

## San Francisco Wireless Emergency Mesh

Ross Peterson (WB6ZBU)  
Peterson Technical Services  
P.O. Box 1043  
San Mateo, CA 94403

April 16th, 2023

Dear Ross,

I represent the San Francisco Wireless Emergency Mesh ([SFWEM](#)) also known simply as the Bay Area Mesh. We're a 501(c)(3) nonprofit registered with the IRS and the State of California composed of Amateur Radio Operators licensed by the Federal Communications Commission.

We're a volunteer-led project to install an [AREDN](#) based, resilient, high-speed wireless network throughout San Francisco and the greater Bay Area for use during disasters, emergencies, and large community events by responders, volunteers, and served agencies.

We use common off-the-shelf low powered radios to connect multiple "nodes" to deliver data at "internet speeds" over radio frequencies (RF) to locations such as Emergency Operations Centers and hospitals. Think of us as an alternate communication system when others might fail. As Chief Ari Delay of the San Bruno Fire Department put it, "One of our biggest threats we face is someone taking down the internet". He went on to say "the Mesh Network brings a layer of redundancy that is always welcome".

We ask that you consider hosting our equipment at Mount Allison, specifically on the south tower. We would like to install two dishes and radios (Ubiquiti AF-5G30-S45 antennas and airFiber 5XHD radios). One dish would connect to Fire Station 8 over near Palo Alto, the other would point towards Mount Umunhum. These radios would operate on frequencies between 5.6 and 5.9 GHz, Part 97 rules, as agreed and appropriate for the site and its other tenants.

We'd be very grateful to discuss this with you or your representative. I can be reached at 510-207-8308 or at [tim@sfwem.net](mailto:tim@sfwem.net)

Sincerely

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Tim Wilkinson - KN6PLV  
Board Member  
SFWEM

