

LESTER B. PEARSON INTERNATIONAL AIRPORT- New Terminal Baggage Handling System - Toronto, Ontario, Canada



OWNER

GREATER TORONTO AIRPORTS
AUTHORITY

BNP PROJECT MANAGER

JIMMY A. MENOSCAL

LOCATION

TORONTO, ONTARIO, CANADA

CONTRACT PERIOD

1996 - 2006

ENTIRE PROJECT AMOUNT

US \$ 4.4 BILLION

BHS CONSTRUCTION AMOUNT

US \$80 MILLION

REFERENCE

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SCOPE OF SERVICES

CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

RELEVANCE

AUTOMATED BAGGAGE HANDLING
SYSTEM UTILIZING 10-DIGIT IATA
BAG TAGS, INBOUND BAGGAGE
HANDLING INCLUDING 100% HOLD
BAG SCREENING

BNP was retained by Airports Architects Canada to provide design services for the Inbound and Outbound Baggage Handling System of the New Terminal. The primary tenant is Air Canada.

The outbound baggage system consists of (3) three check-in islands for Domestic and (6) six check-in islands for International for a total provision of 92 counter positions.

As a base design, the counters are configured with individual feeder conveyors for each position. Given the length available for the check-in rows, the number of agent positions per collection conveyor is 16. In the International check-in area all of the check-in feeder conveyors are provided with weigh scales.

The Transborder check-in counter subsystem consists of 52 counter positions. Baggage is not accepted at the check-in positions as this is done after US Customs and Immigration. In this respect, at the inlet to the concourse four input conveyors are provided to accept checked luggage. Seven of the nine positions are for standard bags and two are for oddsize baggage. The collection conveyors decline to level one and join the outbound distribution system.

The sortation subsystem consists of four separate bagrooms, divided as follows; one bagroom for Rapid Air (8 laterals) in Pier D, one bagroom for Domestic (20 laterals) in Pier E, two bagrooms for International and Transborder (20 laterals for Int'l, 25 laterals for Transborder) in Pier F. The capacity for each of the sortation systems in each bagroom is 100 bags per minute. Sortation is accomplished utilizing high-speed pushers positioned on high-speed conveyors. Each of these systems is fed from their respective ticket counter conveyors.

The inbound system consists of four inclined plate devices (70 linear meters each) for Domestic and nine inclined plate claim devices (70 linear meters each) for international. Additionally, four oversize slides are provided throughout the claim hall for oddsize baggage.

The design of the outbound baggage system includes a multi-level, integrated 100% Hold Baggage Screening which is being implemented into the base design of the system.

BNP's scope of work includes concept design through construction monitoring with full time site engineers.