



## **MetroSafe** *Renovation* Louisville, Kentucky

### **Owner**

Louisville Metro Government  
Louisville, Kentucky

### **Contact**

Beth Niblock  
Director of Information Technology  
502-574-4341

### **Cost**

\$12,000,000

This is a significant MEP renovation of the existing Federal Reserve Bank building in Louisville, which will allow the MetroSafe 911 Call Center, Emergency Operations Center and IT Department to consolidate and occupy the building. The renovated site will become the main command center for all of Louisville/Jefferson County.

The facility contains an approximately 6,100 square foot data center of which 900 sf houses radio equipment and the remaining contains Metro IT server racks. Two 300KVA UPS units and two 125kVA units are present to provide conditioned power and also to provide battery backup to the data center during changeover from normal to emergency power. The 300kVA units serve the Metro IT equipment while the 125KVA units serve the radio equipment. All units are sized for full load meaning the UPS system is 100 percent redundant. The data center is provided emergency power via the facilities 2.25MW diesel generator.

Data and Voice wiring throughout the facility is provided using Level 5E cabling wired from each RJ45 outlet to the respective IDF. Each IDF contains a fiber connection from the rack to the data center.

The Communication Center and Emergency Operation Center is located on the third floor above the Data Center. The dispatch workstations in this area are each provided 16 communication drops, a combination of radio, data and voice. The cabling is landed on a small patch panel at each workstation allowing



the owner to easily patch to the respective equipment and also to allow for versatility in the future.

Access Control and CCTV cameras are provided throughout the entire building. The existing systems were expanded to allow for the addition of devices during the renovation. The Data Center will have four 30-ton air conditioning units that will allow for N+1 redundancy and provide emergency HVAC heating/cooling for all essential operation areas (911 Call Center/Emergency Operations Center/UPS Rooms) throughout the building and all IT Closets and Data Center. The existing air handling units and building controls are to be retrofitted. There will be a new 35 ton air handling unit for the UPS Rooms. A new sprinkler system for the entire building and a stand alone dry-agent system for the Data Center will be provided. The fire alarm system will be replaced throughout the entire building with a new addressable system.

CMTA designed a new 3000A/277/480V/3-phase/4W electrical service to accommodate the additional electrical load. A new 2.25MW emergency generator will be necessary to serve the essential loads. One hundred percent redundant UPS power will be provided to serve the data center, emergency operations center and main dispatch/911 area. UPS units consist of four 300KVA units and two 100KVA units.