

Central Utility Plants

Location: Dallas/Fort Worth, Texas

Client: Dallas/Fort Worth International Airport



PROJECT SUMMARY

As part of a master planning update in cooperation with Carter-Burgess, Burns & McDonnell worked with the airport maintenance department to develop a list of more than 40 major projects to be included in the airport's capital improvement plan for the next 15 years. Our efforts concentrated on the mechanical aspects of the central utility plant and the HVAC systems serving various buildings.

PROJECT BACKGROUND AND DESCRIPTION

More than 40 project descriptions with estimated construction costs were developed, and economic justifications were established for those where alternative solutions were available based on life-cycle costing. Projects were prioritized in coordination with the airport maintenance staff.

Input was also provided in the development of plans for the overall expansion of the airport over the next 15 years, including capacity and cost data for mechanical systems for two new terminal buildings, a new Airport People Mover system, new cargo facilities and other commercial developments.

PROJECT FEATURES

Burns & McDonnell reviewed and determined the overall condition of aging systems, including:

- Boilers
- Steam and hot water distribution system
- Chillers and chilled water distribution system
- VAC systems in the central utility plant, terminal buildings, FAA control tower, ancillary building, two hotels, People Mover stations, and administration and security buildings

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