

# Michigan Chemical Plant - Chemical Processing

CMC Solutions, LLC. was retained by a chemical plant in the Michigan to install and evaluate a Predictive Emission Monitoring System (PEMS) under 40 CFR Part 75, Subpart E as an alternate monitoring system under Title IV of the Clean Air Act. The PEMS software (SmartCEMS® with Data elements) was installed onsite for predictive models for continuous monitoring on two units. One of these boiler units is monitored under Part 75.

The required 720 hours of data was collected during the first and second quarters of 2017. Over the observation period, Reference Method data was collected using the on-site Continuous Emission Monitoring System (CEMS). The CEMS underwent Quality Assurance procedures mandated under 40 CFR Part 75 throughout the period of collection, including an initial certification RATA completed December of 2016, performed by Air Compliance Testing, Inc. and submitted as Report Number 161210.2.0.

The SmartCEMS® PEMS was installed in 2017 to generate the compliance reports and predictive data required under Appendix D and E of Part 75, as well as under PS-16 of Part 60. A compliance RATA to satisfy Part 60 and Part 75 requirements was performed on the SmartCEMS® PEMS in Q3 of 2017. A total of 720 hours of PEMS predicted values were evaluated against the continuous emission monitoring data for nitrogen oxide emission rate as specified in Part 75.

**Facility Information:** R14-0027D

**DAS System:** SmartCEMS® with Data elements®

**History of Project Development:**

**November 2018**

Kick off Meeting

**Feb 2019**

Server Installed

**June 2019**

QA Manual Delivered

**Products:**



**01/25/2008**

The first model, which consisted of 7403 records, was run.

**PRODUCTS:**

