



Westinghouse Electric Company Nuclear Power Engineering Headquarters Campus



GENERAL BUILDING DATA

LOCATION: Cranberry Township, PA
OCCUPANT: Westinghouse Electric Co.
BUILDING OCCUPANCY TYPE: Office
SIZE: 844,595 sq. ft.
NO. OF STORIES: 5 above grade/ 1 below
CONSTRUCTION DATES: Feb2008-May2010
OVERALL PROJECT COST: \$240,000,000
DELIVERY METHOD: Design-Bid-Build

PROJECT TEAM:

- OWNER– Wells Reit II
- GC/CM– Turner Construction Co.
- ARCHITECT– IKM Incorporated
- ENGINEER– LLI Engineering

The Westinghouse Headquarters campus consists of three buildings which primarily serve as office space for over 4,000 engineers. Building One, the main building, in addition to offices consists of meeting spaces, conference rooms, a fitness center, a cafeteria and a data center. Buildings two and three are primarily office space.

STRUCTURAL

The structural system of the building is primarily a steel framing system. Typical sizes of members include:

- Columns- W14x120
- Girders- W24x55
- Beams- W18x55

The building is supported by a caisson foundation system. The caissons were placed anywhere from 12 to 20 feet deep and vary in size from 36 to 84 inches.

MECHANICAL

The mechanical system of the building consists of four air handling units (AHUs) and 3 air conditioning units (ACUs). Together these units deliver almost 300,000 CFM. The air is circulated through the spaces using fan powered boxes and distributed to variable air volume boxes.

LIGHTING/ELECTRICAL

The main electrical supply enters the building and runs to the main electrical room located in the basement at 480/277 volt, 3 phase, 4 wires.

The lighting for the primary office space consists of 1x4 florescent fixtures.



Mark Speicher / Construction Management

<http://www.engr.psu.edu/ae/thesis/portfolios/2010/mhs5019/index.html>