

Rockdale County Fire Rescue

Fire Marshal's Office  Plan Review	Emergency Communications System(s) (IFC 510; NFPA 1225) Job Name: _____ Address: _____ Bldgs. _____ Suite: _____ City: _____ Zip: _____ Responsible Party: _____ Phone: _____ Email: _____ GENERAL INFORMATION: Area of Building: _____ Number of Stories _____ Occupancy Type: _____ Construction Type _____ System Type: BDA ☐ N ☐ DAS ☐ N ☐ Class A Amp #of channels _____ Donor Site/Azimuth _____ Number of Remote Amplifiers _____
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✓ = Pass, X = Fail, NA = Not applicable	Status
DRAWING REQUIREMENTS: provide documentation or note for all the following	
1) Plans shall be clearly labeled and legible [1225-18.7.1]	
2) Plans shall include a single line wiring diagram including cable type [1225-18.2.1]	
3) Plans shall include a title sheet with full specifications and system operational description	
4) Mfg. specifications and cut sheets shall be included with plans [1225-18.7.1]	
5) Plans shall include a vicinity map showing Rockdale towers and building latitude and longitude	
6) Plans shall include details of system supervision and central station monitoring per [1225-18.14.1]. Monitoring by the FACP is the preferred method. All signals shall be supervisory	
7) Plans shall show a grid pattern for each level, not less than 20 grids per floor. Floors greater than 32,000 sf shall utilize grid layout of a maximum 40-ft x 40-ft grid [1225-18.8.2]	
8) Plans for every level must show anticipated signal levels in dBm for each grid [1225-18.8.2]	
9) Plans shall indicate the location of all system component [1225-18.7.1]	
10) Plans shall identify critical areas as and signal levels defined in [1225-18.8.3]	
11) Tower location and design talk-in/talk-out signal level at the Rockdale tower site (-95dBm required) Refer to technical documents for design details	
12) All critical areas as defined in NFPA 1225 SHALL BE COVERED WITH A MINIMUM OF -95dBm, show anticipated signal coverage in each area for talk-in and talk-out, AND DAQ of 3.0 or higher	
13) Shall be capable of transmitting all Rockdale 7/800 MHz frequencies and modulation technologies and shall be expandable to accommodate future Rockdale freq. (Min. 24 filter/channels)	
14) All system electronics shall be enclosed in NEMA 4 cabinet, batteries must be separate, and cabinets are required to be NEMA 3R compliant [1225-18.3.1]	
15) AC Power to be from dedicated circuit and 12-hour auxiliary supply, OR 2-hour battery supply and 12 hours of emergency generator run time [1225-18.13]	
16) Dedicated monitoring panel provided in fire command center (If there is a command center)	
17) All submissions shall include an acknowledgement by the building owners of the necessity for annual testing by means of a written statement scanned onto the plan set [1225-20.3.10.2.3]	
18) Add note: System acceptance and testing shall be witnessed by FMO [1225-20.2.2]	
19) System certification shall be provided and shall include a complete catalog of all tests and signal levels achieved after installation [1225-20.2.2] (Copy to FMO at inspection)	
20) Complete system acceptance testing documentation shall be kept on site in a document box located at the BDA cabinet. (Copy on site) [1225-21.3]	
21) Adequate means to protect all fire rated penetrations shall be detailed in the plan set	
22) All cables shall be documented to be rated for their respective use, plenum, riser etc.	
23) ERRC Designs shall bear both an FCC General Radio License and Low Voltage License credentials and signatures of the designer of record [1225-18.2.2]	
24) Provide the FCC General Radio License for the lead installation technician [1225-18.2.2]	
25) Donor antenna to DAS isolation shall be not less than 20dBm, [1225-18.10]	

The above is not an all-inclusive list; all applicable fire and life safety provisions must be met.
 Rockdale County reserves the right to order the disconnection and/or disconsolation of any system that fails to perform or causes interference, harmful or otherwise to any Rockdale County Communications system.

Reviewer: _____

Date: _____