Figure: 30 TAC §112.213(a)(1)(B)

$$SO_2 = H_2Smc \times \frac{Scc}{H_2Ssc} \times FFa \times \frac{Tsc}{Ta} \times \frac{Pa}{Psc} \times \frac{lb\ mole}{385.27\ scf} \times \frac{64.06\ lb\ SO_2}{lb\ mole}$$

Where:

SO_2 = Sulfur dioxide emissions in units of pounds per hour;

H_2Smc = monitored inlet hydrogen sulfide (H_2S) concentration in units of cubic feet of flare gas inlet stream sulfur compounds per 1,000,000 cubic feet of waste gas;

Scc = inlet sulfur compound concentration in units of cubic feet of waste gas inlet stream sulfur compounds per 1,000,000 cubic feet of flare gas derived in accordance with 40 CFR §60.107a(e)(2) methodology regardless of whether these requirements are otherwise applicable;

H_2Ssc = sampled H_2S concentration in units of cubic feet of waste gas inlet stream sulfur compounds per 1,000,000 cubic feet of flare gas;

FFa = inlet gas stream flow in units of actual cubic feet per hour;

Psc = regulatory standard condition pressure of 14.7 pounds per square inch (psia);

Pa = FFa measurement pressure in units of psia;

Tsc = regulatory standard condition temperature of 528 degrees Rankin; and

Ta = inlet stream actual temperature in degrees Rankin (the Tsc/Ta factor is used to convert FFa actual cubic feet to FFa standard cubic feet).