SAN DIEGO FIRE-RESCUE

COMMUNITY RISK REDUCTION DIVISION

Emergency Responder Communication Enhancement Systems Plan Review Aid

Project Name		Site Address	
PMT/Approval #		SDFD PR #		Email	

Submit this completed Plan Review Aid with the ERCES plan submittal.
Mark each item on the plans with an asterisk (*), star, or delta (Δ) and list its plan page number(s) below.

#	CODE	REF.	DESCRIPTION	YES	PLAN PAGE NO.
General Information					
1.	SDFD	Appx. C II.A.	Identified project address in plan set matches permit application information.		
2.	SDFD	Appx. C II.A.	Building description: construction type (per floor), number of floors above/below grade, sq ft, sprinklered/standard.		
Compliance					
3.	SDFD	Appx. C II.A.	Plan set identifies compliance with current CFC, NFPA, SDFD requirements, and FCC 47 CFR Part 90.219.		
Minimum Qualifications					
4.	CFC SDFD	510.5.3 VIII.B.	Required personnel are identified with approvable certifications based on permit application date requirements.		
Technical Criteria					
5.	SDFD	Appx. A	Identified signal frequencies only align with current SDFD requirements and those unique to the project (i.e. State, County, Port, etc.).		
6.	SDFD	Appx. A	CoSD communication site is identified with horizontal and vertical donor antenna signal pathway to site.		
Technical Requirements					
7.	SDFD	IV.A. IV.B.	Signal strength/coverage criteria align with current SDFD requirements.		
8.	CFC	510.4	All active equipment is UL 2524 certified.		
System Design					
9.	SDFD	Appx. C II.B.3.	Materials list and components are aligned throughout plan set, including manufacturer's spec sheets.		

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10.	SDFD	VI.D.1.	BDA is a Class A and/or identified as operating as a Class A.		
11.	SDFD	VI.C.1.	Primary power supply is identified as a dedicated, hard-wired, branch circuit with permanent identification as "ERCES" and a breaker locking device with red labeling.		
12.	CFC	510.4.2.3	Battery back-up calculations are provided and are adequate.		
13.	SDFD	VI.C.3.	System includes an EPO preferably located at the ERCES Dedicated Remote Annunciator or the BDA (Head-End) as an alternate option.		
14.	SDFD	VI.D.6. Appx. C II.B.9.	Plan set includes link budget (downlink & uplink) with uplink gain set to a maximum of 65 dB.		
15.	CFC	510.4.2.5	System is monitored by a listed FACP with all CFC required supervisory signals supported.		
16.	SDFD	VI.F.	System includes a dedicated annunciator at the FCC or an approved location (typically FACP) of each building containing amplification system components, wired for required system status indicators.		
17.	SDFD	VI.I.1.	Backbone, antenna distribution, radiating, and/or fiber-optic cables (located indoors) are rated as plenum cables.		
18.	SDFD	VI.I.6-8.	Backbone cables and components are protected from attack by fire.		
19.	SDFD	VI.I.9.	Active system components are within enclosures that meet or exceed required fire resistance ratings of the backbone cable.		
20.	SDFD	VI.J.1.	Donor antenna is identified as permanently affixed to the building.		
21.	SDFD	VI.J.2.	Donor antenna has a horizontal and vertical beamwidth of 30 degrees or less, and front-to-back ratio of 27 dB or greater.		
22.	NFPA 1225	18.4	System has lightning protection compliant with NFPA standard.		
23.	SDFD	VI.L.	Plan set identifies network connectivity aligned with SDFD requirements.		
24.	SDFD	VI.M.1-4.	Plan set identifies signage at all entrances aligned with SDFD requirements.		
25.	SDFD	Appx. C II.B.10.	System design includes heat map projections of anticipated signal strength.		