

Exhibit 5: Antenna Data Sheet



SYSTEMS WITH RELIABILITY, LP
BROADCAST ANTENNAS AND TRANSMISSION LINE

SYSTEM DATA SHEET

Customer	WWFW
Contact	Greg Case
Location	Fort Wayne, IN
Antenna Model	FMECD/2-PLUS-DA
Channel / Frequency	280A / 103.9 MHz

ELECTRICAL SPECIFICATIONS

Antenna Specifications:

	H-POL			V. Pol.	
License ERP (KW)	1.600			1.600	
FCC Limit Pattern Directivity	1.225	0.883	dB	1.225	0.883 dB
Elevation Directivity	1.918	2.828	dB	1.918	2.828 dB
Azimuth Directivity	1.965	2.933	dB	1.776	2.494 dB
Composite Pattern	1.461	1.647	dB	1.461	1.647 dB
Polarization Ratio	0.475			0.525	
RMS Comp./RMS Limit	91.6 %				
Antenna Efficiency %	100			100	
Power Ratio (Pol. Ratio X Efficiency)	0.4747			0.5253	
Antenna Gain	1.789	2.526	dB	1.789	2.526 dB

Antenna Input Power (KW)	0.894 kW	-0.485 (dBK)
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Feed Line Specifications:

Line Type:Cablewave	1 5/8" Air	50 Ω HJ7-50A
Attenuation Per 100 ft (dB)	0.21	dB
Line Length (ft) AGL + 68' Horizontal Run	470.00	ft.
Total Line Attenuation (dB)	0.9917	dB
Line Efficiency	79.58 %	
Power Input to the Line (KW)	1.124 kW	0.507 (dBK)

MECHANICAL SPECIFICATIONS

No. Of Bays	2		
Antenna Aperture	9.47	ft.	2.89 meter
Center of Radiation AGL	450.00	ft.	137.15 meter
Antenna Weight (Everything)	160.00	lbs.	72.73 kg
Windload (50/33)	350.00	lbs.	Windload CaAc 10.00 ft^2

Prepared by:

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