

PROPOSED OPERATING PARAMETERS

LOW POWER TELEVISION STATION KUVR-CA
CHANNEL 46 - RENO, NEVADA

Transmitter Power Output:	9.8 kw
Transmission Line Efficiency:	74.3%
Antenna Power Gain – Toward Horizon:	1.5 (H, V)
Antenna Power Gain – Main Lobe:	12.94 (H, V)
Effective Radiated Power – Toward Horizon:	10.9 kw (H, V)
Effective Radiated Power – Main Lobe:	93.9 kw (H, V)
Transmitter Make and Model:	Type-accepted
Rated Output	10.0 kw
Transmission Line Make and Model:	Andrew HJ8-50B
Size and Type:	3" air heliax
Length:	297 feet
Antenna Make and Model:	PSILP16AW-46-CP
Orientation	105 degrees true
Beam Tilt	2.8 degrees
Effective Height Above Ground:	23 meters
Effective Height Above Mean Sea Level:	2963 meters

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Antenna Specifications

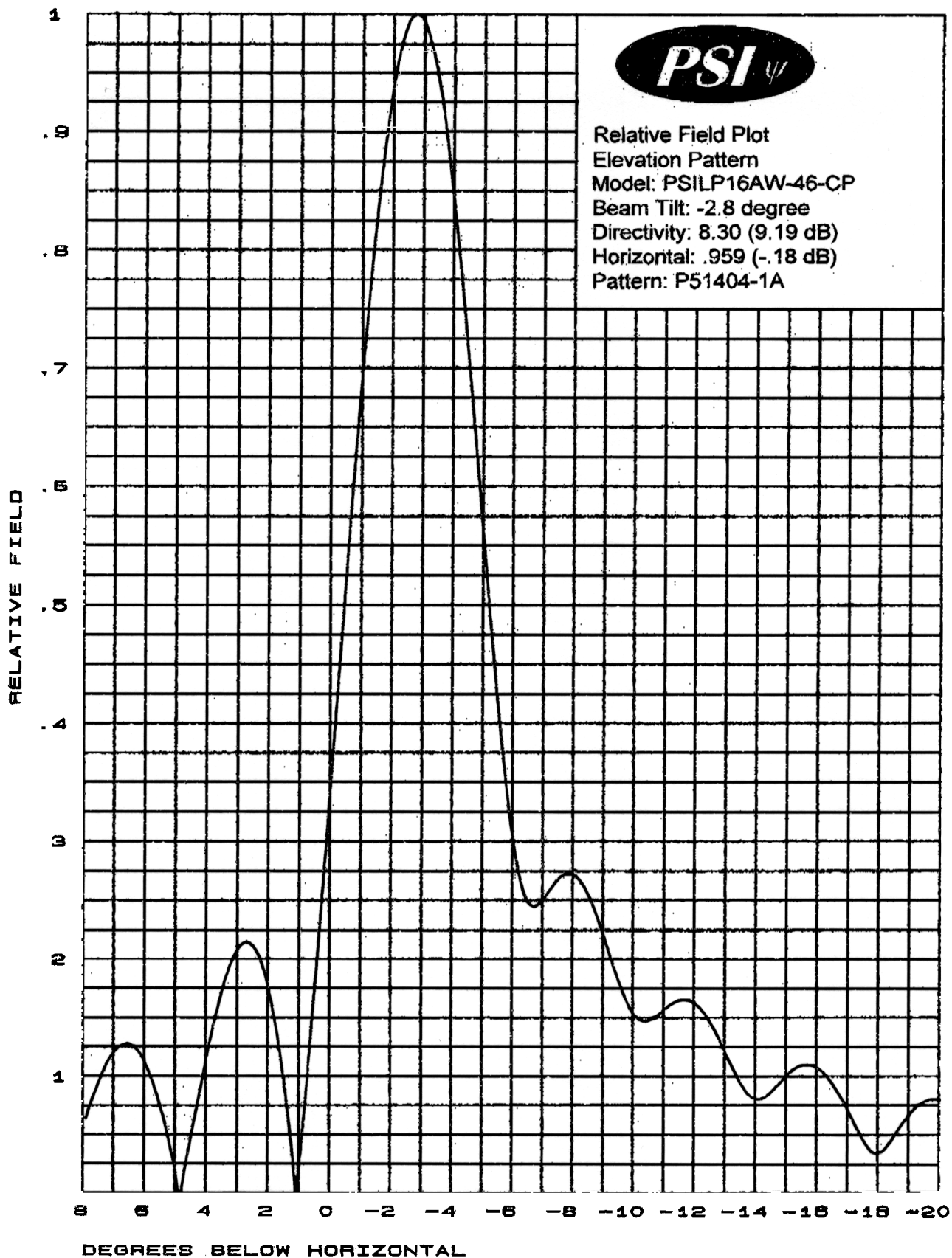
PROPOSAL NUMBER:	P51404-1	DATE:	5/14/04
CUSTOMER:	Pappas Telecasting	ANTENNA TYPE:	PSILP16AW-46-CP
CALL LETTERS:	KUVR	CHANNEL:	46
LOCATION:	Reno, NV	REVISION:	0.

