

EXHIBIT E

POWER CALCULATIONS AT LANCASTER

The Z_{ant} was measured with a GR Bridge model 606B and a Potomac Signal Generator and detector model 31. The antenna impedance was measured as:

$$Z_{(\text{ant. 1690})} = 40 - j23.7\Omega$$

The radiated power was set by the FCC as 1000 Watts.

The $I_{(\text{ant. 1690})}$ was calculated by:

$$I = (P)^{1/2}/R = (1000/40)^{1/2} = 5.0 \text{ amp}$$

$$P = I^2R = (5)^2 40 = 1000 \text{ Watts}$$

The $I_{\text{ant.}}$ was monitored and recorded each 15 minutes. This data is located within the logs of Exhibit N.

EXHIBIT E

KAFY Oildale POWER

KAFY's transmitter power was taken from the
FCC Data file Base:

DAY: $P_o = 4.2 \text{ kW}$

Ant. = Non-DA

The Station's Licensed Operation was assumed to be accurate.

See attached excerpt from FCC Data Base.


KAFY Power
10.19.2004
Audio Division**AM Query & AM List Results**

(202)-418-2700

[FCC > MB > Audio Division > AM Query](#)[FM Query](#)[TV Query](#)[FCC s](#)

AM Query and AM List results are derived from the public files at <http://www.fcc.gov/mb/databases/cdbs>. Requests to correct data should be referred to [Son Nguyen, son.nguyen@fcc.gov](mailto:son.nguyen@fcc.gov). Comments on the AM Query may be referred to [Dale Bickel, dale.bickel@fcc.gov](mailto:dale.bickel@fcc.gov).

Sun Oct 17 09:58:11 2004 Eastern time

Search Parameters

Callsign: KAFY
 State: CA
 Lower Frequency: 530
 Upper Frequency: 1700

Next Record
KAFY
 Daytime
CA BAKERSFIELD**USA**

Licensee: KAFY, INC.

1100 kHz Licensed

Domestic Station Class: B- Region 2 Station Class (corresponds to W. Hemisphere): B

Coordination Status: Canada: - Mexico: - Region 2: -

File No: BL-20000621AFK Facility ID No.: 36027

CDBS Application ID No.: 505384

35° 27' 0.00 " N Latitude
 118° 56' 48.00 " W Longitude (NAD 27)

Power: 4.2 kilowatts (kW) Daytime

DAN - Directional Antenna: Nighttime only

Number of Augmentations to standard directional pattern: 0

RMS Standard: 0.00 mV/m at 1 kilometer

RMS Theoretical: 313.50 mV/m at 1 kilometer

1 tower

CDBS Ant. System ID: 70087

Tower information:

Tower No.	Field Ratio	Phase (deg)	Spacing (deg)	Orientation (degrees)	Electrical Height (deg)	Twr Ref. (#0)	-No Top Loaded or Sectionalized Tower(s)-	Antenna Struct Registration No.
1	1.000	0.00	0.00	0.00	102.10	0	0.00 0.00 0.00 0.00	1057537

Additional Individual Tower Information from the Antenna Structure Registration database.

Use the Registration Number links for detailed information

Tower No.	ASRN	Site Elevation (meters)	Overall Height (meters)	Overall Height Above Mean Sea Level (meters)	NAD 83 Tower Coordinates	Convert to NAD 27
1	1057537	161.5	78.8	240.3	N 35° 27' 0.0 " W 118° 56' 51.0 "	To NAD27

Approximate Sunrise & Sunset Times => [Pacific time zone](#)

CDBS: [Station Info](#) [Application Info](#) [Mailing Address](#) [Assignments and Transfers](#)
[Application List](#) [CDBS Search Page](#) [Ownership Info](#) [EEO](#)

Maps: [Region Map](#) [Area Map](#) [Local Map](#)

EXHIBIT **F**

Antenna Impedance Measurements by John Bartal
Under the direction of Norwood J. Patterson.
John Bartal is the transmitter maintenance
technician for KGDP 660 AM.

<u>Meas.</u> <u>No.</u>	<u>Fc</u> <u>MHz</u>	<u>R</u> <u>Ω</u>	<u>-jXc</u> <u>Raw Ω</u>	<u>-jXc/fcmh</u> <u>Corr. Ω</u>
1	1.650	36	-j19	-j11.52
2	1.660	37	-j22	-j13.25
3	1.670	38	-j28	-j16.77
4	1.680	39	-j34	-j20.18
5 f _{cc}	1.690	40	-j40	-j23.67
6	1.700	40	-j45	-j25.42
7	1.710	41	-j50	-j29.24
8	1.720	42	-j55	-j31.98
9	1.730	43	-j62	-j35.84
10	1.740	44	-j67	-j38.51

1690 kHz
 f_c

NO. 2301TRM MILLIMETER
LITHO IN U.S.A.

