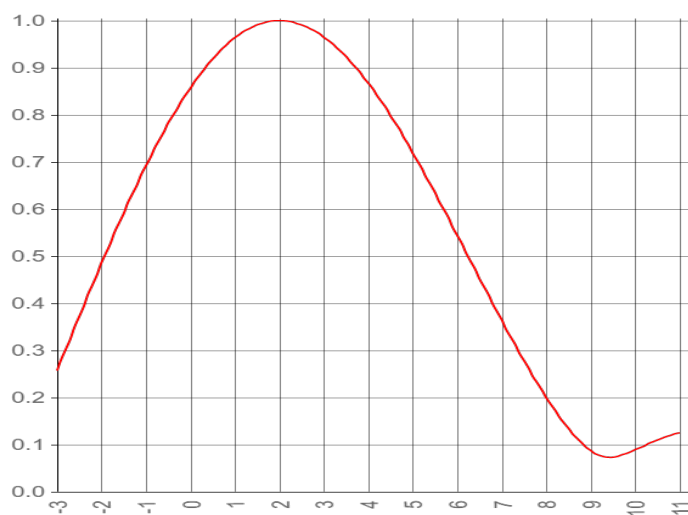


ELEVATION PATTERN

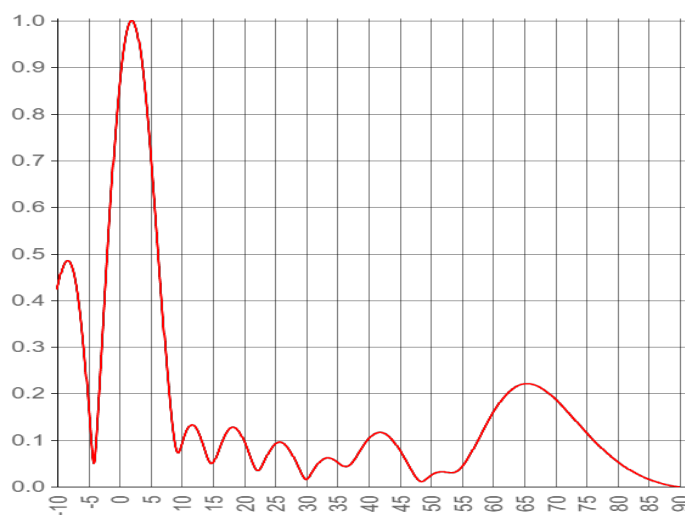
Exhibit No.
Date **11 Apr 2018**
Call Letters **W50DP-D**
Channel **36**
Antenna Type **TLP-8A**
Location **Hanover, NH**
Customer **New Hampshire Public Broadcasting**

RMS Gain at Main Lobe **7.5 (8.75 dB)**
RMS Gain at Horizontal **5.5 (7.42 dB)**
Calculated

Beam Tilt **2 Degrees**
Drawing # **08L075200**



Degrees below horizontal



Degrees below horizontal

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10	0.423	10	0.089	30	0.015	50	0.024	70	0.188
-9	0.474	11	0.125	31	0.032	51	0.031	71	0.175
-8	0.483	12	0.131	32	0.051	52	0.032	72	0.160
-7	0.438	13	0.107	33	0.061	53	0.030	73	0.146
-6	0.336	14	0.068	34	0.061	54	0.032	74	0.131
-5	0.182	15	0.051	35	0.053	55	0.043	75	0.116
-4	0.056	16	0.080	36	0.044	56	0.062	76	0.102
-3	0.257	17	0.112	37	0.047	57	0.085	77	0.088
-2	0.484	18	0.127	38	0.063	58	0.110	78	0.076
-1	0.692	19	0.122	39	0.084	59	0.135	79	0.064
0	0.858	20	0.099	40	0.102	60	0.159	80	0.054
1	0.964	21	0.065	41	0.114	61	0.179	81	0.044
2	1.000	22	0.036	42	0.117	62	0.196	82	0.036
3	0.965	23	0.047	43	0.111	63	0.208	83	0.028
4	0.867	24	0.074	44	0.098	64	0.217	84	0.022
5	0.720	25	0.092	45	0.079	65	0.221	85	0.016
6	0.544	26	0.095	46	0.057	66	0.221	86	0.011
7	0.363	27	0.085	47	0.034	67	0.217	87	0.007
8	0.200	28	0.063	48	0.015	68	0.210	88	0.004
9	0.087	29	0.035	49	0.014	69	0.200	89	0.001

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System Summary

Exhibit No.	
Date	11 Apr 2018
Call Letters	W50DP-D
Channel	36
Antenna Type	TLP-8A
Location	Hanover, NH
Customer	New Hampshire Public Broadcasting

Antenna

ERP:	15.0 kW (11.76 dBk)
Peak Gain*:	7.5 (8.75 dB)

Antenna Input Power:	2.0 kW
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Transmission Line

Type:	Flexline Air		
Size:	2-1/4"		
Impedance:	50 ohm		
Length:	500 ft (152.4 m)	Attenuation:	2.2 dB
		Efficiency:	59.94 %

Transmitter Output

3.3 kW (5.24 dBk)

* Gain is with respect to half wave dipole.

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Mechanicals

Exhibit No.

Date **11 Apr 2018**

Call Letters **W50DP-D**

Channel **36**

Antenna Type **TLP-8A**

Location **Hanover, NH**

Customer **New Hampshire Public Broadcasting**

Preliminary Specifications

Side Mounted

Mechanical Specification without ice TIA-222-G

Basic Wind Speed 90 mph

Structure Class II

Exposure Category C

Topography Category 1

Mechanical Specifications

Height less Lightning Protector	(H2)	13.9 ft (4.2 m)
Center of Radiation	(H3)	7.0 ft (2.1 m)
Effective Projected Area	(EPA)s	15.8 ft ² (4.8 m ²)
Weight	W	110.8 lbs

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