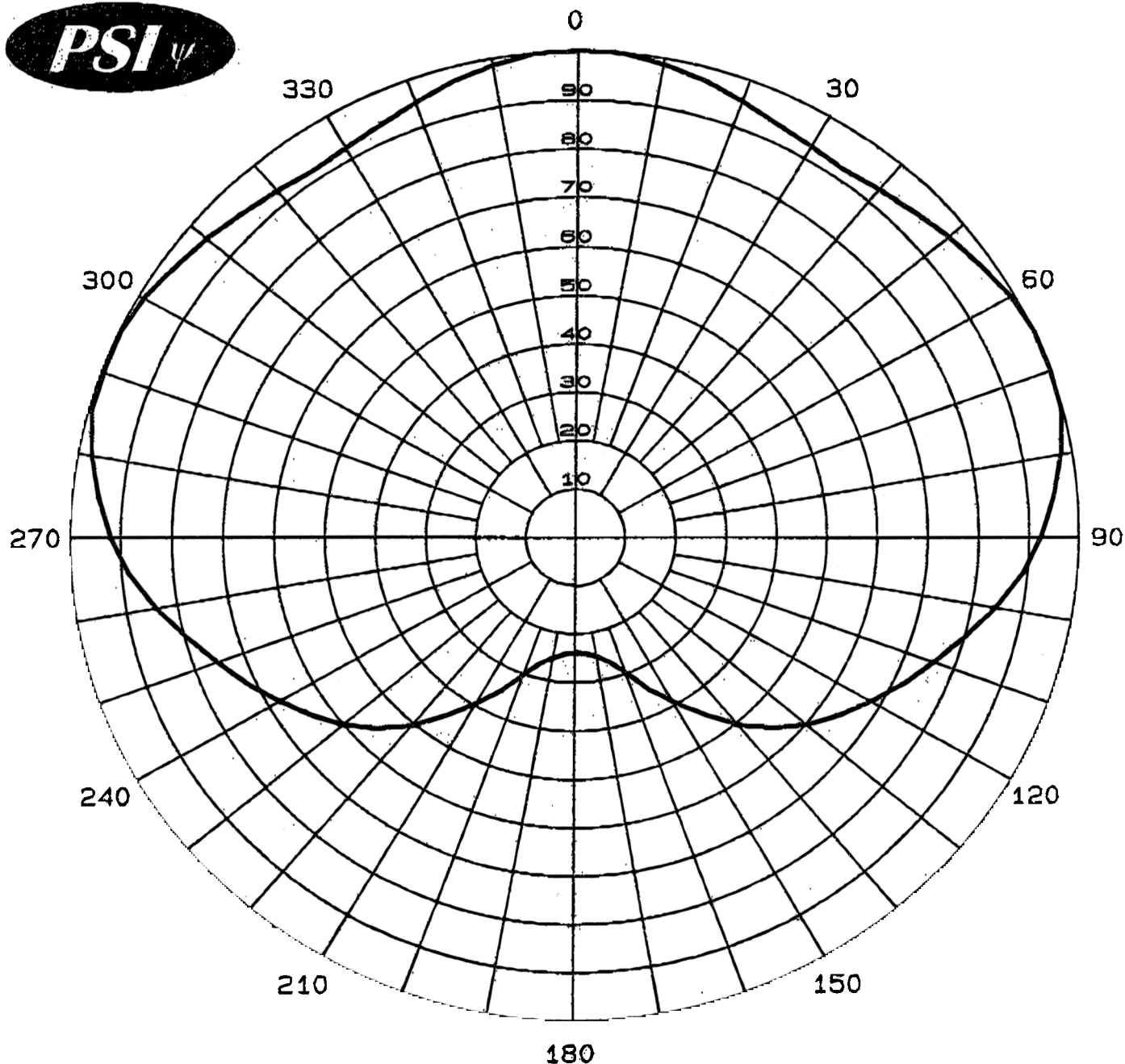
Electrical Specifications

RMS GAIN MAIN LOBE (C-pol)	8.30	9.19	dB
RMS GAIN AT HORIZONTAL (C-pol)	.959	-.18	dB
AZIMUTH DIRECTIVITY (C-pol)	1.56	1.93	dB
PEAK HORIZONTAL GAIN (C-pol)	1.50	1.75	dB
PEAK DIRECTIONAL GAIN (C-pol)	12.94	11.12	dB
ELEVATION PATTERN	P51404-1A		
AZIMUTH PATTERN	"AW"		
BEAM TILT	2.8 Degree		
PEAK INPUT POWER (10% AURAL)	10 kW		
INPUT SIZE	3-1/8" EIA end fed		
INPUT IMPEDANCE	50 Ohm		

Mechanical Specifications

HEIGHT WITH LIGHTNING PROTECTION	NA	Ft	NA	M
ANTENNA LENGTH	25.0	Ft	7.6	M
CENTER OF RADIATION	12.5	Ft	3.8	M
WIND FORCE (50/33 PSF) approx.	1350	LB	612	Kg
OVERTURN MOMENT	NA	Ft LB	NA	Kg M
WEIGHT approx.	750	LB	340	Kg





Calculated Relative Field
Azimuth Plane Pattern
Low Power UHF Slot
Antenna Type: PSILP
Pattern Type: AW
Directivity: 1.56 (1.93 dB)
Date: 7/1/97
Rev. 0

PROPAGATION SYSTEMS, INC.
PO BOX 113
EBENSBURG, PA. 15931

Note: Antenna is mounted such that 0°
on graph is oriented at 105°T.

