



DEPARTMENT OF PUBLIC WORKS

Quality, Excellence, Innovation

Raul M. Rojas
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DATE: March 11, 2016

TO: MERA Executive Board

FROM: Pat Echols, Operations Officer

SUBJECT: AGENDA ITEM **C-3**: Update on KWMR Equipment at Mount Vision

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Recommended Action: Approve KWMR request to co-locate additional equipment at MERA's Mount Vision facility and direct MERA staff to update sublease accordingly, if warranted.

Accounting

Background: KWMR radio currently subleases space at MERA's Mount Vision facility. Pursuant to that sublease, KMWR cannot add additional facilities without MERA approval.

Airport

Building Maintenance

KWMR is requesting permission to add a 5-inch-diameter, 5.8 GHz dish antenna and associated equipment that will allow KMWR Internet access to their equipment cabinet at Mt. Vision for the purpose of transmitter remote control and monitoring. Service will be provided via a wireless link installed by Tomales Bay LAN. The installation will not allow Tomales Bay LAN to provide service to their customers from Mt. Vision.

Capital Projects

Certified Unified Program
Agency (CUPA)

Communications Maintenance

County Garage

Disability Access

MERA Operations Issues Working Group reviewed the request at their January 6, 2016 meeting. As the proposed facility will not interfere with MERA operations and will enhance KWMR's operational capability to disseminate information to the community in the event of emergency/disaster, the Working Group unanimously endorsed recommending approval of KMWR's request.

Engineering & Survey

Flood Control &
Water Resources

Land Development

Purchasing

Real Estate

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Road Maintenance

Stormwater Program

Transportation &
Traffic Operations

Waste Management



Date : 13 November 2015
To : Ms. Shelly Nelson
From : Richard Dillman
CC : Amanda Eichstaedt
Re : Proposal for Mt. Vision Internet Service

Background

The KWMR main transmitter is located in an outside cabinet at the Mt. Vision MERA site. We have remote on/off control of the transmitter to comply with FCC requirements but the operating parameters of the transmitter must be read manually by physical inspection. The objective of this proposal is to provide Internet access at the KWMR cabinet to allow the remote reading of all transmitter parameters.

Service Provider

An on-site survey by Tomales Bay LAN (TBL) revealed that Internet service can be provided at Mt. Vision via their wireless system.

Antenna at Mt. Vision

The TBL antenna at Mt. Vision will consist of a single 12.8" diameter dish aimed at the nearest TBL access point. See illustration below.



No space on the existing MERA monopoles will be required.

Transmitter Parameters

TBL has provided the following information about the equipment they propose to install on the KWMR cabinet.

Manufacturer and model	: Ubiquiti PowerBeam M5-300 (PBE-M5-300)
Transmitter power output	: 14dBm
Antenna type	: 12.8" dish
Antenna gain	: 22dBi
Frequency	: 5.8GHz

Interference

KWMR accepts responsibility for assuring that the installation is done in accordance with accepted good engineering practices. Should interference to MERA operations arise from the proposed installation KWMR accepts full responsibility to resolve the problem or to cease operation if the problem can not be resolved.

Installation and Maintenance

KWMR accepts full responsibility for the installation and maintenance of the proposed installation