CANADA

CALGARY

Forty-year-old oil-impregnated 138 kV power cables were replaced with solid dielectric XLPE cables in Calgary, Alberta. This two-year project included removing both the two circuits SCFF and two circuits HPFF cable system. The entire length of each circuit's dielectric fluid were drain, collected and properly disposed. The underground high voltage cable, cable pipe, pothead risers, pothead termination foundations were removed. Also included in the scope of work was the disposal of contaminated soil and the installation of steel pipes underneath the railway and LRT tracks.

The new XLPE cables were installed in a new encased concrete ductbank with 16 manholes in the downtown core. Asbestos was discovered on the HPFF pipe and proper asbestos abatement procedures were implemented. Despite this setback and even obliging the city's 10-day major festival (Calgary Festival), the project schedule was still maintained within two weeks of the original in-service date. A complete restoration was performed along the city's sidewalks and streets on the utility's right-of-way. At the substation, a Distributed Temperature Sensing (DTS) system was installed to monitor the newly installed circuits.