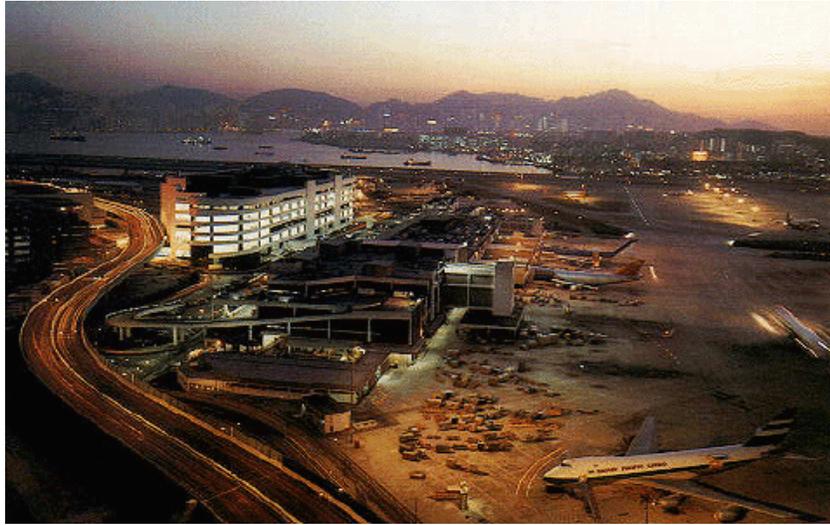


HACTL CARGO COMPLEX HONG KONG - HKG



OWNER

HONG KONG AIR CARGO
TERMINALS LTD.—HACTL

OWNER'S REPRESENTATIVE

ANTHONY CHARTER, HACTL

BNP PROJECT DIRECTOR

DAVID BOOTH

LOCATION

HONG KONG INTERNATIONAL
AIRPORT
HONG KONG

COMPLETION DATE

1991

CONTRACT AMOUNT

US \$100 MILLION

REFERENCE

MR ANTHONY CHARTER
MANAGING DIRECTOR
CARGO TERM BLDG C.L.M.
HONG KONG INT'L AIRPORT
HONG KONG
PHONE: 852-753-2102

SCOPE OF SERVICES

CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

RELEVANCE

AUTOMATED CARGO SYSTEM

The Phase II building was designed as an expansion to an existing 500,000 sq ft cargo building for which BNP had designed the automated material handling systems in the mid-1970's. Based on the original system success, Hong Kong Air Cargo Terminals Ltd. (HACTL) retained BNP for the overall planning, architectural design, and equipment design of the entire facility.

The Phase II expansion consists of three warehouse floor levels with ramps, roadway and truck docks on all three levels. The primary design problem was to accommodate all required functions within a very limited site. This necessitated the development of a vertical, rather than horizontal, material movement system. Truck ramps had to be provided to allow truck delivery to the third level of the facility, nearly 80' above ground level.

The facility is designed to accommodate four multi-level ETV systems, four empty pallet stacking mezzanines, forty-six workstations, prepack dock vehicles and airside hoists.

The project objective mandated a twenty-month schedule from design initiation through to terminal operation.

In 1989 HACTL retained BNP once gain, for the review and revision of the conceptual design for a second cargo terminal. This facility involved seven levels of warehousing with the objective of doubling cargo processing volume to approximately 1.5 million tons per year. When completed in 1991, Terminal 2 became one of the largest cargo terminals in the world in terms of size and capacity.