



Remote Supervisory Vista Switchgear Solves a Difficult Problem for a Fast-Growing Town

S&C Featured Solution: Various switchgear, controls, and automatic restoration products

Location: Suburb of Chicago, Illinois, United States

Customer Challenge

S&C helped a customer solve a tough problem for a Chicago suburb that's one of the nation's fastest-growing communities. Rapid development had significantly increased loading of the single loop serving its historic downtown district, and outages were common occurrences. Plans for a new substation were in the works but residents and businesses were clamoring for improved reliability now. These demands contrasted sharply with the requirement that the quaint 19th-century appearance of the downtown district not be marred . . . residents made it clear they did not want to see any evidence of electrical system expansion.

S&C Solution

A creative solution was developed using S&C automated distribution equipment, including units of UnderCover™ Style Remote Supervisory Vista® Underground Distribution Switchgear, Remote Supervisory PME-9 Pad-Mounted Gear, and a Scada-Mate® Switching System. Each device was furnished with an S&C Switch Control featuring the IntelliTeam® Automatic Restoration System. The controls communicate with each other by means of transceivers and fiber-optic modems.

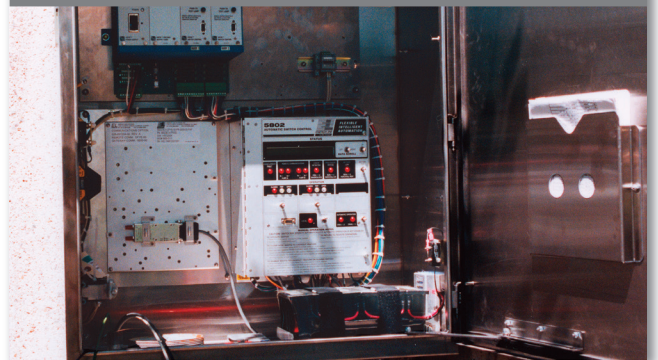
The IntelliTeam Automatic Restoration System uses peer-to-peer communication and distributed intelligence to make operating decisions; no central processing or SCADA is required, though fully supported. Operating as a team, the equipment is able to detect and isolate a fault anywhere on the loop and restore service from the other overhead feeder. Automatic source-transfer capability permits the entire load to be served from a single feeder, if the other is lost.

UnderCover Style Vista switchgear was specifically chosen for a high-traffic area to maintain the desired aesthetic goals.

S&C installing automated distribution equipment.



The controls communicate by means of transceivers and fiber-optic modems.



S&C used underground switchgear and controls to provide a reliable solution to help a growing town stay beautiful.



Results

The new equipment has improved the reliability of service to the downtown district without detracting from the area's charming appearance.

Drawing of the automated distribution equipment used for the downtown district.

