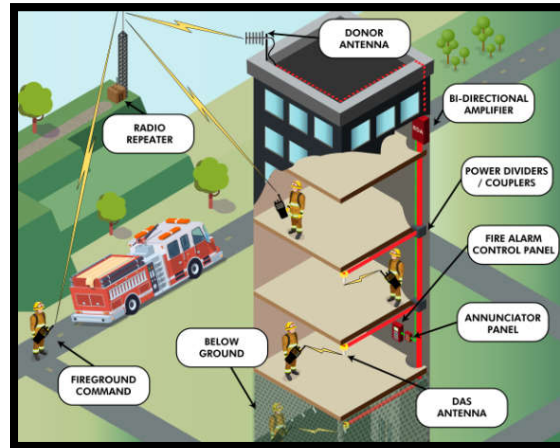




## Bi-Directional Amplifier “BDA” Distributed Antenna Systems “DAS” Plans Submission and Installation Requirements

Fire Plans submission for “BDA” systems shall comply with current edition of the Florida Fire Prevention Code to include NFPA 72: National Fire Alarm and Signaling Code, and NFPA 1221: Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems. In addition, the plans submitted shall meet the requirements set forth in Chapter 11 of the current edition of the Palm Beach County Local Amendments to the Florida Fire Prevention Code Chapter 69A-60, Florida Administrative Code and associated Addendum which states:



### Two-Way Radio Communication Enhancement Systems.

- In all new and existing buildings and structures, a minimum radio signal-strength of — 102dBm in the frequency band of 806-821/851-866 MHz shall be maintained. Where this signal strength cannot be achieved, an 800 MHz bi-directional amplified system, with a 24 hour run time on battery or UPS, shall be installed.
- The R/F scan for design purposes signal strength shall be considered reflective between the downlink and uplink channel with no loss between these readings
- All R/F scans that pass shall still be submitted to PBCFR Plan Review, accompanied by a letter (Signed & sealed) from an engineer
- A BDA annunciator is required within 25 feet of the entry door from outside without any intervening doors for monitoring the system.
- All circuits and wiring to include antennas shall be required to meet survivability requirements (with the exception of donor antenna due to high wind conditions incurring during a Hurricane).
- An RF scan is required every 5 years after initial install to ensure system integrity
- A service contract is required on all new and existing systems
- A sequence of operations shall be maintained at the BDA control panel for actions to be taken upon notification of any trouble conditions
- Systems with the capability to monitor indoor antenna circuits, shall send a trouble signal to the FACP when conditions warrant.

