\sum_{i=1}^{M}f(x_i)+f(b)\right)\right]$	Cumulative	normalization
0.101		996.0458	226.1321							
	-5	=f(a)		15633.41	1.48672E-06	0.023242491	0.023242491	0.001173746	0.001173746	9.19992E-06
1	-4.899			14122.89	2.45094E-06	0.03461436	0.03461436	0.00349605	0.004669796	3.66023E-05
2	-4.798			12717.58	3.9995E-06	0.05086401	0.05086401	0.005137265	0.009807061	7.68686E-05
3	-4.697			11412.75	6.46025E-06	0.073729189	0.073729189	0.007446648	0.017253709	0.000135236
4	-4.596			10203.77	1.03291E-05	0.105395651	0.105395651	0.010644961	0.02789867	0.000218672
5	-4.495			9086.122	1.63472E-05	0.148533086	0.148533086	0.015001842	0.042900512	0.000336258
6	-4.394			8055.387	2.56093E-05	0.206292506	0.206292506	0.020835543	0.063736055	0.000499569
7	-4.293			7107.251	3.97118E-05	0.282241505	0.282241505	0.028506392	0.092242447	0.000723004
8	-4.192			6237.504	6.09553E-05	0.380208627	0.380208627	0.038401071	0.130643518	0.001023995
9	-4.091			5442.037	9.26132E-05	0.504004405	0.504004405	0.050904445	0.181547963	0.001422988
10	-3.99			4716.847	0.000139285	0.656985903	0.656985903	0.066355576	0.247903539	0.001943089
11	-3.889			4058.032	0.000207351	0.841435704	0.841435704	0.084985006	0.332888545	0.002609208
12	-3.788			3461.794	0.000305546	1.057737111	1.057737111	0.106831448	0.439719994	0.003446562
13	-3.687			2924.44	0.000445674	1.303346781	1.303346781	0.131638025	0.571358018	0.004478352
14	-3.586			2442.379	0.000643469	1.571595309	1.571595309	0.158731126	0.730089145	0.0057225
15	-3.485			2012.122	0.000919619	1.850385629	1.850385629	0.186888948	0.916978093	0.007187351
16	-3.384			1630.285	0.001300942	2.120906949	2.120906949	0.214211602	1.131188695	0.008866159
17	-3.283			1293.588	0.001821704	2.356534704	2.356534704	0.238010005	1.3691997	0.010731901
18	-3.182			998.8529	0.002525035	2.522138206	2.522138206	0.254735959	1.623935659	0.012728543
19	-3.081			743.0051	0.003464389	2.574058704	2.574058704	0.259979929	1.883915588	0.014766287
20	-2.98			523.0738	0.004704958	2.461040148	2.461040148	0.248565055	2.132480643	0.016714561
21	-2.879			336.1914	0.006324913	2.12638139	2.12638139	0.21476452	2.347245163	0.018397903
22	-2.778			179.5936	0.008416337	1.511520334	1.511520334	0.152663554	2.499908717	0.019594493
23	-2.677			50.61942	0.011085658	0.561149637	0.561149637	0.056676113	2.55658483	0.020038725
24	-2.576			-53.2887	0.014453386	-0.77020267	0.77020267	0.07779047	2.6343753	0.020648453
25	-2.475			-134.585	0.018652949	-2.510409987	2.510409987	0.253511409	2.887926709	0.02263581
26	-2.374			-195.621	0.02382814	-4.661333053	4.661333053	0.470794638	3.358721347	0.026329938
27	-2.273			-238.643	0.030130931	-7.190542636	7.190542636	0.726244806	4.084966153	0.032018305
28	-2.172			-265.797	0.03771375	-10.02419278	10.02419278	1.01244347	5.097409624	0.039953921
29	-2.071			-279.122	0.046725789	-13.0422112	13.0422112	1.317263331	6.414672955	0.050278741
30	-1.97			-280.558	0.057303789	-16.07700886	16.07700886	1.623777895	8.03845085	0.063006047
31	-1.869			-271.937	0.069563239	-18.91679028	18.91679028	1.910595818	9.949046668	0.077981457
32	-1.768			-254.99	0.083588399	-21.31424651	21.31424651	2.152738897	12.10178557	0.094854803
33	-1.667			-231.347	0.099421884	-23.00093233	23.00093233	2.322904165	14.42487973	0.113063409
34	-1.566			-202.53	0.117054396	-23.70699427	23.70699427	2.394406421	16.81928615	0.131830966
35	-1.465			-169.96	0.136415346	-23.18518462	23.18518462	2.341703647	19.1609898	0.150185434
36	-1.364			-134.956	0.157365126	-21.23735225	21.23735225	2.144972577	21.30596238	0.166997908
37	-1.263			-98.731	0.179689839	-17.74094905	17.74094905	1.791835854	23.09779823	0.181042467
38	-1.162			-62.3963	0.203099244	-12.67264149	12.67264149	1.279936779	24.37773502	0.191074718
39	-1.061			-26.9595	0.227228529	-6.12597008	6.12597008	0.618722978	24.996458	0.19592432
40	-0.96			6.675183	0.251644341	1.679772125	1.679772125	0.169656985	25.16611498	0.197254106
41	-0.859			37.70689	0.275855243	10.40164286	10.40164286	1.050565929	26.21668091	0.205488529
42	-0.758			65.43805	0.299326439	19.58733717	19.58733717	1.978321054	28.19500196	0.220994774
43	-0.657			89.27443	0.321498297	28.70157843	28.70157843	2.898859421	31.09386139	0.243716276
44	-0.556			108.7252	0.341807853	37.16311634	37.16311634	3.75347475	34.84733614	0.273136324
45	-0.455			123.4027	0.359712192	44.38945614	44.38945614	4.48333507	39.33067121	0.308277077
46	-0.354			133.0228	0.37471238	49.84529793	49.84529793	5.034375091	44.3650463	0.347736929
47	-0.253			137.4047	0.386376486	53.08992732	53.08992732	5.362082659	49.72712896	0.389765379
48	-0.152			136.4707	0.393360216	53.81859974	53.81859974	5.435678574	55.16280753	0.432370681
