



Conestoga-Rovers & Associates Project Summary

KEY PROJECT ELEMENTS

- Major Non-Attainment NSR/PSD Permit
- Dispersion Modeling
- Top-down BACT Analysis
- Air Quality Impact Analysis
- Toxic Analysis
- Permit Negotiations
- Stack Testing
- PEMS
- MAERS Reporting
- Title V ROP
- Wastewater Reporting
- Mercury Minimization Plan
- Mercury Reduction
- Alternate Fuel Analysis

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ENVIRONMENTAL COMPLIANCE AND AIR PERMITTING DETROIT, MICHIGAN



CLIENT: DETROIT THERMAL LLC.
DURATION: ONGOING
COST: < \$175,000

CRA was retained by Detroit Thermal to prepare and submit a Permit to Install (PTI) application and obtain a permit for installation of a new packaged boiler system at the historic Beacon Heating Plant located in Detroit, Michigan. The packaged boiler system consisted of three 150 MMBtu/hour boilers that were capable of burning both natural gas and fuel oil.

The Beacon Plant was an existing major source for several criteria pollutants, including nitrogen oxides, carbon monoxide, sulfur dioxide, and particulate matter. The addition of the new boilers was a major modification and this modification was subject to a major New Source Review. The Beacon Plant was located in a non-attainment area for ozone.

CRA prepared and submitted supporting documentation for this permit, including: boiler specifications; emission rates; applicable regulatory requirements; best available control technology (BACT) analysis; boiler control technology review; and dispersion modeling, including air quality impact analysis, toxic air contaminant analysis, and additional impacts analysis.

The project commenced on February 1, 2005. The complete PTI application was submitted on March 18, 2005. The permit was submitted for public comment by the agency on April 27, 2005. The permit conditions were successfully negotiated and the final permit was issued on July 26, 2005.

CRA also assisted the facility in Title V Renewable Operating Permit (ROP) renewal, alternate fuel analysis, air permitting for on-spec oil, MAERS reports, wastewater discharge report, air permit stack testing, Predictive Emissions Monitoring system testing, wastewater proportional flow sampling system design, industrial hygiene sampling, and mercury minimization planning.

CRA continues to work with the facility in completing mercury source elimination projects.