

Emergency Operations Center HVAC

Boone Center – Frankfort, KY

Owner: Kentucky Finance Cabinet - DECA
User Agency: Military Affairs
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Building Area: 20,000 SF
Construction Cost: \$ 1,400,000
Project Status: Completed 2020

Project Description:

Replacement of existing ductwork and reheat boxes serving two 10,000 SF stories area with new system, lighting, ceilings. Facility is listed on National Historical Register and houses Kentucky's Adjutant General and staff for the Kentucky National Guard.



Engineering Highlights:

Project Approach:

Project was completed in two phases. The occupants on the upper floor were moved out completely and all ceilings and HVAC systems will be replaced, commissioned, and set into operation. Then the occupants returned to the upper floor allowing the lower floor to be renovated in the same manner. All existing ceilings were replaced with new dimension grid ceilings. During the course of construction many room finishes and walls were upgraded.

HVAC:

Each floor is served by an individual constant speed air handler. Each air handler was renovated with the addition of air blenders, access doors, and controls. Existing fans were converted to variable air volume (VAV) operation. Fans motors were modified to meet new static pressures of the new VAV system. Existing spaces were served by constant volume reheat boxes that were replaced by 77 new VAV boxes with hot water reheat. All existing hot water piping was replaced and new variable speed-controlled pumping is included in this project.

Electrical:

All lighting in building was replaced with new LED lightings and automatic lighting controls. The existing data communication system was replaced with all new MDF and IDF rooms creating an entire new data infrastructure.