

**Category 2: Meeting the Challenge of a Difficult Job – Speciality Contractor**  
**Contractor: Kenny Electric**  
**Project Name: Comcast Denver Facility Upgrade**

### *No Commercial Breaks*

Comcast of Denver is the national hub for television and Internet service for 39 states. You know them as the cable provider for your favorite networks and live broadcasts providing the highest satisfaction in entertainment service. Comcast delivers over 150 streaming HD channels and is known for having skilled professionals readily available to meet customer demands 24/7. When they needed a substantial electrical infrastructure upgrade in their Denver Corporate Office, they reached out to Kenny Electric because of our reputation and performance on demanding projects, and also because a focus on service is something Comcast and Kenny Electric have in common.

### **Solutions of Special Projects:**

Among the challenges of the Comcast upgrade were a condensed timeline, congested work areas, and the assurance there would be no customer cable service disruptions. The scope of work included:

- Addition of 5-sections to EM switchgear panels
- Replacement of 3-sections of main utility switchgear panels
- Installation of a 4000 AMP backup power system
- Electrical updates for multiple cooling and condenser units

Nothing was typical about this project. It involved a hazardous 7-foot-deep trench for running conduit and tight crawl-spaces requiring special permits. Safety is our number one priority at Kenny, so a safety plan was outlined to keep the workforce informed of the risks and schooled in the correct safeguard protocols. Kenny's Director of Safety remained in constant communication with project leads to ensure everyone's safety.



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The most significant risk involved coordination of the installation of the new backup generator and replacement of three of the EM main utility switchgear systems. If not properly conducted, it could risk station failure, because without the backup generator in place, a power failure would cause a network-wide outage and millions of viewers temporarily losing access to their favorite programs.

Comcast put their full trust in us to keep their service fully operational. For Kenny Electric, this meant there was no time for commercial breaks.

### **Excellence in Project Execution and Management/ Team Approach:**

Project work paralleled with a highly-rated broadcast schedule. Millions of viewers would be tuning in via their cable service expecting to watch holiday programming, Presidential debates, and the NCAA March Madness playoffs. Keeping this in mind, we aligned our work schedule to best accommodate the client. We remained flexible while continuing to drive to get the work done as quickly and safely as possible. Sometimes target dates for mechanical equipment upgrades moved to accommodate specific television programming.

Trade stacking is a common practice when there is limited space within a work site. As was the case on the Comcast job, and the Kenny team remained in constant communication with other trades on the project.

### **Construction Innovations/ State-of-the-Art Advancements:**

At Kenny, we believe partnering with technology advances our performance. During this project, we used Trimble Point Layout Software. This system improved productivity because we were able to scan the site before installation and outline an execution plan. By having the scanned floorplan model we could pre-fabricate conduit and cable tray systems in-house. This method allowed us to be extraordinarily efficient and minimized the time it took to install the new electrical systems. It's also extremely accurate, reducing the potential for installation errors and delays.

With safety being pivotal to our success, Kenny needed to ensure all workers were properly trained for the environment. There were dozens of electricians on-site, at odd hours of the night, and on weekends. A less experienced electrician could easily get lost in the chaos of the project. To ensure rooky team members could be quickly identified and protected, custom decals were applied to their hard hats. Through this identification, our leads were able to locate these team members and assign them to work alongside a senior member when working in a dangerous area. This innovative idea provided exposure for those seeking to build their portfolio of challenging work in a safe environment and it enabled Kenny to utilize a broader spectrum of its workforce - to get the job done more efficiently. Our mentorship initiative helps us build a highly-skilled workforce for the future.

#### **Environmental/ Safety:**

Planning is the key to success. Before all our projects, we follow a prescribed doctrine of “Pre-Success.” It involves collecting as many details as necessary to both ensure the safety of everyone on the job site and deliver 100% satisfaction to our client. Three months preceding the start of this job, our superintendent Curtis Polenz, calculated and evaluated the scope to produce a plan-of-action. The draft included a 300 step, M.O.P. (Method of Procedure), to finish the high-risk job in just seven days. This plan started and ended with the Lock-Out-Tag-Out (L.O.T.O.) sequence to guard against energizing circuits that were either being worked on or switched out. Our early precautions produced excellent results. Not only were there no recordable injuries during this week but there were no system failures. Also, every task completed within the allotted time frame. A project of this caliber is a big win for Kenny. We champion the ideology that detailed planning is the key to success, and this projected validated our mission.

#### **Excellence in Client Service and or Contribution to the Community:**

During the utility power transfer, we had 24 crew members working three different shifts around-the-clock. Together, the team worked approximately 5,000 hours in seven days, to



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complete the power transfer. Timing was everything on this project, and we were proud to leave our mark on this job.

Comcast was highly satisfied with the level of professionalism demonstrated by our team. Kenny Electric received many accolades for this completion. The National Director of Comcast Systems, Josh Reiter, graciously wrote, “I just wanted to let you know how appreciative we are for the time and effort that Curtis and Travis put in at the Comcast TCC Project. We had a very successful week, and much of it is due to their hard work and attention to detail to make sure things were completed in a safe and timely manner. It’s been a pleasure working with them on this project, and I’m glad they were on the team to get this tough and difficult project across the finish line.”

To cross the finish line on this project, it took everyone working together. While this project involved some unique circumstances and experienced a few setbacks, our dedicated team never gave up. Challenges are used as slingshots to give us the energy we need to move forward. Seven days, 24 crew members and millions of satisfied customers - Kenny Electric has done it again. We now return you to your regularly scheduled programming.



**Caption:** Corporate Comcast Denver office.



**Caption:** Cooling units for additional computer rooms.



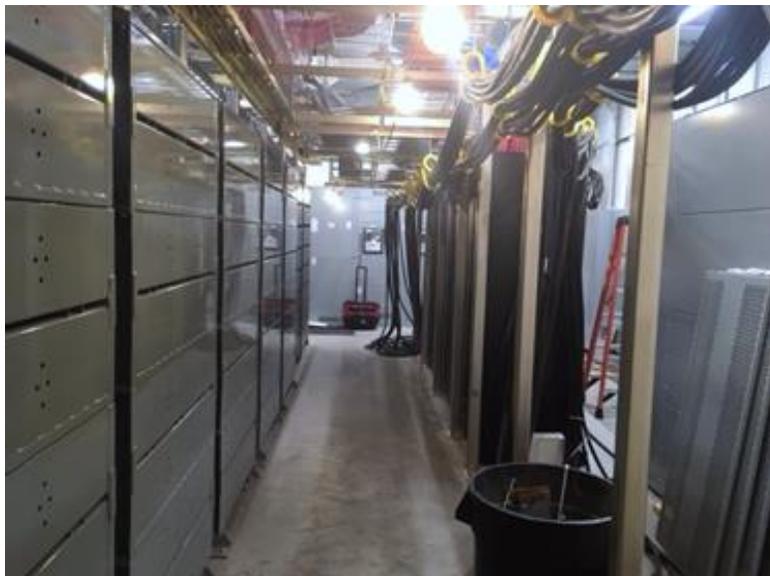
**Caption:** Parallel Generators



**Caption:** 4000 Amp Automatic Transfer Switch, fed with 11 parallel runs each of Utility, Normal and Emergency.



**Caption:** Kenny Electric's employee exemplifying "pre-success" by carefully drawing a panel layout.



**Caption:** DC Battery room with temporary power cabling