



LARRY JONES, P.E.  
ELECTRICAL ENGINEER

### PROJECT EXPERIENCE

**714 Main St. Office Building Renovation, Fort Worth, TX** –Electrical engineer for complete remodel of an 80 year old, 24-story, 210,000 SF, historic building. The existing 208Y/120V electrical power system was removed and a new 480Y/277V electrical system was provided. Engineering work included coordination with electric utility company to provide new 480V spot network service; three new transformer vaults; new 480V main switchgear; new 1000 kW engine-generator system and associated automatic transfer switchgear; new 500 kW UPS system; two new 80 kW UPS systems; new server room power distribution systems; new power distribution in tenant areas; new interior lighting systems, including period, decorative, and display lighting; and new exterior lighting. Work also included a complete short circuit current study of the power distribution system and protective device coordination study of emergency and standby power systems.

**Criminal Justice Center UPS Replacement, City of Irving, TX-** Project Manager and electrical engineer for new UPS system to serve mission critical law enforcement computer and communications systems for the City of Irving, Texas. Engineering work consisted of designing a single centralized UPS system to replace a number of smaller systems. The design used four 30 kVA UPS systems connected in a parallel configuration to provide an n+1 level of redundancy. One of the unique challenges faced on this project was the need to maintain mission critical operations during construction and to develop a plan to allow the Owner to shift loads to the new UPS system with minimum downtime.

**Mouser Electronics, Mansfield, TX** - Electrical engineer for the expansion of the headquarters office and warehouse buildings from approximately 170,000 SF to over 400,000 SF. Work involved designing electrical lighting and power systems for new areas; renovation of electrical lighting and power systems in existing areas; assisting the Owner in developing a phasing plan to allow relocation of their order processing area without disrupting operations; and providing infrastructure to support various special systems and equipment for their warehousing and shipping operations.

**Tarrant County Subcourthouse in Arlington, TX** – Electrical engineer for the three-story, \$10 M Tarrant County Subcourthouse that includes a satellite courtroom and associated support areas; a community meeting room and administrative offices. The building achieved LEED Silver certification and is the first building in Arlington, first building for Tarrant County and the first Courthouse in TX to achieve LEED certification. The implementation of sustainable design on this project reduced the annual energy consumption by 38.6%, resulting in an annual cost savings to the Owner of 21.8% on energy bills.

**American Airlines System Operations Center - Fort Worth, TX** - Design of low and medium voltage electrical distribution systems and protective device coordination schemes and the design of 3 MW on-site generation.

**University of TX at Arlington - Arlington, TX** - Design of 12.47 kV main switchgear serving campus distribution system, electrical design of Central Energy Plant, and design of motor starting scheme to start 3000 hp 4160V chillers.

**Lockheed Martin Plant, Fort Worth, TX** - Project electrical engineer performing a short circuit current study of plant distribution system and replacement of unit substations.

### Experience:

Baird, Hampton & Brown, Inc.: 2005  
Years Prior Experience: 32

### Education:

University of Tulsa / B.S. / 1973 /  
Electrical Engineering

### Registration:

2005 / TX / Electrical Engineering /  
Registration # 96364

### Professional Organizations:

Member, Institute of Electrical and  
Electronics Engineers, Inc. (IEEE)  
Member, Illuminating Society of  
North America (IESNA)  
Member, National Fire Protection  
Association (NFPA)

**Bio:** Mr. Jones brings over 30 years of experience in electrical engineering to BHB. He began his career as an engineer with an electric utility company and gained experience in medium-voltage underground distribution, substations, and protective relaying. He subsequently gained extensive experience as a consulting engineer, designing electrical power, lighting, and communication systems for a wide variety of commercial, industrial, and institutional facilities, including hospitals, schools, universities, industrial manufacturing, and mission-critical data centers. He brings particular expertise in designing central energy plants, utility distribution systems, low and medium voltage switchgear, and engine-generator systems, including paralleling switchgear and controls. Mr. Jones has extensive experience in performing computer-aided analysis of electrical systems, including short circuit current studies and protective device coordination. Mr. Jones served two terms on the City of Fort Worth Electrical Board of Appeals. He has also provided forensic engineering in cases involving electrical systems and equipment.