



Operational Parameters Stack Discharge Monitoring Reports

May, 2015

Stack Discharge Monitoring Reports are used to record operational data to monitor the performance of the oxidizer and treatment system. Oxygen (O₂), sulfur dioxide (SO₂), hydrogen sulfide (H₂S), carbon monoxide (CO), and total Volatile Organic Compounds (VOC) are measured at the effluent stack using field instruments. Field instruments are used to obtain real time data. DEP has established operational guidelines for the treatment system at the site to ensure the system is performing properly. The operational guidelines for the stack discharge are: SO₂ below 15 ppm and CO levels below 100 ppm. These numbers ensure that the system is destroying the H₂S, and effectively treating the sulfur dioxide that is formed in combustion. The operational guidelines for H₂S and VOC levels are expected to be essentially undetected (0.0 or 1.0 ppm). If there are sustained levels of H₂S or VOC, this would alert the operator of a potential treatment efficiency issue so that corrective measures can be taken. The pH reading is from the recirculation water in the scrubber and not from the stack. It's recorded on this sheet so that the operator can correlate the pH with the SO₂ reading.

