



System VI™ Switchgear: Best Supporting Role at TV and Film Production Company

S&C Featured Solution: System VI Switchgear

Location: Canada

Customer Challenge

A Canadian provincial government wanted to prevent a well-known television and film production company from leaving one of its major cities. The growing production company needed up-to-date facilities for its sound stages, but suitable quarters seemed unavailable. To entice the company to stay, the government offered the company a vintage building constructed in the early 1900s.

The vacant building clearly needed a major overhaul. Rooms would have to be reconstructed to provide the necessary acoustics and staging. But there was a complication: Because the building had landmark status, no changes could be made to its stone facade. Aesthetics were a major issue, too.

The outdated electrical service was inadequate to handle the large lighting load of the sound stages and would need to be completely replaced. New 25-kV switchgear would be needed. But air-insulated 25-kV metal-enclosed switchgear was considered to be too bulky. S&C System VI Switchgear, on the other hand, offered a very attractive solution.

System VI consists of compact SF₆-insulated S&C Vista® Underground Distribution Switchgear units connected by means of gas-to-air through-bushings to

buswork in an adjacent air-insulated bay. This bay can contain voltage transformers and current transformers for metering or other equipment. Additional Vista switchgear and air-insulated bay combinations may be added as needed. All the switching and protection features available with conventional metal-enclosed switchgear are possible with System VI Switchgear.

S&C Solution

S&C provided the System VI Switchgear lineup shown below. A Vista switchgear unit is connected on each side of the air-insulated metering bay, resulting in an assembly only 16 feet wide. The Vista switchgear units are only 4 feet (122 cm) high and the metering bay is only 6 feet (183 cm) high. To provide the same functions, a conventional 25-kV metal-enclosed switchgear lineup would need to be twice as wide and more than 10 feet (305 cm) high!

As shown in the single-line diagram on page 2, two utility sources feed the load-interrupter switches in Ways 1 and 2 of a Model 321 Vista switchgear unit. The fault interrupter in Way 3 responds to internal faults in the metering bay. The Model 404 Vista switchgear includes four fault interrupter ways, each protecting a new transformer.





Results

The System VI Switchgear installation blends with nearby transformers and landscaping, as shown in the photo at right. Although it doesn't take center stage at the production company, System VI Switchgear has a leading role in supporting the illusions created. Without it, there would be no "lights, cameras, action!"

