



WESTERN TRANSLATORS, INC.

Post Office Box 1879 • Los Gatos, CA 95031 • (408) 353-2158

March 16, 1992

Alan J. Schneider, Chief
Auxiliary Services Branch
Audio Services Division
Mass Media Bureau
Federal Communications Commission
1919 M Street, N.W.
Washington, DC 20554

RE: 8900-AJS
K296BS, Medford, etc., OR

Dear Mr. Schneider:

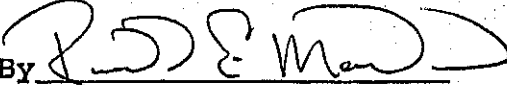
Enclosed is information responsive to your requests dated March 10, 1992.

We include the following:

- 1.) Antenna Description (Exhibit I)
- 2.) Antenna Radiation Pattern (Exhibit I)
- 3.) Antenna Pattern Tabulation (Exhibit II)
- 4.) Vertical & Horizontal ERP (Exhibit III)
- 5.) COR AMSL in meters (Exhibit III)
- 6.) RCHAAT in meters (Exhibit III)
- 7.) 60 dBu Contour of Translator (Exhibit IV)

If you have questions about the enclosed materials or our response, please contact the undersigned at the address above.

WESTERN TRANSLATORS, INC.

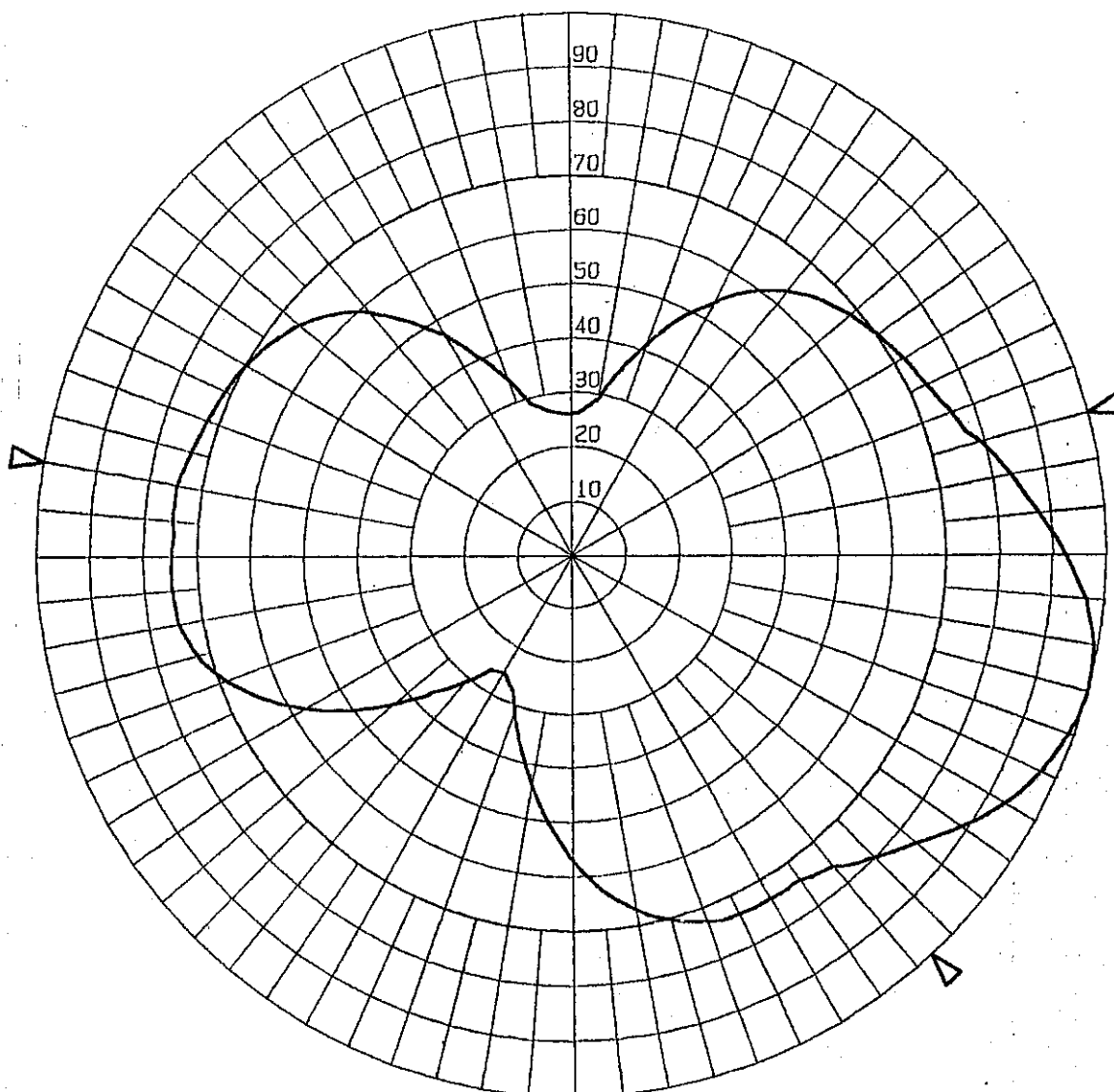
By 
Ronald E. Marland
Chairman, Board of Trustees

