

# Metro Region ARMER Standards

## Section 1 – Metro 1.8.1 Bi-Directional Amplifier Systems

Date Established

10-28-09

Date Revised/Reviewed

4-11-19

### 1. Purpose or Objective

To establish the procedure for approval of installations of bi-directional amplifier systems (BDAs) to the metropolitan region of the ARMER system.

### 2. Technical Background

- Capabilities - None
- Constraints - None

### 3. Operational Context

Since changes to the metropolitan region of the ARMER system may affect more than one participant, changes and upgrades will need to be reviewed by the Metropolitan Emergency Services Board's (MESB) Radio Technical Operations Committee (RTOC) for possible performance or cost impact to some or all users of the system.

### 4. Recommended Protocol/Standard

Requests for the installation of BDAs which do not connect directly to the ARMER system must be reviewed by the appropriate sub-system administrators to ensure no interference with the ARMER system is caused.

### 5. Recommended Procedure

BDA requests which require direct physical connection to the ARMER system must be reviewed by the RTOC and approved by the MESB per Metro Radio Standard 1.8.0.

Requests for BDAs which are being installed to improve ARMER coverage in building shall be submitted to the appropriate sub-system administrator for review. The sub-system administrator will review the request to ensure the BDA will not cause interference with the ARMER system. If the BDA request is determined to have no negative effect on the ARMER system, the sub-system administrator may approve the installation of the BDA. If a determination is made that the proposed BDA design poses a risk to proper operation of any ARMER sub-system, the sub-system administrator can recommend a design change or request review by the RTOC. The sub-system administrator shall maintain a record of the installation and will notify first responders that a BDA exist in the building.

### 6. Management

The appropriate system manager or sub-system administrator will be responsible for the approval and tracking of BDAs which are installed to improve ARMER system coverage, but do not physically connect into the ARMER system.