

LIEBERMAN & WALISKO
CONSULTING TELECOMMUNICATIONS ENGINEERS
701 YEATMAN PARKWAY
SILVER SPRING, MD 20902

KMQA - Porterville, CA

E N G I N E E R I N G S T A T E M E N T

This Engineering Statement is given on behalf of MPB Licensee, LLC, licensee of KMQA-FM, Porterville, CA seeking a license for KMQA. KMQA was granted a construction permit, BMPH-20070416AAK, to change its transmitter site and employ a directional radiation pattern. These changes are now in place and KMQA is ready to operate at its authorized facilities.

Engineering Exhibit 1 is a reproduction of the installation manual supplied by the antenna manufacturer. Certain pages having to do with warranties and other non-germane topics have been redacted. The installation instructions and sketches have been included to enable the Staff to fully understand the placement of this antenna on its supporting structure.

The instant installed antenna meets the requirements of 47 C.F.R. Section §73.316 (C) (2) (ix) (A) in that when compared to the authorized envelope pattern, 86.8% of the RMS value is achieved.

Engineering Exhibit 1 also contains a polar plot of the instant installed antenna pattern and a tabulation of the measured relative values for this antenna.

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E N G I N E E R I N G S T A T E M E N T (Cont'd)

Statement with regard to 47 C.F.R. §Section 73.316

(C) (2) (viii) :

Page 26 of Engineering Exhibit 1 is a combination tower detail and elevation view of the instant tower. The tower detail view shows the orientation of the tower faces relative to true North. This exhibit was produced by a professional surveyor and provides the reference azimuth for the antenna installation to key off of. By scrupulously adhering to the installation instructions provided by the manufacturer, the installer was able to insure the antenna was aimed at N 349.1° E as required by the construction permit. This is set forth in the "Installation Procedure" and drawing number J807FM-614-002 of Engineering Exhibit 1. There was no other way this installation could have been carried out.

The foregoing is furnished to show compliance with compliance with 47 C.F.R. §Section 73.316 (C) (2) (viii).

Statement with regard to 47 C.F.R. Section §73.316

(C) (2) (iv), (v) and (vi) :

The instant antenna is side mounted on a structure that has been modeled by the antenna manufacturer when designing the instant directional antenna. It is not mounted on top of an antenna structure which includes a top mounted platform larger than the cross section of the instant tower as specified in 47 C.F.R. Section §73.316 (C) (2) (v).

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ENGINEERING STATEMENT (Cont'd)

Additionally, the instant antenna is not mounted on the same tower level as any other antenna nor are there any appurtenances within the aperture of the instant antenna as specified in 47 C.F.R. Section §73.316 (C) (2) (vi)

TABULATION OF ERP AND TPO*

	<u>Power in kW</u>	<u>Power in dB</u>
Desired ERP	2.00	3.0103
Antenna Gain	1.08	0.3342
35 feet Andrew HJ5-50B	-0.07	-0.1569
Transmitter Output	1.92	2.8330

* Because of rounding, the power and dB computations may not match exactly

Statement with regard to FCC Form 302, Paragraph 8:

The Construction Permit, BMPH-20070416AAK, for this facility requires that at N 330° E, the relative field shall be at 1.0 (2.0 kW). This condition has been met and is evidenced in the Measured Composite and Maximum Envelope Pattern and Tabulation supplied in the manufacturers certification and furnished herewith as Engineering Exhibit 1.

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Pursuant to 47 C.F.R. Section §73.316 (C) (2) (vii), this firm states its familiarity with and direct knowledge of the engineering personnel overseeing this installation and their ability to ensure that the installation of the instant antenna was conducted in accordance with the manufacturers written instructions and standards of good engineering practice.