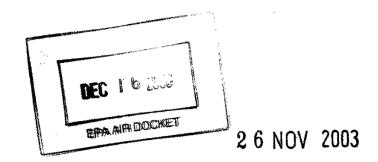
Docket A-92-55 Entry II-8-8



MEMORANDUM

From:

William H. Maxwell WHM

CG/ESD (C439-01)

To:

Utility MACT Project Files

Subject:

Analysis of variability in determining MACT floor for coal-fired electric utility

steam generating units

Although EPA is confident that the data available are representative of the industry, it is evident that the test report data exhibit a significant degree of variability, even within a given subcategory. The EPA decided it was necessary to develop a methodology to address the multiple sources of the observed variability in order to assure that an emission limitation value could be derived that would be achievable. The origins of variability and approaches available for addressing the apparent variability found in the test data are described below.

Variability is inherent whenever measurements are made or whenever mechanical processes operate. The variability in the emission test data may arise from one or more of the following areas: (1) the emission test method(s); (2) the analytical method(s); (3) the design of the unit and control device(s); (4) the operation of the unit and control device(s); and (5) the amount of the constituent being tested in the fuel.

Test and analytical method variability can be quantified by statistical analysis of the results of a series of tests. The results can be analyzed to establish confidence intervals within which the true value of a test result is presumed to lie. Confidence intervals can be estimated for multiple-run series of tests based on the differences found from one test run to the next, with only the upper confidence interval having meaning (signifying the chance of the standard being exceeded).

When testing is done at more than one unit, similar confidence intervals can be established to account for the variability from unit-to-unit. One can combine the test-to-test and unit-to-unit variability into a single factor that can be applied to reported test values to give an upper limit for the likely true value. One can also estimate the combined factor for any desired confidence level.

Testing for a short time may not reveal the range of emissions that would be found over extended time periods. Normal changes in operating conditions or in fuel characteristics may affect emission levels. For example, an increase in the mercury (Hg) content of the fuel being fired in a unit may tend to increase the Hg emission rate from the associated stack. Mercury emission rates may also change with unit loads. As load changes, so does gas flow rate through the air pollution control device (APCD) downstream from the unit. Changes in gas flow rate may affect APCD effectiveness.

Variability may be addressed in a number of ways, depending on the circumstances existing within the source category. For example, different test run results can be analyzed statistically to arrive at an upper limit that represents the highest likely value for each test planned for use in setting emission limits. The poorest-performing (worst-case) unit in the top 12 percent of each subcategory can be reviewed to determine the causes of poor performance with a factor then assigned that can be applied to each of the test runs. These offsets would give emission values that would not likely be exceeded over long time periods. Looking only at control devices used by sources in the top 12 percent, control device performance can also be examined to determine likely emission reductions for different devices operating on different units firing different fuels. The range in emission reductions could be used to set upper limits of expected control performance; then, these limits could be used, as above, to set emission limitations for each subcategory. Correlations between constituents of concern and other, perhaps more easily measured, constituents can be used to develop algorithms that incorporate variability.

The EPA found that there are two fundamentally different approaches to incorporating variability into the proposed rule: (1) including variability in the MACT floor calculation, or (2) including variability in the compliance method. Addressing variability in the MACT floor calculation requires that all of the origins of variability be assessed and quantified into factors that can be applied into the emission limitation calculations for each subcategory's floor. Each unit used for floor calculations is assumed to operate such that its measured emission rate is increased by the amount of variability found from statistical analysis, worst-case analysis, or control device performance analysis. Each unit in the top 12 percent of its subcategory would be adjusted to reflect the uncertainty associated with the various origins of variability, and the average emission rate for these units would be used as the floor emission limitation.

Addressing variability in the compliance method would involve allowing an averaging time for compliance that would accommodate variations in pollutant emissions over time. For example, averaging over a month or a year of data will provide opportunity for variations in the amount of a constituent in the fuel to be accommodated without exceeding the emission limitation. This method of addressing variability is not covered in this memorandum.

In trying to address the apparent sources of variability in the emissions test data, EPA tried to obtain data that reflected as many different plant configurations as would be found in the entire industry profile and conducted tests at units believed to be representative of those within

the source category. The tests and measurements, typically a three-run series of manual samples taken over one or two days of testing, are limited by the emission test method's accuracy and precision, by the short duration of the test, and by differences from one run to the next and one unit to the next. EPA has evaluated the total population of test results to determine a valid test method variability factor as well as a fuel variability factor. These factors were then applied in MACT floor emission limitation calculations, as appropriate.

In order to determine the MACT floor emission limits for existing units, EPA examined the population database of existing sources. Available Hg emissions test data were divided according to the following subcategories:

bituminous coal subbituminous coal lignite coal waste coal IGCC units

The EPA examined the existing emission test data to determine the individual numerical average of the test results from the best-performing 12 percent (or equivalent) of each subcategory for each regulated HAP (or surrogate). The EPA then applied the potential uncertainty and variability in the emission test reports and Hg in fuel variability (as appropriate) to derive the MACT floor limits. The discussion below describes the development of the emission limitation for each regulated pollutant for coal-fired units for the bituminous, subbituminous, and lignite subcategories (there being insufficient data available for the waste coal and IGGC subcategories to conduct full statistical analyses).

The emission limit for Hg emissions from coal-fired units was determined by analyzing the available Hg emissions data in each of the three subcategories. The data were obtained from the ICR and included data for Hg emissions and Hg-in-coal data for calendar year 1999. The MACT floor calculations were based on the average performance of the top 12 percent of units in the individual subcategories.

The variability of Hg emissions from coal-fired units is significantly influenced by the variability over time in the composition of coal burned as fuel (i.e., differences in Hg content, chlorine (Cl) content, and heat content of coal). In particular, the Cl content of coal can be used as a key indicator of the type of Hg compound in flue gas. The effectiveness of control devices at removing Hg depends to a large extent on the type of Hg compound in the flue gas. Thus, which Hg compounds are present in the flue gas impacts the amount of Hg that will be captured by control devices and how much Hg will be released in stack emissions. Importantly, Cl content has a significant impact on which Hg compounds are contained in the flue gas. When combined with other relevant data, such as coal Hg content, the Cl content of coal can be used to predict Hg emissions.

The EPA examined a number of approaches to incorporating variability in the MACT floor determination, from a statistical analysis of the test data combined with an algebraic analysis of the coal data to full statistical analyses of both the test and coal data. A multi-variable analysis provided by WEST Associates (attached) appeared to provide the most comprehensive approach and has been adopted, with modifications as noted below, by the EPA in determining the MACT floor.

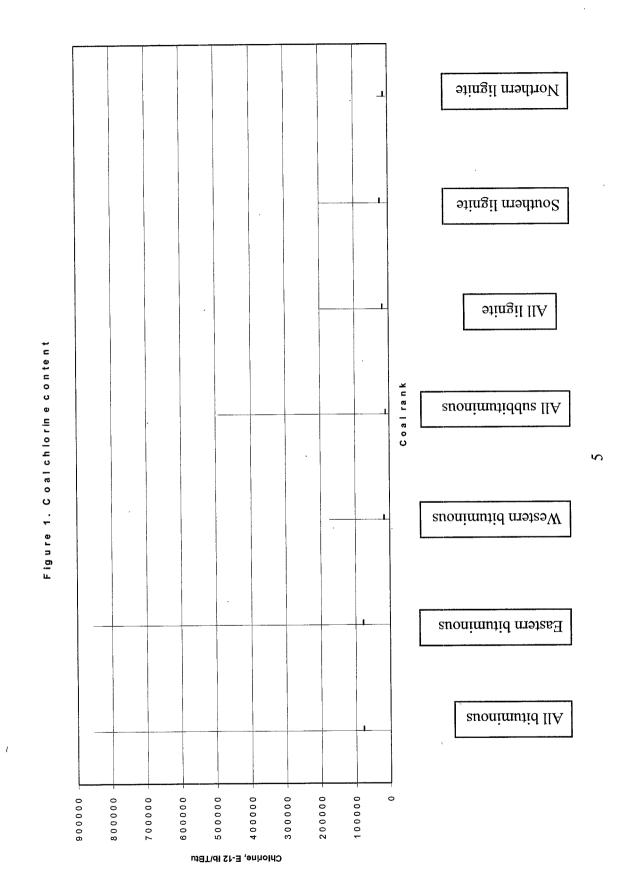
The data results from the multi-variable study performed lend support to the significance of coal Cl content to Hg controllability. The higher the Cl:Hg ratio, the more likely the formation of mercuric chloride (ionic or oxidized Hg) that is more readily captured by existing controls. This Cl:Hg ratio is independent of the coal rank as an indicator of Hg controllability. Figure 1 provides information on the range of Cl values for the various coal ranks, and subranks, used by the utility industry in the United States. As can be seen from the figure, the Cl contents overlap considerably and a bituminous coal is as likely to have low chlorine content as is a subbituminous or lignite coal.

In sum, the coal Cl content is one of the primary determinants of which Hg-containing compounds will be present, and in what amounts, in the flue gas of an individual utility unit. The differing physical and chemical properties of Hg-containing compounds in the flue gas result in significant differences in the feasibility and effectiveness of controls for removing the compounds from flue gas. Accordingly, when combined with other relevant data, such as coal Hg content, the Cl content of coal can be used as a key indicator of Hg emissions.

The units in each of the three subcategories were sorted in ascending order of stack-tested Hg emission factor (measured in units of lb/TBtu, as adjusted by a method that normalizes Hg emissions to coal heat content [F-factor adjustment]). Accordingly, the top performing units of each subcategory were selected for further analysis.

The stack tests in the ICR database are insufficient to estimate the effect of fuel variability over time on the emissions of the best performing facilities. The ICR database contains extensive data on variation in coal composition recorded over the course of a year. To link fuel composition data to Hg emissions data, correlation equations were developed to represent the relationship between Hg removal fraction and Cl concentration for each of the control configurations used by the best performing units. The steps used to develop these correlation equations are set forth below.

The control configuration of each of the best performing units identified was identified. The Hg removal fraction and test coal Cl concentrations were obtained from the ICR database for each of the units in the database that have one of the identified control configurations. Finally, a correlation equation was derived for each identified control configuration by fitting the following mathematical expression to the Hg removal fractions and corresponding Cl concentrations obtained from the ICR stack test database.



- a.

In the selection of the format of the correlation equation, care was taken that the mathematical expression accurately reflected the physical and chemical process by which Cl contributes to the controllability of stack Hg emissions. The correlation equation is based on the assumption that the rate of conversion of Hg to mercury chloride is proportional to the Cl concentration in the coal, irrespective of coal rank. With this expression, the maximum removal fraction is limited to 1, because the exponent term is always nonnegative, regardless of the Cl concentration. This corresponds to the real-world limitation that no more than 100 percent of the Hg in flue gas can be removed (i.e., there cannot be negative Hg emissions). As the coal Cl concentration drops to zero, the Hg removal fraction does not of necessity approach zero because some Hg removal may be achieved without reaction with Cl. The purpose of deriving a correlation equation for each control configuration used by the top performing units was to provide a numerical means of predicting the fraction of Hg removed for the best performing sources over the entire range of fuel variability experienced over the course of a year. Correlation equations were derived for each control configuration, but were only used to predict Hg removal if they were found to have acceptable explanatory power.

To determine whether the explanatory power of each correlation equation warranted its use on a larger range of ICR coal composition data, each correlation equation was validated against the ICR stack test data. For each of the test Cl concentrations in the ICR stack test database, the Hg removal fraction was calculated by use of the correlation equation with parameters selected to give the best fit to the data. A correlation coefficient was then calculated to evaluate the accuracy of the fit.

For each of the best performing units, unit-specific coal composition data for a one-year period were extracted from the ICR database to find the coal heat content, Hg content, and Cl content. For each set of coal composition data from the ICR database, the controlled Hg emissions were calculated by multiplying uncontrolled Hg emissions by (1 – Hg removal fraction). For each of the best-performing sources, this process was repeated for each set of measured coal composition values, yielding a range of Hg emission levels for that unit over time.

The test coal composition data from the ICR database (heat and Hg content) was used to calculate the uncontrolled Hg emission level. The Hg removal fraction was calculated in one of the following two ways:

- (1) Where the correlation equation was found to have sufficient explanatory power, it was used to estimate the Hg removal fraction based on coal Cl composition data from the ICR data base. This approach accounted for variations in the Hg, Cl, and heat content of fuel.
- (2) Where the correlation equation was a poor fit, the Hg removal fraction was based on the average Hg removal fraction observed in the ICR stack tests of that unit. This latter approach yielded a constant removal fraction based upon the source test, and had the effect of reducing the variability of predicted Hg emissions. Under this approach, the measured impact of fuel

variability was limited to the effect of variations in Hg and heat content, while variations in Cl concentration were not explicitly considered.

For each of the best performing units, the calculated Hg emissions, calculated in accordance with the procedures outlined above, were then sorted from smallest to largest to obtain a cumulative frequency distribution. The EPA chose to use the 97.5th percentile (as opposed to the 95the percentile used in the WEST analysis) value of this distribution (i.e., an emission rate that is expected to be exceeded only 2.5 percent of the time) to represent the operation of the unit under "worst conditions."

Because the ICR stack test facilities represent only a small portion of the true population of coal-fired utility units, it is necessary also to account for inter-unit variability between the top performers. The ICR database indicates that the population of coal-fired units exceeds 1,000. Yet, due to the size of the ICR database, the analysis of within-unit variability considered only the top units in each subcategory. (The EPA used the top four bituminous units, the top four subbituminous units, and the top five lignite units in its analysis. The EPA's interpretation of section 112 is that the statute is clear with regard to how many units should be used based on the number of units in the subcategory, regardless of the apparent inconsistencies as that number approaches 30. The WEST analysis used no fewer than five units per subcategory, regardless of the number of units in the subcategory.) Therefore, the actual number of the top 12 percent of coal-fired units in each subcategory is significantly larger than the number of units used in this analysis, particularly with respect to units burning bituminous and subbituminous coal. Under these circumstances, a focus on within-unit variability alone is not expected to capture the full range of emissions variability among the best performing sources. The EPA accounted for this variability by calculating a 97.5 percent upper confidence level (as opposed to the 95th percent upper confidence level used in the WEST analysis) for the mean by use of the t-statistic. This adjustment reflects the fact that the top performing sources in the data base do not represent the full population of the best performing 12 percent of coal-fired utility units.

Although fuel variability is a principal cause of emission variability, other factors also play a role in contributing to variability in Hg emissions. Analysis of fuel variability accounts for some, but not all of the variability in the stack testing of each unit that comprises the ICR database. Other drivers of variability in the test results, such as measurement error, are not included in the analysis. Intermittent maintenance events, which themselves can contribute to short-term increases in Hg emissions, also are not considered. In addition, the stack testing on which this assessment is based places artificial limitations on the variability of its results. Testing was performed with plants operating at full and constant load, and without on-going maintenance activities. Actual operation requires load-following in addition to intermittent maintenance activities. Insofar as the methodology discussed herein does not incorporate these effects, its results are likely to underestimate the reasonable worst-case emissions of the best performing facilities.

Conclusion

The MACT floor for existing units, based on the above analyses, is as follows:

Bituminous: 2.0 lb/TBtu Subbitumnous: 5.8 lb/TBtu Lignite: 9.2 lb/TBtu

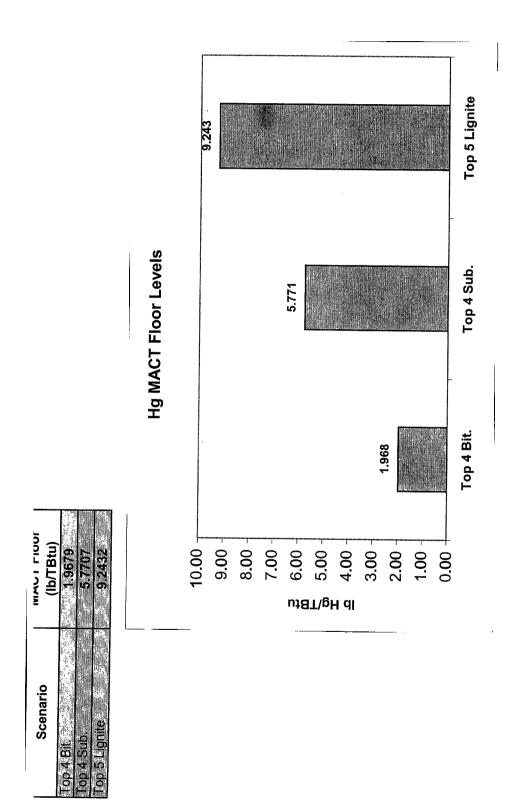
The MACT floor for new units is as follows:

Bituminous: 0.61 lb/TBtu
Subbituminous: 2.0 lb/TBtu
Lignite: 6.3 lb/TBtu

					-		
Top 4 Bituminous		Top 4 Subbituminous	Top 5 Lignite	Top Waste		Top IGCC	
Mecklenburg Cogeneration GEN 1 AES Hawaii, Inc. A Dwayne Collier Battle Cogen 2B Clay Boswell 2 Valmont 5 Craig C3 Stockton 1 Cholla 3	GEN 1 2B 5 1	EN 1 AES Hawaii, Inc. A 2B Clay Boswell 2 5 Craig C3 1 Cholla 3	R.M. Heskett Station Antelope Valley Station Leland Olds Station Stanton Station Stanton Station	Z Kline Township Cogen Facility Scrubgrass Generating 0	GEN1	B2 Kline Township Cogen Facility GEN1 Wabash River Generating Station 1+1A B1 Scrubgrass Generating GEN1 Polk Power 1 10 1	+ + 4

