

FLASH CUT APPLICATION
K LICENSEE, INC.
WEBR-CA CLASS A LPTV STATION
CH 17 - 488-494 MHZ - 0.315 KW (5.45 KW TILTED BEAM)
MANHATTAN, NEW YORK
May 2009

EXHIBIT C

WEBR-CA DT Transmission System Calculations

Effective Radiated Power: ³	
Horizontal/Vertical	0.315 kilowatt (horizon) 5.45 kilowatts (tilted beam)
Antenna: (see Exhibit C1)	ERI/Andrew Corporation ALP-16L10-CSER-17
Horizontal gain (at horizon):	Power gain 0.92 (-0.36 dB)
Antenna gain (tilted beam)	Power gain 15.97 (12.03 dB)
Transmission Line:	Andrew Corporation
(165 feet)	1 5/8 inch air dielectric 83.6% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.408 kilowatt (408 watts)

3) Outgoing interference calculations based on 0.315 kilowatts.

PRELIMINARY SPECIFICATIONS

Customer:	<u>WEBR</u>	Channel:	<u>17</u>
Location:	<u>New York, NY</u>	Frequency, MHz:	<u>488 - 494</u>
Antenna Type:	<u>ALP16H10-CSER-17</u>	Polarization:	<u>Circular</u>

ELECTRICAL CHARACTERISTICS :

	H-POL	V-POL
AZIMUTH PATTERN NUMBER :	CH17HAZ-ER	CH17VAZ-ER
ELEVATION PATTERN NUMBER :	ALP16L10H	ALP16L10V
AZIMUTH DIRECTIVITY :	2.27 (3.57 dBd)	2.11 (3.24 dBd)
ELEVATION DIRECTIVITY :	14.59 (11.64 dBd)	14.59 (11.64 dBd)
PEAK POWER GAIN :	15.97 (12.03 dBd)	15.97 (12.03 dBd)
GAIN AT HORIZONTAL :	0.92 (-0.36 dBd)	0.92 (-0.36 dBd)
ELECTRICAL BEAMTILT :	2.50 degrees	
INPUT TYPE :	1 5/8-50 Ohm	
INPUT POWER RATING, MAXIMUM :	4kW Average, 8VSB	
ANTENNA VSWR, MAXIMUM :	1.10 Over 6MHz Channel	

MECHANICAL CHARACTERISTICS :

RADOME DIAMETER :	N/A - Radome Slot Cover
LENGTH :	40.8 feet
WEIGHT* :	300.0 pounds
CaAa* :	61.0 sq.ft.

* Mounts not included.