

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of PAPPAS TELECASTING OF NEVADA, A CALIFORNIA LIMITED PARTNERSHIP, permittee of KUVR-CA, Channel 68, Reno, Nevada, in support of this application for modification of Construction Permit BMP TTL-970725JA, a displacement authorization to operate the station on Channel 68 from atop Slide Mountain. The purpose of this modification is to change ERP, transmission line, and antenna make. No change in site location, antenna height, or supporting structure height is proposed herein.

It is proposed to mount an Antenna Concepts circularly polarized, slotted cylinder antenna at the authorized effective antenna height on the existing tower. In addition, since the U.S. Forest Service is currently not allowing the installation of the authorized 3" transmission line, the instant proposal specifies the use of 2-1/4" line while negotiations for the larger line continue with the U.S.F.S. The antenna will be fed with 10 kw of transmitter power (5 kw horizontal and 5 kw vertical). Antenna pattern data are provided in Exhibit B.

Operating parameters for the newly proposed facility are provided in Exhibit C. It is important to note that the newly proposed 74 dbu contour is completely contained within that authorized to KUVR-CA on Channel 68.

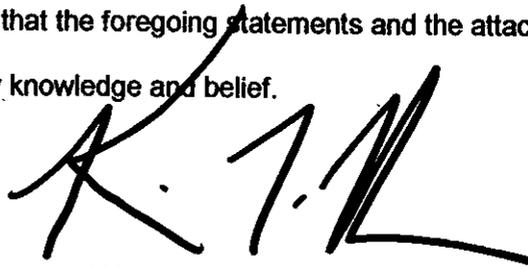
The FAA has not been advised of this proposal, since there is to be no change in the location or overall height of the existing tower. In addition, the tower has not been registered with the FCC due to the structure's diminutive height and proximity to the nearest airport.

The proposed site is shared by a number of broadcast and nonbroadcast facilities. It is not anticipated that the proposed changes will cause interference to any authorized facility, but the applicant accepts its responsibility for correcting any such problem that may result.

Because the Commission considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to the instant proposal. Using the methods set forth in *OET Bulletin No. 65* and considering the vertical pattern of the proposed antenna and the main-lobe ERP, we calculate maximum power density two meters above ground from the proposed facility to be 0.031 mw/cm^2 at locations approximately 11 meters from the tower base. Since the site is restricted from public access, meaning that there are no uncontrolled environments, and since the above power density value represents only 1.0 percent of the 2.7 mw/cm^2 occupational reference at this frequency, a grant of this proposal can be considered a minor environmental action with respect to exposure to nonionizing electromagnetic radiation.

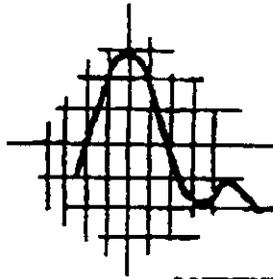
Further, the owner of KUVR-CA will coordinate with other users of this site to reduce power or temporarily leave the air to ensure that workers operating in close proximity to the proposed antenna are not exposed to excessive levels of RF energy.

I declare under penalty of perjury that the foregoing statements and the attached exhibits are true and correct to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read 'K. T. Fisher', is written over the printed name below.

KEVIN T. FISHER

April 24, 2002



ANTENNA CONCEPTS INC.