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	97.5th Percentile, lb/TBtu	7.798467	7.087007	9.532343	8.028945	6.505059
	ası	,	4.00420	•	•	_
tile Values	O2 Control Fraction Hg Used? (Y/N) Removal Used? (Y/N)	0.5964	0.8188	0.9513	0.8188	0.5591
s - 97.5th Percen	"Alpha"	0.000	0.0022	0.0000	0.0022	0.0000
op 5 Lignite Unit	Correlation Used? (Y/N)	z	>-	z	>-	Z
nalysis for T	Fraction Hg Removal	0.4036	0.3333	0.0487	0.0147	0.4409
MACT A	SO2 Control	FBC	SDA	NONE	SDA	NONE
	Particulate Control	ESP-CS	BAGHOUSE	ESP-CS	BAGHOUSE	ESP- CS
	Unit	B2	B	7	10	~
	Plant	R.M. Heskett Station	Antelope Valley Station	Leland Olds Station	Stanton Station	Stanton Station

7.750480 1.202356 **9.243163**

5.031680 1.429454 6.806297

Mean Standard Deviation UCL97.5 of the Mean

97.5th Percentile, lb/TBtu 2.134924 1.991214 2.635140 5.583025	3.086076 1.687356 5.770659
Measured Ib/TBtu 0.46060 0.66330 0.72480 1.20660	0.763825 0.316029 1.266627
"Beta" 0.4748 0.1743 0.6640 0.3580	
Percentile Values "Alpha" 0.0000 0.0000 0.0000 0.0000	
nous Units - 97.5th Correlation Used? (YN) N N N N	
MACT Analysis for Top 4 Subbituminous Units - 97.5th Percentile Values 2 Control Removal Correlation "Alpha" FBC 0.5252 N 0.0000 MP COAL 0.8257 N 0.0000 SDA 0.336 N 0.0000 NONE 0.642 N 0.0000	
MACT Anal SO2 Control FBC COMP COAL SDA NONE	
Particulate Control BAGHOUSE BAGHOUSE BAGHOUSE ESP- HS	
Unit A 2 (33 (33 (33 (33 (33 (33 (33 (33 (33 (c E

AES Hawaii, Inc. Clay Boswell Craig Cholla

Plant

	97.5th Percentile, lb/TBtu	1.805065	1.237554	0.694385	0.609453
	Measured lb/Tbtu	0.10620	0.10740	0.12680	0.13160
	"Beta"	0.8188	0.8188	0.1348	0.3186
Values	"Alpha"	0.0022	0.0022	0.000	0.0069
ith Percentile	Correlation Used? (Y/N)	>	>	z	> -
us Units - 97.5	Measured Fraction Hg Removal	0.9881	0.9366	0.8652	0.9182
MACT Analysis for Top 4 Bituminous Units - 97.5th Percentile Values	SO2 Control		SDA		
CT Analysis for	Particulate Control	BAGHOUSE	BAGHOUSE	BAGHOUSE	BAGHOUSE
W	Unit	GEN 1	2B	Ŋ	~
	Plant	Mecklenburg Cogeneration Facility	Dwayne Collier Battle Cogeneration Facility	Valmont	Stockton

1.086614 0.553919 **1.967900**

0.118000 0.013089 0.138825

MACT Analysis for Top Waste Coal Units - 97.5th Percentile

	97.5th Percentile lb Ho/TBf	0.118229 0.157153
	Measured Ib Hg/Tbtu	0.08160
	"Beta"	0.0025
	"Alpha"	0.0000
	n Correlation Used? (Y/N)	ZZ
Measured	Fraction Hg	0.9989
	SO2 Control	FBC
	Particulate Control	BAGHOUSE BAGHOUSE
	Unit	GEN1
	Plant	Kline Township Cogen Facility Scrubgrass Generating Company L. P. GEN1 BAGHOUSE

0.137691 0.027524 **0.384979**

0.087600 0.008485 0.163836

Percentile
97.5th
Jnits -
1000
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lysis f
T Ana
MACT

97.5th	Percentile lb/TBtu	7.3350 5.3920
Montrad	ib/Tbtu	5.3343 5.4713
	"Beta"	0.6747
	"Alpha" "Beta"	0 0
1011	Correlation Used? (Y/N)	zz
Measured	Fraction Hg	0.3253 0.3399
•	SO ₂ Control Fraction Hg	COAL GAS COAL GAS
	Particulate Control	COAL GAS COAL GAS
	Unit	1 + 1A
	Plant	Wabash River Generating Station 1+1A Polk Power

5.402800 6.363500 0.096874 1.373972 6.273161 **18.707950**

Mean

Standard Deviation UCL97.5 of the Mean

MA	CT Analy	sis for Top 4 B	ituminous Unit	ts - 97.5th I Measured		ues			
Plant	Unit	Particulate control	SO₂ Control	fraction Hg removal	Correlation used? (Y/N)	"Alpha"	"Beta"	Measured lb/TBtu	97.5th Percentile, Ib/TBtu
Mecklenburg Cogeneration Facility		BAGHOUSE	SDA	0.9881	Υ		0.8188	0.10620	1.805065
Dwayne Collier Battle Cogeneration Facilit		BAGHOUSE	SDA	0.9366	Y		0.8188	0.10740	1.237554
Valmont Stockton	5 1	BAGHOUSE BAGHOUSE	COMP COAL FBC/SNCR	0.8652 0.9182	N Y		0.1348 0.3186	0.12680 0.13160	0.694385 0.609453
Mean Standard Deviation UCL97.5 of the Mean								0.118000 0.013089 0.138825	1.086614 0.553919 1.967900
MAC	Γ Analysis	s for Top 4 Sul	obituminous Ur			alues			
Plant .	Unit	Particulate control	SO _z Control	Measured fraction Hg	Correlation used? (Y/N)	"Alpha"	"Beta"	Measured lb/TBtu	97.5th Percentile, lb/TBtu
AES Hawaii, Inc.	Α	BAGHOUSE	FBC	removal 0.5252	N	0	0.4748	0.46060	2.134924
Clay Boswell	2	BAGHOUSE	COMP COAL	0.8257	N	Ö	0.1743	0.66330	1.991214
Craig	C3	BAGHOUSE	SDA	0.336	N	0	0.6640	0.72480	2.635140
Cholla	3	ESP- HS	NONE	0.642	N	0	0.3580	1.20660	5.583025
Mean Standard Deviation UCL97.5 of the Mean								0.763825 0.316029 1.266627	3.086076 1.687356 5.770659
N	IACT Ana	lysis for Top 5	Lignite Units -	97.5th Per Measured		s			
Plant	1114	Particulate	CO Control	fraction	^ I - 4!	"Alpha"	um c.H	Measured	97.5th
Plant	Unit	control	SO ₂ Control	Hg removal	used? (Y/N)	"Аірпа"	"Beta"	lb/TBtu	Percentile, lb/TBtu
R.M. Heskett Station	B2	ESP- CS	FBC	0.4036	N	0	0.5964	3.97680	7.798467
Antelope Valley Station	B1	BAGHOUSE	SDA	0.3333	Υ	0.0022		4.00420	7.087007
Leland Olds Station	2	ESP- CS	NONE	0.0487	N	0	0.9513	4.02330	9.532343
Stanton Station Stanton Station	10 1	BAGHOUSE ESP- CS	SDA NONE	0.0147 0.4409	Y N	0.0022	0.8188	6.25170 6.90240	8.028945 6.305639
Mean						Ū	0.000		
Standard Deviation UCL97.5 of the Mean								5.031680 1.429454 6.806297	7.750480 1.202356 9.243163
	MACT A	nalysis for Top	Waste Coal U		n Percentile				
Plant	Unit	Particulate control	SO ₂ Control	Measured fraction Hg	Correlation used? (Y/N)	"Alpha"	"Beta"	Measured lb/TBtu	97.5th Percentile, Ib/TBtu
Kline Township Cogen Facility	GEN1	BAGHOUSE	FBC	removal 0.9975	N	0	0.0025	0.08160	0.118229
Scrubgrass Generating Company L. P.		BAGHOUSE	FBC	0.9989	N	0	0.0110	0.09360	0.157153
Mean Standard Deviation UCL97.5 of the Mean								0.087600 0.008485 0.163836	0.137691 0.027524 0.384979
	MACT	Analysis for	Top IGCC Units	- 97.5th Pe Measured	ercentile				
Plant	Unit	Particulate control	SO ₂ Control	fraction Hg	Correlation used? (Y/N)	"Alpha"	"Beta"	Measured lb/TBtu	97.5th Percentile, Ib/TBtu
Wabash River Generating Station Polk Power	1 + 1A 1	COAL GAS COAL GAS	COAL GAS COAL GAS	removal 0.3253 0.3399	N N	0	0.6747 0.6601	5.3343 5.4713	7.3350 5.3920

5.402800 6.363500

0.096874 1.373972 6.273161 18.707950

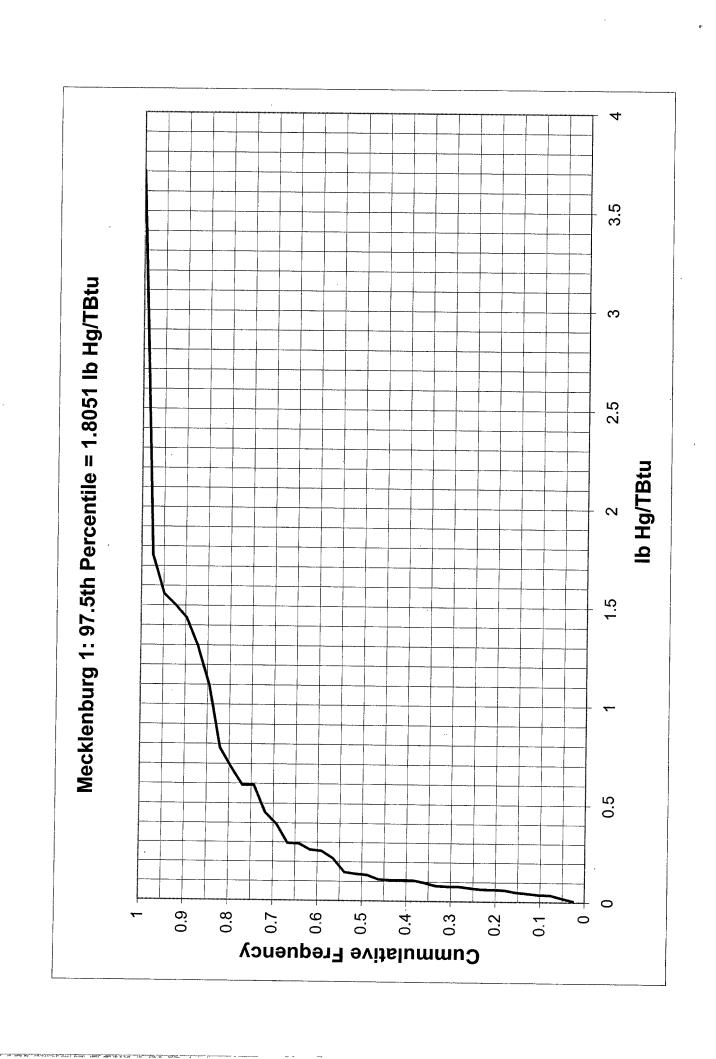
Mecklenburg 1

	BETA	0.818815299
•	ALPHA	0.002164007

Graph Title Mecklenburg 1: 97.5th Percentile = 1.8051 lb Hg/TBtu

1.756314566 38 0.974359 3.706319253 39 1 97.5th Percentile 1.8050647

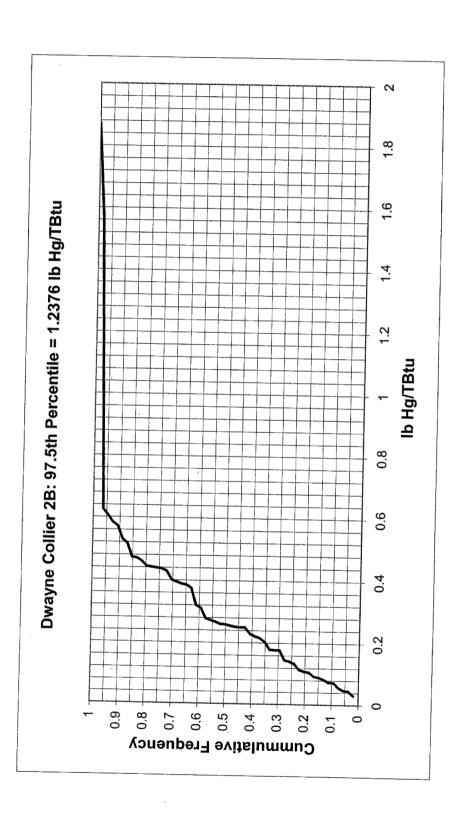
	Sorted Ib Hg/TBtu	1 0.006793718		3 0.036453554		5 0.044094229	6 0.049796851	_		9 0.062991755	10 0.069558599			-			_			-				23 0.255171936			-			0			_	`	_	_	_	•	38 1.756314566	39 3.706319253
	Index																				1																			•
	Cummulative Frequency	0.025641026	0.051282051	0.076923077	0.102564103	0.128205128	0.153846154	0.179487179	0.205128205	0.230769231	0.256410256	0.282051282	0.307692308	0,333333333	0.358974359	0.384615385	0.41025641	0.435897436	0.461538462	0.487179487	0.512820513	0.538461538	0.564102564	0.58974359	0.615384615	0.641025641	0.666666667	0.692307692	0.717948718	0.743589744	0.769230769	0.794871795	0.820512821	0,846153846	0.871794872	0.897435897	0.923076923	0.948717949	0.974358974	-
	lb Hg/TBtu	1.438659268	1.294199445	0.255171936	0.146799049	0.293402206	0.107304152	0.080423012	0.021009003	0.138547938	0.03733263	0.006793718	0.107559315	0.036453554	1.559852934	3.706319253	1.099510903	1.756314566	0.781513002	0.110883352	0.107893267	0.396002296	0.062485107	0.095677847	0,062991755	0.044094229	0.069558599	0.076872439	1.504214719	0.261695109	0.681352942	0.132570334	0.216868661	0.454924335	0.592027915	0.059756221	0.076765333	0.049796851	0.59216015	0.295836624
	CI(ppm)	1000	1000	1300	1400	1400	1700	2000	2300	1700	2300	2900	1700	2200	900	200	700	538	1100	1600	1800	1200	2100	1800	2100	2100	2000	1900	009	1400	900	1600	1300	1500	1200	1900	1700	1900	1400	1400
818815299	Hg(ppm)	0.2	0.18	0.07	0.05	0.1	0.07	0.1	0.05	0.00	0.09	0.06	0.07	0.07	0.09	0.09	0.08	0.09	0.14	0.06	60.0	0.09	0.1	0.08	0	0.07	0.09	0,08	0.00	0.09	0.08	0.07	0.06	0.19	0.13	90 0	0.05	0.05	0.00	0.1
0.002164007 0.818815299	H (lb/Btu)	13075	13081	13480	13480	13489	13489	13433	13433	13432	13607	13607	13457	13457	12896	12898	13098	13098	13570	13892	13892	13866	13925	13925	13813	13813	13978	13959	13373	13611	13711	13556	13595	13313	13397	13468	13468	13468	13367	13378



 Graph Title Dwayne Collier 2B: 97.5th Percentile = 1.2376 lb Hg/TBtu

0.625803886 52 0.962963 1.56695856 53 0.981481 97.5th Percentile 1.2375544

	Sorted Ib Hg/1 btu	0.03106187	0.047568195	4 0.056135351			_	8 0.090479222		10 0.106885493	_	0	13 0.13595001	14 0.141003044				19 0.203361349			22 0.229116571		24 0.243131313									34 0.3/4616669	35 U.383304877					-	42 0.44134239		44 0.400000001 45 0.469523925							0		54 1.8/1945/10	
	Index									-	•		,- ,																																						
ovital in the	Frequency	0,018518519	0.037037037	0.05555556	0.074074074	0.03232533	0.12962963	0.148148148	0.166666667	0.185185185	0.203703704	0.22222222	0.240740741	0.259259259	0.27777718	0.23023023	0.33333333	0.351851852	0.37037037	0.38888889	0.407407407	0.425925926	0.44444444	0.462962963	0.461461461	0.5	0.516516516	0.55555556	0,574074074	0,592592593	0.61111111	0.62962963	0.648148148	0.666666666	0.56551655165	0.72222222	0.740740741	0.759259259	0.7777778	0.796296296	0.814814815	0.833333333	7070700	0.88888889	0.907407407	0.925925926	0.9444444	0.962962963	0.981481481	₹	
,	lb Hg/TBtu	0.106885493	0.072976669	0.267005487	0.310871507	0.221156769	0.056135351	0.047568195	1.56695856	0.572380013	0.44134259	0.254451472	0.046056089	0.438659074	0.115617809	0,093745661	0.177237007	0.177550311	0.229116571	0.394920045	0.179140596	0.607067119	0.145866639	0.443166657	0.460035081	0.374618689	0.529797773	0.51849710	0.259957096	0.249489932	0.110023354	0.385304877	0.090479222	0,469523925	0.03106187	0.215492323	0.277944298	0.073832429	0.583585094	0.203361349	0.625803686	0.082890697	0.250982684	0.388588832	0.401647045	0.320261726	0.272113438	0.429226558	0.258729725	0.13393001	
	CI(ppm)	1300	1600	1200	1200	1100	1000	1900	2002	1300	1100	1500	2000	1100	1500	1600	1400	1300	1400	1300	1500	1100	1300	1200	1300	1400	1000	006	1400	1300	1834	1100	1500	1000	2100	1200	1100	1700	006	1400	800	1800	1300	1300	1000	1300	1100	006	1400	1000	
8815299	Hg(ppm)	0.03	0.04	90.0	0.07	0.04	0.07	0.17	0.00		0.08	0.11	90.0	0.08	0.05	0.05	0.06	0.07	0.03	0.00	0.08	0.11	0.04	0.1	0.13	0.13	0.08	0.22	0.05	20.0	0.1	0.07	0.04	0.07	0.05	0.7	90.0	0.05	0.07	0.07	0.00	0.07	0.07	0.11	0.06	0.00	20.0	0.05	0.09	0.02	
002164007 0.818815299	J/Btu) Hg	13792	14072	13710	13738	13699	13946	13767	14099	13796	13731	13780	14074	13815	13785	13693	13398	13770	13838	13687	14235	13726	13475	13767	13886	13734	14202	13724	14033	13/02	13707	13762	14092	14022	14006	13969	14061	14003	14007	13623	13901	14064	13705	13910	14050	13947	13809	13919	13767	14045	