49	-0.051			130.2466	0.398423793	51.89336202	51.89336202	5.241229564	60.4040371	0.473451875
50	0.05			118.8617	0.398443914	47.35973552	47.35973552	4.783332287	65.18737038	0.510944404
51	0.151			102.5484	0.394419966	40.44714096	40.44714096	4.085161237	69.27253162	0.542963874
52	0.252			81.64248	0.386474058	31.55269989	31.55269989	3.186822689	72.45935431	0.567942455
53	0.353			56.58308	0.374844865	21.20987812	21.20987812	2.14219769	74.601552	0.584733179
54	0.454			27.91271	0.359875719	10.04510611	10.04510611	1.014555718	75.61610772	0.592685352
55	0.555			-3.72283	0.34169778	-1.273197994	1.273197994	0.128592097	75.74470071	0.593693274
56	0.656			-37.5744	0.32170943	-12.08802682	12.08802682	1.220890709	76.96559142	0.603262717
57	0.757			-72.7894	0.299553264	-21.80430555	21.80430555	2.202234861	79.16782628	0.620524018
58	0.858			-108.412	0.276092166	-29.93174233	29.93174233	3.023105975	82.19093226	0.644219374
59	0.959			-143.383	0.25188591	-36.11625352	36.11625352	3.647741606	85.83867386	0.672810677
60	1.06			-176.541	0.227469632	-40.15763337	40.15763337	4.05592097	89.89459483	0.704601323
61	1.161			-206.618	0.203335282	-42.0127411	42.0127411	4.243868851	94.13788168	0.737826559
62	1.262			-232.246	0.17991684	-41.78505245	41.78505245	4.220290298	98.35817198	0.770939546
63	1.363			-251.953	0.157579839	-39.70277263	39.70277263	4.009980036	102.368152	0.802370103
64	1.464			-264.163	0.136615273	-36.08868746	36.08868746	3.644957433	106.0131095	0.830939583
65	1.565			-267.196	0.117237788	-31.32545379	31.32545379	3.163870832	109.1769803	0.855738267
66	1.666			-259.27	0.099587708	-25.82008243	25.82008243	2.607828326	111.7848086	0.876178642
67	1.767			-238.499	0.083736272	-19.97099415	19.97099415	2.017070409	113.8018379	0.891988608
68	1.868			-202.894	0.069693339	-14.14032816	14.14032816	1.428173144	115.2300522	0.903182748
69	1.969			-150.362	0.05741676	-8.633280547	8.633280547	0.871961335	116.1020135	0.910017254
70	2.07			-78.7073	0.046822635	-3.685282316	3.685282316	0.372213514	116.474227	0.912934694
71	2.171			14.36887	0.037795734	0.543081947	0.543081947	0.054851277	116.5290783	0.913364623
72	2.272			131.2693	0.030199481	3.964265143	3.964265143	0.400390779	116.9294691	0.916502919
73	2.373			274.4999	0.023885038	6.556441349	6.556441349	0.662200576	117.5916696	0.921693303
74	2.474			446.6699	0.018699163	8.352353924	8.352353924	0.843587746	118.4352574	0.928305414
75	2.575			650.4919	0.014490659	9.426056429	9.426056429	0.952031699	119.3872891	0.935767518
76	2.676			888.7817	0.011115369	9.879136539	9.879136539	0.99779279	120.3850819	0.943588301
77	2.777			1164.459	0.008439746	9.827734797	9.827734797	0.992601214	121.3776831	0.951368392
78	2.878			1480.545	0.006343145	9.391312363	9.391312363	0.948522549	122.3262056	0.95888299
79	2.979			1840.167	0.004718997	8.683742652	8.683742652	0.877058008	123.2032637	0.965677444
80	3.08			2246.554	0.003475077	7.806948545	7.806948545	0.788501803	123.9917655	0.971857787
81	3.181			2703.038	0.002533081	6.847013532	6.847013532	0.691548367	124.6833138	0.977278201
82	3.282			3213.055	0.001827693	5.872480232	5.872480232	0.593120503	125.2764343	0.981927129
83	3.383			3780.145	0.001305351	4.934417823	4.934417823	0.4983762	125.7748105	0.985833443
84	3.484			4407.95	0.000922829	4.067784666	4.067784666	0.410846251	126.1856568	0.98905369
85	3.585			5100.216	0.00064578	3.293619781	3.293619781	0.332655598	126.5183124	0.991663072
86	3.686			5860.793	0.00044732	2.621649219	2.621649219	0.264786571	126.7830989	0.993736491
87	3.787			6693.632	0.000306705	2.052972679	2.052972679	0.207350241	126.9904492	0.99536172
88	3.888			7602.79	0.000208159	1.582585632	1.582585632	0.159841149	127.1502903	0.996614568
89	3.989			8592.426	0.000139842	1.201579959	1.201579959	0.121359576	127.2716499	0.997567794
90	4.09			9666.802	9.29928E-05	0.898942974	0.898942974	0.09079324	127.3624432	0.998277439
91	4.191			10830.29	6.12113E-05	0.662935671	0.662935671	0.066956503	127.4293997	0.99880225
92	4.292			12087.34	3.98826E-05	0.482074683	0.482074683	0.048689543	127.4780892	0.999183883
93	4.393			13442.55	2.5722E-05	0.345769635	0.345769635	0.034922733	127.5130119	0.99945761
94	4.494			14900.58	1.64209E-05	0.244680793	0.244680793	0.02471276	127.5377247	0.999651311
95	4.595			16466.22	1.03767E-05	0.170864453	0.170864453	0.01725731	127.554982	0.999786575
96	4.696			18144.34	6.49066E-06	0.117768737	0.117768737	0.011894642	127.5668766	0.999879806
97	4.797			19939.94	4.01874E-06	0.080133352	0.080133352	0.008093469	127.5749701	0.999943243
98	4.898			21858.09	2.46298E-06	0.053835941	0.053835941	0.00543743	127.5804075	0.999985863
99	4.999			23904	1.49417E-06	0.035716669	0.035716669	0.001803692	127.5822112	1

