

### NOx Dryer & RTO (As Left)

Actual:

$$39.73 \text{ ppm NOx} \times 1 \times 10^{-6} \times \frac{20.9}{20.9 - 3} \times \frac{8,710 \text{ dscf}}{\text{MMBTU}} \times \frac{1,050 \text{ MMBTU}}{\text{MMscf}} \times \frac{46 \frac{\text{lb NOx}}{\text{lbmol}}}{379 \frac{\text{scf}}{\text{lbmol}}} = \frac{51.49 \text{ lb}}{\text{MMscf}} \text{ NOx}$$

$$1.336 \times 10^7 \frac{\text{scf}}{\text{month}} \times \frac{\text{MMscf}}{1,000,000 \text{ scf}} \times 2 \text{ devices} = \frac{26.72 \text{ MMscf}}{\text{month}}$$

$$\frac{51.49 \text{ lb NOx}}{\text{MMscf}} \times \frac{26.72 \text{ MMscf}}{\text{month}} = \frac{1,375.81 \text{ lb NOx}}{\text{month}}$$

Rule 1147 Limit for the combined exhaust:

$$28.8 \text{ ppm NOx} \times 1 \times 10^{-6} \times \frac{20.9}{20.9 - 3} \times \frac{8,710 \text{ dscf}}{\text{MMBTU}} \times \frac{1,050 \text{ MMBTU}}{\text{MMscf}} \times \frac{46 \frac{\text{lb NOx}}{\text{lbmol}}}{379 \frac{\text{scf}}{\text{lbmol}}} = \frac{37.33 \text{ lb}}{\text{MMscf}} \text{ NOx}$$

$$\frac{26.72 \text{ MMscf}}{\text{month}} \times \frac{37.33 \text{ lb NOx}}{\text{MMscf}} = \frac{997.46 \text{ lb}}{\text{month}}$$

Difference:

$$\frac{1,375.81 \text{ lb NOx}}{\text{month}} - \frac{997.46 \text{ lb NOx}}{\text{month}} = \frac{378.35 \text{ lb NOx}}{\text{month}}$$

### CO Dryer & RTO (As Left)

Actual:

$$1,231 \text{ ppm CO} \times 1 \times 10^{-6} \times \frac{20.9}{20.9 - 3} \times \frac{8,710 \text{ dscf}}{\text{MMBTU}} \times \frac{1,050 \text{ MMBTU}}{\text{MMscf}} \times \frac{28 \frac{\text{lb CO}}{\text{lbmol}}}{379 \frac{\text{scf}}{\text{lbmol}}} = \frac{971.13 \text{ lb}}{\text{MMscf}} \text{ CO}$$

$$1.336 \times 10^7 \frac{\text{scf}}{\text{month}} \times \frac{\text{MMscf}}{1,000,000\text{scf}} \times 2 \text{ devices} = \frac{26.72 \text{ MMscf}}{\text{month}}$$

$$\frac{971.13 \text{ lb CO}}{\text{MMscf}} \times \frac{26.72 \text{ MMscf}}{\text{month}} = \frac{25,948 \text{ lb CO}}{\text{month}}$$

Rule 1147 Limit for the combined exhaust:

$$1,000 \text{ ppm NO}_x \times 1 \times 10^{-6} \times \frac{20.9}{20.9 - 3} \times \frac{8,710 \text{ dscf}}{\text{MMBTU}} \times \frac{1,050 \text{ MMBTU}}{\text{MMscf}} \times \frac{28 \frac{\text{lb CO}}{\text{lbmol}}}{379 \frac{\text{scf}}{\text{lbmol}}} = \frac{788.9 \text{ lb}}{\text{MMscf}} \text{ CO}$$

$$\frac{26.72 \text{ MMscf}}{\text{month}} \times \frac{788.9 \text{ lb CO}}{\text{MMscf}} = \frac{21,079 \text{ lb}}{\text{month}}$$

Difference:

$$\frac{25,948 \text{ lb CO}}{\text{month}} - \frac{21,079 \text{ lb CO}}{\text{month}} = \frac{4,869 \text{ lb CO}}{\text{month}}$$