

SINGAPORE AIRPORT TERMINAL SERVICES (SATS) – TERMINAL 6 SINGAPORE



OWNER

SINGAPORE AIRPORT TERMINAL
SERVICES—SATS

OWNER'S REPRESENTATIVE

PETER TAY, SATS

BNP PROJECT DIRECTOR

NORBERT AWLASEWICZ

LOCATION

CHANGI INTERNATIONAL AIRPORT,
SINGAPORE

COMPLETION DATE

2001

MHS CONTRACT AMOUNT

US \$65 MILLION

REFERENCE

MR PETER TAY
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SCOPE OF SERVICES

CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

RELEVANCE

AUTOMATED CARGO SYSTEM

BNP was retained in 1994 by Singapore Airport Terminal Services to provide conceptual design services for AFT6, SATS sixth airfreight terminal at Singapore Changi Airport and the seventh SATS airfreight terminal in Singapore are designed by BNP.

After completing the conceptual design phase, BNP was retained to develop contract documents, building interface requirements, tender evaluation services, and construction monitoring to progress the development of T6. The Project became operational in the year 2001 with a design processing capacity of 1,250,000 tonnes per annum.

Site size constraints required a high throughput facility to meet the SATS Cargo aggressive growth rate. BNP designed a multi-level facility building which will contain three warehouse levels, two landside interface levels, and eight levels of ULD storage. The facility will include multiple Elevating Transfer Vehicles, Transfer Vehicle and Bridge Vehicle systems.

Other systems include an automated 4'x8' bin distribution system and AS/RS. The main ETV system will be situated on the second story to provide an unobstructed area below for airside interface. In order to transport ULDs from the ground floor to the upper levels of the warehouse and the main ETV storage area, 10 double capacity ULD lifts are provided in the airside interface area. These lifts have the ability to transport ULDs directly from/to the airside interface from/to all warehouse levels without ETV participation.

The new Terminal 6 provides for bulk freight (roll box) and ULD transfers For Transshipment, as well as Import and Export requirements connections between the existing Terminal 5.

T6 is one of the largest airfreight terminals in Southeast Asia and the world. With the addition of Terminal 6, SATS Cargo has the ability to process nearly 2 million tons per annum of freight in Singapore, all with facilities designed by BNP.



PROJECT BRIEF