

METRO REGION
800 MHz Trunked Regional Public Safety Radio System
Standards, Protocols, Procedures

Document Section:	1. Management of System	Radio TOC Recommended
Sub-Section:	METRO 1.8.1	
Procedure Title:	Bi-Directional Amplifier Systems	Date: 10/28/09
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1. Purpose or Objective

To establish the procedure for approval of installations of bi-directional amplifier systems (BDAs) to the regional public safety radio system.

2. Technical Background:

- **Capabilities**

- **Constraints**

3. Operational Context:

Since changes to the regional public safety radio system may affect more than one participant, changes and upgrades will need to be reviewed for possible performance or cost impact to some or all users of the system.

4. Recommended Protocol/ Standard:

Request for the installation of BDAs which do not connect directly to the ARMER system must be reviewed by the appropriate sub-system administrators to insure 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 Radio Technical Operations Committee and approved by the Metropolitan Emergency Services Board (see Metro Standard 1.8.0).

Requests for BDAs which are being installed to improve ARMER coverage in buildings 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

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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 subsystem system the sub-system administrator can recommend a design change or request review by the Radio TOC. The sub-system administrator shall maintain a record of the installation and will notify first responders that a BDA exists 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.