



*“When we began designing our “white room,” we knew we needed an HVAC system that could keep the area clean and deliver precise conditions efficiently. Even though we were on a tight schedule, Plug Smart understood our requirements and designed just the right system, producing drawings in record time. They saw the construction through to the end and everything turned out superb!”*

- John Craynon, Global Site Optimization Manager  
GE Transportation

### Technical Highlights

- 100-ton chiller
- 2 – 48-ton air handlers, each 18,000 cfm
- 4 – 400,000 BTU gas-fired modulating duct furnaces
- 2 – 300 lb/hr gas fired steam humidifiers
- Reliable Controls control system that controls room pressure, temperature, humidity, provides air-side economizing, and provides monitoring and alarming

### Overview

**Project Type :** Design-Build a specialized HVAC system  
**Facility Type:** Industrial Manufacturing  
**Contract Size:** \$1.4 Million

### The Client:

- General Electric (GE) Transportation manufactures equipment for the railroad, marine, mining, drilling and energy generation industries.
- Their plant in Grove City, Pennsylvania remanufactures large diesel engines for railroad locomotives.



### The Problem:

- To make the best diesel engines on the market, GE Transportation needed a large room to be conditioned, pressurized, and free of any dust or dirt.
- The construction project schedule was very aggressive and required rapid response. Old and obsolete controls units handle each building system separately.

### The Plug Smart Solution:

- Engineered, procured and installed all HVAC equipment and control systems for a new 24,000 sq. ft. “white room” at the facility.
- Able to get design and approval, equipment procurement process done through various contacts and resources in a record three weeks.

