

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

KMQA - East Porterville, CA

ENGINEERING STATEMENT

I ABSTRACT

This engineering exhibit supports an application of MPB Licensee, LLC, licensee of KMQA, East Porterville, CA requesting a construction permit authorizing a move from its current CP site to a new site on Blue Mountain.

This application proposes the continued use of FM channel 263 (100.5 MHz) but with an effective radiated power of 2.00 kW at a height above average terrain of 612.4 meters, corresponding to 50 kilowatts at 150 meters which is the maximum effective radiated power for this class of station.

This application meets all rules pertaining to compliance with 47 C.F.R. Section §73.215 for contour protection

This application does not technically meet the requirements of 47 C.F.R. Section §73.315(a) for signal strength when employing the methodology found in 47 C.F.R. Section §73.313. However, as demonstrated herein, using FCC accepted contour prediction methodology found in the FCC's own PTP signal strength prediction program, the requisite 70 dBu signal is placed over the instant city of license, East Porterville.

This engineering report complies in all other respects with the pertinent sections of the FCC rules.

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II RESPONSE TO FCC FORM 301

Paragraph 3:

The coordinates shown herein are for a site that meets the requirements set forth in 47 C.F.R. Section §73.215(e). The site is also shown in the map titled Engineering Exhibit 1, attached hereto.

Paragraph 5:

The tower to be used is of minimal height (less than 200' AGL) and shares land space with other towers at this location. As such, notice to the FAA was deemed unnecessary.

Paragraph 12:

In order to protect first adjacent assignment KHAY, Ventura, CA and co-channel assignment KMEN, Mendota, CA, the instant application proposes the use of a directional antenna. Co-channel assignment KXDZ, Templeton, CA requires no special protection. Engineering Exhibits 2 and 3 provide the requisite information sought by this paragraph.

Paragraph 13:

The instant application continues the use of FM channel 263 at E. Porterville, CA

Paragraph 14:

Engineering Exhibit 4 is a map depicting the 70 dBu coverage of East Porterville when constructed utilizing the method found in 47 C.F.R. Section §73.313. Engineering Exhibits 5 through 9 are supplied to demonstrate compliance with the requirements for supplemental showing of 70 dBu service when the standard prediction method is insufficient.

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Paragraph 14 (Cont'd):

Engineering Exhibit 10 is included to demonstrate compliance with 47 C.F.R. Section §73.315(a) and (b) for 70 dBu coverage of East Porterville.

Paragraph 16:

First adjacent station KHAY, Ventura, CA is a Class B assignment operating at 369 meters AAT with an ERP of 39 kW (FCC database). These parameters are beyond those allowed for this class of station. Under FCC rules, KHAY is afforded protection to the pertinent contours obtained from an operation of 150 meters AAT and an ERP of 50 kW. The FCC database has KHAY at 653 meters AMSL. Using the FCC method of computing the protected HAAT, 150 meters AAT is found at 434 meters. The pertinent contours for this assignment was thus constructed using 434 meters AAT at 50 kW. These contours are depicted in Engineering Exhibit 11 and show ample clearance as required by 47 C.F.R. §73.215 (1)(and (2)).

Co-channel station KMEN, Mendota, CA is a class A assignment operating at 6 kW and 44 meters AAT with a directional antenna. In constructing this station's pertinent contours, the stations HAAT was raised to 100 meters at 6 kW, the maximum for this class of station. Engineering Exhibit 11-A is an expanded view of the pertinent contour clearance between KMEN and the instant proposed KMQA.

Engineering Exhibit 12 is a frequency search under 47 C.F.R. Section §73.215 to show compliance of the instant proposed site with the spacing requirements of that section and Engineering Exhibit 11 is a plot of the clearance between the pertinent contours of the instant proposed KMQA, first adjacent station KHAY and co-channel stations KMEN and KXDZ.

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KQMA - East Porterville, CA

II RESPONSE TO FCC FORM 301 (Cont'd)

Paragraph 17:

The proposed construction will have no significant environmental impact and any FCC action with regard to this application would be categorically exempt from environmental processing under 47 C.F.R. Section §1.1306 of the rules. The instant proposed transmitter site is also used for microwave relay towers and does not fall into any of the categories specified in 47 C.F.R. Section §1.307(a) of the rules. High intensity obstruction lighting is currently not in use nor contemplated.