Pattern #1310

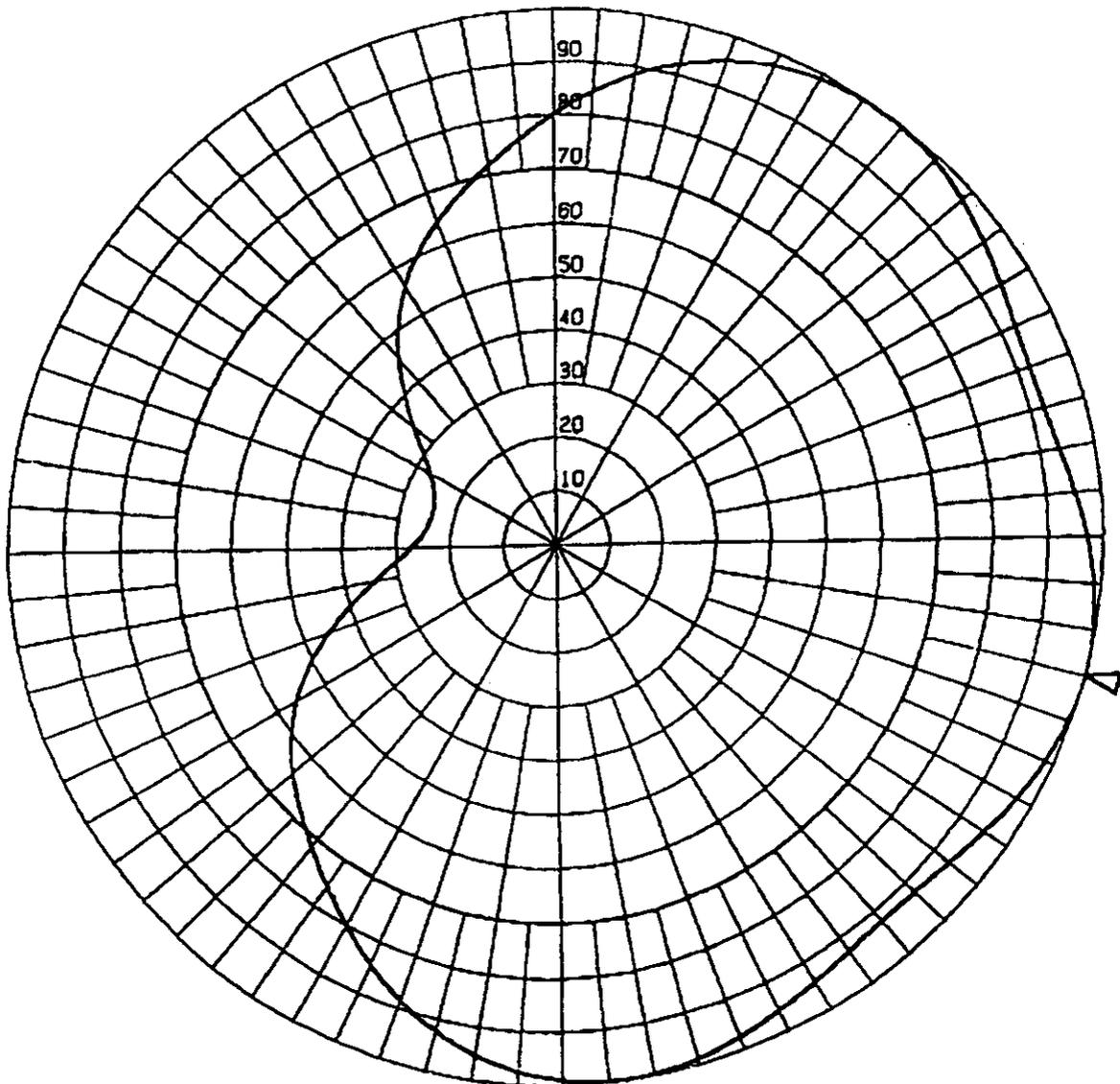
ANTENNA CONCEPTS' 24-BAY CIRCULARLY POLARIZED TRAVELING
WAVE SLOT ANTENNA ARRAY, TUNED TO CH. 68 (SLIDE MOUNTAIN)

MODEL NO. : ACT24A
ANTENNA GAIN : .009 (-20.5 dB) (HORIZONTAL GAIN @ HORIZON)
BEAM TILT : -2.25 DEGREES
PATTERN : CLONE OF ANDREW HSW

Azimuth	Relative Voltage	dBK	ERP
0	0.801	-2.9	514w
10	0.886	-2.0	628w
20	0.952	-1.4	725w
30	0.990	-1.1	783w
40	0.997	-1.0	795w
50	0.976	-1.2	762w
60	0.942	-1.5	710w
70	0.922	-1.7	681w
80	0.936	-1.5	700w
90	0.970	-1.2	752w
100	0.996	-1.0	793w
110	0.996	-1.0	793w
120	0.970	-1.2	752w
130	0.936	-1.5	700w
140	0.922	-1.7	681w
150	0.942	-1.5	710w
160	0.976	-1.2	762w
170	0.997	-1.0	795w
180	0.990	-1.1	783w
190	0.952	-1.4	725w
200	0.886	-2.0	628w
210	0.801	-2.9	514w
220	0.718	-3.9	412w
230	0.644	-4.8	331w
240	0.561	-6.0	251w
250	0.454	-7.8	165w
260	0.345	-10.2	94.9w
270	0.272	-12.3	59.2w
280	0.244	-13.2	47.6w
290	0.244	-13.2	47.6w
300	0.272	-12.3	59.2w
310	0.345	-10.2	94.9w
320	0.454	-7.8	165w
330	0.561	-6.0	251w
340	0.644	-4.8	331w
350	0.718	-3.9	412w

NOTE - Antenna will be oriented as depicted at 105° T.

