

Horizontal Polarization AZIMUTH PATTERN

Exhibit No.

Date **29 Oct 2017**

Call Letters **WCWF**

Channel **15**

Antenna Type **TFU-10DSC TFU**

Location **Suring WI**

Customer **Sinclair**

Gain **1.7 (2.30 dB)**

Calculated

Drawing # **TFU-C170**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.936	36	0.899	72	0.920	108	0.999	144	0.809	180	0.302	216	0.242	252	0.229	288	0.706	324	0.996						
1	0.934	37	0.899	73	0.922	109	1.000	145	0.797	181	0.290	217	0.243	253	0.235	289	0.720	325	0.997						
2	0.932	38	0.899	74	0.924	110	1.000	146	0.785	182	0.280	218	0.244	254	0.243	290	0.733	326	0.998						
3	0.930	39	0.899	75	0.926	111	1.000	147	0.773	183	0.269	219	0.244	255	0.251	291	0.747	327	0.999						
4	0.928	40	0.899	76	0.928	112	1.000	148	0.760	184	0.260	220	0.245	256	0.260	292	0.760	328	1.000						
5	0.926	41	0.899	77	0.930	113	0.999	149	0.747	185	0.251	221	0.244	257	0.269	293	0.773	329	1.000						
6	0.924	42	0.899	78	0.932	114	0.998	150	0.733	186	0.243	222	0.244	258	0.280	294	0.785	330	1.000						
7	0.922	43	0.899	79	0.934	115	0.997	151	0.720	187	0.235	223	0.243	259	0.290	295	0.797	331	1.000						
8	0.920	44	0.899	80	0.936	116	0.996	152	0.706	188	0.229	224	0.242	260	0.302	296	0.809	332	0.999						
9	0.918	45	0.900	81	0.939	117	0.994	153	0.692	189	0.223	225	0.241	261	0.313	297	0.821	333	0.998						
10	0.917	46	0.900	82	0.941	118	0.992	154	0.677	190	0.218	226	0.240	262	0.326	298	0.832	334	0.997						
11	0.915	47	0.900	83	0.944	119	0.990	155	0.663	191	0.214	227	0.238	263	0.338	299	0.843	335	0.996						
12	0.914	48	0.900	84	0.946	120	0.987	156	0.648	192	0.210	228	0.236	264	0.352	300	0.854	336	0.995						
13	0.912	49	0.900	85	0.949	121	0.984	157	0.634	193	0.207	229	0.234	265	0.365	301	0.864	337	0.993						
14	0.911	50	0.900	86	0.952	122	0.981	158	0.619	194	0.206	230	0.232	266	0.379	302	0.874	338	0.992						
15	0.910	51	0.901	87	0.954	123	0.977	159	0.604	195	0.204	231	0.229	267	0.393	303	0.883	339	0.990						
16	0.909	52	0.901	88	0.957	124	0.973	160	0.588	196	0.204	232	0.227	268	0.407	304	0.893	340	0.988						
17	0.908	53	0.901	89	0.960	125	0.968	161	0.573	197	0.204	233	0.224	269	0.422	305	0.901	341	0.986						
18	0.907	54	0.902	90	0.963	126	0.963	162	0.558	198	0.205	234	0.222	270	0.437	306	0.910	342	0.983						
19	0.906	55	0.902	91	0.965	127	0.958	163	0.543	199	0.206	235	0.219	271	0.451	307	0.918	343	0.981						
20	0.905	56	0.903	92	0.968	128	0.952	164	0.527	200	0.207	236	0.216	272	0.466	308	0.925	344	0.978						
21	0.905	57	0.903	93	0.971	129	0.946	165	0.512	201	0.209	237	0.214	273	0.482	309	0.933	345	0.976						
22	0.904	58	0.904	94	0.973	130	0.940	166	0.497	202	0.211	238	0.211	274	0.497	310	0.940	346	0.973						
23	0.903	59	0.905	95	0.976	131	0.933	167	0.482	203	0.214	239	0.209	275	0.512	311	0.946	347	0.971						
24	0.903	60	0.905	96	0.978	132	0.925	168	0.466	204	0.216	240	0.207	276	0.527	312	0.952	348	0.968						
25	0.902	61	0.906	97	0.981	133	0.918	169	0.451	205	0.219	241	0.206	277	0.543	313	0.958	349	0.965						
26	0.902	62	0.907	98	0.983	134	0.910	170	0.437	206	0.222	242	0.205	278	0.558	314	0.963	350	0.963						
27	0.901	63	0.908	99	0.986	135	0.901	171	0.422	207	0.224	243	0.204	279	0.573	315	0.968	351	0.960						
28	0.901	64	0.909	100	0.988	136	0.893	172	0.407	208	0.227	244	0.204	280	0.588	316	0.973	352	0.957						
29	0.901	65	0.910	101	0.990	137	0.883	173	0.393	209	0.229	245	0.204	281	0.604	317	0.977	353	0.954						
30	0.900	66	0.911	102	0.992	138	0.874	174	0.379	210	0.232	246	0.206	282	0.619	318	0.981	354	0.952						
31	0.900	67	0.912	103	0.993	139	0.864	175	0.365	211	0.234	247	0.207	283	0.634	319	0.984	355	0.949						
32	0.900	68	0.914	104	0.995	140	0.854	176	0.352	212	0.236	248	0.210	284	0.648	320	0.987	356	0.946						
33	0.900	69	0.915	105	0.996	141	0.843	177	0.338	213	0.238	249	0.214	285	0.663	321	0.990	357	0.944						
34	0.900	70	0.917	106	0.997	142	0.832	178	0.326	214	0.240	250	0.218	286	0.677	322	0.992	358	0.941						
35	0.900	71	0.918	107	0.998	143	0.821	179	0.313	215	0.241	251	0.223	287	0.692	323	0.994	359	0.939						

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ELEVATION PATTERN

Exhibit No.