Attachment D: Upper Prediction Limit
Example Calculations for New Sources

Example D-1. UPL Analyses -- Coal-fired units; Total PM.....D-2

Example D-2. UPL Analyses -- Coal-fired units; Total HAP Metals.....D-3

Example D-3. UPL Example Calculation-- HCl emissions from oil-fired units (Data from first row of data in Table B-123) D-4

Example D-1. UPL Analyses -- Coal-fired units; Total PM

Runs	Emissions (lb/MW)	
1	3.2866E-02	
2	2.8386E-02	
3	2.6135E-02	
ni = number test runs =	3	
N Total Number of sources =		1
$\sum_{i=1}^{N} n_i$ n =Total # test runs =		3
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$		2
$\bar{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$ Mean =		2.91E-02
$s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \bar{X}\right)^2$ Pooled Variance =		1.1739E-05
m= number future runs =		3
$\frac{1}{n} + \frac{1}{m}$ Term1		0.6667
$s^2\left(\frac{1}{n} + \frac{1}{m}\right)$ Term2		7.8261E-06
$\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$ Squared root Term2		0.0028
NOTE: the pvalue for the t-statistic is calculated as: 2*alpha, where 1-alpha is desired confidence, so if 99% confidence is desired then alpha=0.01 and 2*alpha=2*(0.01)		
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =	6.965
$\bar{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$ UPL POOLED VARIANCE =		0.049

