



Bi-Directional Amplifier “BDA” Distributed Antenna Systems “DAS” Plan 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.

- In all new and existing buildings and structures that meet the criteria of FSS 633.202(18a), a minimum radio signal strength of – 102dBm in the frequency band of 700-800 MHz shall be maintained. Where this signal strength cannot be achieved, a 700-800 MHz bi-directional amplified system, with a 24-hour run time on battery or UPS, shall be installed. For specific frequencies contact PBC Radio Division 561-233-0830.
- A preliminary Rf scan will be required for review by PBCFR once the structure is completely closed, (roof, doors, windows, etc. installed).
- Send all RF scans via email to Fire-BDA@pbc.gov for review by PBCFR and the PBC Radio Division.
- All Rf scans are to include the SNR, FBER, threshold settings and are to be graded. Existing residential buildings shall include units and common areas.
- All R/F scans that pass shall still be submitted to PBCFR Plan Review.
- 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 of the Code.
- A service contract is required on all new and existing systems.
- An RF scan is required every 5 years after initial installation to ensure system integrity.
- 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.
- All new BDA systems must be commissioned by the Radio Division prior to Fire Department inspections.