340-228-0619
Procedures for Hg Mass Emissions

$$M_{\text{time period}} = \sum_{h=1}^{n} M_h$$

Equation 1

Where:
$M_{\text{time period}}$ = Hg mass emissions for the given time period *i.e.*, quarter or year-to-date, rounded to the nearest thousandth, (ounces)
M_h = Hg mass emissions for the hour, rounded to three decimal places, (ounces)
n = the number of hours in the given time period (quarter or year-to-date)

340-228-0625
Specifications and Test Procedures for Total Vapor Phase Mercury CEMS

$$d = \frac{1}{n}\sum_{i=1}^{n} d_i$$

Equation 2

$$\sum_{i=1}^{n} d_i = \text{Algebraic summation of the individual differences } d_i.$$

Where:
n = number of data points

$$S_d = \left[\frac{\sum_{i=1}^{n} d_i^2 - \frac{\left[\sum_{i=1}^{n} d_i\right]^2}{n}}{n-1}\right]^{\frac{1}{2}}$$

Equation 3

$$CC = t_{0.975}\frac{S_d}{\sqrt{n}}$$

Equation 4

$$RA = \frac{\left[\left|\bar{d}\right| + \left|CC\right|\right]}{\overline{RM}} \times 100$$

Equation 5

Where:

$|\overline{d}|$ = Absolute value of the mean differences

$|CC|$ = Absolute value of the confidence coefficient

$R\overline{M}$ = Average RM value