



## PROJECT SHEET

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### PARSONS ELECTRIC, INC.

116 TRADE STREET  
LEXINGTON, KENTUCKY 40511  
859-233-9823

### ADKEV, INC.

NEW MANUFACTURING FACILITY  
DANVILLE, KENTUCKY  
190,000 sf

#### **PROJECT DESCRIPTION:**

Adkev specializes in custom injection-molded parts, insert-molded parts, two-shot parts, and value added assemblies for the appliance and automotive industries. They produce HVAC, interior, visual, and under-the-hood components and fasteners for its automotive clients. The project consisted of renovating an existing manufacturing facility formerly owned by Caterpillar.

The existing power distribution system was completely removed and replaced with a new 4000 amp, 277/480 volt electric service and power distribution system. Some components of the original system were removed, relocated, and re-installed, including 600 feet of plug-in bus duct and 400 feet of feeder bus duct. Parsons provided design/build services for the lighting, power, and fire alarm systems, preparing all construction drawings and providing installation of the electrical systems.

Power distribution system consists of a main switchboard, power factor correction capacitor bank, and standby generator. The power distribution system also includes (5) distribution panels, (6) lighting panels, (11) receptacle panels, (2) battery charger panels, (6) emergency power panels, and (11) step-down transformers. Parsons designed and installed power to all HVAC equipment, dock equipment, die shop equipment, injection molding machines, raw material conveyance equipment, and battery chargers.

Lighting systems included LED light fixtures throughout the manufacturing areas. Lighting controls were designed to conform to the latest energy conservation code and include fixture, ceiling, and wall mounted occupancy sensors. Exit and egress lighting to meet the building code requirements was also provided. Parsons provided all lighting system design.

The fire alarm system was designed to meet the requirements of the Kentucky Building Code per NFPA 72. A complete ADA compliant system was provided throughout the facility.