



LESTER B. PEARSON INTERNATIONAL AIRPORT TERMINAL 1

TORONTO, ON



QUICK FACTS

- + Airports / Aviation
- + 4,000,000 square feet
- + \$2-billion Budget
- + Award-Winning Project
- + Smith + Andersen
Mechanical and Electrical



PHOTO CREDIT: Adamson Associates Architects



LESTER B. PEARSON INTERNATIONAL AIRPORT TERMINAL 1

ABOUT THIS PROJECT

- + Terminal 1 at Lester B. Pearson, Canada's largest airport, is a hub for more than 400,000 flights per year supporting over 30 million passengers - exceeding the predicted capacities.
- + Features retail shops, 80 gates, and is used for: public assembly, private office space, back-of-house facility service space (woodshops, metal shops, repair facilities, cart storage and charging areas, secure and non-secure areas, RCMP, CATSA, and police detention areas).
- + Selected the mechanical systems to suit a variety of zones and conditions, and must be flexible enough to accommodate large swings in population: both stationary and continuous circulation (at check-in counters, security checkpoints, baggage claim, gates, and corridors).
- + Occupancy swings may occur hourly, daily and seasonally, which was a significant factor when determining the size of air handling units as well as thermostatic zone control.
- + Required upwards of 15,000 tons of cooling, a system that will be supplied through the Central Utilities Building.
- + Unique challenges associated with each terminal building yet, there are common elements affecting the mechanical design encountered across all projects.

LOCATION
Toronto, ON

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical, Electrical

SIZE
4,000,000 sq. ft. (371,612 sq. m.)

BUDGET
\$2 Billion

COMPLETION YEAR
2007

AWARDS
Canadian Consulting Engineers
- Award of Merit: Transportation
(2001)

Design Exchange - National
Post Design Exchange Award:
Architecture- Commercial,
Honorable Mention (2004)

Society for Environmental Graphic
Design - Merit Award for Signage
and Wayfinding (2004)

American Institute of Steel
Construction - Innovative Design
and Excellence in Architecture
with Steel (2006)

HOT BUTTONS

AIRPORTS / AVIATION

OFFICE SPACES

RESTAURANTS

RETAIL STORES

EMERGENCY SYSTEM

MECHANICAL DESIGN

ELECTRICAL DESIGN



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