Example D-2. UPL Analyses -- Coal-fired units; Total HAP Metals

Runs	Emissions (lb/MMBtu)	
1	1.5461E-05	
2	9.8684E-06	
3	8.1827E-06	
ni = number test runs =	3	
Total Number of sources = N		1
n =Total # test runs = $\sum_{i=1}^{N} n_i$		3
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$		
		2
This step is for QC only:		
means $\bar{x}_i = \frac{1}{n_i}\sum_{k=1}^{n_i} x_{ik}$	1.12E-05	
Mean = $\bar{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$		1.12E-05
Pooled Variance = $s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \bar{X}\right)^2$		1.4516E-11
m= number future runs =		3
Term1 $\frac{1}{n} + \frac{1}{m}$		0.6667
Term2 $s^2\left(\frac{1}{n} + \frac{1}{m}\right)$		9.6774E-12
Squared root Term2 $\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$		3.1109E-06
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =	6.9646
UPL POOLED VARIANCE = $\bar{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$		3.2837E-05

Example D-3. UPL Example Calculation;
HCl emissions from oil-fired units (Data from first row of data in Table B-123)

Runs	Emissions (lb/MW)	
1	1.5362E-04	BDL
2	1.5362E-04	BDL
3	1.4915E-04	BDL
ni = number test runs =	3	
N		
Total Number of sources = $\sum_{i=1}^{N} n_i$		1
n =Total # test runs =		3
$df = \left(\sum_{i=1}^{N} n_i\right) - 1$		2
This step is for QC only:		
means $\overline{x}_i = \frac{1}{n_i}\sum_{k=1}^{n_i} x_{ik}$	1.52E-04	
Mean = $\overline{X} = \frac{1}{n}\sum_{i=1}^{N}\sum_{j=1}^{n_i} x_{ij}$		1.52E-04
Pooled Variance = $s^2 = \frac{1}{n-1}\sum_{i=1}^{n}\left(x_i - \overline{X}\right)^2$		6.67E-12
m= number future runs =		3
Term1 $\frac{1}{n} + \frac{1}{m}$		0.6667
Term2 $s^2\left(\frac{1}{n} + \frac{1}{m}\right)$		4.45E-12
Squared root Term2 $\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$		2.11E-06
NOTE: the pvalue for the t-statistic is calculated as: 2*alpha, where 1-alpha is desired confidence, so if 99% confidence is desired then alpha=0.01 and 2*alpha=2*(0.01)		
t-statistic t_{df}	= quantile t-distribution with df degrees of freedom at .99 confidence level =	6.96
UPL POOLED VARIANCE = $\overline{X} + t_{df,p}\sqrt{s^2\left(\frac{1}{n} + \frac{1}{m}\right)}$		0.000167
	RDL x 3	4.47E-04

Attachment E: Data Excluded from the Analysis for Existing Sources

The following data were excluded from the MACT floor calculations (see memorandum text for details of these data exclusions):

HAP	Plant name and unit ID	Emission value test average excluded
Hg	TIFD VIII-W, Inc. / Colver Power Project Unit AAB01	3.41×10^{-6} lb/MMBtu
Hg	TIFD VIII-W, Inc. / Colver Power Project Unit AAB01	3.74×10^{-5} lb/MWh
Hg	Cedar Bay Generating Company L.P. / Cedar Bay Station Unit CBA1	7.55×10^{-6} lb/MMBtu
Hg	Cedar Bay Generating Company L.P. / Cedar Bay Station Unit CBA1	2.87×10^{-5} lb/MWh
HCl	Newmont Nevada Energy Investment, LLC / TS Power Plant	1.05×10^{-3} lb/MMBtu
HCl	Public Service Enterprise Group (PSEG) Hudson Generating Station / HUDU2E2PT2OS1-Coal	6.18×10^{-2} lb/MMBtu
HCl	Public Service Enterprise Group (PSEG) Hudson Generating Station / HUDU2E2PT2OS1-Coal	6.19×10^{-1} lb/MWh