

## SATS CARGO T1 - T4 SINGAPORE - SIN



### OWNER

SINGAPORE AIRPORT TERMINAL  
SERVICES—SATS

### OWNER'S REPRESENTATIVE

PETER TAY, SATS

### BNP PROJECT DIRECTOR

NORBERT AWLASEWICZ

### LOCATION

CHANGI INTERNATIONAL AIRPORT  
SINGAPORE

### COMPLETION DATE

1989

### MHS CONTRACT AMOUNT

US \$30 MILLION

### REFERENCE

MR PETER TAY  
TERMINAL MANAGER  
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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 1977 by Singapore Airport Terminal Services (SATS) to develop a master plan study for the cargo complex at the new Singapore Changi Airport.

A study and conceptual design of a multiple carrier cargo terminal was based on a modular approach which was previously used at the Paya Labar Airport. The first stage of implementation was completed in 1981. The first stage T2-T3 was subsequently expanded to include T1-T4 thus completing the master plan of the original concept. Full build out provides a cargo capacity to process 850,000 tons per year.

The terminal is a model of integration between building and material handling equipment for a good working environment designed for future growth. The facility houses multiple ETV systems, ULD transfer equipment, bridge crane vehicles and bulk cargo handling systems. Mezzanine offices are provided for airlines, SATS administration and personnel functions.

The facility serves approximately 25 international carriers. The principle carrier is Singapore Airline, which accounts for approximately 40 percent of the traffic and has a capacity of over 700,000 tons per year. The mechanized systems, which accommodates both bulk freight and airborne unit load processing, have been credited with two notable achievements: being rated among the lowest for overall operating costs and low mishandling rates.

BNP has also designed an Airborne Unit Load Device, (AULD), handling facility at Changi Airport. AULD type containers are inspected, repaired, cleaned and painted through efficient mechanized systems.



PROJECT BRIEF