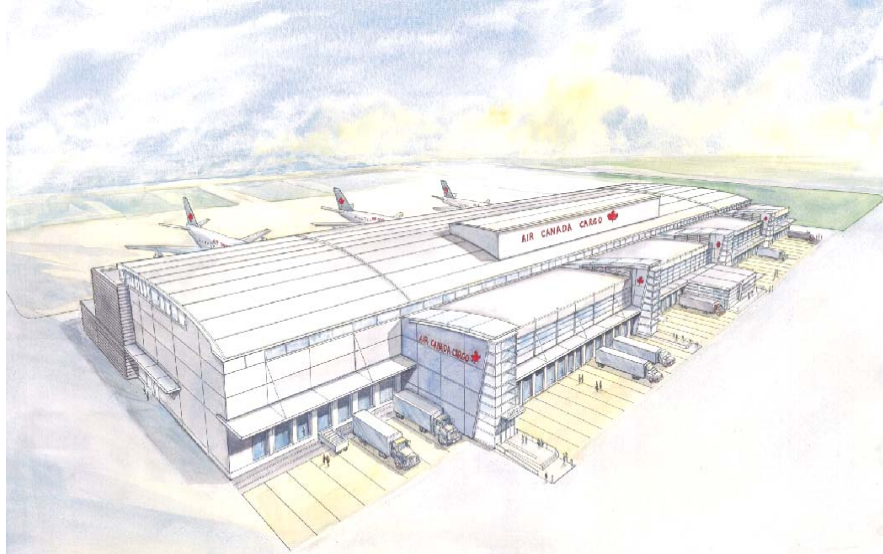


AIR CANADA CARGO TORONTO - YYZ



OWNER
AIR CANADA

OWNER'S REPRESENTATIVE
GEORGE MENDE, AIR CANADA

BNP PROJECT DIRECTOR
NORBERT AWLASEWICZ

LOCATION
LESTER B. PEARSON
INTERNATIONAL AIRPORT,
TORONTO

COMPLETION DATE
2002

MHS CONTRACT AMOUNT
US \$30 MILLION

REFERENCE
MR GEORGE MENDE (retired)
DIRECTOR FACILITIES SERVICES
AIR CANADA CENTRE 230—PO 14000
PO BOX 6002
LBP INTERNATIONAL AIRPORT
TORONTO AMF, ONTARIO L5P 1B4
EMAIL: michael.philip.roy@aircanada.ca
PHONE: 905-676-4464

SCOPE OF SERVICES
CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

RELEVANCE
AUTOMATED CARGO SYSTEM

Air Canada Cargo in Toronto (YYZ) relocated to the new Infield Terminal area as part of the master plan for the Lester B. Pearson International Airport. Known as the Millennium Air Cargo Complex, this system combines many technologies and control features to serve the needs of a "combination carrier" such as Air Canada.

As their hub operation, the requirements of Air Canada included airside/landside operations as well as Road Feeder Service for special "city" connections. By-Pass systems allow flow through of containers and pallets between air and road transportation, greatly reducing the departure close-out time requirements as well as the lengthy arrival time delays, normally experienced by other multiple conveying system links.

For efficiency, Air Canada decided upon full automation of all eligible handling systems. This level of control and the productivity gains, justified the capital investment.

The cargo handling system consists of ULD storage System (CSS), Roll Box Storage (RBSS) and Bulk Transport (BTS - Robo-Train-X) systems. The entire cargo handling system (mechanized) is supervised by an automated Inventory Control System (ICS). For further handling needs, a Small Package Handling (SPS) System was developed, to convey small parcels between Customer Service Counter(s) and a Make-Up Device within the Cargo Terminal.

Operator interface and control panels are computer powered touch screens that mimic pushbutton controls. The ICS can be accessed from any computer workstation terminal within the cargo facility as an application program under *WINDOWS*.

The Air Canada cargo reservation system, TOTEM communicates directly with the ICS for full data and cargo tracking.

BNP designed both the automation and equipment for this innovative terminal with a design processing capacity of 400,000 tons for Air Canada Cargo.