July 1, 2010	**SANTA ROSA FIRE DEPARTMENT** FIRE PREVENTION BUREAU PLAN REVIEW CHECKLIST
City of Santa Rosa	**RADIO COMMUNICATION SYSTEM FOR EMERGENCY RESPONDERS**

Address:		**Permit #:**
Inspector:	**Date:**	**Status:**
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		A-Approved; AC-Approved w/comments; I-Incomplete; D-Denied

This Checklist outlines general requirements. Information contained herein applies to typical instances and may not address all circumstances.

CODE REFERENCES

2010 California Fire Code (CFC) Chapter 5 - 18.44.510

PERMITS REQUIRED

A Public Safety Communication System Installation permit

FILE REVIEW

	Y	N	
1.	☐	☐	Permit fees entered in Permits Plus. 3rd or greater checks require an hourly fee for the review.
2.	☐	☐	Three (3) sets of scaled plans and specifications
3.	☐	☐	Contractor shall provide, or have on file, a current Contractor's License.
4.	☐	☐	Worker's Compensation Insurance certificate.
5.	☐	☐	Current Santa Rosa Business Tax Certificate.
6.	☐	☐	Name and address of project
7.	☐	☐	Contractor's name, address, and telephone number.

SYSTEM NEEDED

REQUIRED INSPECTIONS

8.	☐	☐	Location of the building or development and signal in the area (non or weak signal).
9.	☐	☐	Description of system
10.	☐	☐	Specifications

	Y	N	
11.	☐	☐	Active or Passive system (amplified or non-amplified)
12.	☐	☐	Radio engineers have classified building by how much radio signal loss, in decibels, the building creates when you try and talk into it from the outside.
13.	☐	☐	Details on system security. Due to location, should the system be monitored 24/7 or routine inspection be performed.

SIGNAL REQUIREMENTS

14.	☐	☐	Documentation that system will achieve average in-building field strength of -95 dBm throughout 90% of the area of each floor of the building. If outside strength is lesser than inside shall be equal to outside strength (elevator coverage exempt).
15.	☐	☐	Documentation that average signal strength of -100 dBm is measured at the nearest police/fire receiver site. For REDCOM it would be (Mt Jackson) and Santa Rosa (Control 3) is at Bethlehem Tower. Voting is used.

DESIGN

ACTIVE SYSTEM

16.	☐	☐	Installation performed by FCC certified technician and all components are FCC Certified.
17.	☐	☐	System is designed to operate on VHF (151-159), UHF public safety (450-490 bands), 700 (future), 800 MHz bands, and Cellular/GSM/PCS frequencies.
18.	☐	☐	Filters to reject frequencies outside those used for emergency communications.
19.	☐	☐	Method of transmission throughout building (“leaking coax” or fiber optics). Penetrations through rated walls will need to be sealed.
20.	☐	☐	Emergency power. Active radio systems must have 12 hrs of emergency power supply via generator or battery backup. Generators must be approved and have a permit. Battery shall charge when in the presence of external power. Equipment room to be labeled as “Radio Equipment Room”.
21.	☐	☐	No interconnection to Fire Alarm system unless using Fire Alarm to monitor Radio Communication status through a “Supervisory” Circuit.
22.	☐	☐	Where booster equipment is stored in an area prone to water or chemicals it needs to be in a watertight case conforming to NEMA-4 standards.
23.	☐	☐	Power supply. Circuit breakers locked to prevent accidental shut-off.

PASSIVE SYSTEM

24.	☐	☐	Penetrations through rated walls will need to be sealed.
25.	☐	☐	System is designed to operate on VHF (151-159)