

- ✓ **Ecomm 700/800Mhz + UHF 400Mhz DAS Required**
- i Ecomm 700 / 800 Mhz users for Police & Ambulance UHF 400 Mhz users for Fire

## 01. Bylaw # 13888

This Bylaw applies to:

- (a) construction of each new applicable building; and (b) construction of a portion of a building which:
  - (i) adds more than 20% floor area to the total floor area of the building;
  - (ii) results in the building meeting the definition of an applicable building;
  - (iii) has a building permit construction value exceeding \$1,000,000.

## 02. Amplification Requirements

### Amplification is Required in the City of Burnaby

City of Burnaby Police & Ambulance use Ecomm 700 /800 MHZ system  
Burnaby Fire (BFD) use UHF 400Mhz band radios  
Both systems must be amplified to the standard thresholds

- 1) **Minimum Signal Strength = -95db (Design threshold = -85db)**
- 2) Minimum coverage of 90% of the area of each floor of the building, including underground areas such as for parking and 100% of the fire command centres, stairwells, protect-in-place areas, lobby refuge areas, equipment rooms and highhazard areas
- 3) All cable to be minimum FT4 Rated

## 03. Power Requirements

**4 Hour battery backup is required**

## 04. Alarms System Requirements

**The system must display an alarm fault on the building annunciator panel if:**

- 1) Primary AC power to system fails (AC Fail)
- 2) Battery Backup fails (UPS Fail)
- 3) Any amplifier is in fault or is shutdown (Ecomm System Fail)

## 05. Testing & Certification Requirements

**Testing must be completed by an Approved Ecomm Installer and certified by an independant RF engineer**

A minimum signal strength of -95db must be observed in a 15' x 15' grid pattern for a minimum of 90% of the area of each floor of the building, including underground areas such as for parking and 100% of fire command centres, stairwells, protect-in-place areas, lobby refuge areas, equipment rooms and highhazard areas

Standard Ecomm approval and comissioning forms must be completed and submitted to ecomm and the relevant fire / permitting authorities and final certification recieved prior to ocupany permit being issued.