Calculations performed in Engineering Exhibit 13 using the procedures found in OST Bulletin #65 ANSI guidelines show that the theoretical "worst case" radio frequency radiation produced by the proposed operation would not exceed the limits of radio frequency protection guidelines contained in the ANSI standard (American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz). These "worst case" calculations assume an isotropic radiating source. Actual field strength values decrease significantly at elevation angles substantially below the horizon. The instant proposed antenna is an EPA Type 3 radiator.

Utilizing the procedures found in the OST Bulletin, the level at which the ANSI maximum allowable radiation limit of 0.2 mW/cm² for the instant proposed operation would be found is at 8.67 meters below the antenna. At 2 meters above the ground, the radiation value would be 0.0283 mW/cm² which is well below the ANSI maximum standard. In the event worker access to the tower is required, power to the antenna will be removed when the climber reaches 11.981 feet above the ground.

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KQMA - East Porterville, CA

II RESPONSE TO FCC FORM 301 (Cont'd)

Paragraph 17 (Con't):

The site itself has restricted access because it is on private property that is fenced and guarded and part of a huge cattle ranch. As such, the general public does not have access.

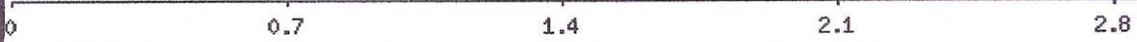
III METHODS EMPLOYED

All data and computations contained herein or upon which this engineering report is based are in complete accord with the pertinent sections of the FCC rules unless otherwise specifically so stated.

topozone
Copyright 1999-2003 Maps a la carte, Inc.