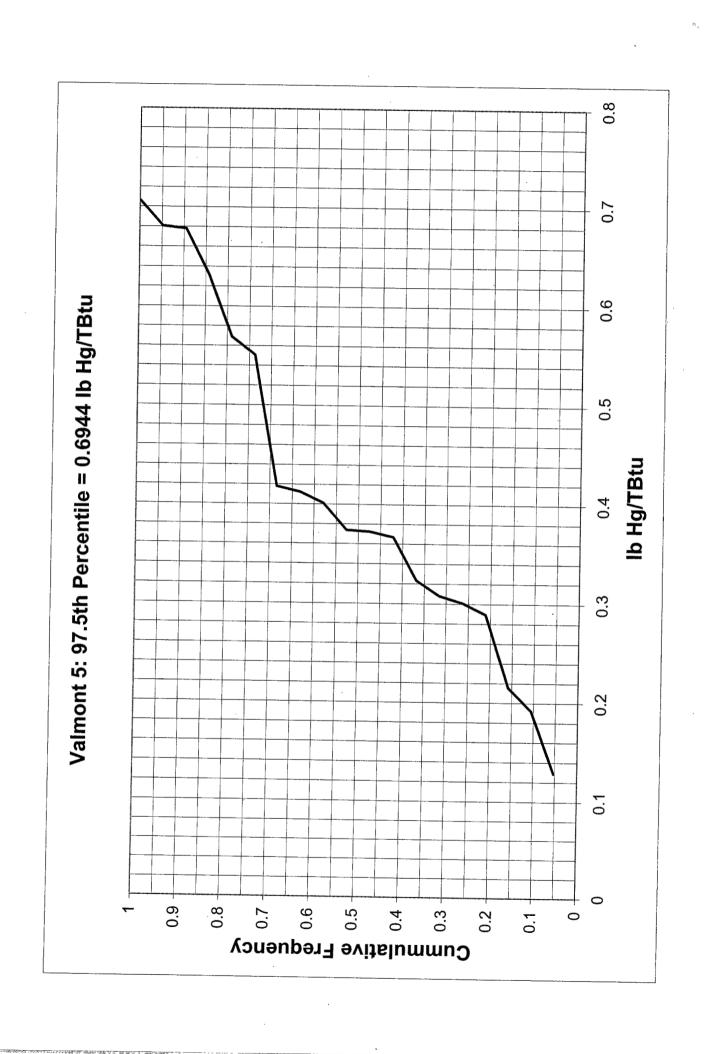


index Sorted lb Hg/TBtu		1 0.129005503	2 0.191962025	3 0.215559287	4 0.289500477	5 0.300892857	6 0.308077863	7 0.323468245	8 0.36694956	9 0.372405083	10 0.3738641	11 0.401159057	12 0.412331965	13 0.417901431	14 0.550688882	15 0.569048188	16 0.631738849	477081798	0.0001000	_	19 0.706863896	
Cummulative		0.052631579	0.105263158	0.157894737	0.210526316	0.263157895	0.315789474	0.368421053	0.421052632	0.473684211	0.526315789	0.578947368	0,631578947	0.684210526	0.736842105	0.789473684		, '	0.894736842	0.947368421	-	
	ma i /bu ai	0.631738849	0.129005503	0.550688882	0.569048188	0.289500477	0.323468245	0.300892857	0 677981798	0.412331965	0.372405083	0 680593247	0.706863896	0.308077863	0.191962025	0.3738641	0.26604056	0.00004000	0.215559287	0.417901431	0 401159057	0.50
	CI(ppm)	447	491	449	476	712	501	565	423	516	435	662	610	1008	821	812	200	080	545	560	613	2
BETA 0.1348	Hg(ppm)	0.058	0.012	0.051	0.053	0.000	20.0	0.03	0.020	0.038	0.035	0.000	0.004	0.00	0.029	0.00	10.03	0.034	0.02	0.039	0000	0.030
Valmont 5 ALPHA 0	H (lb/Btu)	12376	12539	12484	12555	12525	2000	12502	12544	12020	12660	69971	77461	17771	12009	12040	60771	12490	12507	12580	00031	12/69

0.680593247 18 0.947368 0.706863896 19 1 97.5th Percentile 0.6943853

Valmont 5: 97.5th Percentile = 0.6944 lb Hg/TBtu

Graph Title



Stockton Cogen 1

BETA	0.006860787 0.318572089	
ALPHA	0.00686	

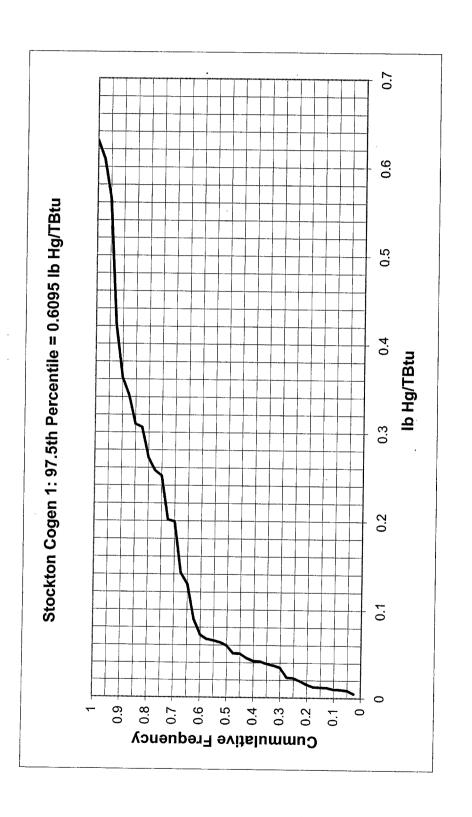
Stockton Cogen 1: 97.5th Percentile = 0.6095 lb Hg/TBtu

Graph Title

0.975

0.609453005 39 0.629716429 40 **97.5th Percentile 0.609453**

	Sorted Ib Hg/TBtu	0.005123539 0.008590202	0.00961387	0.00996762	0.01165474	0.012109333	0.012450574	0.015206988	0.019066297	0.02235476	0.023118957	0.034723562	0.037161161	0.038977354	0.04163568	0.041998519	0.045342654	0.050358918	0.050656154	0.059396077	0.06313505	0.065118084	0.06654472	0.071412124	0.089679938	0.129191364	0.141998755	0.199450311	0.201357792	0.251107352	0.257020496	0.27128575	0.30565468	0.309293623	0.342215709	0.361964881	0.421557693	0.564237572	0.609453005	0.629716429
		- 4	ო	4	5	9	7	ω	თ	10	7	12	5	4	5	16	17	9	19	20	7	23	23	24	52	20	27	88	8	စ္တ	છ	32	83	34	32	36	37	38	33	4
	Index																,													-										
Cummingling	Frequency	0.025	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5	0.525	0.55	0.575	9.0	0.625	0.65	0.675	. 0.7	0.725	0.75	0.775	8.0	0.825	0.85	0.875	6.0	0.925	0.95	0.975	-
	lb Hg/TBtu	0.050656154	0.309293623	0.04163568	0.361964881	0.005123539	0.00996762	0.059396077	0.023118957	0.251107352	0.201357792	0.199450311	0.038977354	0.045342654	0.02235476	0.01165474	0.008590202	0.27128575	0.037161161	0.06313505	0.629716429	0.564237572	0.342215709	0.609453005	0.421557693	0.141998755	0.041998519	0.129191364	0.30565468	0.089679938	0.257020496	0.071412124	0.06654472	0.00961387	0.012450574	0.050358918	0.065118084	0.019066297	0.034723562	0.012109333
	CI(ppm)	460 462	222	222	152	538	441	240	400	199	188	373	510	484	498	554	633	263	526	425	175	164	229	225	167	240	515	187	194	288	200	263	211	612	549	405	365	869	625	632
7.3185/2089	Hg(ppm)	0.046	0.052	0.007	0.04	0.008	0.008	0.012	0.014	0.039	0.029	0.095	0.052	0.046	0.026	0.02	0.026	0.065	0.052	0.043	0.076	0.063	0.066	0.117	0.053	0.03	0.056	0.019	0.042	0.023	0.039	0.017	0.011	0.026	0.021	0.03	0.03	0.076	0.09	0.036
0.006860787 0.318572089	H (lb/Btu)	12323	11678	11678	12408	12408	12408	12403	12403	12632	12632	11741	12847	11677	12161	12219	12534	12562	12074	11751	11573	11546	12768	13063	12736	12970	12407	12988	11566	11327	12257	12481	12382	12935	12429	11790	11997	10568	11339	12396

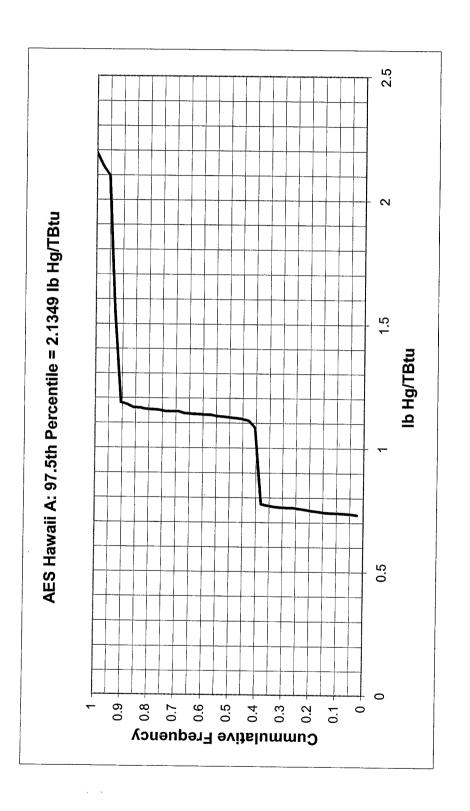


⋖	
Hawaii	ALPHA
AES	

Hawaii A Al PHA	BETA						
0	0,4748						
H (Ib/Btu)	Hg(ppm)	CI(ppm)	lb Hg/TBtu	Cummulative Frequency	Index	Sorte	Sorted Ib Hg/TBtu
11110	0.05	100	2.136813681	0.023809524		-	0.732433475
11310	0.05	100	2.099027409	0.047619048		7	0.735155222
10840	0.05	100	2.1900369	0.071428571		ო	0.737209844
12431	0.02	0	0.76389671	0.095238095		4	0.73847111
12133	0,03	0	1.173988296	0.119047619		ഹ	0.73904584
12859	0.02	0	0.73847111	0.142857143		9 1	0.7403/1121
12511	0.03	0	1.138518104	0.166666667		- -	0.744375637
12566	0.02	0	0.755689957	0.19047619		∞ (0.747893203
12345	0.03	20	1.153827461	0.214285714		o	0.752039201
12425	0.03	20	1.14639839	0.238095238		<u>و</u> :	0.755689857
12362	0.02	9	0.768160492	0.261904762		Ξ ;	0.759558471
12471	0.02	20	0.761446556	0.285714286		2 9	0.759925175
12263	0.03	20	1.161542852	0,30952381		5 5	0.76389671
12527	0.03	20	1.137063942	0.333333333		Ŧ ú	0.788160492
12051	0.03	20	1.181976599	0.357142857		<u>.</u>	0.774740964
12965	0.02	22	0.732433475	0.380852381		2 [1 000647648
12825	0.03	20	1.110643275	0.404761905		7.	1.08261/010
13157	0.03	20	1.082617618	0.428571429		<u>, c</u>	1.110043213
12697	0.02	101	0.747893203	0.452380952		<u>n</u> (1 120251671
12751	0.03	99	1.117088856	0.476190476		₹ \$	1.12025157.1
12684	0.03	22	1.122989593	0.5		7 8	1.122909393
12826	0.02	111	0.740371121	0.523809524		3 8	1 128058021
12269	0.03	61	1.160974815	0.547619048		3 6	1 132723658
12849		20	0.73904584	0.571428571		‡ ^K	1 133534936
12257		62	0.774740964	0.595238095		3 %	1.135704034
12715		<u>0</u>	1.1202516/1	0.61904/619		3 5	1 137063942
12575			1.132/23058	0.042037.143		, « ,	1,138518104
12422			1.1466/3234	0.00000000		8	1.14639839
12292	40.0	- 29 - 29 - 29	1 128058921	0.714285714		8	1.146490663
72071			0.735155222	0.738095238		ઝ	1.146675254
11871			1 155231144	0.761904762		32	1.151681759
12350			1 1259189	0.785714286		33	1.153827461
12631			1,133534936	0.80952381		34	1.155231144
12881			0.737209844	0.83333333		32	1.160974815
12001			0.744375637	0.857142857		98	1.161542852
12496		•	0.759923175	_		37	1.173988296
12627			0.752039281			္တ	1,1819/6599
12542			1.135704034			ල ල	1.545069964
12502		71	0.759558471			\$;	2.089027409
12368	0.03	57	1.151681759	0.976190476		- 5	2.130013001
12424	0.03	9 65	1.146490663	-		7,4	7. 1900000

2.099027409 40 0.952381 2.136813681 41 0.97619 97.5th Percentile 2.1349244

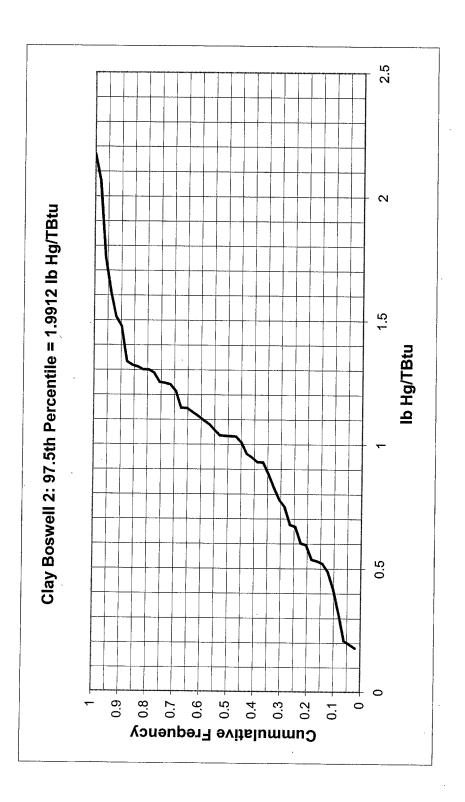
Graph Title AES Hawaii A: 97.5th Percentile = 2.1349 lb Hg/TBtu



		47 0.959184	48 0.979592	1.3912137	Clay Boswell 2: 97.5th Percer	•																																							
		1,751758794	2.060732853	97.5th Percentile	Graph Title										,																														
	o the Hortage	301ted in 19/10ta	2 0.195984258		4 0.320327607 5 0.418386942					0 0.595219124	11 0,601903309 12 0,68033923			15 0.778435282					20 0.947055533		22 1.006130123		25 1.034379319	•			29 1.099823322	30 1.116554282			τ-		36 1.24/200943	***		_	_	_		τ- ·	•	46 1.61443/458	_ (,		
) 	Yang							•	***		- 1-	•		•	•	•	, ,			•				•				•																
	Cummulative	Frequency	0.040816327	0.06122449	0.081632653	0.102040616	0.142857143	0.163265306	0.183673469	0.204081633	0.224489796	0.244697939	0.285714286	0.306122449	0.326530612	0.346938776	0.367346939	0.387755102	0.408163265	0.428571429	0.448979592	0.4693077050	0.4697.93918	0.530612245	0.551020408	0.571428571	0.591836735	0.612244898	0.632653061	0.653061224	0,693877551	0.714285714	0.734693878	0.755102041	0.705010204	0.816326531	0.836734694	0.857142857	0.87755102	0.897959184	0.918367347	0.93877551	0.959183673	0.979591837	-
		Ib Hg/18tu	2.169768006	1.333642075	1.033020066	1,1324/8134	0.929010152	1.081964286	0.778435282	0.928162845	0.180492273	1.008190125	1.36544099	1.214535732	1.475385518	0.947055533	1.031525912	1.060111505	1.247200943	0.668033923	1.116554282	1.2500/335	0.962656131	0.020190919	1.241244973	0.536872822	1.034379319	0.676783692	1.751758794	0.595219124	1.146239211	1.300746269	1.300964441	0.749403748	1.61443/458	1 147078652	1.513702155	1.099823322	1.319391206	0.208575987	2.060732853	1.287652216	0.880805282	0.601903309	0.418386942
		CI(ppm)	න ගි	20	3 20	20	S 63	100	100	100	100		9 5	100	100	100	100	100	20	20	20	၃ ရ	Q 4	9 6	20	20	20	50	20	000	8 6	50	20	20	20	2 2	S C:	20	20	20	50	20	20	20	20
BETA	0.1743	Hg(ppm)	0.035	0.095	0.07	0.078	0.038	0.073	0.056	0.062	0.013	0.069	0.094	0.086	0.101	0.068	0.074	0.072	0.085	0.047	0.076	0.088	0.065	0.059	0.085	0.038	0.073	0.048	0.12	0.042	0.023	0.089	0.089	0.053	0.109	0.037	0.002	0.075	0.094	0.015	0.141	0.091	0.062	0.043	0.03
ay Boswell 2 ALPHA	0	H (Ib/Btu)	12464	12416	11811	12005	12466	11760	12539	11643	12554	11929	12479	12342	11932	12515	12504	11838	11879	12263	11864	12270	11769	12438	11936	12337	12301	12362	11940	12299	12515	11926	11924	12327	11768	123/9	12460	11886	12418	12535	11926	12318	12269	12452	12498