RELATIVE VOLTAGE



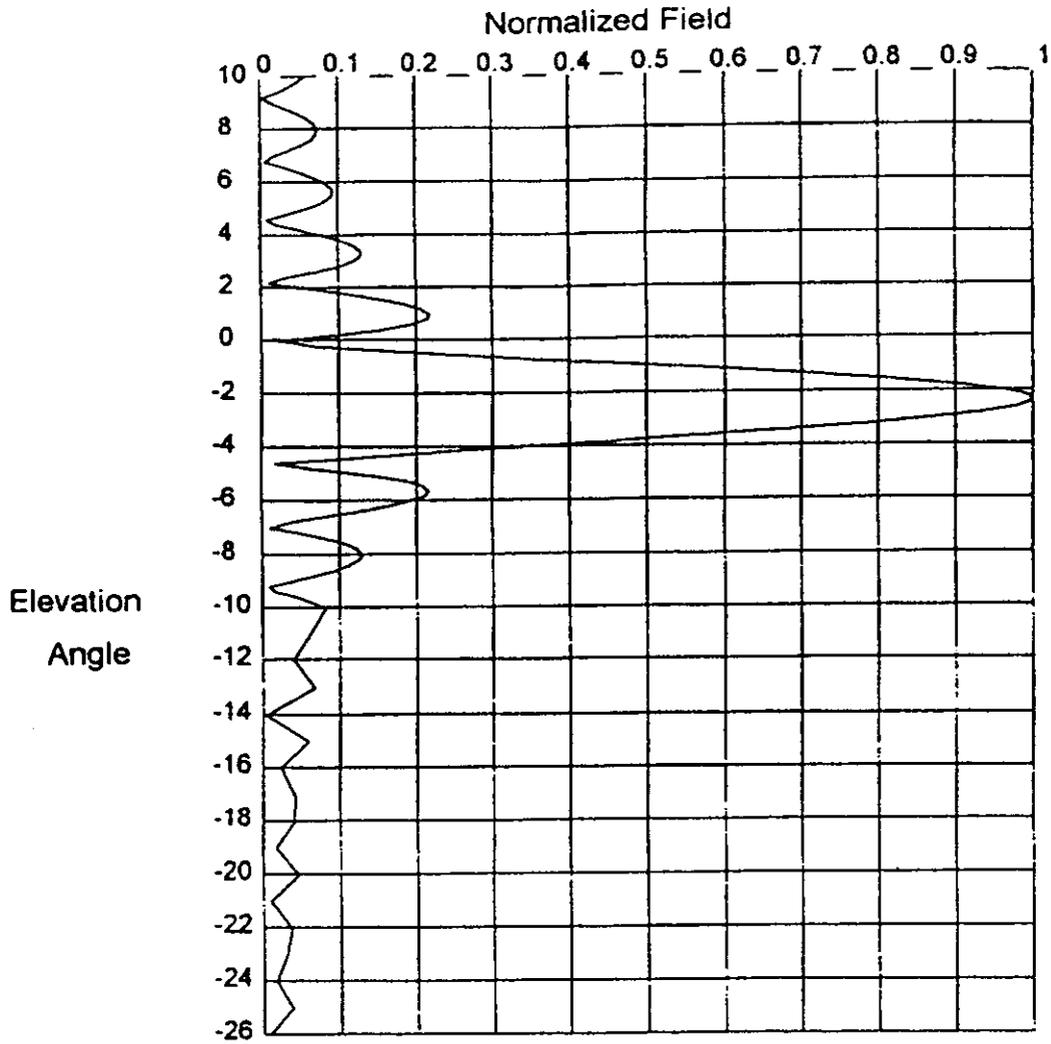
PATTERN NUMBER: 1310

10/27/97

ANTENNA CONCEPTS' 24-BAY CIRCULARLY POLARIZED TRAVELING WAVE SLOT ANTENNA ARRAY, TUNED TO CH. 68 (SLIDE MOUNTAIN)

MODEL NO. : ACT24A
 ANTENNA GAIN : .009 (-20.5 dB) (HORIZONTAL GAIN @ HORIZON)
 BEAM TILT : -2.25 DEGREES
 PATTERN : CLONE OF ANDREW HSW

NOTE - Antenna will be oriented as depicted at 105° T.



Elevation Pattern

Scale: Linear
Units: Absolute

ANTEK L. L. C.

Date: 9/9/97

CLIENT: MARCOM

ANTENNA TYPE: 26 Bay Traveling Wave Slot Antenna

FREQUENCY: CH 68

PATTERN POL.: Circular pol.

