



BUILDING DEPARTMENT

190 Malabar Road SW • Suite 105 • Palm Bay, Florida 32907

Phone: 321-953-8924 •

Email: permitinfo@palmbayflorida.org

Website: <https://ims.palmbayflorida.org/ims>



COMMERCIAL FIRE BDA-DAS REQUIRMENTS

Required Documentation

- Property owner authorization (signed contract, notarized letter).
- Proof of ownership (copy of warranty deed or County tax bill), if applicable.
- Recorded Notice of Commencement (if value is greater than \$5,000)

SUBMITTALS REQUIRED PRIOR TO PERMIT APPROVAL

- Complete equipment list
- Heat maps showing planned system coverage
- A Single-Line diagram of proposed system
- Diagram of Donor Antenna location on the building with azimuth to donor antenna site

NO BDA SUBMITTAL SHALL BE moved forward in the permitting process until these required documents are submitted for review and forwarded to Brevard County Emergency Management RF 800 MHz Division.

All submittals/drawings compliant with applicable FSS, FAC, FFPC, NFPA 72, NFPA 70 & NFPA 1221/1225

- Required before functional/final inspection can be scheduled.
- Copy of UL license of Monitoring Company (if new system or monitoring is changing).
- Completed commissioning test showing signal levels in the building
- BDA registered (Class A or B) with the FCC. Provide Signal Booster registration Number
- Completed Checklist from Brevard County. Further informational material from the 800MHz material with specific requirements shall be provided in the IMS system attached to your permit as "Supplemental information". Please check your permit in the portal for the additional information.

A final test will not be scheduled until the above documents are completed and forwarded with your request. After a successful review of the documents, the final test by 800 MHz division will be scheduled through the City of Palm Bay Building Department IMS Portal, coordinated by the Fire Inspector with Brevard County RF Personnel.



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SPECIAL NOTES AND REQUIREMENTS

- Monitoring for integrity of the system shall comply with NFPA 72 Chapter 10.
- A donor antenna of no more than 10dBi should be used in designing a system, unless the installing contractor can show a higher gain donor antenna is necessary for the design

Per Brevard County 800MHz Division, installing a larger unit than needed and “turning down” the power after its installation is not the preferred method in Brevard County and is not a good practice to follow. The size/gain of the unit should match the building following these guidelines:

1. Buildings up to 80,000 square feet can utilize, in most cases, a BDA with a maximum gain of 85dB.
2. Buildings from 80,000 to approximately 150,000 square feet can utilize, in most cases, a BDA with a maximum gain of 85dB to 95dB.
3. Buildings above 150,000 square feet or a system feeding multiple buildings may need a BDA with a maximum gain of 95 dB or more.
 - General building areas shall be provided with 95 percent floor area radio coverage.
 - A minimum downlink signal shall be sufficient to provide a minimum of DAQ 3.0 for voice communications using either narrowband, analog, or digital P25 signals or wideband LTE digital signals throughout the coverage area.
 - The uplink signal shall be sufficient to provide a minimum of DAQ 3.0 for voice communications using either narrowband, analog, or digital P25 signals or widespread LTE digital signals.

NOTE: Brevard County 800 MHz, as the FCC license frequency holder, requires antenna isolation to be 20 dB greater than the maximum gain of the Signal Booster. Isolation numbers derived from the adjusted system gain of the unit are not accepted. 800 MHz will test antenna isolation at final with Spectrum Analyzer.



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REQUIRED SITE DOCUMENTS

- Final Checklist (To be uploaded to the Permit in IMS) is required to be present on site during the Final Testing/Inspection
- An owner's manual and manufacturer's published instructions covering all system equipment.
- System drawings
- A completed emergency communications supplementary record of completion form (copy for fire inspector).
- Other supplementary record of completion forms as applicable (copy for fire inspector).
- Note: Additional documents may be required upon request by the Fire Plans Examiner.

COMMISSIONING TEST SCHEDULING DETAIL

- Before energizing the system to perform the commissioning test, vendors must inform Brevard County 800 MHz division by e-mail prior to proceeding.
- Send an e-mail to EMERMGT_800MHZRadio@brevardfl.gov advising the time, date, and location of the test, with a contact number in the event 800 MHz division needs to stop the test.
- Once the commissioning test is completed, the system shall be de-energized until the final inspection test is performed by 800 MHz division.

Your permit submittal is through Palm Bay Building Department, however, the 800MHz Emergency Communications System is supervised and operated by Brevard County. To reduce delays in your permit approval, please upload all required documents upon submittal and advise the Fire Inspector when any additional information is uploaded. The Fire Inspector shall coordinate inspections with Brevard County 800MHz Division personnel.

All documents are required to be electronically submitted through the IMS portal. The portal is an online application for the permit and all required information must be entered. When uploading documents, the "Requested Files" will only accept one (1) PDF, any additional files may be uploaded to the "Additional Uploads". Plans must be digitally signed and sealed by a Florida Licensed Architect/Engineer. To apply for a permit, you must register on the IMS portal. To learn how to register, please follow this link: [IMS Instructional Videos | City of Palm Bay, FL \(palmbayflorida.org\)](#). For assistance on this and other IMS questions please contact our office.

Note: Additional documents may be required upon request by the Fire Plans Examiner or Building Official