

System Summary

Exhibit No.	
Date	24 Jan 2019
Call Letters	WEUX
Channel	49
Antenna Type	TFU-16WB
Location	Chippewa Falls, WI
Customer	Nexstar

Antenna

ERP:	170.0 kW (22.30 dBk)
Peak Gain*:	22.5 (13.51 dB)

Antenna Input Power:	7.6 kW
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Transmission Line

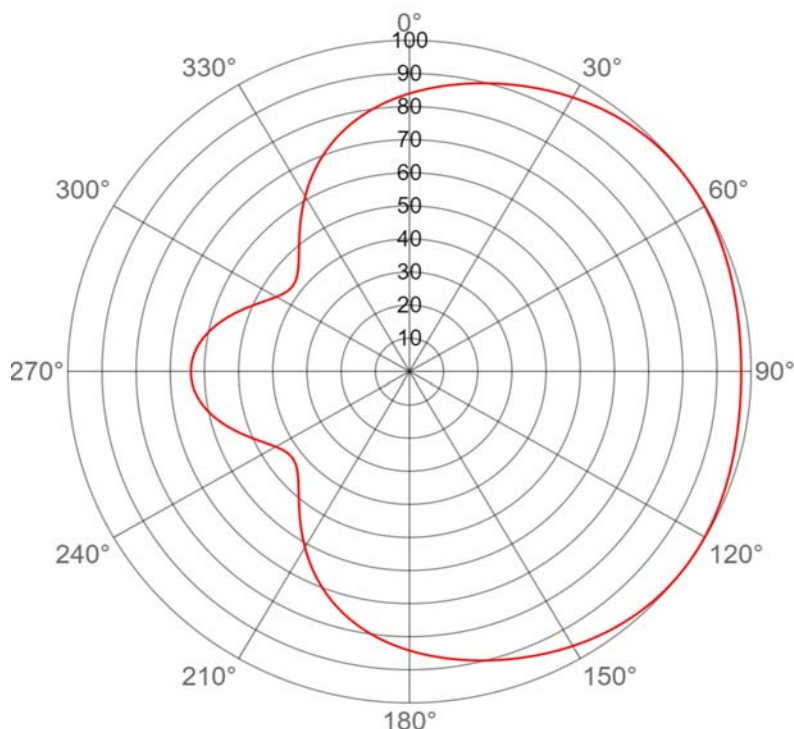
Type:	Flexline Air		
Size:	5"		
Impedance:	50 ohm		
Length:	400 ft (121.9 m)	Attenuation:	0.9 dB
		Efficiency:	81.04 %

Transmitter Output

9.3 kW (9.70 dBk)

* Gain is with respect to half wave dipole.

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Horizontal Polarization AZIMUTH PATTERN

Exhibit No.
Date **24 Jan 2019**
Call Letters **WEUX**
Channel **49**
Antenna Type **TFU-16WB**
Location **Chippewa Falls, WI**
Customer **Nexstar**