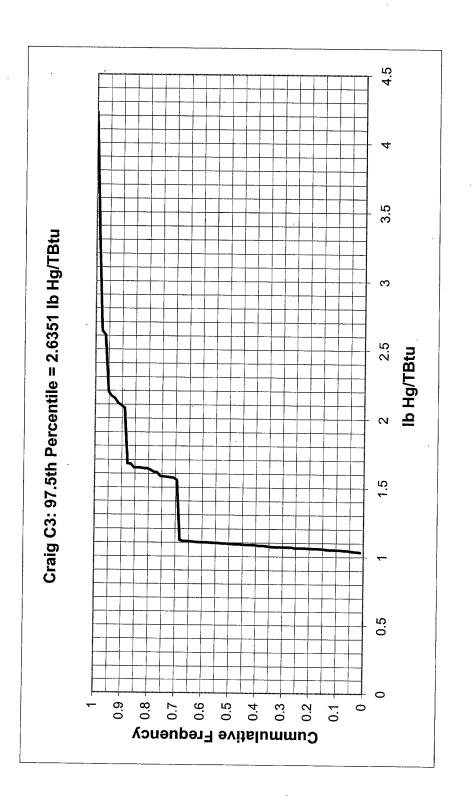
Clay Boswell 2: 97.5th Percentile = 1.9912 lb Hg/TBtu

Clay Boswell 2 ALPHA

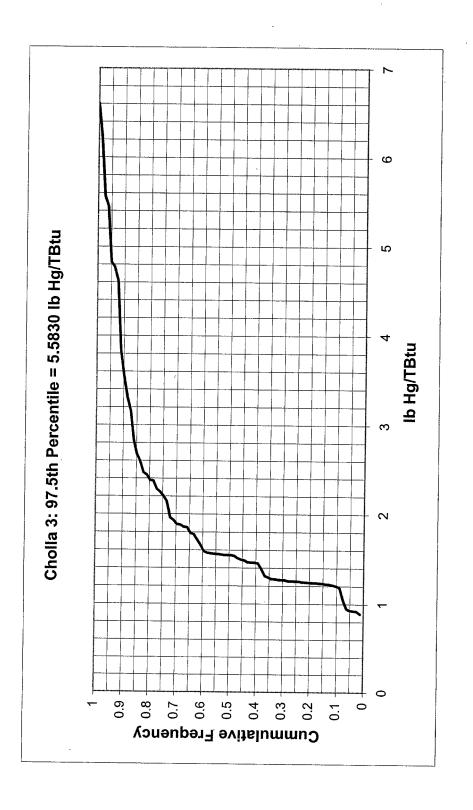


0.963415		
92 08	2.6351395	
2.603513174 79 2.536804066 80	97.5th Percentile	
1.03531613	1,038879762	-

			97.5]																																																
	Sorted Ib Hg/TBtu	1.03531613	1.038879762	1.041650326	1.04682327	1.049553466 1.049802372	1.050716038	1.050799177	1.055476077	1.058251654	1.059687201	1.060957098	1.0624	1.064017306	1.064187836	1.068211068	1.068296999	1.069415365	1.070018532	1.074259829	1.078447296	1.078973026	1.084347187	1.085322001	1.087365922	1.08852459	1.090491049 1.0913B7245	1.093724263	1.0941/483/	1.097792841	1.099246751	1.101069563	1,101891802	1.105561106	1 108884436	1.119069689	1.555035129	1.573584011	1.579197717	1.582333783	1,612955466	1.637484587	1.638292623	1.643157634	1.643564356	1.671421379	2.093481517	2.109610802	2.160052049	2.190876846	2.636804066	3 344526528 4.222575517
	Index		N W	4 (nω	7 8	0	2 5	2	<u>ნ</u> 4	tt å	1 7	5 5		2 22	23	24	58	28 27	53	3 5	33 33	25 5	8 8	37	8 8	4 4	4 4	3.4	45 46	47	84 4	5 50	52	3 25 25	8 8	. 82	28	6 6	63	25	8 8	29	8 8	2 2	72	2 2	75	4.8	78	8	182
	Cummulative	0.012195122	0.036585366	0.048780488	0.073170732	0.085365854	0 109756098	0.12195122	0.146341463	0.158536585	0.182926829	0 207317073	0 219512195	0.243902439	0.256097561	0.280487805	0.292682927	0 317073171	0.341463415	0.353658537	0.37804878	0.390243902	0.414634146	0.425829258	0.451219512	0.475609756	0.487804878	0.512195122	0.536585366	0.56097561	0.573170732	0.597560976	0.609756098	0.634146341	0.658536585	0.682926829	0.695121951	0 719512195	0.743902439	0.758097561	0.780487805	0.804878049	0.817073171	0.841463415	0.853658537	0.87804878	0.890243902	0 914834146	0.93902439	0.951219512	0.975609756	0.987804878
	th Hg/TBtu	1.637484587	1.643564356	2 075162122	1.570358691	1.085322001	1.078009579	1.094174837	1.059687201	1,608786949	1.643157634	1,576947435	1.068296999	1.612955466	1.068211068	1.084347187	1,670020121	1 083109045	1.119069689	1.038879762	2.603513174	1.093724263	1.096071311	1.579197717	1.099246751	2.093481517	4.222575517	1.108884436	1 055476077	2 144183418	2.109610802	1.091387245	1.045916358	1.060957098	1.084347187	1.050799177	1.090491049	1.03531613	1.058251654	1.108884436	1 078447296	1.098610192	1.0707087	1.069157073	1.074259829	1.064017306	1,101069563	1.105561106	1.101891802	1 050716038	1.087365922	1.08421668
	CI(ppm)	8 8	20	50	20 20	8 S	22	8 8	25.5	2 2	S &	8 8	B &	8 8	8 8	8	8 8	8 2	8 8	20	20 62	8 B	S 2	20 63	S S	8	8 3 10	ខ្លួ	8 8	S SS	D 5	88	20 20 20 20	55 55	S 20	8 8	20 20	88	20 23	20 20	25 25	88	20	8 8	8 8	8	2 2	5 5 5	8 8	දි දි		
BETA 0.664	Hg(ppm)	0.03	0.03	9, 6	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.03	0 02	0.02	0.02	0.05	0.02	0 00	0.03	0.02	9.0	0.03	0.02	0.02	0 0 0 0 0	9.0	0.02	0.02	0.02	0 02	0.02	0.02	0.02	0.02	0.05 0.05	0.02	0 0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	e e 8 8	0 00	0 05
Craig C3 ALPHA 0	H (Ib/Btu)	12165	12120	12799	12685	11918	12319	12137	12532	12653	12123	12632	12431	12350	12432	12247	11928	12281	11867	12783	12752	12500 12142	12116	12614	12081	12687	12580 12589	11976	12582	12387	12590	12168	12697	12517	12247	12638	12178	12827	12549	12804	12314	12088	12403	12421	12362 12159	12481	12411	12012	12052	12296	12213	11981

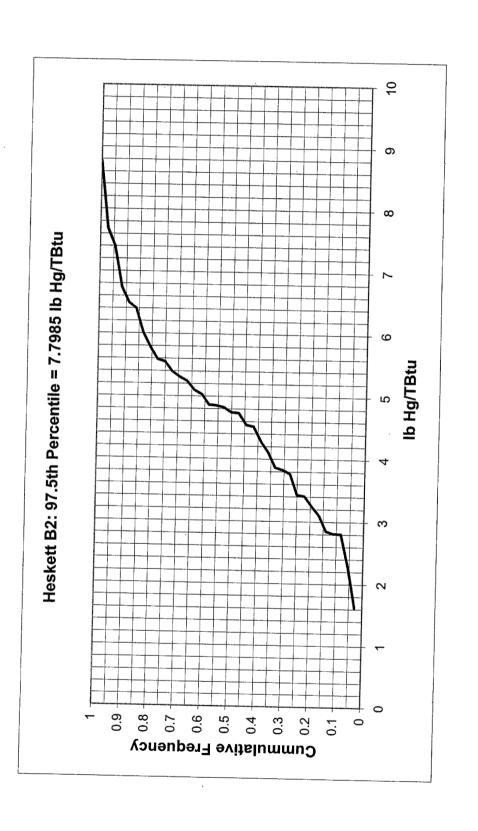


	14927	27804 Infile 5.583	1	e Cholla 3																																																								
		6.230827804 97 5th Percentile	37.301 61.6	Graph Title																																																								
						,																																																						
Sorted th Hg/TBtu	0 892990771	0.920702958	0.924904920	0.947507719	1.050983462	1.182786818	1 213559322	1,221947265	1 223513329	1.231404248	1 237683665	1.238111707	1.240578706	1.243055556	1.243453869	1.253611135	1.255149443	1 256691531	1 269166002	1.269503546	1.277430865	1.27689171	1.313520455	1.390696319	1.452922078	1,460926342	1.462537789	1,485015037	1.509656743	1.536085128	1.542438604	1.544301613	1 54978355	1.556792486	1.561273441	1.568799299	1.653732446	1.714395173	1.786962164	1 851660288	1.856076317	1 880087527	1.934089681	1.960569551	2.204433498	2.251336338	2.371384412	2.378474145	2.437861764	2.592860838	2.671392594	3.161845882	3,319254146	3,83845604	4.618438027	4.771212794	5.451974328	5.566414927	6.605166052	
Sorte																																						_	_							_							-	01	-	 .				
×	-	21 17		ŧ ιο	9	_	e a	, 5	÷	5 5	5 4	ñ	16	1,	9 0	2 8	22	818	2.5	123	3 8	7 6	2 5	8	5 6	33	8	S 8	3,5	88	9 5	÷ 4	4:	4.4	4	9 7	4 4	45	8 16	22	i	8 8	22.53	27	8 8	9	62	63	9 g	5 6	67	9 6	2;	2 2	7	4 2	28			
Index																																																												
Cummutative	0.012658228	0.025316456	0.03/9/4684	0.063291139	0.075949367	0.088607595	0.101203023	0.126582278	0.139240506	0.151898734	0.164556962	0.189873418	0.202531646	0.215189873	0.227848101	0.253164557	0 265822785	0.278481013	0.291139241	0.316455696	0.329113924	0.341/72152	0.367088608	0.379746835	0.392405063	0.417721519	0.430379747	0,443037975	0.46835443	0.481012658	0.493570886	0.518987342	0,53164557	0.556962025	0.569620253	0.582278481	0.607594937	0.620253165	0.632911392	0.658227848	0.670886076	0.683544304	0,708860759	0.721518987	0.746835443	0 759493671	0.772151899	0.797468354	0.810126582	0.835443038	0.848101268	0 873417722	0.886075949	0.911392405	0.924050633	0.936708861	0.962025316	0.974683544	1	
Ib Hg/TBtu	1,460926342	1 786962164	1.452922078	2.204433498	1,485015037	1.460181503	3 319254146	4.618438027	2.835643564	2 592860838	1 776674938	1.54978355	1,493845191	1.851660288	0.9305148424	1,243055556	6,230827804	1.960589551	1.880087327 6.605166052	2.378474145	1.245433989	2.3/1384412	1.269166002	0.892990771	1.462537789	0,920702958	1.568799299	1 297689171	1 277430865	1.934089681	1.253611135	5.451974328	1.856076317	3.83845604	1.58564943	5.566414927	1,554156718	3 555756208	1.714395173	1.231722002	1,556792486	1.542438604	1.182786818	1.213559322	1.887853753	1.223513329	2.141148325	2 466838932	1.54350263	1.240578706	1.653732446	1.313520455	1.253062653	1.269503546	1 278913995	1.561273441	0.924984928	1,237683665	1 201745552	
Cl(ppm)	100	9 5	100	3 5	100	100	3 5	100	100	100	9 5	5 5	100	9 5	9 5	2 2	100	100	9 6	100	100	901	8 8	9	8 5	<u>5</u>	100	<u>6</u> 5	<u>8</u> 6	100	100	9 6	100	9 5	19	6 6	5 5	100	8 5	9 0	100	8 5	8 8	100	3 5	9	<u>§</u> §	100	5 5	3 6	100	<u> </u>	160	<u>6</u> 6	100	9 5	8 6	\$ £	56	
Hg(ppm)	0.04	0.05	9.0	90.0	9.0	0.04	90.0	0.13	0 08	0 07	90.0	9.0	9.04	0.05	0.13	0.00	0.16	0 00	0.00	0.06	0.04	5.0 2.0 2.0	90.0	0.03	90.0	0.03	0.05	9.0	9	90.0	2 2	0.0	0.05	0 05	0 04	0.14	3 2	0.11	80.0	9.0	0.05	0.05	9.0	20.0	\$ 98 5 6	0.04	0.07	0.08	0.05	9.0	0.05	90'0	0 04	9.0	2	0.05	0.03	9.0	90.0	
ıţr)	9802	10017	9626	9744	9643	9807	9420	10077	10100	9665	10075	9240	9286	9667	11542	11520	9193	10956	11425	9031	11498	800	11283	12027	12239	11665	11410	11035	11210	11106	11423	9193	9644	11591	9031	9000	9214	11075	10441	11626	11498	11605	12107	11800	11378	11704	11704	11610	11597	11543	10824	11748	11428	11280	11197	11465	11611	11570	11916	



					T	97.5th Percentile 7.7984668		Graph Title Heskett B2: $9/.5$ tn Percentile = $1./965$ ib $\pi g/1$ biu																															
		Sorted Ib Ho/TRtii	orted in right bid	1.617575264	2.28860667	2.808113003	2.810706029	2.851271874	3.102349776	3,250586605	3.40860868	3,428857567	3,766970091	3.827569375	3.866798739	4.109747031	4.284867535	4.518996933	4.546399706	4.73376026	4.742418426	4.82293696	4.854101509	4.864159493	5.030400871	5.097435897	5.242262275	5.30903806	5.392405063	5.549695965	5.586504183	5.780326087	6.013844477	6.402220988	6.491836222	6.741115833	7.400307943	7.690279531	8.772151899
		S		~	7	က	4	5	ဖ	7	ω	6	10	11	12	<u>ნ</u>	4	15	16	17	18	19	20	21	22	73	24	52 52	8 5	27	78	58	30	31	32	33	34	32	36
		Cummulative	Frequency	0.027777778	0.05555556	0.083333333	0.11111111	0.138888889	0.166666667	0.19444444	0.2222222	0.25	0.27777778	0.30555556	0.33333333	0.361111111	0.38888889	0.416666667	0.4444444	0.47222222	0.5	0.52777778	0.55555556	0.58333333	0.61111111	0.638888889	0.66666667	0.69444444	0.72222222	0.75	0.77777778	0.805555556	0.83333333	0.861111111	0.888888889	0.916666667	0.94444444	0.97222222	~
) L2/TB#	mal/gmai	5.097435897	8.772151899	4.742418426	4.82293696	7,400307943	3.866798739	2.808113003	3.102349776	7.690279531	4.284867535	5.780326087	6.741115833	4.864159493	5.030400871	6.491836222	5.586504183	4.73376026	6.013844477	4.854101509	5.549695965	4.546399706	4.518996933	2.28860667	2.810706029	3.827569375	1.617575264	5.242262275	3.250586605	3.766970091	5.392405063	4.109747031	5,30903806	2.851271874	3,40860868	3.428857567	6.402220988
		(2007)	C(bbm)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	500	200	200	200	200	200	200	200	200	200
į	BETA	0.0904	Hg(ppm)	0.095	0.165	0.087	0.088	0.137	0.072	0.052	0.058	0.143	0.08	0.107	0.125	60.0	0.093	0.13	0.103	0.088	0.111	0.089	0.101	0.083	0.084	0.042	0.053	0.071	0.03	0.099	0.059	0.068	0.1	0.076	0.098	0.053	0.064	0.062	0.116
Kett 52	ALPHA		H (Ib/Btu)	11115	11218	10941	10882	11041	11105	11044	11150	11090	11135	11040	11059	11035	11026	11943	10996	11087	11008	10935	10854	10888	11086	10945	11246	11063	11061	11263	10825	10766	11060	11029	11009	11086	11198	10784	10806

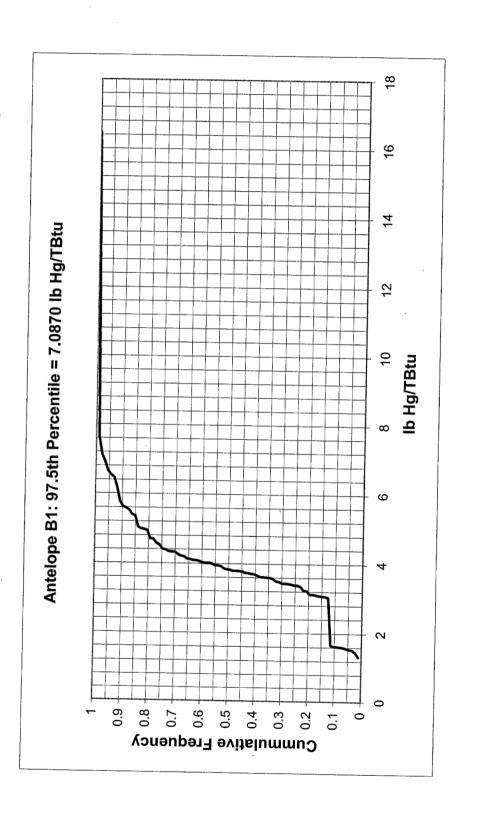
Heskett B2 ALPHA



Antelope B1 ALPHA BETA 0.002164007 0.818815298

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88847899174898		0.000000000000000000000000000000000000
10559 0064 1007 1007 1007 1007 1007 1007 1007 100	0.0755 0.0258	

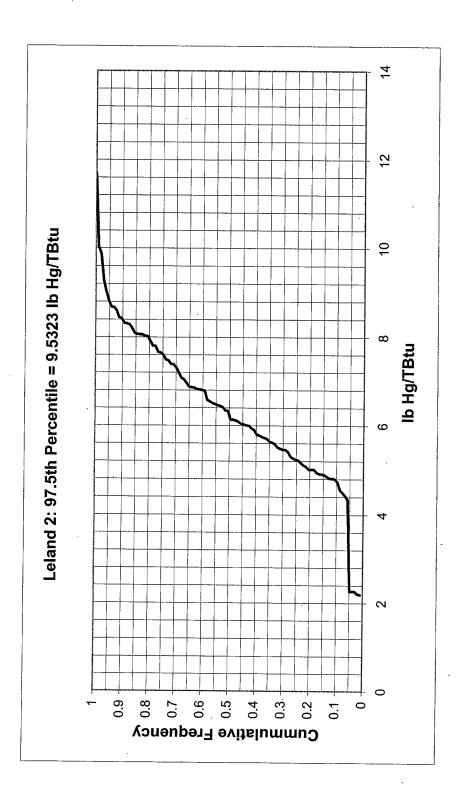
6.917765794 84 0.965617 7.122005789 85 0.977011 97.51h Percentile 7.0370071 Greph Title Antelope B1: 97.5th Percentile = 7.0670 ib Hg/TBtu



