



Bermuda Energy Services Company Limited.

TYNES BAY FIRE DETECTION

Tynes Bay is Bermuda's waste treatment facility, opened in 1994 to reduce the volume of combustible waste on the Island. A secondary function is to extract the energy produced by the gasses that result from the incineration process to produce power.

CHALLENGE:

The fire detection equipment that was installed when the original building was constructed between 1990 and 1994 was in need of replacement and expanded coverage. BESCO was engaged to install a new fire alarm and sprinkler system in the existing facility, as well as the newly constructed Ash Processing Plant. BESCO worked alongside Vipond who performed new sprinkler piping installations. A new fire pump controller was also required.





SOLUTION:

BESCO removed all the original fire alarm detection equipment that was installed during the building's initial construction and installed, programmed, tested and verified a completely new Honeywell Notifier fire alarm system. A new infrared fire detection system replaced the existing gas detection system. The new system was expanded to incorporate the newly constructed Ash Processing Plant. Additional sprinkler systems were also installed.

FIRE DETECTION

Honeywell Fire and Life Safety Solutions are proven to minimize risk, help prevent property loss and ensure a safer environment.

Protector Wire and Flame Detection

New fire detection was introduced in the form of protector wire detection tracing along the cable tray. This detects fire in long runs of cable.

New flame detection systems were also introduced for the waste refuse hoppers and the turbine hall.

The new system required a networked group of five separate fire alarm control and pre-action control panels, all of which were installed by BESCO.

FIRE PUMP

BESCO installed a new fire pump controller to replace the existing, outdated pump. Two power feeders for the fire pump controller were relocated to allow for the redesign of the fire sprinkler piping in the fire pump room. BESCO also designed and installed a new automatic control panel for the level control valves to maintain the required water volume in the fire pump reservoir.

CONCLUSION:

The design and installation of the new fire detection system is just one of several projects that BESCO has completed at Tynes Bay. A long-standing relationship between the two companies allows BESCO to fully understand the special needs and requirements of the Tynes Bay facility. Installation of a new system such as the fire detection system can therefore be done accurately and efficiently.

BESCO continues work on the fire detection system with service, maintenance, repair, testing and verification on an ongoing basis.



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