Beam Tilt (Deg.): -2.25

Elev. DIRECTIVITY: 14.88/ 11.727dBd

Null Fill (%): 0, 0, 0

Field Strength Tabulation

Elevation Heading	Field strength(dB)	Elevation Heading	Field Strength(dB)
6.00	.08 (-21.34)	-1.60	.84 (-1.49)
5.80	.09 (-20.50)	-1.80	.91 (-.76)
5.60	.09 (-20.29)	-2.00	.97 (-.28)
5.40	.09 (-20.71)	-2.20	1.00 (-.02)
5.20	.08 (-21.88)	-2.40	1.00 (.03)
5.00	.06 (-24.09)	-2.60	.98 (-.15)
4.80	.04 (-28.21)	-2.80	.94 (-.54)
4.60	.01 (-38.96)	-3.00	.87 (-1.17)
4.40	.02 (-32.10)	-3.20	.79 (-2.06)
4.20	.05 (-25.24)	-3.40	.69 (-3.24)
4.00	.08 (-21.67)	-3.60	.57 (-4.77)
3.80	.10 (-19.50)	-3.80	.48 (-6.74)
3.60	.12 (-18.19)	-4.00	.34 (-9.33)
3.40	.13 (-17.57)	-4.20	.22 (-12.93)
3.20	.13 (-17.58)	-4.40	.11 (-18.59)
3.00	.12 (-18.28)	-4.60	.02 (-33.59)
2.80	.10 (-19.83)	-4.80	.06 (-23.40)
2.60	.07 (-22.77)	-5.00	.13 (-17.52)
2.40	.03 (-28.97)	-5.20	.18 (-14.88)
2.20	.01 (-37.37)	-5.40	.21 (-13.58)
2.00	.06 (-24.52)	-5.60	.22 (-13.13)
1.80	.10 (-19.55)	-5.80	.21 (-13.34)
1.60	.14 (-16.60)	-6.00	.19 (-14.17)
1.40	.18 (-14.72)	-6.20	.16 (-15.66)
1.20	.21 (-13.59)	-6.40	.12 (-18.03)
1.00	.22 (-13.09)	-6.60	.08 (-21.79)
.80	.21 (-13.23)	-6.80	.03 (-28.96)
.60	.19 (-14.11)	-7.00	.01 (-36.60)
.40	.15 (-16.05)	-7.20	.05 (-25.27)
.20	.10 (-20.05)	-7.40	.08 (-21.16)
.00	.02 (-32.53)	-7.60	.11 (-19.01)
-.20	.07 (-22.58)	-7.80	.12 (-17.91)
-.40	.18 (-14.96)	-8.00	.13 (-17.56)
-.60	.29 (-10.68)	-8.20	.13 (-17.84)
-.80	.41 (-7.72)	-8.40	.11 (-18.74)
-1.00	.53 (-5.51)	-8.60	.09 (-20.39)
-1.20	.64 (-3.81)	-8.80	.07 (-23.04)
-1.40	.75 (-2.49)	-9.00	.04 (-27.54)

ANTEK L. L. C.

CLIENT: MARCOM

Date: 9/9/97

ANTENNA TYPE: 26 Bay Traveling Wave Slot Antenna

FREQUENCY: CH 68

PATTERN POL.: Circular pol.

Beam Tilt (Deg.): -2.25

Elev. DIRECTIVITY: 14.88/ 11.727dBd

Null Fill (%): 0, 0, 0

EXHIBIT C

PROPOSED OPERATING PARAMETERS

LOW POWER TELEVISION STATION KUVR-CA
CHANNEL 68 – RENO, NEVADA
[MODIFICATION OF BMPTTL-19970725JA]

Transmitter Power Output:	10 kw (5 H, 5 V)
Transmission Line Efficiency:	70.2%
Antenna Power Gain – Toward Horizon:	0.009 (H, V)
Antenna Power Gain – Main Lobe:	42.74 (H, V)
Effective Radiated Power – Toward Horizon:	0.03 kw (H, V)
Effective Radiated Power – Main Lobe:	150 kw (H, V)
Transmitter Make and Model:	Type Accepted
Rated Output	10 kw
Transmission Line Make and Model:	Andrew HJ12-50
Size and Type:	2-1/4" air heliax
Length:	297 feet
Antenna Make and Model:	Antenna Concepts ACT24A
Orientation	105 degrees true
Beam Tilt	2.25 degrees
Effective Height Above Ground:	23 meters
Effective Height Above Mean Sea Level:	2,963 meters