PROPAGATION SYSTEMS INC.
Relative Field Tabulation
Antenna Model: PSILP16AW-46-CP
Gain: 12.94 (11.12 dBd)
Station: KUVR

Angle	Relative Field	Power Gain	Gain dB
0	1.000	12.94	11.12
10	0.985	12.55	10.99
20	0.951	11.70	10.68
30	0.925	11.07	10.44
40	0.929	11.17	10.48
50	0.959	11.90	10.76
60	0.990	12.68	11.03
70	0.997	12.86	11.09
80	0.975	12.30	10.90
90	0.922	11.00	10.41
100	0.845	9.24	9.66
110	0.758	7.43	8.71
120	0.680	5.98	7.77
130	0.605	4.74	6.75
140	0.510	3.37	5.27
150	0.397	2.04	3.10
160	0.302	1.18	0.72
170	0.253	0.83	-0.82
180	0.241	0.75	-1.24
190	0.253	0.83	-0.82
200	0.302	1.18	0.72
210	0.397	2.04	3.10
220	0.510	3.37	5.27
230	0.605	4.74	6.75
240	0.680	5.98	7.77
250	0.758	7.43	8.71
260	0.845	9.24	9.66
270	0.922	11.00	10.41
280	0.975	12.30	10.90
290	0.997	12.86	11.09
300	0.990	12.68	11.03
310	0.959	11.90	10.76
320	0.929	11.17	10.48
330	0.925	11.07	10.44
340	0.951	11.70	10.68
350	0.985	12.55	10.99

Note: Antenna is mounted such that 0° on tabulation is oriented at 105°T.