REM:sb

enclosures

H-PLANE

RELATIVE VOLTAGE



PATTERN NUMBER: 103

3/16/92

FM TRANSLATOR K296BS - MEDFORD, ETC., OR
COMPOSITE ANTENNA PATTERN FOR:
SCALA ARRAY OF THREE YAGI ANTENNAS (CA5-150EBV)
ORIENTED AT 75, 138, AND 280 DEGREES
VERTICAL POLARIZATION - HORIZONTAL PLANE PATTERN
ARRAY GAIN - 6.26 (8.0 dB)
THREE OUTPUTS

EXHIBIT I

FM TRANSLATOR K296BS - MEDFORD, ETC., OR
COMPOSITE ANTENNA PATTERN FOR:
SCALA ARRAY OF THREE YAGI ANTENNAS (CA5-150EBV)
ORIENTED AT 75, 138, AND 280 DEGREES
VERTICAL POLARIZATION - HORIZONTAL PLANE PATTERN
ARRAY GAIN - 6.26 (8.0 dB)
THREE OUTPUTS

Azimuth	Relative Voltage	dBK	ERP
0	0.260	-19.2	12.1w
10	0.292	-18.2	15.3w
20	0.412	-15.2	30.5w
30	0.536	-12.9	51.6w
40	0.631	-11.4	71.6w
50	0.685	-10.7	84.3w
60	0.719	-10.3	93.0w
70	0.758	-9.9	103w
80	0.837	-9.0	126w
90	0.923	-8.1	153w
100	0.991	-7.5	177w
110	0.989	-7.5	176w
120	0.933	-8.0	157w
130	0.837	-9.0	126w
140	0.757	-9.9	103w
150	0.739	-10.1	98.3w
160	0.726	-10.2	94.8w
170	0.671	-10.9	81.0w
180	0.572	-12.3	58.9w
190	0.439	-14.6	34.7w
200	0.315	-17.5	17.8w
210	0.255	-19.3	11.7w
220	0.311	-17.6	17.3w
230	0.435	-14.7	34.1w
240	0.576	-12.2	59.7w
250	0.688	-10.7	85.2w
260	0.745	-10.0	99.9w
270	0.748	-10.0	101w
280	0.748	-10.0	101w
290	0.721	-10.3	93.6w
300	0.699	-10.6	87.8w
310	0.660	-11.1	78.4w
320	0.584	-12.1	61.4w
330	0.467	-14.1	39.2w
340	0.343	-16.7	21.2w
350	0.270	-18.8	13.1w

