



IndianaFIRST District Venue Electrical Requirements

IndianaFIRST Robotics District events have specific power requirements. IndianaFIRST and the TechnoKats Robotics Team provides an electrical distribution system. The electrical distribution system connects to a building electrical breaker panels. As a district competition host site, IndianaFIRST would like to ensure the venue power fits our event needs. There are two main competition areas that need power, the field area and the pit area.

Field Area:

For the main field area, a competition playing field will be setup. In this location, IndianaFIRST will setup up the following equipment: field management system (FMS) and auxiliary field equipment, A/V table, and more.

The provided electrical distribution connects to a building electrical breaker panel that needs three open breakers of 60A or 100A each. The distance from the building breaker panel to the corner of the main field area should be within 100 feet. This distribution equipment will distribute power from the breaker panel to the proper competition field locations.

Pit Area:

For the pit area, 30-40 competition teams will setup 10x10 booths called "pits" to maintain their competition robots. These pits will be arranged to accommodate our electrical distribution. Each team may have many devices and tools that require power including bench top power tools, multiple battery chargers for 12V 18amp-hour batteries, work lights, and more.

The provided electrical distribution systems provides an outlet for every team pit location and requires connection to a building electrical breaker panel that contains three open breakers of 100A each. The distance from the building breaker panel to the edge of the closest pit should be within 150 feet.

Our IndianaFIRST electrical contact would like to meet with the venue electrician to determine whether the existing breakers and electrical panels in both locations are adequate for our event needs. If they are not, IndianaFIRST will pay for new breakers to be installed in the existing electrical panels under supervision of the venue electrician. At the event, IndianaFIRST can plug our distribution system into the panels themselves or alternatively can work with the venue electrician to have venue staff perform that operation.

For additional questions and concerns, please contact host@indianafirst.org