



Manufacturing Aerospace

Client
Boeing

Location
St. Louis, MO, USA

Aerospace Manufacturing and Final Assembly Facilities

To expand the Building 67 Manufacturing and Final Assembly Facilities, Boeing enlisted CH2M HILL to provide engineering services. Included in the scope were general office space, employee facilities, and a new 400-seat cafeteria—a total of 180,000 square feet. Installing a new façade over the existing office building to match the new exterior design and designing new receiving docks were also included in the project.

A few customer benefits included:

- Designing a flexible facility allowed production to continue without interruption.
- A number of value-engineered solutions—simplifying the equipment foundations, analyzing utilities usage, modifying HVAC hood designs, and using lightweight prefab wall sections—resulted in over \$250,000 in savings.
- Designing the facility to provide optimal controls for equipment systems will accommodate expansion, thus reducing future design cost.
- Utilizing value engineering early in the project, along with detailed constructability reviews and a fast-track project approach, provided cost-effective solutions and expedited the project schedule.

Features of the project included:

- High-bay production areas with 120 to 200-foot clearances to accommodate the five-on bridge cranes used for the aircraft.
- One equipment foundation consists of a six-foot thick, 1,000 square foot mat foundation with a monolithic pour.