



#### Client:

Defence Construction Canada (DCC)

#### Location:

CFB Trenton, Ontario

#### Start Date:

August 2006

#### Completion Date:

June 2010

#### Construction Value:

\$24 million

#### IT/Comms & Electronic Security Consultancy Value:

\$335,000

#### Client contact:

Available upon request

#### Key personnel:

**Bill Weekes** CET RCDD CFOT

**Project Type:** Design-Build

**Project Role:** IT/Communications & Electronic Security Consultant

**Project Description:** The 63,200 sq ft CFAWC facility has an operational focus on aerospace doctrine development, analysis and lessons learned, professional military education, Air Force concept development and experimentation, distributed mission training and synthetic environment coordination. This leading edge facility includes a lecture theatre, library, offices, simulation spaces, meeting rooms and classrooms – all spaces wired for appropriate access within the 3 levels of security zones.

Fancom designed the voice, data (three systems), access control, video surveillance, intrusion detection, public address and theatre cabling systems for the CFAWC facility. Bill Weekes and his team coordinated the design of the main telecom room and three telecom rooms alongside the architectural, electrical and mechanical consultants. Bill reviewed the back-up and emergency power requirements for electronic equipment and associated cooling systems. He participated and practiced LEED principles to apply for innovation points and attended bi-weekly meetings through the construction phase. Bill prepared the commissioning manuals for the three different electronic security systems and participated in every phase of the electronic security commissioning with the various contractors responsible for installation and commissioning.

#### Systems Designed:

##### Division 27: Communications

- Communications Cabling for Digital (Non-IP) Voice Applications
- Communications Cabling for IP Networks
- Communications Cabling for Analog Paging
- Communications Equipment for Analog Paging
- Communications Cabling for Audio-Video Systems
- Communications Equipment for Audio-Video Systems

##### Division 28: Electronic Safety and Security

- Electronic Access Control
- Electronic Video Surveillance
- Electronic Intrusion Detection

#### Services Provided:

- Conceptual Design
- Detailed Design
- Construction Documents
- Construction Administration
- Commissioning
- Close-Out Documentation