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McKay Bay Waste-to-Energy Facility Retrofit Project Closeout

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Abstract

For NAWTEC10, Messrs. Schwartz and White published and presented a paper on the retrofit of City of Tampa's 1000-TPD, four-unit McKay Bay Facility[1]. The original facility was constructed in 1967, as an incinerator. The first retrofit of the plant to a waste-to-energy facility occurred in 1985, and the 1999-2002 retrofit (chute to stack) enhanced the facility to current day technologies and environmental standards. This paper reviews both administrative and technical issues for the final project closeout, and describes several construction and operational improvements made in order to improve safety and optimize performance at the plant. Technical items include a remedy for excessive vibrations, addition of an ash conveyor ventilation system, successful use of boiler on-line concussion blasting, and addition of lower boiler furnace cameras.

Final Project Closeout

The McKay Bay Retrofit project was complex, lengthy, and contractually detailed in the scope of work. Work was done in three phases: preparatory electrical and mechanical work; demolish and rebuild Units 3 and 4; and demolish and rebuild Units 1 and 2. The contract with Wheelabrator McKay Bay, Inc. (WMBI) and the City of Tampa was signed on December 28, 1998; the Notice to Proceed was issued by the City to WMBI on April 1, 1999; Acceptance Tests (four lines) were completed on October 31, 2001; and Final Payment was made by the City to WMBI on October 17, 2002.

The first major hurdle to complete for project closeout was the 2,361 item punch list. Many parties were involved in implementing the punch list work including:

- WMBI Construction Management Team
- WMBI's Construction Manager's Staff
- Sub-Contractors