Gain **1.6 (1.90 dB)**
Calculated
Drawing # **WB-C160H**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.840	36	0.974	72	0.985	108	0.986	144	0.974	180	0.842	216	0.546	252	0.550	288	0.548	324	0.545
1	0.844	37	0.977	73	0.984	109	0.987	145	0.972	181	0.837	217	0.535	253	0.559	289	0.540	325	0.556
2	0.849	38	0.979	74	0.983	110	0.988	146	0.969	182	0.833	218	0.524	254	0.567	290	0.531	326	0.567
3	0.853	39	0.982	75	0.981	111	0.989	147	0.966	183	0.828	219	0.514	255	0.575	291	0.522	327	0.578
4	0.857	40	0.984	76	0.980	112	0.990	148	0.963	184	0.823	220	0.504	256	0.583	292	0.513	328	0.589
5	0.862	41	0.986	77	0.979	113	0.992	149	0.960	185	0.817	221	0.494	257	0.590	293	0.504	329	0.600
6	0.866	42	0.988	78	0.978	114	0.993	150	0.956	186	0.812	222	0.485	258	0.597	294	0.495	330	0.611
7	0.870	43	0.990	79	0.977	115	0.994	151	0.953	187	0.806	223	0.476	259	0.604	295	0.487	331	0.622
8	0.874	44	0.991	80	0.976	116	0.995	152	0.950	188	0.801	224	0.468	260	0.610	296	0.478	332	0.632
9	0.878	45	0.993	81	0.975	117	0.996	153	0.946	189	0.795	225	0.461	261	0.616	297	0.470	333	0.643
10	0.882	46	0.994	82	0.974	118	0.997	154	0.943	190	0.788	226	0.454	262	0.621	298	0.463	334	0.653
11	0.886	47	0.996	83	0.974	119	0.998	155	0.939	191	0.782	227	0.448	263	0.625	299	0.456	335	0.663
12	0.889	48	0.997	84	0.973	120	0.998	156	0.936	192	0.775	228	0.442	264	0.629	300	0.450	336	0.673
13	0.893	49	0.997	85	0.972	121	0.999	157	0.932	193	0.768	229	0.438	265	0.632	301	0.444	337	0.683
14	0.897	50	0.998	86	0.972	122	0.999	158	0.928	194	0.761	230	0.435	266	0.635	302	0.440	338	0.693
15	0.901	51	0.999	87	0.972	123	1.000	159	0.925	195	0.754	231	0.432	267	0.637	303	0.435	339	0.702
16	0.905	52	0.999	88	0.971	124	1.000	160	0.921	196	0.746	232	0.431	268	0.639	304	0.432	340	0.711
17	0.909	53	0.999	89	0.971	125	1.000	161	0.917	197	0.738	233	0.430	269	0.640	305	0.430	341	0.720
18	0.913	54	1.000	90	0.971	126	1.000	162	0.914	198	0.730	234	0.430	270	0.640	306	0.428	342	0.728
19	0.916	55	1.000	91	0.971	127	1.000	163	0.910	199	0.721	235	0.432	271	0.640	307	0.428	343	0.736
20	0.920	56	0.999	92	0.972	128	1.000	164	0.906	200	0.713	236	0.434	272	0.639	308	0.429	344	0.744
21	0.924	57	0.999	93	0.972	129	0.999	165	0.902	201	0.703	237	0.438	273	0.637	309	0.430	345	0.752
22	0.928	58	0.999	94	0.972	130	0.998	166	0.899	202	0.694	238	0.442	274	0.635	310	0.433	346	0.759
23	0.931	59	0.998	95	0.973	131	0.998	167	0.895	203	0.685	239	0.447	275	0.632	311	0.436	347	0.766
24	0.935	60	0.998	96	0.973	132	0.997	168	0.891	204	0.675	240	0.452	276	0.628	312	0.441	348	0.773
25	0.939	61	0.997	97	0.974	133	0.996	169	0.887	205	0.665	241	0.459	277	0.624	313	0.446	349	0.780
26	0.942	62	0.996	98	0.975	134	0.995	170	0.883	206	0.655	242	0.465	278	0.620	314	0.452	350	0.786
27	0.946	63	0.995	99	0.975	135	0.993	171	0.880	207	0.644	243	0.473	279	0.615	315	0.459	351	0.792
28	0.949	64	0.994	100	0.976	136	0.992	172	0.876	208	0.634	244	0.481	280	0.609	316	0.467	352	0.798
29	0.953	65	0.993	101	0.977	137	0.990	173	0.872	209	0.623	245	0.489	281	0.603	317	0.475	353	0.804
30	0.956	66	0.992	102	0.978	138	0.988	174	0.868	210	0.612	246	0.497	282	0.596	318	0.484	354	0.810
31	0.959	67	0.991	103	0.979	139	0.986	175	0.864	211	0.601	247	0.506	283	0.589	319	0.493	355	0.815
32	0.962	68	0.990	104	0.981	140	0.984	176	0.859	212	0.590	248	0.515	284	0.582	320	0.503	356	0.820
33	0.965	69	0.989	105	0.982	141	0.982	177	0.855	213	0.579	249	0.524	285	0.574	321	0.513	357	0.825
34	0.968	70	0.987	106	0.983	142	0.979	178	0.851	214	0.568	250	0.533	286	0.566	322	0.523	358	0.830
35	0.971	71	0.986	107	0.984	143	0.977	179	0.847	215	0.557	251	0.542	287	0.557	323	0.534	359	0.835

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ELEVATION PATTERN

Exhibit No.

