

Halifax, Nova Scotia Power Plant - Cogeneration

CAPACITY: 50.5 mmbTU

A Canadian Cogeneration company owns and operates two combustion turbines, known as Unit 4 and Unit 5, in Halifax, Nova Scotia. The turbines both combust natural gas and emissions are monitored by a predictive emissions monitoring system (PEMS). CMC Solutions, L.L.C. was retained by the company in 2010 to provide this alternative monitoring system through the SmartCEMS®-75 PEMS application. The PEMS is certified as a continuous compliance monitoring system under Title IV of the Clean Air Act as promulgated.

Units 4 and 5 are subject to the PEMS performance standards identified in U.S. EPA 40 CFR Part 75, Subpart E. Federal Regulations promulgated in Title IV of the Clean Air Act Amendments of 1990 are applicable to these units. These regulations specify emission limitations for particulate matter, sulfur dioxide, and nitrogen oxides. The regulations require installation, calibration, maintenance, and operation of a data acquisition system for documentation and reporting of operating data and nitrogen oxides emission rates

Training for the PEMS and DAHS was provided by CMC Solutions on basic operation and management of the two applications. In addition, CMC provided site-specific training on the total system design and configuration, quality assurance program, and preventative maintenance required at the site. Training occurred during the certification support period in an effort to minimize mobilization costs.

DAS System: None

History of Project Development:

01/01/2010

CMC Solutions was retained. Model training data was collected.

Q1 2013

Training was issued on site for model development.

Q3 2013

Both Units were certified

01/01/2014

Technical support provided