

Asia Airfreight Terminal chooses Chubb to protect valuable cargo handling areas from fire risk

Located at the world's busiest international air cargo airport, the Asia Airfreight Terminal is constructed on reclaimed land at Hong Kong's International Chek Lap Kok Airport. The new airport was opened in 1998 and has been one of the world's largest engineering projects ever to be completed due to the size of the reclaimed land. Throughout the project, quality and leading edge design were emphasized and construction partners were chosen to reflect these priorities.

Between 1996 and July, 1998 when the work was completed, Chubb supplied, installed, tested and commissioned the fire protection system to protect the entire 28,500 square meters of the Asia Airfreight Terminal. This AAT air cargo handling facility included office buildings and a material handling system.

Chubb was chosen for this project because of its experience in mega projects. It was critical to the customer that the complex and comprehensive fire system was installed within budget, allocated timeframes and according to stringent design parameters.

Several detection and suppression systems were connected to provide a robust fire protection solution. The detection, alarm and suppression system included an automatic sprinkler system, drencher system, FM200 gas extinguishing system, fire hydrants, hose reels and portable fire extinguishers; the fire detection system encompassed a high sensitivity smoke detector.

One of the unique requirements of the fire system was that it had to be able to detect and suppress fires in a large material handling area where pallet containers were stored in multi-level storage racks. The automated storage and retrieval system used elevating transfer vehicles to handle bulk freight in the stacker system. With the constant movement of freight the fire system had to be able to detect and put out a fire in



the difficult to reach areas of the terminal.

Developer:
Asia Airfreight Terminal Ltd

Architect:
Liang Peddle Thorp Ltd.

Electrical & Mechanical Consultant:
Rankine and Hill

Main contractor:
Shimizu Corp, Hong Kong

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