	Sorted to Hg/1	2 19598	2 20821	2 267159	2 267159	4 347806	4 432080	4 564778	4.738948	4 814451	4.818968	4 899016	4 920517		5 016105	5016442	5113568	5 161403	5 222140	5 254828	5 30464	5 456787	5 461166	5,514782	5 587014	5 637996	5 699032	5746107	5.781381	5.901036	5 940083	6 006350	6.027520	6 081369	6 131425	6 131601	9 33027	6 412271	6,459990	6 484117	6 545230	6 788783	6 601309	6 820841	6.853260	6 87686	7 04666	7 194705	7.317692	7 386988	7 491923	7 646513	7.800480	7 807839	8.023012	8.060363	8.0	8 092344	6 291555	8.321685	8 448121	8 607845	8 680724:	8.816496	9.278778	10 04643	11.6
	index		n e	5. 4	· ID	10 1	. 00	a)	5 =	4	5 4	ŧ.	12	\$ 5	20.5	2	23 23	24	£ 55	27	8 58	8 8	3.	33 33	3 8	38	37	8 8	d 4	4	& 4 4	84	¥ 4	84	\$ S	20 60		2 5	8	G 88	800		62	3.2	2 2	67	88	2.2	27.52	7.	2 80	282	92 99		683	50	88	88	8	E 55	88	88	98	88	90,	102	103
	Frequency	0 009708738	0.019417476	0 038834951	0.048543689	0 056252427	0.077669903	0.087378641	0.097087379	0 116504854	0 13592233	0 145631068	0.165048544	0 174757282	0.194174757	0.203883495	0.223300971	0 233009709	0.242718447	0 262135922	0.27184466	0.291262136	0 300970874	0 32038835	0.330097087	0.349514563	0.359223301	0 378640777	0.388349515	0,40776699	0.417475728	0 436893204	0.45631068	0.468019417	0.485436893	0 495145631	0 514563107	0.524271845	0 54368932	0 563106736	0 572815534	0 58223301	0.601941748	0.621359223	0.631067961	0 660485437	0 669902913	0 659320388	0 689029126	0.718446502	0.737864078	0.757281553	0 766990291	0 766407767	0 805825243	0.825242718		0 854368932		0.893203883	0.902912621		0.941747573	0.951456311	0 970873786	0 990291262	-
	Ib Hg/TBtu	6.412271468		853260274	514782509		081369863	6 342		025184834	5 800609756	816496756	98754	7 912682243	8 321685083	7 475135641	6 85780037	8 060363128	6 502331461 R 448101406	6 801309182	B.607845149	7 045656657	4 738948339	6,579596542	5.994636343	6,459990898	6.815497738	6 444875954	5 901036941	5016442953	4 855405427 4 805444341	4 564778271	5.637996237	5.41318097	4 920517241	2 267159199 7 385088636	6 962837262	5 30464684	2 19598338	5 016105458	4.818968105	6 006350975	5.616860356	6 131425781	2 26284491 5 456787763	2 287 159 188	5723409298	7.807839523 5.699032258	8 672585789 5 222 senage	5.236513761	5 079757262	9 278778409	8 092344045 6 330277264	4 899016854	4.432898416	8 291555764	7.063195099	8.210093809	5 940083877	6.545230814	5 461168867	6 484117647	7.667460169	7.646813397	7,317692308	8 0634	9,029597315
	CI(hpm)	103	138	121	131	119	8 8	133	127	120	161	76	112	168	14:	12	125	177	147	£	8 5	116	287	8 2	991	126	95	123	133	174	127	103	201	83	ž 6	97	121	\$ E	110	138	6 6	90	137	116	124	137	120	35	118	120	12	202	\$ 5	12	78	8 8	B 5	114	132	\$ 4	136	103	3 28	<u>و</u> 5	116	9 65	ę.
0.9513	Hg(ppm)	0 073	0.059	0.079	0 064	0.05	200	0 072	0.058	690 0	0.065	0 0	0 109	0 069	0.085	0 084	0.078	0 001	0 073	0.077	0 097	800	0.054	0.072	0.087	0 073	0.076	0 071	2900	0 055	0.054	0.05	0.063	0.081	0.055	0.025	0.077	0.05	9200	0 0 57	0 054	0.068	0.066	0.000	0.025	0.025	0 066	0.065	0.097	900	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.103	0 002	0 055	0.05	0.003	0.005	0.092	0 067	0.073	0.057	0 073	0 086	0 087	0 083	0.00	R80 0
0	H (IPPEIN)	10830	10890	10950	11040	10940	10960	10800	10690	10650	10660	10790	10500	10700	10860	10690	10820	10740	10680	10770	10720	10800	10840	10410	10632	10750	10608	10480	10801	10430	10580	10450	10630	10720	10570	10490	10520	10760	10830	10610	10660	10770	10390	10240	10510	10490	10970	10850	10640	10800	10300	10560	10580	10680	10730	10670	10650	10680	10730	10610	10810	10710	10670	10530	10790	10600	10430

2.5 で 2.5 で 3.5 で

9.278778409 100 0.970574	9 8754 101 0,980583	97.5th Percantile 9.5323426	Carach Title Laboral 2: 07 fits Domestic at 5 2012 its Hoffers
929		97.5th Pe	Graph



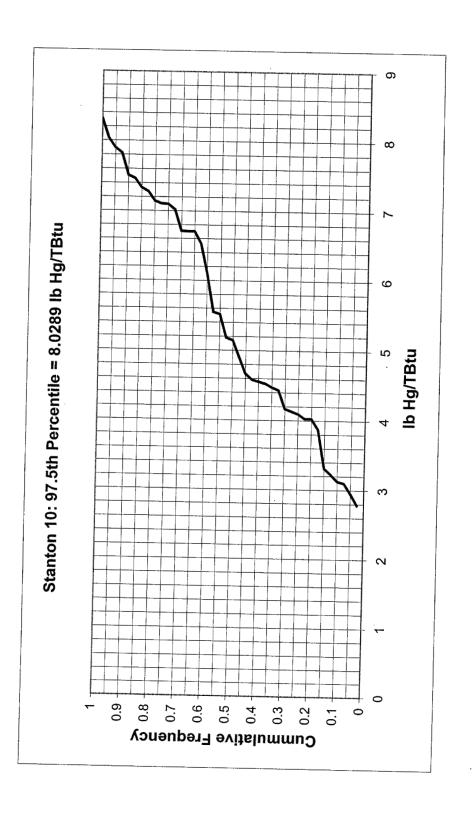
Stanton 10: 97.5th Percentile = 8.0289 lb Hg/TBtu