TERRAIN AND CONTOUR DATA
EXHIBIT III
FM TRANSLATOR K296BS - MEDFORD, ETC., OR
ERP - VERT = 180 kW, HORIZ = 0

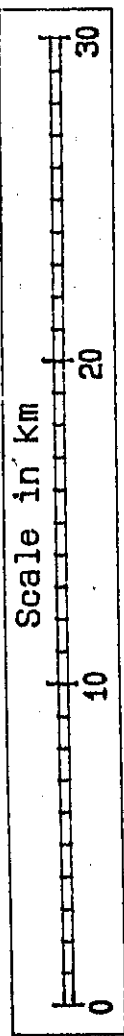
ERP = .18 kW
FM - 2-6 Tables

Azimuth Deg T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) Distance to 60 dBu Contour km
0	544.9	124.1	-19.148	6.8
10	553.5	115.5	-18.140	7.0
20	503.2	165.8	-15.149	10.0
30	444.2	224.8	-12.864	13.4
40	444.2	224.8	-11.447	14.4
50	443.3	225.7	-10.733	15.0
60	452.6	216.4	-10.313	15.1
70	407.6	261.4	-9.854	16.8
80	385.7	283.3	-8.993	18.3
90	386.0	283.0	-8.143	19.2
100	388.8	280.2	-7.526	19.8
110	389.7	279.3	-7.543	19.8
120	393.5	275.5	-8.050	19.0
130	401.7	267.3	-8.993	17.8
140	412.3	256.7	-9.865	16.6
150	440.3	228.7	-10.074	15.6
160	523.9	145.1	-10.229	12.5
170	605.7	63.3	-10.913	7.8
180	722.9	-53.9	-12.299	4.9
190	813.2	-144.2	-14.598	4.3
200	835.6	-166.6	-17.481	3.6
210	762.8	-93.8	-19.316	3.3
220	699.1	-30.1	-17.592	3.6
230	569.8	99.2	-14.677	7.8
240	539.8	129.2	-12.239	10.4
250	486.6	182.4	-10.696	13.7
260	465.2	203.8	-10.004	14.9
270	390.2	278.8	-9.969	17.2
280	443.8	225.2	-9.969	15.6
290	498.0	171.0	-10.289	13.6
300	527.8	141.2	-10.558	12.1
310	568.5	100.5	-11.056	9.7
320	621.7	47.3	-12.119	6.2
330	604.2	64.8	-14.061	6.5
340	648.8	20.2	-16.741	3.8
350	625.1	43.9	-18.820	4.1

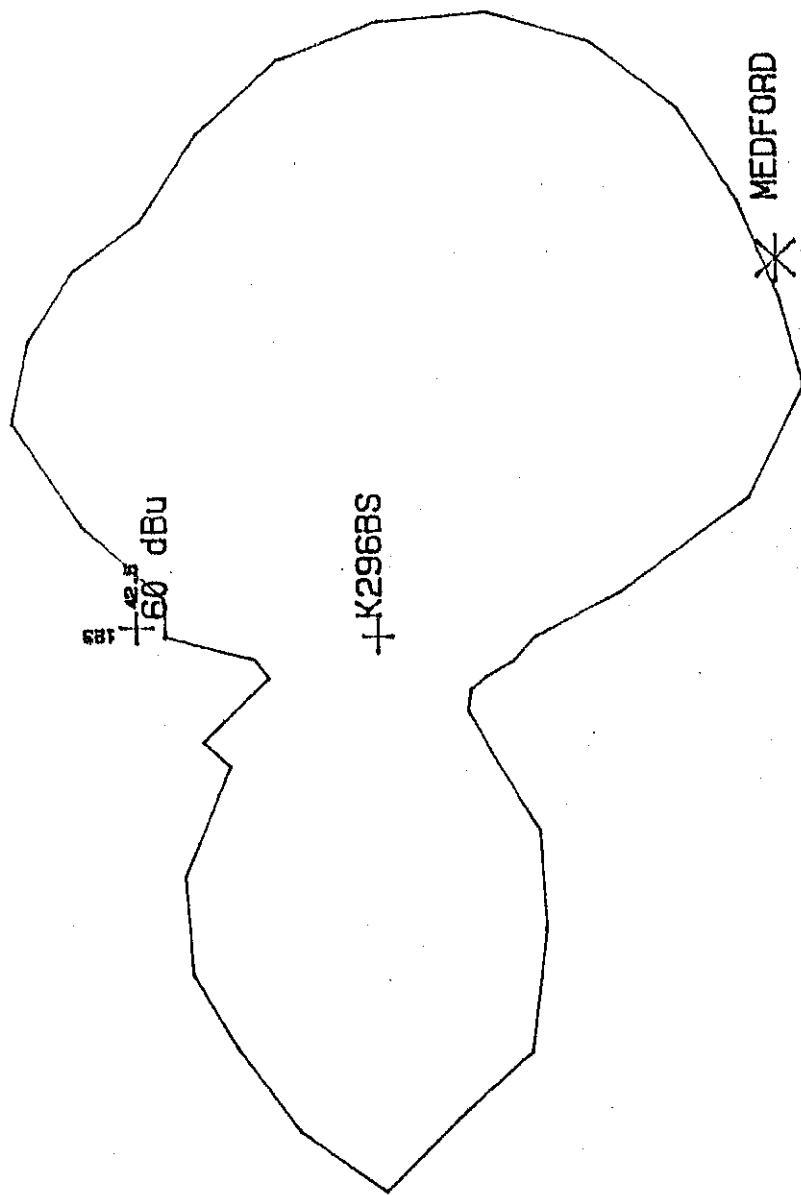
Ave. = 526.2 M 142.8 M

Antenna Radiation Center AMSL = 669.0 M

EXHIBIT IV



INTERCHK



K296BS- BLFT840723MV 296D - .18kW N. Lat. 42 25 50 W. Lng. 123 00 10