

SIMILAR COMPLETED PROJECTS ATTACHMENT 3

MSDGC Mill Creek WWTP Fluidized Bed Incinerators

ASE teamed with Black & Veatch to provide Engineering and SCADA Systems Configuration services for the Metropolitan Sewer District of Greater Cincinnati (MSDGC) Mill Creek WWTP Fluidized Bed Incinerator Project. The project included the installation of three (3) new fluidized bed incinerators to replace aging multiple hearth incinerators.



The capital cost for the project was approximately \$60M, which demonstrates the depth of services that ASE can provide for large-scale capital projects.

Services by ASE

ASE provided the detailed instrumentation and controls design and the site electrical design for the project. The project utilized nine new Rockwell ControlLogix PLCs with five redundant processors and GE Proficy/iFIX SCADA systems. Ethernet communications were utilized for the control system network and ControlNet was utilized for the PLC remote I/O racks.

During the construction phase, *ASE configured the SCADA system and provided systems commissioning, checkout and startup services.* ASE also provided



coordination with the Incinerator vendor's PLC programmers to ensure that they complied with MSDGC's SCADA Programming Standards. ASE's coordination and attention to details helped to minimize programming changes during the commissioning and startup of the new systems.

This was the first major project that ASE performed for MSDGC. The Electrical and I&C Systems and SCADA Systems were successfully commissioned and started up in 2011. MSDGC was pleased with ASE's performance and has continued to utilize ASE on several other Design and SCADA System Configuration projects.

Black and Veatch provided a letter of reference, specifically listing the Incinerator Project, along with other key projects for which ASE has teamed with them. The reference letter is included in Attachment 1 for the Statement of Qualifications.

