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FOR IMMEDIATE RELEASE

**INNOVATIVE ENGINEERING E-NEWS BYTE:**

## **INNOVATIVE commissioned by T-Mobile USA to design a fully automatic N +2 redundant generator system to provide standby emergency power in the historic AT&T Long-Lines Telegraph building.**

**TOMS RIVER, NJ** – Innovative was commissioned by T-Mobile USA to design a fully automatic N +2 redundant generator system to provide standby emergency power for their multi-floor switching center located at the heart of lower Manhattan in the historic AT&T Long-Lines Telegraph building.

The newly engineered system integrates two Diesel-Driven 800 Kilowatt Generator-Sets into the buildings existing standby generator system by utilizing over 3000Amps of Automatic Switching Gear. These Automatic Transfer switches supply the building load and were also designed to have “Lead/Lag” capability to cycle between generators during periods of extended outage or during routine generator maintenance.

These new generators and transfer switches provide full N+2 Peak load carrying capability for the Switching centers two 1600Amp 480V services.

The new Emergency System also features a completely redesigned Fuel Oil delivery system. This new system was designed to satisfy the stringent safety criteria outlined in the World Trade Center Task Force Report, which put greater limitations and increased alarm requirements for fuel oil storage above the ground floor. The new fuel oil delivery system consists of an 11,000 Gallon basement storage tank, a Triplex pumping system which pumps No-2 Diesel fuel up 28 floors to a fully alarmed 275 Gallon Day Storage Tank with 200% rupture capacity designed specifically for the project.

This project illustrates that Innovative possesses the in-house multi-discipline Engineering & Construction Management skills required to meet the unique design challenges posed by the Telecommunication Industry and the by the strict Engineering & Construction guidelines imposed by the City of New York.

[Click here to view photos](#)

For more information, contact Innovative Engineering at 732-240-4400 or log on to the company's website at <http://www.InnovativeEngineering.net>.

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