

Boeing 787 Assembly Plant Expansion Open for Business
M.C. Dean completed expansion for Boeing factory

Dulles, Va., Oct. 6, 2011 – Boeing’s newest and most efficient factory officially opened its doors on May 12, 2011- almost a year and a half after the project began. The design was only 50-60% design complete when the project started due to the client’s timeframe to have the plant built. The 1.2 million square feet of the 750 million dollar assembly plant is partially occupied currently but will house approximately 1,200 employees. Assembly for the 787 Dreamliner began in July.

M.C. Dean was awarded the subcontractor to BE&K-Turner Joint Venture. M.C. Dean’s scope for this project included underground duct banks and manhole systems for power and data/communications distribution, substations associated with SCADA, Final Assembly Hanger, Central Utility Building and the Flight line Buildings all contributing to the LEED Silver certification it received.

We performed electrical, telecommunications, and life safety for the plant as well installing conduit and cabling for the security and electronic systems. We also provided all final testing and commissioning. M.C. Dean’s Pre-installation Testing and Check-Out (PITCO) provided for all head end fire alarm equipment. This guarantees product suitability for installation on site.

M.C. Dean faced unique challenges on this project. It was an extremely large fast-tracked project. The main distribution system, fire alarm system, and Final Assemble Hanger had to be completed within six months and occupied within nine months. Most of the electrical work was completed in a seven day week, 12 hour each, two shift work schedule. With that said, M.C. Dean is proud to log over 200,000 man-hours without a lost time accident.

After project completion, the following next weeks were used for training and this Boeing began final assembly on the 787 Dreamliner. More than 50 customers have ordered about 835 Dreamliner’s at cost of about \$201.7 million each. Grand opening was August 2011. The facility will deliver three airplanes per month and the first delivery planned for the first quarter of 2012.

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About M.C. Dean, Inc.

M.C. Dean, Inc. is an engineering and technology service firm for mission-critical systems and facilities. Founded in 1949, M.C. Dean has set the industry standard for design-build-maintain projects in mission critical electrical infrastructure, telecommunications, instrumentation and control, and security and electronic systems. Headquartered in Dulles, VA, M.C. Dean employs more than 3,500 professionals in 30 offices worldwide. For more information, see www.mcdean.com.

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Note to Editors:

Electrical 15KV Distribution System

M.C. Dean provided all new cabling and duct bank systems which including jack and bore installation from the existing incoming utility substation to the new main substation vault. The new substation vault fed into the entire existing and new facility for the entire site. All splicing, termination, and testing of the

substations and feeders was the responsibility of M.C. Dean. Together, Siemens and M.C. Dean commissioned the substations.

Telecommunications

The Final Assembly Building consisted of one million feet of network cable and more than 3,500 network jacks. M.C. Dean built one Network Control Center, two fiber Distribution hubs, 24 communication rooms, and 14 communication cabinets. M.C. Dean handled the installation of emergency phones with redundant single mode and multimode main fiber backbone into primary and secondary networks and copper backbone.

Fire Alarm Systems

Providing, installing, and testing the Honeywell system in many Flight line buildings, fire pump buildings, and the Central Utility Build was a major part of M.C. Dean's SOW. Fire Alarm Control Panels were configured for Network Operation via fiber-optic cabling. The panels installed in the main building provided additional coverage for tunnels and the assembly floors. In addition to those panels, a non-life safety system fire alarm control panel was configured for VESDA (air sampling) systems. It is used inside the aircraft located on the assembly floor. The Digital Audio Controller installed provides the facility with audio evacuation signals for emergency conditions. The Network Control Annunciator is a single location where all the fire alarm monitoring and control features are fed to or originated from creating the semblance of a single system.