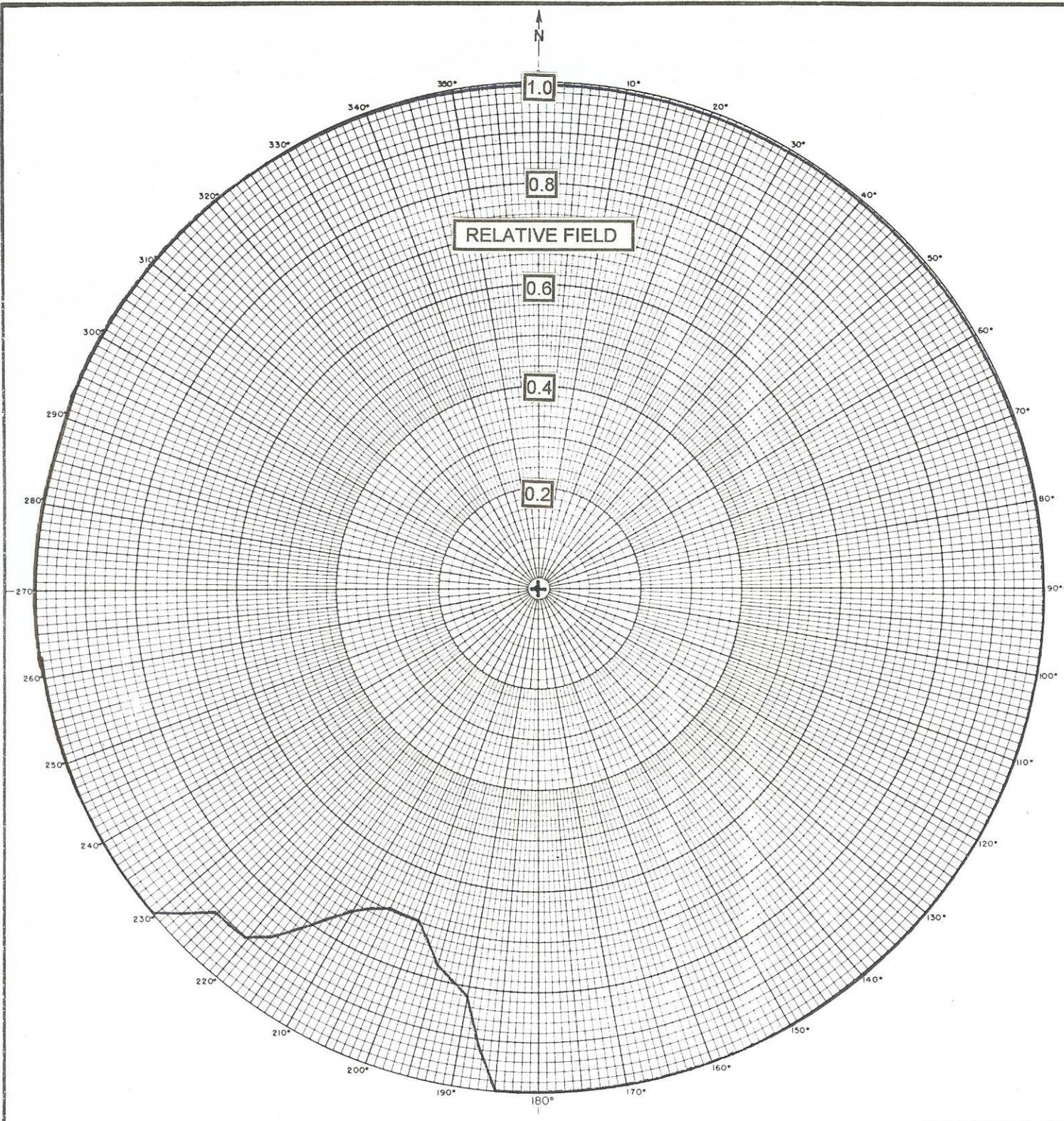
Kilometer



Map Source
USGS 1:24,000
White River, CA

ENG. EXHIBIT I

KQMA – E. Porterville, CA
**PROPOSED TRANSMITTER
SITE PER §73.215**
April 2007 Lieberman & Walisko



ENG. EXHIBIT 2

KQMA – E. Porterville, CA
RELATIVE FIELD ENVELOPE
HORIZONTAL PLANE

April 2007

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Engineering Exhibit 3

CALCULATED RADIATION VALUES

BEAR. (DEG)	ANT. FACT.	CALCULATED RAD.			CALCULATED RAD.	
		ANT. GAIN (dB)	HORIZONTAL (ERP)	PLANE (dBk)	MAIN (ERP)	BEAM (dBk)
0	1.000	0.00	2.00	3.01	2.00	3.01
10	1.000	0.00	2.00	3.01	2.00	3.01
20	1.000	0.00	2.00	3.01	2.00	3.01
30	1.000	0.00	2.00	3.01	2.00	3.01
40	1.000	0.00	2.00	3.01	2.00	3.01
50	1.000	0.00	2.00	3.01	2.00	3.01
60	1.000	0.00	2.00	3.01	2.00	3.01
70	1.000	0.00	2.00	3.01	2.00	3.01
80	1.000	0.00	2.00	3.01	2.00	3.01
90	1.000	0.00	2.00	3.01	2.00	3.01
100	1.000	0.00	2.00	3.01	2.00	3.01
110	1.000	0.00	2.00	3.01	2.00	3.01
120	1.000	0.00	2.00	3.01	2.00	3.01
130	1.000	0.00	2.00	3.01	2.00	3.01
140	1.000	0.00	2.00	3.01	2.00	3.01
150	1.000	0.00	2.00	3.01	2.00	3.01
160	1.000	0.00	2.00	3.01	2.00	3.01
170	1.000	0.00	2.00	3.01	2.00	3.01
180	1.000	0.00	2.00	3.01	2.00	3.01
190	0.820	-1.72	1.34	1.29	1.34	1.29
195	0.774	-2.23	1.20	0.79	1.20	0.79
200	0.700	-3.10	0.98	-0.09	0.98	-0.09
205	0.700	-3.10	0.98	-0.09	0.98	-0.09
210	0.740	-2.62	1.09	0.39	1.09	0.39
215	0.822	-1.70	1.35	1.31	1.35	1.31
220	0.905	-0.87	1.64	2.14	1.64	2.14
225	0.908	-0.84	1.65	2.17	1.65	2.17
230	1.000	0.00	2.00	3.01	2.00	3.01
240	1.000	0.00	2.00	3.01	2.00	3.01
250	1.000	0.00	2.00	3.01	2.00	3.01
260	1.000	0.00	2.00	3.01	2.00	3.01
270	1.000	0.00	2.00	3.01	2.00	3.01
280	1.000	0.00	2.00	3.01	2.00	3.01
290	1.000	0.00	2.00	3.01	2.00	3.01
300	1.000	0.00	2.00	3.01	2.00	3.01
310	1.000	0.00	2.00	3.01	2.00	3.01
320	1.000	0.00	2.00	3.01	2.00	3.01
330	1.000	0.00	2.00	3.01	2.00	3.01
340	1.000	0.00	2.00	3.01	2.00	3.01
350	1.000	0.00	2.00	3.01	2.00	3.01