



## CASE STUDY

### FDA Data Center, WHITE OAK, MD



#### TECHNOLOGY

#### DATA CENTERS

**OPERATING COMPANY:**

Dynalectric Company  
(Washington, DC)

**CLIENT:**

U.S. General Services  
Administration

**ARCHITECT:**

KlingStubbins in association  
with RTKL

**GENERAL CONTRACTOR:**

Grunley Construction Co., Inc.

**ELECTRICAL CONTRACTOR:**

Dynalectric Company  
(Washington, DC)

**PROJECT DURATION:**

9 months

**CONTRACT AMOUNT:**

\$ 4,800,000

**TECHNICAL SOLUTIONS**

Relationships

Quality Service

VALUE ENGINEERING

Experience

Project Schedule & Coordination

EXPERTISE

- New Construction
- Retrofit
- Electrical Construction
- Mechanical Construction
- Facilities Services
- Consulting Services

### VALUE DELIVERED

More efficient operations, increased productivity, improved inter-departmental communication, optimum system reliability, lower overall costs, greater ability to fulfill regulatory responsibilities effectively.

### OBJECTIVES

To consolidate five separate computer facilities within a state-of-the-art, 30,000-square-foot data center at the new U.S. Food & Drug Administration's (FDA's) headquarters campus.

### SOLUTIONS

Backed by its full-service electrical contracting capabilities and its extensive experience in completing complex projects within tight time constraints, the Dynalectric team overcame some significant challenges to finish this project on time. In addition to the compressed nine-month schedule, the project's challenges included installing new power supplies into an old building where there was very limited space for equipment. This was especially true in the switchgear rooms, where the layout and rigid overhead feeders necessitated careful planning and coordination. Furthermore, since all technicians and materials had to travel approximately 2,500 feet from the building entry point to the data center through an underground tunnel system, logistics were more complex than usual. Under-floor feeders and an extensive cable tray that had been hung underneath the ceiling further complicated the job.

Nevertheless, the company's experts were able to perform their full scope of work. This required fitting out the data center with 24 power distribution units, 30 computer room air conditioning units, four 750 kilovolt-ampere static uninterruptible power supplies and lighting control upgrades. To protect critical systems and ensure high levels of reliability, Dynalectric also equipped the facility with power monitoring, battery monitoring and leak detection technologies.



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## SOLUTIONS continued

The FDA Data Center is a LEED Silver building. LEED Silver is one of four (Certified, Silver, Gold and Platinum) ratings assigned by the United States Green Building Council to measure energy efficiency and environmental impacts.

## BACKGROUND

The U.S. Food and Drug Administration (FDA) regulates most types of foods, drugs, dietary supplements, vaccines, medical devices, blood products, radiation-emitting devices and cosmetics. The agency also enforces numerous regulations related to public health, sanitation and disease control.

The closure of the U.S. Naval Warfare Facility outside Washington, D.C. opened the way for the FDA to use the land and buildings to consolidate its headquarters offices, labs, data centers and other facilities. As an integral part of the new FDA White Oak campus, the data center enabled the agency to migrate all its existing applications to a single facility, where it can run, manage and maintain them more efficiently.



*Regardless of your project or service requirements, Dynalectric gives you a complete end-to-end specialty contracting solution that results in the responsive professional service and long-lasting systems you need for reliable facility operation and consistent business success.*

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