Graph Title

0.975

8.0289476 39 8.315724687 40 **97.5th Percentile 8.0289448**

Frequency of the course of the	ALPHA BETA 0.002164007 0.818815299	BETA 0.818815299			Cummulative		ć	
10850 0.069 74 4.436688061 0.025 1 2.7 10870 0.082 79 5.144718635 0.05 2 2 2 2 2 1 1 4.028371875 0.015 3 <th>H (Ib/Btu)</th> <th>Hg(ppm)</th> <th>CI(ppm)</th> <th>lb Hg/TBtu</th> <th>Frequency</th> <th>Index</th> <th></th> <th>ed to rig/15tu</th>	H (Ib/Btu)	Hg(ppm)	CI(ppm)	lb Hg/TBtu	Frequency	Index		ed to rig/15tu
1000 0.082 79 5.144718635 0.05 2 2.23 10870 0.084 83 4.02838108 0.075 3 30 10860 0.076 98 4.682871675 0.15 6 3.3 10920 0.077 108 4.68730532 0.15 6 3.3 10920 0.077 108 4.68745525 0.15 6 3.3 10730 0.073 123 4.16844142 0.25 0.2 4.0 10870 0.085 121 3.875310863 0.25 10 4.0 10870 0.079 123 4.906569167 0.25 10 4.0 10870 0.079 123 4.906503179 0.25 11 4.1 10870 0.079 124 4.268248148 0.325 14 4.0 10870 0.072 138 4.294287148 0.35 14 4.4 10870 0.073 141 2.252487	10850	0.069	74	4,436688061	0.025		 (2.785579397
10870 0.064 83 4,02839108 0.075 3 10860 0.076 99 4,582971675 0.1 4 3.1 10860 0.077 141 4,7645081 0.155 5 3.3 10570 0.074 106 4,58274525 0.175 7 3.8 10730 0.073 124 4,7645081 0.125 9 4,0 10730 0.073 124 4,7645081 0.125 0.2 8 4,0 10870 0.085 121 3,75310863 0.25 10 4 4,0 10870 0.079 125 4,26873732 0.25 11 4,1<	11000	0.082	79	5.144718635	0.05		7	2.951140004
10960 0.076 99 4.582971675 0.1 4 10960 0.077 108 4.68230632 0.125 5 3.8 10920 0.087 108 4.68430632 0.125 6 3.3 10570 0.073 134 4.18844142 0.02 9 4.06680167 0.25 10 4.0 10870 0.085 123 4.906680167 0.25 10 4.0 10870 0.085 121 4.18844142 0.25 10 4.0 10870 0.085 122 4.506680167 0.25 10 4.0 10870 0.067 12 4.18844142 0.25 10 4.0 10870 0.067 12 4.18844142 0.25 10 4.0 10870 0.072 12 4.28648173 0.25 11 4.0 10800 0.072 13 4.048687148 0.25 14 4.0 10800 0.067 <td>10870</td> <td>0.064</td> <td>83</td> <td>4.02839108</td> <td>0.075</td> <td></td> <td>က</td> <td>3,099966029</td>	10870	0.064	83	4.02839108	0.075		က	3,099966029
10920 0.077 108 4.668730532 0.125 5 3. 10920 0.077 108 4.668730532 0.125 5 3. 10920 0.081 141 4.7645081 0.15 6 3.8 10570 0.074 106 4.567452525 0.175 7 3.8 10870 0.085 123 4.906509167 0.25 10 4.0 10870 0.085 121 3.875310863 0.25 10 4.0 10800 0.079 125 4.528032779 0.25 11 4.1 10800 0.079 125 4.094987148 0.35 14 4.4 10800 0.077 138 4.094987148 0.35 14 4.4 10800 0.067 148 3.185348175 0.35 14 4.4 10800 0.067 148 3.18547807 0.4 16 4.6 10650 0.067 148 3.275	0000	8200	00	4 582971675	0.1		4	3.125431775
10920 0.071 141 4.76455081 0.15 6 3.3 10920 0.073 141 4.76455081 0.15 7 3.8 10970 0.073 123 4.1684442 0.25 9 4.0 10870 0.073 123 4.1684442 0.25 9 4.0 10870 0.085 121 3.875310863 0.25 10 4.0 10800 0.072 125 4.528032179 0.275 11 4.1 10600 0.072 136 4.02643775 0.35 12 4.4 10600 0.072 13 4.02498748 0.35 14 4.4 10620 0.067 141 3.125431775 0.35 14 4.4 10620 0.055 141 3.125431775 0.35 14 4.4 10680 0.057 143 3.125431775 0.35 14 4.4 10680 0.057 145 3.15543807	10900	77.0.0	30,	4 668730532	0.125		ည	3.22797068
10920 0.001 111 111 111 110	OBOOL	0.00	2 7	4 476455081	0.15		9	3.315013318
10570 0.074 100 4.18844142 0.25 9 4.00 10870 0.073 123 4.90e569167 0.25 10 4.00 10870 0.085 121 3.875310863 0.25 10 4.00 10800 0.079 125 4.528032779 0.25 11 4.10 10800 0.077 116 4.026578732 0.33 12 4.4 10800 0.077 118 4.024687732 0.35 14 4.1 10800 0.077 138 4.03488748 0.35 14 4.4 10870 0.085 141 3.125431775 0.35 14 4.4 10880 0.055 141 3.125431775 0.35 14 4.4 10880 0.057 103 4.128775162 0.45 16 4.4 10880 0.057 103 4.128775162 0.45 16 4.4 1080 0.057 1127 <	10920	0.081	141	4.470453001	0.175		7	3.875310863
0.073 1.34 4.10441142 0.255 9 4 0.085 123 4.906560167 0.255 10 4.0 0.079 126 4.528032179 0.275 11 4.1 0.072 126 4.026578732 0.235 11 4.4 0.072 138 4.024987148 0.325 14 4.4 0.084 92 5.185284516 0.35 14 4.4 0.084 141 3.22787088 0.45 15 4.4 0.065 148 2.78579387 0.4 16 4.4 0.067 103 4.129775162 0.45 17 4.4 0.067 103 4.129775162 0.45 17 4.4 0.067 103 4.129775162 0.45 17 4.4 0.067 103 4.129775162 0.45 17 4.4 0.067 103 4.129775162 0.45 17 4.4 4.4	•		100	4.001402020	000		8	4.026578732
0.065 121 3.75300000 0.25 10 4.0 0.065 121 3.875300000 0.25 11 4.1 0.067 116 4.026578732 0.275 11 4.1 0.072 138 4.024987148 0.325 13 4.4 0.084 92 5.185284516 0.35 14 4.2 0.085 141 3.125431775 0.35 14 4.2 0.065 158 2.788578937 0.45 16 4.2 0.067 103 4.129775162 0.45 17 4.2 0.067 103 4.129775162 0.45 17 4.2 0.067 107 4.129775162 0.45 18 4.2 0.067 108 3.09966029 0.45 18 4.2 0.065 94 3.09966029 0.45 19 4.2 0.067 127 2.95148004 0.5 2.2 2.2 0.067	10730		154	4.10044142	0.225		တ	4.02839108
0.065 1.21 3.01730000 1.21 3.01730000 1.21 4.11 4.11 4.12 <td>0/801</td> <td></td> <td>25.</td> <td>2 075210863</td> <td>0.25</td> <td></td> <td>10</td> <td>4.09498714</td>	0/801		25.	2 075210863	0.25		10	4.09498714
0.079 1129 4.325032119 0.21 4.4 0.067 116 4.026578732 0.325 13 4.4 0.084 92 5.185284516 0.35 14 4.4 0.085 141 3.125431775 0.35 15 4.4 0.055 141 3.125431775 0.35 16 4.6 0.051 158 2.78558397 0.425 17 4.6 0.054 115 3.22787068 0.425 17 4.6 0.057 103 4.129775162 0.45 18 4.6 0.057 127 2.951148004 0.5 20 5.7 0.057 3.315013318 0.55 20 5.2 5.2 0.057 3.315013318 0.55 22 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	105/0		17.	4 500000170	0.275		+	4.129775162
0.067 138 4.094987148 0.325 13 4.4 0.064 92 5.185284516 0.35 14 4.4 0.065 141 3.125431775 0.375 15 4.4 0.065 141 3.125431775 0.375 16 4.4 0.067 115 3.22787068 0.45 17 4.6 0.067 103 4.128775162 0.45 18 4.6 0.067 103 4.227776162 0.45 18 4.6 0.067 127 2.951148004 0.55 20 5. 0.052 94 3.315013318 0.55 22 5. 0.104 87 6.703878807 0.65 22 5. 0.104 88 6.703878807 0.6 24 6. 0.116 107 7.330764416 0.65 22 5. 0.116 108 7.018739306 0.77 28 6. 0.115	10900		120	4.026032113	0.00		12	4.1684414
0.072 138 4.045671149 0.35 14 4.45 0.084 92 2.185284716 0.35 15 4.45 0.065 148 2.78579068 0.45 16 4.45 0.067 103 4.128775162 0.45 18 4.6 0.067 103 4.128775162 0.45 18 4.6 0.067 103 4.128775162 0.45 18 4.6 0.067 103 4.128775162 0.45 18 4.6 0.05 2.0 2.2 0.47 19 4.6 0.05 3.315013318 0.555 2.2 5. 0.104 86 6.702878807 0.55 2.2 5. 0.104 87 6.712009366 0.55 2.2 5. 0.104 87 6.702878807 0.65 2.2 5. 0.116 107 7.101796277 0.625 2.2 5. 0.116 108	10600		911	4.02037.01.02	0.325		13	4.43668806
0.055 141 3.122431775 0.375 15 4.5 0.055 141 3.223431775 0.375 15 4.5 0.055 141 3.223797068 0.425 17 4.5 0.057 103 4.129775162 0.45 103 4.129775162 0.45 118 4.6 0.057 103 4.129775162 0.45 118 4.6 0.055 99 3.09966029 0.475 19 4.5 0.055 99 3.09966029 0.475 19 4.5 0.055 94 3.31501318 0.555 22 22 55.0 0.104 88 6.703878807 0.55 22 22 55.0 0.104 88 6.703878807 0.55 22 25 55.0 0.104 88 6.703878807 0.655 22 25 55.0 0.104 88 6.703878807 0.655 22 25 6.0 0.106 107 7.101796277 0.625 22 25 6.0 0.106 107 7.101796277 0.625 26 0.055 0.116 108 7.018739306 0.775 27 28 0.115 115 6.528191494 0.725 29 7.7 1.50765355 0.775 31 7.7 1.50765355 0.091 106 5.546711282 0.875 33 33 32 1.7 1.20622177 0.855 34 7.7 1.20622177 0.855 34 7.7 1.20622177 0.855 34 7.7 1.20622177 0.985 34 7.7 1.20622177 0.995 38 7.7 1.20622177 0.995 39 0.115 119 7.138178881 0.975 39	10680		000	4.034301.40 R 18K284516	0.35		14	4,47645508
0.055 141 2.726573717 0.4 16 4.16 0.054 115 3.22737068 0.45 17 4.4 0.067 103 4.128775162 0.45 17 4.4 0.067 103 4.128775162 0.45 17 4.4 0.05 9 3.09996029 0.475 19 4.8 0.051 127 2.951448004 0.5 20 5. 0.052 94 3.3156013318 0.525 22 5. 0.104 87 6.703878807 0.55 22 5. 0.104 87 6.703878807 0.65 22 5. 0.104 88 6.703878807 0.65 22 5. 0.104 88 6.703878807 0.65 22 5. 0.116 82 7.330764416 0.65 25 6. 0.116 84 7.50765356 0.775 28 6. 0.115 97<	10870		7 6	2 105204010	0.375		15	4.52803217
0.054 115 2.72577068 0.425 17 4.5 0.057 103 4.725775162 0.45 18 4.6 0.05 99 3.099966029 0.475 19 4.9 0.051 127 2.951148004 0.5 20 5.7 0.052 94 3.315013318 0.525 21 5.7 0.054 88 6.703878807 0.55 22 5.2 0.104 87 6.712709366 0.575 22 5.3 0.104 86 6.703878807 0.6 24 6.2 0.104 87 6.71378907 0.65 25 6.6 0.116 82 7.30764416 0.65 25 6.6 0.116 82 7.337764416 0.65 26 6.6 0.116 82 7.337764416 0.65 26 6.6 0.116 108 7.52769518 0.725 39 7.7 0.115	10620		- 4- - 4- - 0	2 785579397	0.4		16	4.55745252
0.054 115 3.2272100 0.45 18 4.6 0.057 103 4.122712100 0.45 18 0.057 0.057 103 4.122712100 0.45 0.475 19 0.055 0.055 0.055 0.052 0.104 88 6.702878807 0.55 22 22 55 0.104 88 6.702878807 0.655 22 22 55 0.104 88 6.702878807 0.655 22 22 0.104 88 6.702878807 0.655 22 22 0.104 88 6.702878807 0.655 22 22 0.104 88 6.70287807 0.655 22 22 0.105 0.106 64 8.0289476 0.65 25 0.055 0.116 108 7.018738306 0.775 29 7.75 0.115 135 6.528191494 0.725 29 7.75 0.115 135 6.528191494 0.725 39 7.75 0.115 114 7.09522177 0.855 0.875 31 7.75 0.091 105 5.51738572 0.875 33 7.75 0.091 105 5.51738572 0.875 33 7.75 0.091 105 5.51738572 0.875 33 7.75 0.091 105 5.51738672 0.875 33 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.12 0.975 39 0.12 0.12 0.12 0.12 0.12 0.975 39 0.975 39 0.12 0.12 0.12 0.12 0.975 39 0.975 39 0.12 0.12 0.12 0.975 39 0.975 39 0.12 0.12 0.12 0.975 39 0.975 39 0.12 0.12 0.12 0.975 39 0.975 39 0.975 39 0.12 0.12 0.12 0.975 39 0.975 39 0.12 0.975 39 0.9	10650		0 1	2.70707068	0.425		17	4.58297167
0.056 99 3.09996029 0.475 19 4.5 0.05 99 3.09996029 0.475 5.0 0.05 127 2.951148004 0.52 0.05 94 3.315013318 0.525 22 5.5 0.104 88 6.703878807 0.55 22 5.5 0.104 88 6.703878807 0.625 23 5.5 0.104 88 6.703878807 0.625 22 5.5 0.105 0.107 8.2394476 0.625 26 6.5 0.116 64 8.02894476 0.675 27 6.5 0.116 108 7.018739306 0.775 28 6.0 0.115 135 6.528191494 0.725 29 7.7 0.115 87 7.50765355 0.775 31 7.7 0.115 114 7.09522177 0.825 34 7.7 0.091 105 5.517398572 0.875 33 7.7 0.091 105 5.517398572 0.875 35 7.7 0.091 72 6.095774839 0.925 33 7.7 0.12 63 8.315724687 0.955 39 0.12 0.12 119 7.18178881 0.975 39 0.12 0.13 1.19 7.18178881 0.975 39 0.12 0.15 119 7.18178881 0.975 39 0.12 0.15 119 7.18178881 0.975	10680		113	3.22/3/000	0.45		18	4.66873053
0.051 127 2.951143004 0.55 2.0 5.0 0.051 127 2.951143004 0.55 0.055 94 3.31501318 0.555 21 5.0 0.104 88 6.703878807 0.55 2.3 5.0 0.104 88 6.703878807 0.625 2.3 5.0 0.104 88 6.703878807 0.625 2.3 5.0 0.104 88 6.703878807 0.625 2.3 5.0 0.106 82 7.330764416 0.655 2.2 6.6 0.116 82 7.330764416 0.675 2.7 6.0 0.116 82 7.330764416 0.075 2.9 0.116 108 7.018739306 0.725 2.9 7.7 0.115 87 7.5076355 0.775 31 7.7 0.0115 87 7.63076355 0.775 31 7.7 0.001 106 5.546711282 0.85 34 7.0 0.001 105 5.517398572 0.875 35 37 7.0 0.001 105 5.517398572 0.875 35 0.001 105 5.517398572 0.875 35 0.001 105 6.517398572 0.875 38 7.0 0.12 119 7.138178881 0.975 3.9	10630	0	50.	4.129/10102	0.15		19	4.90656916
0.052 94 3.3150173037 0.555 22 55 60 60 60 60 60 60 60 60 60 60 60 60 60	10660	•	7 0	2.0393900023	5.0		20	5.144718635
0.052 94 5.319013310 0.055 22 55.0 0.104 88 6.702878807 0.555 23 55.0 0.104 88 6.702878807 0.555 23 55.0 0.104 88 6.702878807 0.655 23 55.0 0.106 82 7.330764416 0.625 25 66.0 0.116 82 7.330764416 0.655 26 6.0 0.116 82 7.330764416 0.675 27 6.0 0.115 108 7.018739306 0.7725 29 7.7 0.115 87 7.50768245 0.7725 39 7.7 0.115 84 7.463172503 0.8 5.17398572 0.855 34 7.0001 105 5.517398572 0.855 34 7.0001 105 5.517398572 0.855 34 7.0001 105 5.517398572 0.875 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.3 8.315724687 0.955 38 7.0 0.12 6.0 0.12 6.0 0.975 3.9	10750		127	7.831140004	0.50		27	5.18528451
0.104 87 6.70397897 0.575 23 55. 0.104 88 6.70397897 0.625 24 6. 0.104 88 7.0337897 0.625 24 6. 0.116 82 7.330764416 0.655 26 6. 0.116 84 8.0289476 0.675 27 6. 0.115 136 6.528191494 0.725 29 7. 0.115 87 7.5076835 0.775 31 7. 0.115 84 7.463172503 0.8 32 7. 0.091 105 5.517398572 0.855 34 7. 0.091 105 5.517398572 0.875 36 0.001 12 6. 8.315724687 0.955 38 7. 0.12 119 7.138178881 0.975 38 7.	10480		48	3.315013310	0.55		53	5.517398572
0.104 88 0.7028300 0.6 24 0.1 0.104 88 0.703807 0.6 25 0.1 0.116 107 7.101796277 0.625 25 0.1 0.116 82 7.330764416 0.675 27 0.1 0.116 108 7.018739306 0.7 0.115 135 6.528191494 0.725 29 7.7 0.115 87 7.507695189 0.775 31 7.7 0.115 84 7.463172503 0.8 0.091 105 5.517398572 0.875 35 7.7 0.091 105 5.517398572 0.875 35 7.7 0.091 105 5.517398572 0.875 35 7.7 0.091 105 5.517398572 0.875 35 7.7 0.091 105 5.517398572 0.875 35 7.7 0.12 6.095774887 0.955 38 7.7 0.12 119 7.138178881 0.975 39	10500		9 00	0.742000366	0.52		23	5.546711282
0.104 08 0.7107396277 0.625 26 6. 0.116 107 7.1017396277 0.625 26 6. 0.116 82 7.330764416 0.655 27 6. 0.116 64 8.0289476 0.675 27 6. 0.116 108 7.018739306 0.725 29 7. 0.115 115 6.528191494 0.725 29 7. 0.115 87 7.50765355 0.775 31 7. 0.115 84 7.463172503 0.8 32 7. 0.091 105 5.54711282 0.875 34 7. 0.091 105 5.547313872 0.875 35 7. 0.091 105 5.547313872 0.875 35 7. 0.091 105 5.547318872 0.925 38 7. 0.12 6. 0.9578881 0.955 39 0.12	10510		/8	0.712009300	3 6		24	6.095774359
0.116 107 7.101795277 0.525 6.6 6.0.116 82 7.330764416 0.655 27 6.6 6.0.116 64 8.02294476 0.675 27 6.6 6.0.115 108 7.018739306 0.7 25 27 6.6 6.0.115 108 7.018739306 0.7 25 29 7.7 20.115 87 7.50785355 0.7 25 30 7.7 2.0.115 84 7.483172803 0.8 32 7.7 2.0.091 106 5.546711282 0.875 35 7.0.091 105 5.517398572 0.875 35 7.0.091 7.2 6.095774359 0.95 38 7.0.091 10.0091 7.138173881 0.975 39 9.0.001	10500		0 0	7.404.706977	0.605		52	6.52819149
0.116 64 8.02894776 0.675 27 6.6 1.0 1.16 64 8.02894776 0.675 27 6.6 1.0 1.16 108 7.018739306 0.7 25 28 0.1 28 0.115 135 6.528191494 0.7 25 29 7.5 1.0 1.15 14 7.50785355 0.7 25 30 7.7 2.0 1.15 14 7.46371553 0.8 3.2 7.7 0.091 1.0 5.546711282 0.8 7.5 3.5 7.0 0.091 1.0 5.546711282 0.8 7.5 3.5 7.0 0.091 1.0 5.54671389 0.9 25 38 7.0 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 5 39 0.1 1.0 7.138179887 0.9 7.13817987 0.9 7.138179887 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.13817987 0.9 7.1381	10610		_	7.101796277	,		26	6.70387880
0.116 64 8.02694470 0.017 28 6.0115 108 7.018739306 0.725 29 7.7 0.115 135 6.52819494 0.725 29 7.7 0.115 87 7.50786355 0.775 30 7.7 0.115 84 7.463172503 0.8 0.015 114 7.09522177 0.825 33 7.7 0.091 105 5.546711282 0.85 34 7.0091 105 5.517398572 0.875 35 7.7 0.091 72 6.095774359 0.95 36 0.12 0.12 6.3 8.315724687 0.95 38 7.1 0.12 6.3 8.315724687 0.95 38 7.1 0.12 6.3 8.315724687 0.95 38 7.1 0.12 6.3 8.315724687 0.95 38 7.1	10850			7.550704410			27	6.70387880
0.115 106 7.016739500 0.725 29 7.7 0.115 135 6.528191494 0.725 29 7.7 0.115 87 7.276895189 0.775 31 7.7 0.115 84 7.463172503 0.8 32 7.7 0.015 114 7.09522177 0.825 33 7.7 0.091 106 5.546711282 0.85 34 7.7 0.091 105 6.51739872 0.875 35 7.7 0.091 72 6.095774389 0.95 38 7.7 0.12 63 8.315724687 0.95 39 0.12	10300			8.02094470			28 18	6.712009366
0.115 135 6.526191494 0.723 30 0.115 87 7.276895189 0.775 31 7.7 0.115 84 7.463172503 0.8 32 7.7 0.115 114 7.09522177 0.825 33 7.7 0.091 105 5.546711282 0.85 34 7.7 0.091 72 6.095774589 0.95 35 7.7 0.12 72 7.894578981 0.95 38 7.7 0.12 63 8.316724687 0.95 39 0.12	10620			7.0107.38300			5	7.01873930
0.115 87 7.276895189 0.775 31 7.7 0.115 84 7.463172603 0.85 32 7.7 0.115 114 7.09522177 0.825 33 7.7 0.091 106 5.546711282 0.85 34 7.7 0.091 72 6.095774359 0.9 36 0.01 72 7.894877 0.95 38 7.7 0.12 63 8.315724687 0.95 38 7.0 0.12 119 7.138178881 0.975 39	10770			7 575575	,		3 8	7.09522177
0.115 97 7.276950189 0.773 9.77 9.715 9.77 9.72 9.715 9.77 9.72 9.72 9.73 9.72 9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	10390			7.307,03333			34	7,1017962
0.115 84 7.463172503 0.3 0.115 114 7.09522177 0.825 33 7.7 0.091 105 5.514781522 0.875 35 7 0.091 72 6.095774359 0.9 36 7 0.12 72 7.894975985 0.95 37 7 0.12 63 8.315724687 0.95 38 7 0.12 119 7.138178881 0.975 39	10490			7.276895189	Ċ.		8	7,1381788
0.115 114 7.09522177 0.525 34 7 7.0001 106 5.546711282 0.85 34 7 7.0001 105 5.517398572 0.95 35 7 7.0011 72 6.09575985 0.95 37 7 7 7.894975985 0.95 38 7 0.12 63 8.315724687 0.95 39 0.12 119 7.138178881 0.975	10520			7.463172503			8	7 2768951
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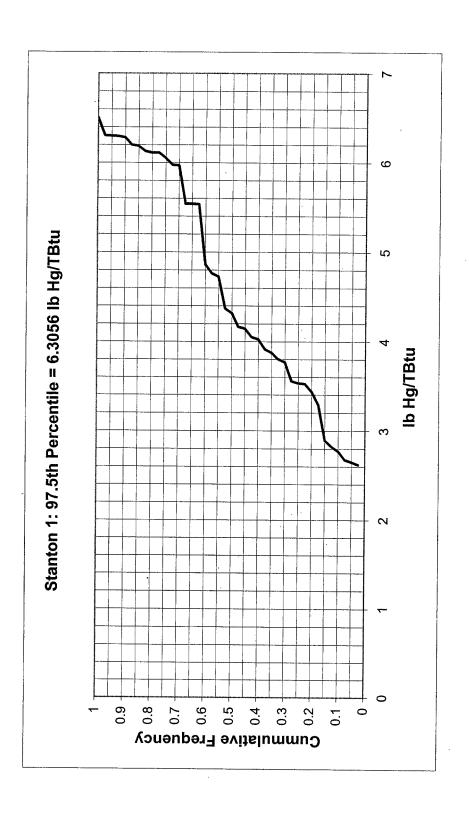
		Index Sorted Ib Hg/TBtu	1 2.622420263	2 2.652474419	3 2.677380282	4 2.774160305	5 2.826910112	6 2.895527307	7 3.291849126	3.4381/40/6		10 5.555955902	3 769213483		က	15 3.91422895	16 4.027193639	17 4.052192661								25 5.532483349		.C	28 5.96996286		30 6.054284369		32 6.112686145		34 6.166306064	•	36 6.282013673	0			40 6.507468477	
	;	Cummulative _{In} Frequency	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.255	0.35	0.375	0.4	0.425	0.45	0.475	0.5	0.525	0.55	0.575	9.0	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	-	
		lb Hg/TBtu	3.55556682	4.167836364	3.291849126	3,876970803	4.027193639	4.14717033	3.91422895	3.803755825	4.371987121	3.438174078	4.052192661	3,53,593,5962	4 320551978	2 895527307	2.677380282	2.826910112	3 523960489	2,622420263	2 652474419	2.774160305	5.537752381	5.532483349	5.537752381	6,112686145	5.977474654	6.296660194	6.054284369	5.96996286	6.188306064	6.129313632	6.111834601	6.20024108	4.763867041	4.728447955	4.864063098	6.29971831	6,507468477	6,305639098	6.282615675	
		CI(ppm)	74	62	83	66	108	141	106	134	123	121	125	116	20	141	158	115	103	8 6	127	76	88	87	. &	107	82	64	108	135	87	26	84	114	106	105	72	72	63	119	75	
BFTA	0.5591	Hg(ppm)	0.069	0.082	0.064	0.076	0.077	0.081	0.074	0.073	0.085	0.065	0.079	0.067	0.072	0.004	0.053	0.054	0.067	0.00	0.00	0.03	0.002	0.104	101.0	0.134	0.116	0.116	0.115	0.115	0.115	0.115	0.115	0.115	0.091	0.091	0.091	0.12	0.12	0.12	0.119	
Stanton 1	0	H (lb/Btu)	10850	11000	10870	10960	10690	10920	10570	10730	10870	10570	10900	10600	10680	108/0	10620	10630	10690	10030	10000	10730	10400	10300	10500	10610	10850	10300	10620	10770	10390	10490	10520	10370	10680	10760	10460	10650	10330	10810	10590	

Graph Title Stanton 1: 97.5th Percentile = 6.3056 lb Hg/TBt.

