

Proposal #: **DCA-9854-1** Antenna Type: **888-24 O8** Channel: **46 NTSC**
 Call Letters: **WSKG** Location: **Binghamton, NY** **42 DTV**

Electrical Specifications		Value		Remarks
		Ratio	dB	
RMS Gain at Main Lobe over Halfwave Dipole	Hpol	22.3	13.48	N46; D42: 21.6 (13.34 dB)
	Vpol			
RMS Gain at Horizontal over Halfwave Dipole	Hpol	17.3	12.38	N46; D42: 17.1 (12.33 dB)
	Vpol			
Peak Directional Gain over Halfwave Dipole	Hpol			
	Vpol			
Peak Directional Gain at Horizontal over Halfwave Dipole	Hpol			
	Vpol			
Circularity		+/- 1.0 dB		
Axial Ratio		dB		
Beam Tilt		0.75 deg		N46; D42: 0.75 deg
Peak TV Power	10% Aural	35 kW	15.44 dBk	+30 kW average DTV power
Antenna Input:	T/L	6-1/8 in	75.0 ohm	Type: EIA/DCA
Maximum Antenna Input VSWR				
		Channel 1.10 : 1		D42: Channel: 1.10 : 1
Patterns	Azimuth	888-O8-46		D42: 888-O8-42
	Elevation	24I223075	24I223075-90	N46
	Elevation	24I216075	24I216075-90	D42
Mechanical Specifications		Metric	English	Preliminary
Height with Lightning Protector	H4	12.3 m	40.4 ft	
Height Less Lightning Protector	H2	11.1 m	36.4 ft	
Height of Center of Radiation	H3	5.9 m	19.4 ft	
Basic Wind Speed	V	112.7 km/h	70 mi/h	TIA/EIA-222-F.
Force Coeff. x Projected Area	CaAc	6.63 m ²	71.4 ft ²	Above base flange Includes 1/2" ice
Moment Arm	D1	5.8 m	18.9 ft	Above base flange Includes 1/2" ice
Force Coeff. x Projected Area	CaAc	m ²	ft ²	
Moment Arm	D3	m	ft	
Pole Bury Length	D2	m	ft	
Weight	W	2.9 t	6,400 lbs	Includes 1/2" ice
Radome				
Antenna designed in accordance with AISC specifications for design of structural steel for building as prescribed by TIA/EIA-222-F.				

NOTE:

Prepared By : EHM Approved By : GS
 Original Date : 6-Sep-01 Revision: 1 Rev. Date: 10-Jul-02

Dennis Wallace

From: Jay Martin <Jay.Martin@dielectric.com>
Sent: Wednesday, June 28, 2017 2:35 PM
To: Dennis Wallace; Christine Zuba; Keith Pelletier
Subject: RE: WSKG Binghamton Info Needed

Dennis,

RMS gain at Channel 31 is 19.7.

Cheers,

Jay S. Martin

VP Sales



22 Tower Road
Raymond, ME 04071

Mobile (207) 523-0990
Direct (207) 655-8138



From: Jay Martin
Sent: Wednesday, June 28, 2017 2:24 PM
To: 'Dennis Wallace' <dennis.wallace@mswdtv.com>; Christine Zuba <Christine.Zuba@dielectric.com>; Keith Pelletier <Keith.Pelletier@dielectric.com>
Subject: RE: WSKG Binghamton Info Needed

Dennis,

Attached is the original spec sheet on the 888-24 for WSKG. This was designed for 42 and 46. I will ask engineering to work up some numbers on the gain figures at the new channels however your client needs to know that this array is no longer supported.

Cheers,

Jay S. Martin

VP Sales



22 Tower Road
Raymond, ME 04071

Mobile (207) 523-0990
Direct (207) 655-8138



From: Dennis Wallace [<mailto:dennis.wallace@mswdtv.com>]

Sent: Monday, June 26, 2017 1:57 PM

To: Christine Zuba <Christine.Zuba@dielectric.com>; Jay Martin <Jay.Martin@dielectric.com>; Keith Pelletier <Keith.Pelletier@dielectric.com>

Subject: FW: WSKG Binghamton Info Needed

Any word on the request below?

I need the information asap.

Thanks,
Dennis

From: Dennis Wallace [<mailto:dennis.wallace@mswdtv.com>]

Sent: Thursday, June 08, 2017 10:18 PM

To: Christine Zuba

Cc: Jay S. Martin; 'Dennis Wallace'

Subject: WSKG Binghamton Info Needed

Hi Christine –

Also working on WSKG in Binghamton NY.

I need information on the existing antenna. It is a Dielectric 888-24-O8. (TCI?)

I need the gain information for the new channel 31 (they are moving to 31 from 42) to calculate the required TPO.

Are there any azimuth or elevation pattern changes for this antenna moving from 42 to 31?

Thanks,

Dennis Wallace
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