

EXPLOSION DETECTION SYSTEMS

Project	Baggage Handling Explosion Detection Systems
Location	Whitehorse, Iqaluit, Yellowknife
Service	Full A/E Services
Process	Various
Value	N/A
Status	Completed

In 2003, a post- 9/11 International Civil Aviation Organization (ICAO) mandate required Canadian Air Transport Security Authority (CATSA) to significantly improve passenger screening procedures with the introduction of EDS (Explosive Detection System) technology at a number of designated Canadian airports.

Subsequently, northern Canada's 3 largest airports were designated to have EDS installed in their facilities. FSC was commissioned to work on all 3 projects either as a subconsultant to MMM or as prime consultant.

The major challenge that EDS deployment in southern terminals did not have was the significant percentage of oversize and overweight baggage in Northern travel with 'action packers' becoming the suitcase of choice.

Through our association with MMM, FSC Architects and Engineers provided building-related consulting services throughout all phases of the projects to the satisfaction of the various

client groups including Property Management Agency, Aviation and Marine Branch, GNWT-PWS, YTG-DHPW, GN-CGS, CATSA and all end users.

The following is a brief synopsis of each of the projects work.

Whitehorse - MMM was retained as prime consultant with primary mandate to deal with EDS and associated baggage handling systems. FSC's Whitehorse office provided architectural and engineering services for the following scope of work: Screening Room and Hold Room re-configuration and expansion, airline office renovations and improvements, EDS co-ordination with major conveyance system upgrades.

Iqaluit - The exiting ATB in Iqaluit is a defined structure using pre-stressed fiberglass panels for exterior cladding and insulation. FSC provided A/E service for a new annex building to house carrier offices while redesigning existing internal areas to accommodate the new EDS process. A 2 phase decanting and phasing process to maintain existing operations moving while completing the construction.

Yellowknife - Through a design-build process with Clark Builders, an addition of 1145 m² was added to the existing passenger terminal to accommodate a new baggage handling system for EDS implementation. EDS systems incorporated two vertical sorting devices as well as one front-of-house system for trace screening and to handle oversize and early check-in luggage. A two-story solution was chosen to minimize the size of the addition on a very constrained site.

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