0.975

6.305639098 39 6.507468477 40 **97.5th Percentile 6.3056391**

Stanton 1 ALPHA



| | | 0.116981868 53 0.963636
0.1189768 54 0.981818 | 97.5th Percentile 0.1182287 | | | | | | | |

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2 0.053160642 | 3 0.058949625 | | | | 7 0.001 000000 | 9 0.06944444 | 10 0.074571216 | 11 0.075728891 |

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 | U | | 48 0.09941299 | | | |
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.0363636 | 054545455 | .0727273 | .090909091 | ,109090909 | .12/2/2/2/ | . 143434343 | .181818182 | 0.2 | 1,218181818

 | 1,236363636 | 1.254545455 | 32/2/2/2/3 | 30909091
 | 327272727 | 345454545 | 363636364 | 3.381818182

 | 6.4 | 0.4181818 | 0.436363636 | 0.454545455 | 0,490909091
 | 606060609 | 0.527272727 | 0.545454545 | 0.563636364 | 0.581818182

 | 0.0 | 0.6363636 | 0.654545455 | 0.672727273 | 0.590909091 | 0.7272727
 | 0.745454545 | 0.763636364
 | 0.781818182 | 0.0
 | 0.836363636 | 0.8545455 | 0.872727273 | 0.890909091 | 606060606 | 0.927272727 | 0.94545455
0.063636364
 | 0.963636364 | - |
| | Cui
Ib Hg/TBtu | - | | | | | | | | |

 | 0.024703557 (| | |
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 | 0.116981868 | 0.083503433 | 0,080921554 | 0.111737272 | 0.118996106

 | 0.058949625 | 0.096562379 | 0.081777949 | 0.089445438 | 0.10/80/535 | 0.065234845
 | 0.083927822 | 0.096270774
 | 0.093614505 | 0.078988942
 | 0.09710173 | 0.063305052 | 0.076870516 | 0.085910653 | 0.079707427 | 0,075728891 | 0.082108902
 | 0.1189/68 | 0.090030326 |
| | CI(ppm) | | | | | | | | | |

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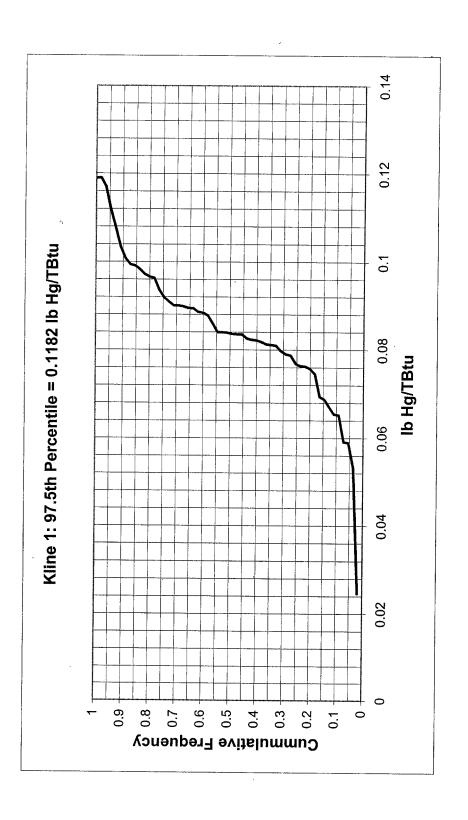
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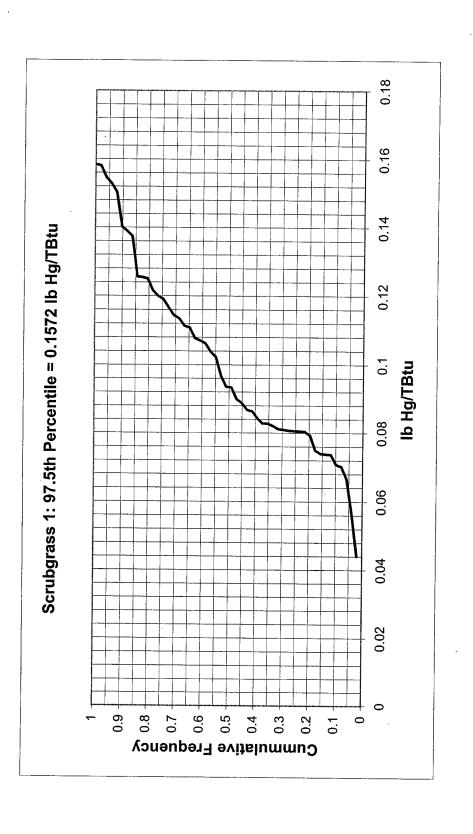
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| | 0 0.0025 | 0 0.0025 Hdropm Clippm Ib Hg/TBtu Cummulative Index Sorted Ib Hg/TBtu | 0 0.0025 1) Hg(ppm) Cl(ppm) Ib Hg/TBtu Frequency Index Sorted Ib Hg/TBtu 0.116991868 5238 0.16 100 0.07585025 0.019181818 1 0.024703557 0.1189768 | 0 0.0025 Hg(ppm) Cl(ppm) lb Hg/TBtu Frequency Index Sorted lb Hg/TBtu Prequency 0.024703657 5238 0.16 100 0.09913142 0.036938368 2 0.05849625 97.5th Percentile | 0 Colores Cummulative Index Sorted lb Hg/TBtu Cummulative Index Sorted lb Hg/TBtu 0.146981868 5238 0.16 100 0.076365025 0.01481818 1 0.024703557 0.1189768 5296 0.21 100 0.09951342 0.03636368 2 0.05849625 97.5th Percentile 5092 0.17 100 0.08837392 0.054345455 3 0.0598949625 97.5th Percentile | 0 Control Cummulative Index Sorted lb Hg/TBtu Hg(ppm) Cl(ppm) lb Hg/TBtu Frequency 1 0.024703557 5238 0.16 100 0.076365025 0.018181818 1 0.024703557 5296 0.21 100 0.09913142 0.036363536 2 0.05849625 5092 0.18 100 0.07824857 0.059090991 5 0.05534845 | 0 Clope Clippm Index Cummulative Index Sorted lb Hg/TBtu 0.04403857 0.116981868 5238 0.16 100 0.076365025 0.0434181818 1 0.04318049 0.014189768 5296 0.21 100 0.076365025 0.054545455 3 0.058949625 97.5th Percentile 5230 0.18 10 0.08837392 0.054545455 3 0.058949625 97.5th Percentile 5230 0.16 100 0.07624857 0.099909091 5 0.0659457266 Graph Title 5347 0.14 0.065457266 0.009909099 6 0.065457266 Graph Title | 0 0.0025 Cummulative Index Sorted lb Hg/TBtu 0.116981868 0.116981868 5236 0.21 100 0.076365025 0.018181818 1 0.024703557 0.116991868 5032 0.21 100 0.09913142 0.036365636 2 0.0534166642 0.1189768 5032 0.18 100 0.09913142 0.036364645 3 0.056349625 0.1189768 5032 0.17 100 0.039128196 0.07624845 0.0564518929 4 0.056234845 Graph Title 5246 0.14 100 0.07624857 0.109099999 6 0.065347286 Graph Title 5347 0.17 100 0.07624817452 0.12727272 7 0.067698365 Graph Title | 0 0.0025 Cultumulative Index Sorted lb Hg/TBtu 0.116981868 0.024703657 0.116981868 0.016 | 0 Clope Long Chipe Lip Hg/TBtu Chaquency Index Sorted lb Hg/TBtu 0.0145981868 5236 0.21 100 0.076356025 0.016181818 1 0.024703657 0.0145981868 5296 0.21 100 0.076356326 0.016181818 1 0.024703657 0.0145981868 5292 0.21 100 0.076356326 0.016181818 1 0.05496642 0.015381868 5230 0.14 100 0.08176195 0.054545455 3 0.0563469625 97.5th Percentile 5246 0.16 100 0.07674857 0.090909099 5 0.06534685 Graph Title 5347 0.14 100 0.07647462 0.109090909 6 0.065467766 Graph Title 5382 0.19 100 0.078747462 0.14545446 0.06444444 Graph Title 5384 0.16 0.00 0.078747462 0.145454486 0.06444444 0.06444444 60 0.00 0.00 | 0 CLODE CHORDINI ID Hg/TBtu CHUMUlative Index Sorted Ib Hg/TBtu 0.024703567 0.116981868 5238 0.24 100 0.076356725 0.016181818 1 0.024703567 0.116981868 5296 0.24 100 0.076365025 0.016181818 1 0.024703667 0.1189768 5296 0.24 0.01 0.03937392 0.054545455 3 0.05898652 0.1189768 520 0.14 100 0.08126196 0.072727273 4 0.0583485 0.055457266 0.056457266 5347 0.14 100 0.078747452 0.109090909 6 0.065467266 Graph Title 5387 0.19 100 0.078747452 0.12727277 7 0.06708365 6 0.0644444 5384 0.16 100 0.078545456 0.145454546 8 0.06944444 6 0.06444444 6 0.16 0.10 0.078778776 0.183868348 0.184545454 0.078728891 <td< th=""><th>0 CLODE CHIPPIN CHIPPI</th><th>0 CLOCK CHIPPIN In Hg/TB tu Cummulative Index Sorted Ib Hg/TB tu CO.04703657 O.116981868 5238 0.16 100 0.076365025 0.018181818 1 0.024703657 0.116981868 5296 0.16 100 0.078363636 0.064545455 3 0.05894625 0.1189788 5292 0.18 100 0.08126196 0.054545455 3 0.05894625 0.1189788 5292 0.17 100 0.08126196 0.072727273 4 0.05894625 0.1189788 5294 0.14 0.00 0.074574465 0.09099099 5 0.065457266 0.046745766 5387 0.14 0.0 0.07874442 0.145454546 9 0.06778794 0.06778794 5384 0.16 0.078747456 0.145454546 0.067787894 0.067787894 0.067787894 5173 0.11 0.00 0.078787894 0.145454546 0.067787894 0.076788898 5173 0.14 0.00</th><th>0 CLODES CHIPPINI In Hg/TBtu Cummulative Index Sorted Ib Hg/TBtu C.0.16981868 5238 0.16 0.076365025 0.036363836 0.056363836 2 0.0583160642 0.116981868 5092 0.18 10 0.07837392 0.058363836 3 0.058948625 0.1189788 5092 0.18 10 0.08126195 0.077272733 3 0.058948625 0.1189788 5092 0.18 10 0.08126195 0.0772727273 4 0.058128465 Graph Title 5347 0.14 100 0.08126195 0.078772727 7 0.067363865 Graph Title 5387 0.14 100 0.078747452 0.12727272 7 0.06716794 Graph Title 5387 0.14 100 0.078747452 0.124545456 9 0.067477216 Graph Title 5182 0.14 100 0.0787747452 0.124545456 9 0.06777716 Graph Title 5182 0.14 <</th><th>0 0.0025 Culpmn Ib Hg/TBtu Cummulative Index Sorted lb Hg/TBtu 0.116981868 5238 0.21 100 0.076365025 0.018181818 1 0.024703657 0.116981868 5092 0.21 100 0.076365025 0.018181818 1 0.024703657 0.1169768 5092 0.21 100 0.09913142 0.038368636 0.06446455
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	0 154700222 49 0.960784	5.5	0 4574533		Scrubdrass 1: 97.5th Percentile = 0.1572 lb Hg/TBtu																																											
	Sorted to right bit	1 0.044132397	2 0.056424371	3 0.066726897		5 0.070827142	7 0.073795787	8 0.073973572		10 0.079302661	11 0.080380532		13 0.080580902	14 0.00000000000000000000000000000000000		2	18 0.082768999	19 0.082822869	20 0.084241952	21 0.086351742		0		25 0.093309438			29 0.103880983					34 0.111318242	35 0.113466636						42 0.125427594	43 0.125609445	C					50 0.158083832	-	
	ludex																																															
Cummulative	Frequency	0.019607843	0.039215686	0.058823529	0.078431373	0.098039216	0.117647059	0.157254302	0.176470588	0.196078431	0.215686275	0.235294118	0.254901961	0.274509804	0.294117647	0.313/2549	0.333333333	0.332341170	0.392156863	0.411764706	0.431372549	0.450980392	0.470588235	0,490196078	0.509803922	0.529411765	0.549019608	0.50802/451	0.506233234	0.62745098	0.647058824	0.666666667	0.68627451	0.705882353	0.725490196	0.764705882	0.784313725	0.803921569	0.823529412	0.843137255	0.862745098	0.002332341	0.901960764	0.941176471	0.960784314	0.980392157	τ	
_	lb Hg/TBtu	0.096706469	0,082003662	0,113486638	0.080670508	0,106300201	0.110827302	0,152882895	0,093539789	0.086351742	0.084241952	0.082768999	0.119969914	0.140198827	0.125427594	0.079302661	0.111318242	0.093309438	0.080580900	0.000000000	0.102391726	0.13742767	0.125066881	0.074977061	0.070827142	0.070203979	0.107803504	0.086761315	0.11003/213	0.103880983	0.082822869	0.080956762	0.073682855	0.073973572	0.056424371	0.073735757	0.044132397	0.080480794	0.121584699	0.125609443	0.080380532	0.138904654	0.150345216	0.119066249	0.114410839	0.154700222	0.08988764	
	CI(ppm)	000	8 06	1200	897	266	266	1295	1047	064	1278	1621	1247	1387	1535	1319	1597	1696	1435	1410	1828	1418	1350	1022	1083	1209	1306	1201	2120	1709	1923	1531	1398	2774	1712	1789	1650	1266	1058	1607	2003	1008	1172	1309	2123	1055	1607	
0.0011	Hg(ppm) CI(120	0.57	0.83	0.56	0.77	0.71	1.01	0.67	1.08	0.00	5.0	0.87	-	6.0	0.55	0.76	0.71	0.63	0.57	1.00	0.72	0.85	0.52	0.52	0,51	8.0	0.65	0.84	0.73	0.00	0.56	0.52	0.57	0.41	0.5	0.47	0.56	0.89	0.89	0.53	0.89			0.75	0.95	0.64	
0	H (lb/Btu)		7621	8045	7636	2962	7047	7267	7879	7515	197/	1104 6645	7257	7846	7893	7629	7510	8370	7807	7781	7499	7604	7476	7629	8076	7991	8163	8241	7922	7730	7592	7609	.7763	8476	7993	7453	7748	7654	8052	7794	7253	7048	7097	7668	7704	6755	7832	

Scrubgrass 1
ALPHA

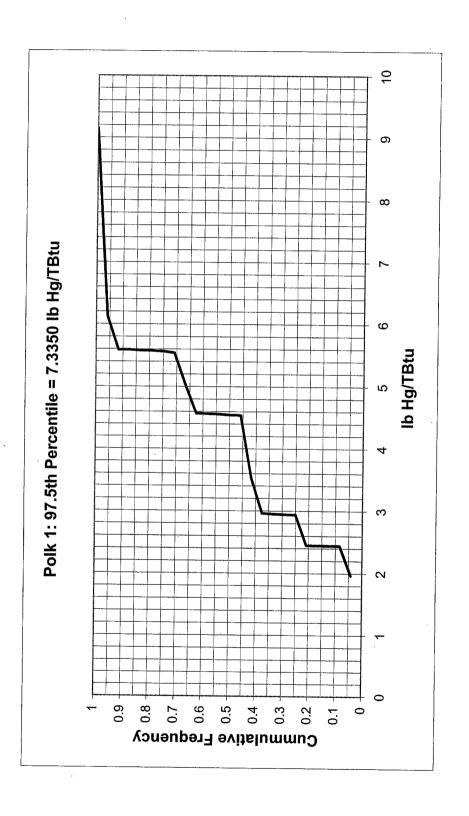


- 45							
ALPHA	BETA 0.6601						
H (lb/Btu)	Hg(ppm)	CI(ppm)	lb Hg/TBtu	Cummulative	Index	Sorted Ib Hg/TBtu	/TBtu
12031	0 12	1000	6.125744335	0.041666667		1 1.9673	.967364578
12987	0.18	1100	9.148995149	0.08333333		2 2.44	2.4413788
12996	0.11	1100	5,587180671	0.125		3 2.4449	2.444995926
12997	0.09	800	4.570977918	0.166666667		4 2.4468	2.446808511
12998	0.11	006	5.586320972	0.208333333		5 2.4489	2.448987163
13009	0.09	009	4.566761473	0.25		6 2.9381	2.938130564
13022	0.11	1000	5.576025188	0.291666667		7 2.94293357	933571
13029	0.11	800	5.573029396	0.33333333	•	8 2.5	2.950827
13036	0.09	1000	4.557302854	0.375		9 2.9625	2.962525245
13053	0.11	1100	5.562782502	0.416666667	_	10 3.5291	3.529137707
13074	0.00	1000	4.544056907	0.458333333	_	1 4.539	4.53919621
13088	0.09	1100	4.53919621	0.5	_	12 4.5440	4.544056907
13093	0.07	1100	3.529137707	0.541666667	Υ	13 4,5573	4,557302854
13106	0.11	006	5.540286892	0.58333333		14 4.5667	4.566761473
13114	0.1	1000	5.033551929	0.625		15 4.5709	4.570977918
13369	0.00	1000	2.962525245	0.666666667	_	16 5.033	5.033551929
13421	0.04	800	1.967364578	0.708333333	-	17 5.5402	5.540286892
13422	90.0	1000	2.950827	0.75	ν-		5.562782502
13458	0.06	1000	2.942933571	0.791666667	•	19 5.5730	5.573029396
13477	0.05	1200	2.448987163	0.83333333			5.576025188
13480	0.00	1000	2.938130564	0.875	.,		5.586320972
13489	0.05	1200	2.446808511	0.916666667	•	22 5.587	5.587180671
13499	0.05	1100	2.444995926	0.958333333	•		6.125744335
13519	0.05	1300	2.4413788	_	•	24 9.1489	9.148995149

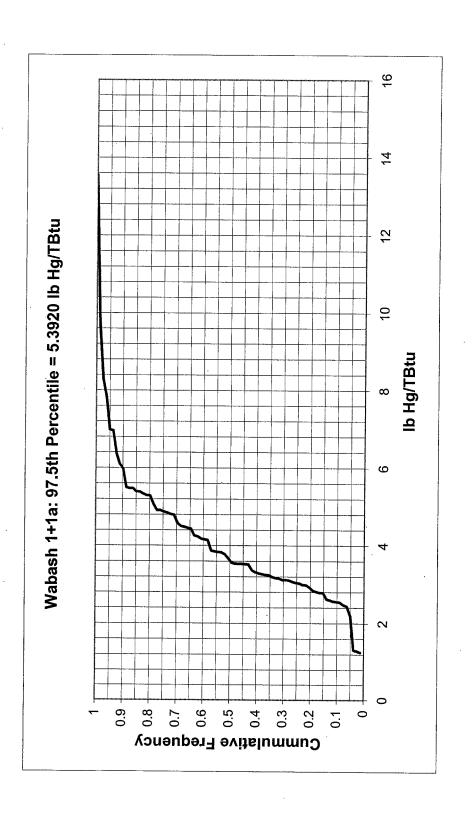
Graph Title Polk 1: 97.5th Percentile = 7.3350 lb Hg/TBtu