Date

24 Jan 2019

Call Letters

WEUX

Channel

49

Antenna Type

TFU-16WB

Location

Chippewa Falls, WI

Customer

Nexstar

RMS Gain at Main Lobe

14.5 (11.61 dB)

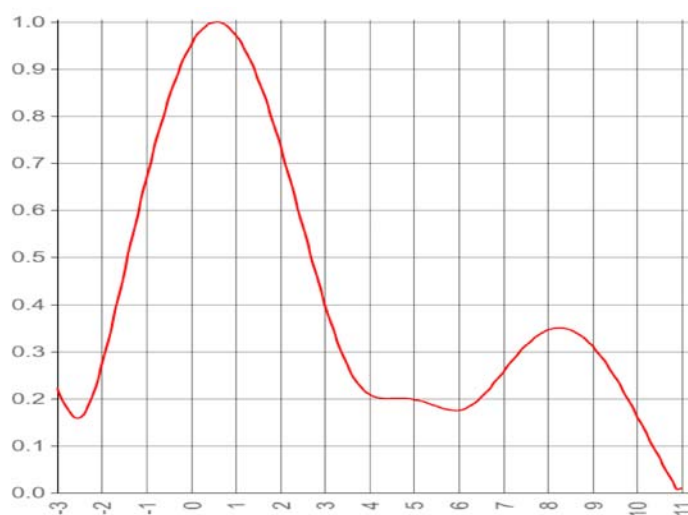
Beam Tilt

0.55 Degrees

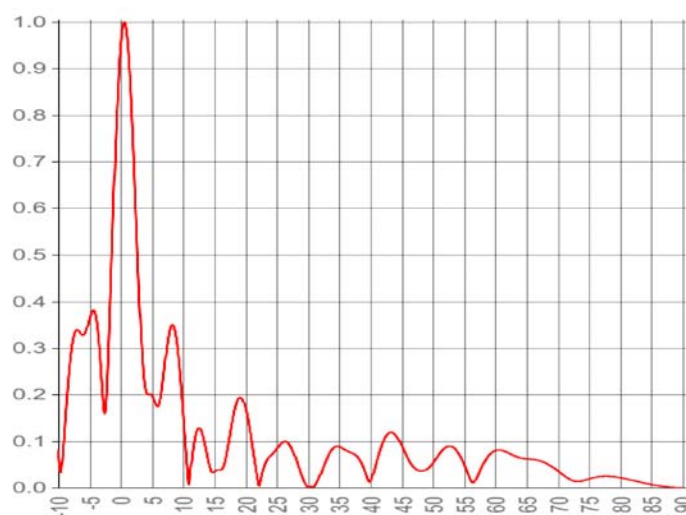
RMS Gain at Horizontal

13.1 (11.18 dB)

Drawing #

TFU-WB-16
Calculated


Degrees below horizontal



Degrees below horizontal

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10	0.082	10	0.163	30	0.000	50	0.053	70	0.036
-9	0.126	11	0.010	31	0.003	51	0.072	71	0.026
-8	0.286	12	0.115	32	0.029	52	0.086	72	0.018
-7	0.340	13	0.118	33	0.062	53	0.088	73	0.014
-6	0.328	14	0.060	34	0.085	54	0.075	74	0.015
-5	0.363	15	0.034	35	0.088	55	0.050	75	0.019
-4	0.370	16	0.038	36	0.081	56	0.018	76	0.022
-3	0.222	17	0.076	37	0.075	57	0.022	77	0.024
-2	0.269	18	0.151	38	0.065	58	0.050	78	0.025
-1	0.666	19	0.193	39	0.040	59	0.070	79	0.024
0	0.952	20	0.171	40	0.014	60	0.080	80	0.022
1	0.973	21	0.097	41	0.058	61	0.081	81	0.019
2	0.738	22	0.013	42	0.098	62	0.075	82	0.016
3	0.401	23	0.045	43	0.118	63	0.069	83	0.013
4	0.209	24	0.069	44	0.113	64	0.064	84	0.010
5	0.198	25	0.084	45	0.090	65	0.062	85	0.007
6	0.175	26	0.098	46	0.062	66	0.061	86	0.005
7	0.257	27	0.093	47	0.043	67	0.058	87	0.003
8	0.346	28	0.064	48	0.036	68	0.053	88	0.001
9	0.312	29	0.025	49	0.040	69	0.046	89	0.000

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Mechanicals

Exhibit No.

Date **24 Jan 2019**Call Letters **WEUX**Channel **49**Antenna Type **TFU-16WB**Location **Chippewa Falls, WI**Customer **Nexstar**

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)	28.9 ft (8.8 m)
Center of Radiation	(H3)	14.5 ft (4.4 m)
Effective Projected Area	(EPA)s	36.4 ft ² (11.1 m ²)
Weight	W	1254.0 lbs