

# Defense Intelligence Agency Electrical Infrastructure Project Overview Bethesda, MD

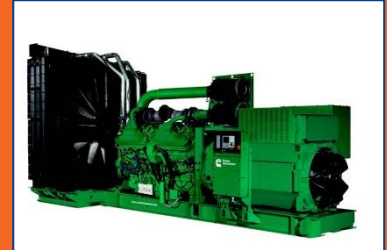
Defense Intelligence Agency  
4606 Sangamore Road  
Bethesda, MD 20816  
.....

General Contractor:  
Washington Gas & Honeywell

The Defense Intelligence Agency required an accelerated schedule for this high priority project. Our experience with Revit coordination projects and the installation of major electrical infrastructure such as Medium Voltage feeder cables, Switch Gear, Generators and Uninterruptible Power Supplies was instrumental in adhering to the governments scheduled completion date.

## Project Challenges

The Tenant Fit-Out portion of the project commenced while several months passed before the awarding of the Infrastructure work. Minimal time was allotted for the installation of the infrastructure that supplied permanent power to the facility. The Infrastructure segment was awarded to Washington Gas and Honeywell as a joint venture, while the Tenant Fit-Out was awarded to Whiting-Turner. This created a challenge with the coordination of Revit between two General Contractors and all the different trades between both General Contractors.



*"It is rare to find ourselves working with multiple General Contractors and Electricians on one site but we overcame that obstacle with numerous coordination meetings, continuous communication and working closely with the other electrical organization."*

Craig Dixon, TEI Electrical Solutions Operations Director



*"To assist with the installation of conduit, we had special carts made for moving the conduit around in the extremely tight crawl space where the majority of electrical and mechanical lines had to be installed underneath the first floor. This simple solution helped save time daily."*

Tom Akers, TEI Electrical Solutions Project Manager

## Safety

There was a very strict safety plan in place while on-site. All trades were required to write an Activity Hazard Analysis (AHA) for each and every task they would be performing throughout the project. The plan was written in a step by step scenario that listed each step in order, the hazards for each step and the controls to eliminate the hazards and safely perform the task. Once written the AHA went to the Army Corp of Engineers for review and approval. Each day and during any task change the AHA for that task was reviewed and signed off on by the staff performing the work before the task could start. Each day the signed AHA's were sent to the General Contractor and turned over to the Army Corp of Engineers.



Our scope of work included the installation of:

- \* 2 Megawatt Emergency Generator \* 480V Switchgear \* 15kV Distribution & 480V Distribution \* 3000 amp Double Ended Substation \* 5000 amp Emergency Distribution \*
- Misc. Equipment Bus duct, Integrated Facilities Switchboards, Transformers, Branch Circuit Panelboards \* Uninterruptible Power Supply (UPS) \* Variable Frequency Drives (VFD)
- \* Power Distribution Units (PDU) \* Automatic Transfer Switches (ATS) \* Lighting \* Duct Bank

## TEI Electrical Solutions

Main Office:  
4840 Winchester Blvd. Ste 1  
Frederick, MD 21703  
.....

Baltimore Office:  
1414 Key Highway,  
Suite 300-I  
Baltimore, MD 21230  
.....

301-874-4630  
www.teiconst.com