6.125744335 23 0.958333 9.148995149 24 17.5th Percentile 7.3350447

Polk 1 ALPHA



	8 291881097 77 0:974684 9.779022832 78 0:987342	97.5th Percentile 5.3919547	Graph Title Wabash 1+1a: 97.5th Percentile = 5.3920 lb Hg/TBlu							-																*																				
Sorted to Hg/TBtu		3 1.317258883		7 2.540246294				14 2.812552107									29 3 248788444	., .,	32 3,318281718 33 3,368762677		., .,	.,	39 3.565260059	., .,			45 3.86887253 46 4.143946986			. 4	52 4.456266709 53 4.483893369	44	56 4,789804395		60 4.911586793									75 6.980034213		78 9.779022832 79 13.55094561
Mex																																											,			
Cummulative	0.012658228 0.05318456	0.037974684	0.063291139	0.088607595	0.101265623	0.126582278	0.151898734	0.17721519	0.202531646	0.227848101	0.240506329	0,265822785	0.278481013	0.303797468	0.329113924	0.35443038	0.367088608	0.379740835	0.405063291	0.430379747	0.443037975	0.46835443	0.493670888	0.506329114	0.53164557	0.556962025	0,569620253	0.594936709	0.620253165	0.64556962	0.658227848	0.683544304	0.708860759	0.734177215	0.759493671	0.772151899	0.797468354	0.82278481	0.835443038	0.860759494	0.886075949	0.898734177	0.924050633	0.949367089	0.974683544	0.987341772
lb Hg/TBtu	4.911586793	5.470225979	6,100659824	5.386168133	5.331207234 6.375464321	4.143946986 3.850160746	3.522247209	1.292322426.	3.166094011	4.505867388	4.177377361	4.262833676	3.196872779	4,456266709	4.433953998	3.5357763	6.960018758	3,532184716	3,531632813	4.580126404	3 368762677	3.105093604	2.788233918	2.788233918 3.523374903	9.779022832	3.676839237	3.832031432	2.622434701	2.200279525	2.980770423	3.86887253	5.382965692	3.027901578	2.553707709	3.067527163	2.599198706 3.117837338	5 500976848	3.318281718	3 780847471	2,475396551	5.29438519	2.564619127 5.979389486	4.789804395	5.280216721	4.483893369	4.874564278 4.808195383
Ci(ppm)	317	358	666.7	531.2	623.7 697.8	520.5 492.2	343.7	442.2	476.8	498.3	491.9	532.5 480.4	345.3	492	522.9	389	426.5	338	450 318 9	478.6	406 692	462	366 591	252 745	322	464	400.9 352	384	832	467	499 474	461.7 434	362	526	712	399	418.1	532.6	260	578	188	347.2	281.7	758	291	30c 523
BETA 0.6747 Hg(ppm)	0.084	0 094	0.111	0.098	0.097	0.076	0.065	0.024	0.059	0.084	0 078	0.00	0.09	0.084	0.084	0.067	0.132	0.267	0.067	0 087	0.064	0.059	0.053	0.053	0.186	0.07	0.073	0.05	0.042	0.057	0.024	0.103	0.056	0.049	0.059	9.0g	0.106	0.064	0.16	0.048	0.103	0.05	0.094	20.0	0.089	0.097
Wabash 1+1a ALPHA 0 H (Ib/Btu)	11539	11594	12276	12276	12276 12278	12374 12442	12451	12530	12573	12578	12598	12662	12663 ~ 12666	12718	12782	12785	12796	12798	12800	12816	12818 12820	12820	12823	12825 12830	12833	12845	12853 12856	12864	12879	12902	12903 12905	12910 12912	12914	12946	12904	12979	13001	13013	13019	13083	13126	13154	13241	13289	13392	13420



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Fabric

								Calculated	
-	i i	Cl (ppm) Fremoved	CI (ppm)	Fremoved	Z	×	χ̈́χ	Fremoved from 2	(Fr _{Cal.} -Fr _{Mea.)} ²
רומון	Í	500	×	(Control)	: }-			Parameter Fit	
Stanton Station	4	- Innite	28 33333	0.0147	0.014809116	802.7777778 0.41959161	0.41959161	0.229881023	0.046302873
Stallful Station	2 ←	etinoi I	100	0.3824	0.48191428	10000	48.191428	0.34051589	0.001754279
Coyote County Congrating Digat	- ६	Subbituminous	102	0.0446	0.045625178	10404	4.65376816	0.343363978	0.089259915
Antology Valley Station	2 2	Lignite	107	0,3333	0.405415109	11449	43.3794167	0.350430502	0.000293454
American valley station	3 2	Subhituminous	116	0.336	0,40947313	13611.11111	47.7718651	0.363877534	0.000777157
Cialg	\$ 5	Subhituminous		0.3183		16044,44444		0.377495389	0.003504094
Nawilide Off Discharged Down Fooility	<u>.</u>	Bitiminous		0.9736	• •		3333.94826	0.887523631	0.007409141
SEI - DIICIMOOU FOWEL LAGIILY	E Z	Bituminous	1500	0.9752	ניז		5545.36744	0.968124151	5.00676E-05
Logari Generaling Flank	- - - - - - - - - - - - - - - - - - -	Bituminous	1700	0.9366		2890000	4689.09541	0.979322476	0.00182521
Moderning Cooperation Facility	GFN TEN 1	Bifuminous	1892.667	0.9881	7	3582187.111	8386.81648	0.986372152	2.98546E-06
MECKIETIDALY COYCLISTATION I ACHILY									
				!					
Fabric Filter (Baghouse) with Spray Dryer Absorber	Dryer At		- Bituminous only	nly				Calculated	

(Fr _{Cal.} -Fr _{Mea.)} ²	0.007409141 5.00676E-05 0.00182521 2.98546E-06
Calculated Fremoved from 2 Parameter Fit	0.887523631 0.968124151 0.979322476 0.986372152
X,Y,	3333.94826 5545.36744 4689.09541 8386.81648
× ×	841500.4444 2250000 2890000 3582187.111
-LN(1-F _{removed}) "Y _i "	3.634391269 3.696911626 2.758291418 4.431216879
F _{removed} (Control)	0.9736 0.9752 0.9366 0.9881
CI (ppm) "X _i "	917.3333 1500 1700 1892.667
Tested Coal	Bituminous Bituminous Bituminous Bituminous
Unit	1 GEN 1 2B GEN 1
Plant	SEI - Birchwood Power Facility Logan Generating Plant Dwayne Collier Battle Cogeneration Facility Mecklenburg Cogeneration Facility

Fabric Filter (Baghouse) with Spray Dryer Absorber - Bituminous only - Top 12% only

	(Fr _{Cal.} -Fr _{Mea.)} ²	0.007409141 0.00182521 2.98546E-06
Coloniated	Fremoved from 2 Parameter Fit	0.887523631 0.979322476 0.986372152
	X ⁱ X	3333.94826 4689.09541 8386.81648
	×,	841500.4444 3333.94826 2890000 4689.09541 3582187.111 8386.81648
f	-LN(1-Fremoved)	3.634391269 2.758291418 4.431216879
Ditaillitode only - 10p 12/9 cm	Fremoved (Control)	0.9736 0.9366 0.9881
o enomi	CI (ppm) "X _i "	917.3333 1700 1892.667
•	Tested Coal	Bituminous Bituminous Bituminous
D Set AD	Unit	1 2B GEN 1
Fabric Filter (bagnouse) with Spray Dryer Absorber	Plant	SEI - Birchwood Power Facility Dwayne Collier Battle Cogeneration Facility Mecklenburg Cogeneration Facility

A="ALPHA"	0.002164007	Removal/Cl Curve	CI Curve
മ	0.19989674	CI (ppm)	Fremove
Minimum Removal	0.181184701	0	0.181184701
EXP(-B)="BETA"	0.818815299	5	0.189996551
Residual Variance	0.018897397	10	0.198713571
Total Variance	0.157137686	15	0.207336781
Residual/Total	0.12026012	20	0.21586719
בר : 	0.966795037	25	0.224305797
R**2	0.934692644	30	0.232653591
		35	0.240911548
		. 40	0.249080636
		45	0.25716181
A="ALPHA"	0.000258045	Removal/Cl Curve	CI Curve
82	3.242490702	CI (ppm)	Fremove
Minimum Removal	0.960933529	0	0.181184701
EXP(-B)="BETA"	0.039066471	5	0.189996551
Residual Variance	0.004643702	10	0.198713571
Total Variance	0.000490869	15	0.207336781
Residual/Total	9.460162688	20	0.21586719
~	-0.136906342	25	0.224305797
K***2	0.018743346	30	0.232653591
		35	0.240911548
		40	0.249080636
		45	0.25716181
		20	0.265156017
A= ALPHA B	0.000258465 3.219406923	55	0.273064193
Minimum Removal	0.960021238	99	0.200061203
EXP(-B)="BETA"	0.039978762	02	0.296281741
Residual Variance	0.004618668	75	0.30385495

nce	otal		
Total Variar	Residual/To	œ	R**2

0.00070525 6.548980301 -0.182104685 0.033162116

0.311346659	.32608907	0.333341506	0.3405	.34761	.35463386	0.361579103	0.368449602	0.375246162	0.3819695	0.388620642	0.395200128	.40170880	40814744	0,414516785	0.420817584	0.427050575	0.433216489	0.439316047	0.445349964	0.451318945	0.45722369	0.463064889	0.468843228	0.474559381	0.480214019	0.485807804	49134	0.496815424	10	.507587	0.512886598	1812	4	0.528444477	0.533519219	3853934	0.543505453	4841811	532779	0.558085398
. 08	8 8	95	100	105	110	115		125		135	. 140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285

0.562841153 0.572199675 0.572199675 0.572199675 0.581357853 0.585863157 0.590319976 0.590319976 0.590319976 0.590319976 0.603404716 0.603404716 0.603404716 0.6024290529 0.61894869 0.61894869 0.61894869 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.624290529 0.632333567 0.624290529 0.632333567 0.624290529 0.632333567 0.624290539 0.632333567 0.62820365 0.632410254 0.65448593 0.67358952 0.67358993 0.697398881 0.697398881 0.700655385 0.700655385 0.700655385 0.700655385 0.703334699 0.71021613 0.71021613	
290 300 310 310 315 320 320 335 330 335 345 345 345 345 346 345 346 345 346 347 347 347 347 347 347 347 347 347 347	

0.722490481 0.725476957 0.728431294 0.731353836 0.734244928 0.734244928 0.732934106 0.739934106 0.742732859 0.745049695 0.756281264 0.756281264 0.756281264 0.756804937 0.76604437 0.76604437 0.76490353 0.774058841 0.774058841 0.7789559994 0.77885699 0.7783629011 0.7785957532 0.788260994 0.788260994 0.788260994 0.788260994	0.795023711 0.795023711 0.795023711 0.799411761 0.801570433 0.803705874 0.805818334 0.805818334 0.805975297 0.812020287 0.81404327 0.818024157 0.819982528
500 505 515 510 520 520 535 535 550 555 560 585 580 585 590 600 610 615 630	640 640 650 655 660 670 675 680 680 690 700

0.82383627	8276075 8276075	0.829462	86	8331135	.83490952	.83668618	.838443	.84018233	.84190224	.84360365	.84528674	0.646951721	0.850228117	.85183991	0.853434374	116	7199	.85811	.8596424	ര	2647	0.864125311	0.865587555	0.867034062	86846500	0.869880544	.87128085	0.872666089	0.8/4036419	97672200	.01013299 0.8780595	793718	.8806700	0.881954207	0.883224581	88.	.8857244	0.886954262
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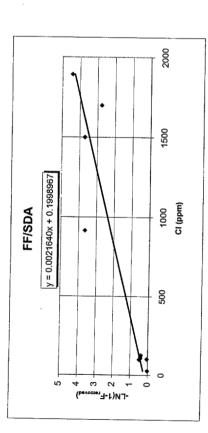
.88817082 0.889374 .89056482 .89174253 .89290756	0.895200138 0.896327983 0.897443671 0.898547352 0.899639156 0.9071921 0.9071921 0.902844573 0.903890132 0.904924438 0.905947613	0.907961049 0.908951545 0.909931382 0.911859535 0.912808077 0.913746411 0.914674647 0.915592893 0.916501258	0.917399847 0.918288765 0.919168118 0.920038007 0.920898534 0.922591907 0.922591907 0.92342495 0.924249028 0.925664238 0.925870675 0.926668433 0.927457606
999944	950 965 965 975 986 985 995 1000		1066 1070 1070 1080 1085 1100 1110 1120

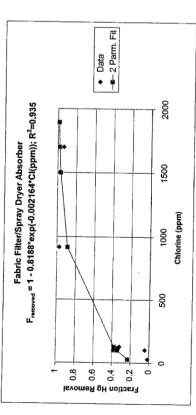
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£ 4	1135	1140	15	1155	1160	7	1170	1175	1180		65	1195	1200	1205 1210	I N	22	1225	$^{\circ}$	α	1240	\sim	S	1255	1260	1265	1270	1275	8	1285	1290	1295	1300	0	₹-	1315	\sim	S	S)	1335

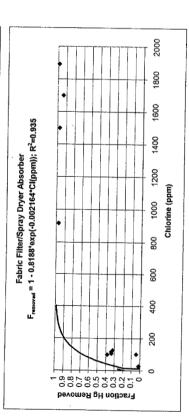
0.95493577 95542069 95590044 9568451 0.9573089 95776836 9587244 95867244	95999 95999 96042 96084 96168 96209 96209 96291 96330	0.964481668 0.964863906 0.96524203 0.965616085 0.965986115 0.966352162 0.96671427 0.967072482 0.967072483 0.967777381	0.968124151 0.96846719 0.968406537 0.969142232 0.969474314 0.969802822 0.970127796 0.970449271 0.970767288
1340 1345 1350 1350 1365 1370 1386	$\frac{6}{2}$ $\frac{6}$	1450 1455 1460 1470 1480 1490	1500 1505 1510 1515 1520 1525 1535 1540

97	\sim	0.972005495	0.972306764	0.97260479	0.97289961	.97319	.97347976	.9737	0.974047498	0.974326792	0.974603079	97	0.975146766	0.97541423	0.975678814	0.975940552	0.976199473	0.976455607	9/	0.976959636	0.97720759	0.977452875	0.97769552	.97793	0.978173006	840	0.978640269	88701	~	.97	0.979545002	0.979765132	9226.	0.980198312	7	0.980622219	0.980830757	0.981037051	0.981241124	.98144	0.981642707
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0.981840263 0.982035692 0.982229019 0.982420265 0.982609453 0.982796605	98316488 98334606 98352528 98370258	0.984051472 0.984223106 0.984392892 0.984560851 0.984727003 0.984891366	0.985053961 0.985214806 0.98537392 0.98531321 0.985687029 0.985941061	0.98614417 0.986293282 0.98644079 0.98658671 0.98673106 0.98673106 0.987715116 0.9877154856 0.9877154856
1760 1765 1770 1775 1780 1785	1795 1795 1800 1810 1815	1820 1825 1830 1835 1840		1885 1890 1895 1900 1905 1915 1920 1925







Combustion
Bed
h Fluidized
with
(Baghouse)
Filter
Fabric

rabile filler (Bayllouse) with Huluized Bed Collibusion	יומולכת הפת							Calculated F	÷
Plant name	Unit name	Tested Coal	Cl in test coal (ppm) ="X _i "	×,	Fremove (Control)	Fremove (Control) -LN(1-Fremove) ="Y ₁ "	Χ _i Υ _i	from 2 Parameter Fit	(Fr _{mea.} -Fr _{caic.)²}
AES Hawaii, Inc. TNP-One	A V	Subbituminous Lignite	45.66666667 133.3333333	2085.444444 17777.77778	0.5252 0.5698	0.744861616 0.843505062		0.767116223	
Kline Township Cogen Facility Stockton Cogen Company	GEN1 GEN1	Waste Bituminous Bituminous/Petroleum Coke	266.6666667 583.333333	71111.11111 340277.778	0.9975	5.991464547 2.503478035	1597.723879 1460.362187 4087.46706	0.948873364 0.994177539 0.994806662	0.00236455 0.005772586 1.67554F-05
Scrubgrass Generating Company L. P.	GEN1	Waste Bituminous	009	360000	0.9989	6.812445099	4087.46706	0.994806662	1.67334E-03
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        RennovalCO Curve

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        7379-16972
        CI (ppm)
        Feware

        SUMA*
        7379-16972
        CI (ppm)
        Feware

        SUMA*
        7322-13466
        20
        0.70251466

        A
        A
        0.006807787
        30
        0.70251466

        A
        A
        0.006807787
        30
        0.70251466

        A
        A
        0.006807787
        30
        0.772627466

        A
        0.006807787
        30
        0.772627466

        A
        0.006807787
        40
        0.772627466

        A
        0.006807787
        40
        0.772627466

        B
        1.14390649
        50
        0.77362762

        Colstation
        0.006807787
        60
        0.77362762

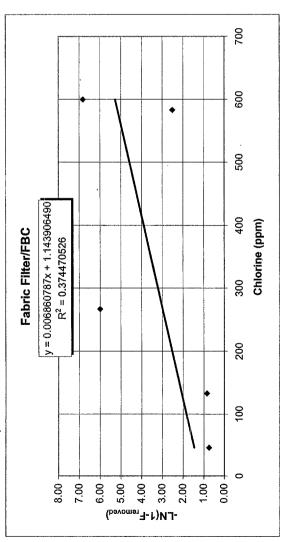
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        10
        0.8246406

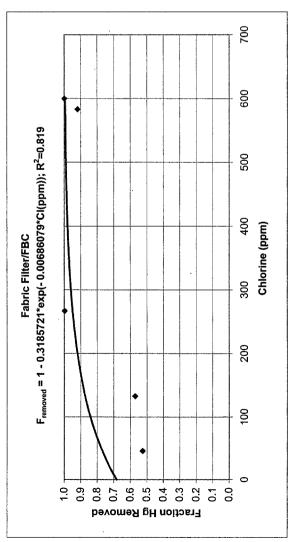
        Rsidual/Colail
        0.06547744
        10
        0.82467466

        R
        0.065477445
        10
        0.82467466

        R
        0.065774456
        10
        0.92466016

        R
        0.0660774
        10
        0.92466016
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Attachment

The attachment to this memo is contained in Docket A-92-55, Entry II-E-119, and is entitled:

Multivariable Method To Estimate The Mercury Emissions Of The Best-Performing Coal-Fired Utility Units Under The Most Adverse Circumstances Which Can Reasonably Be Expected To Recur. WEST Associates, Tucson, Arizona. March 4, 2003.