

PROJECT PROFILE

PEARSON INTERNATIONAL AIRPORT



MIKE LEE
PROJECT
MANAGER,
PLAN ELECTRIC

The biggest airport in Canada is getting busier and better. A trip through Lester B. Pearson International confirms that on any given day over 1,200 aircraft arrive and depart from the massive Toronto airport. Travellers rush to domestic, national and international connections.

Airport traffic is expected to increase to an estimated 50 million passengers annually by 2020. The Greater Toronto Airport Authority has a progressive 10-year, \$4.4 billion Airport Development Program plan underway, including over \$3 billion for terminal expansion to meet the needs of all adventurers, vacationers and business travellers passing through Pearson.

Imagine what it takes to light up an airport and to run all the equipment. Every facet of the construction requires electrical wiring. Alcan NUAL® conductors are being used on this project. NUAL aluminum alloy conductor material is the preferred choice for wire and cable products in various electrical applications. These conductor designs consistently provide a superior combination of strength and conductivity for distribution, riser and feeder applications. NUAL is strong, flexible and only half as heavy as the electrically equivalent size of copper; is an excellent conductor of heat and electricity; is highly resistant to corrosion; is non-magnetic and easily recyclable. Multi-conductor constructions are available in 600 and 1000-volt ratings in sizes 6 AWG to 750 kcmil (13.3 to 380 mm²) in NUAL.

“We will be installing approximately 18,000 metres of Alcan NUAL conductor on this expansion project,” says Mike Lee, Project Manager for Plan Electric at the Pearson Airport. Plan Electric is responsible for installing the power distribution and lighting,

building management system wiring, fire alarm and tenant work systems for the new terminal. “Stage 1 started for us in September of 2000 and was wrapped up in October 2003 in time for the public opening of the terminal in April 2004.”

Mike is impressed with the NUAL used on the site. “The guys seem to like working with it.” The support systems used at the Pearson Airport expansion are cable tray and Unistrut supports, with cables, ties and Unistrut clamps. Plan Electric used a range of NUAL TECK90 cables from 250 kcmil to 1000 kcmil.

“We have installed runs as long as 750 feet (230 m). Being able to eliminate a lot of junction boxes is a big plus,” says Lee. “Pulling is more efficient. The longer runs are easier to handle with NUAL as it is significantly lighter than copper. This was my first experience with NUAL, but the material handling aspect alone makes it a product I would not hesitate to use on future projects.”

NUAL[®]
CONDUCTORS

Toronto, Ontario



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