X/f_c
40-j
38
36
34
32
30
28
26
24
-j23
22
20
18
16
14
12
-j10
 X/f_c
-2
-5

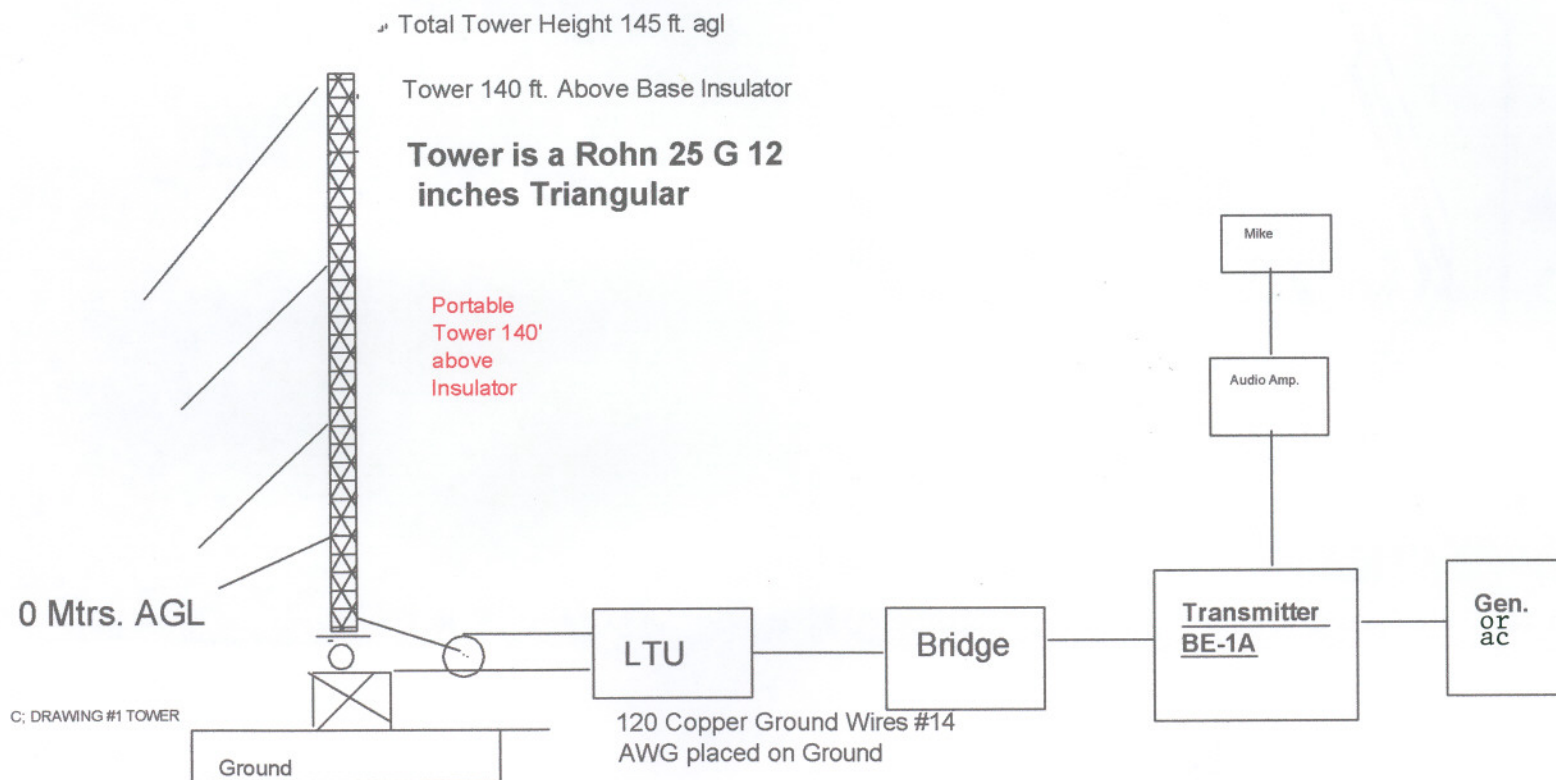
$Z_a(1690) = 40 - j23.67$

R_n

X_c Adjusted for Frequency
 $X_c/1.690 \text{ etc } (1.690/1740)$

1640 50 60 70 80 1690 1700 10 20 30 1740

KG6XDP Portable Guyed Tower KD6XDP System Set-up



KG6XDP Portable Guyed Tower

Antenna location where Antenna
Impeadance is measured.

