

Boiler Room Upgrades

Primary Service: Mechanical Engineering

Type: Public Housing

Owner/Client: Newark Housing Authority

Location: Newark, New Jersey

Cost: \$5,100,000

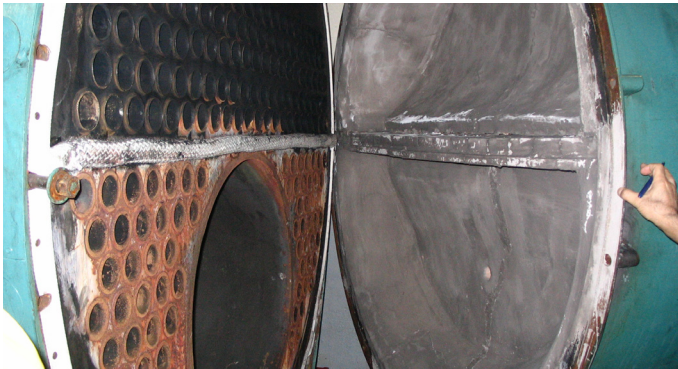
Completion Date: September 2007

Contact: Ms. Nitin Patel
Principal Engineer

Project Manager: Yogesh A. Shah

Project Number: 2.2851.1

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Item #1c, 1g, 2c, 2g. View showing the repaired refractory and diffuser plate inside the boiler.



View of the existing vacuum pump unit in the mechanical room adjacent to the main boiler room.



New low-water fuel cut off (non-mercury type).

Project Scope:

To assess the condition of seventy six (76) boiler plants spread over seventeen (17) sites throughout Newark and evaluate all integral system in order to comply with violation notice issued by the State of New Jersey, Bureau of Boiler and Pressure Vessel Compliance. (BB&PVC).

Work involved complete assessment, testing and replacement of boilers operating and safety controls, boiler feed units, zone control system, gas train, chemical treatment, combustion air analysis, piping, instrumentation, and domestic hot water heaters etc.

Detailed scope of work items were custom created for all 17 sites involving nearly one hundred fifty two (152) gas fired low pressure steam boilers and over seventy five (75) domestic hot water heaters. In order to expedite construction phase, work was split into two separate contracts.

Services Performed:

- Survey, Assessment of seventy six (76) complete boiler rooms
- Testing of boilers and boilers operating & safety controls
- Report with recommendations and cost estimates
- Preparation of Construction Documents
- Construction supervision and management

Project Highlights:

- Very complex project involving complete review of entire boilers and heating plants in seventy six (76) separate locations spread across seventeen (17) sites.
- Successful timely completion of all phases off this project
- Reports, Construction Documents & Construction Management
- Work approved by NJ BB&PVC and violation notice abated in September 2007.