 Date **29 Oct 2017**

 Call Letters **WCWF**

 Channel **15**

 Antenna Type **TFU-10DSC TFU**

 Location **Suring WI**

 Customer **Sinclair**

Future fill is available!

RMS Gain at Main Lobe

9.5 (9.78 dB)

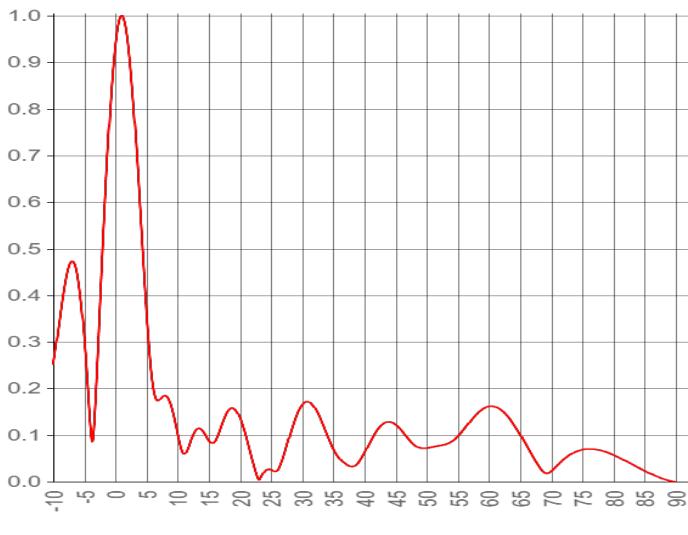
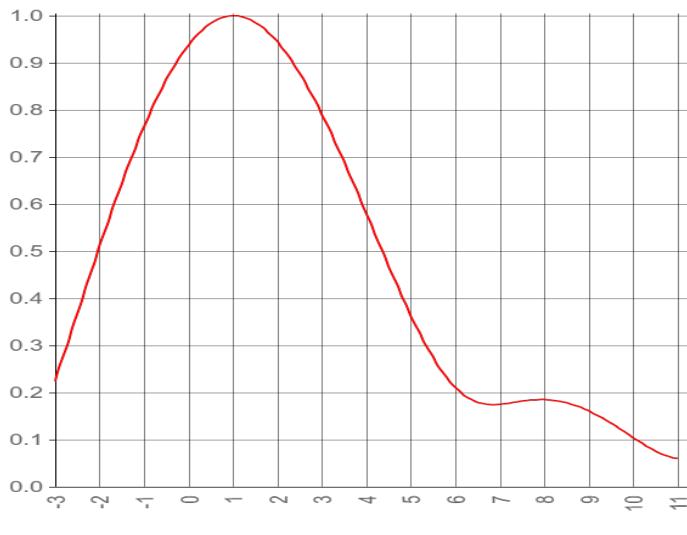
Beam Tilt

1 Degrees

RMS Gain at Horizontal

8.4 (9.22 dB)

Drawing #

10Q095100
Calculated


Angle	Field								
-10	0.251	10	0.104	30	0.165	50	0.072	70	0.023
-9	0.344	11	0.060	31	0.171	51	0.075	71	0.036
-8	0.432	12	0.084	32	0.159	52	0.077	72	0.048
-7	0.473	13	0.112	33	0.133	53	0.080	73	0.058
-6	0.436	14	0.110	34	0.100	54	0.086	74	0.065
-5	0.307	15	0.089	35	0.071	55	0.098	75	0.069
-4	0.114	16	0.087	36	0.050	56	0.113	76	0.070
-3	0.224	17	0.119	37	0.038	57	0.130	77	0.070
-2	0.509	18	0.150	38	0.032	58	0.145	78	0.067
-1	0.764	19	0.157	39	0.040	59	0.156	79	0.063
0	0.938	20	0.137	40	0.062	60	0.162	80	0.057
1	1.000	21	0.096	41	0.087	61	0.161	81	0.051
2	0.945	22	0.046	42	0.110	62	0.153	82	0.044
3	0.791	23	0.005	43	0.124	63	0.140	83	0.037
4	0.579	24	0.022	44	0.128	64	0.122	84	0.030
5	0.364	25	0.026	45	0.122	65	0.101	85	0.023
6	0.211	26	0.024	46	0.109	66	0.078	86	0.017
7	0.175	27	0.054	47	0.093	67	0.055	87	0.011
8	0.185	28	0.099	48	0.079	68	0.034	88	0.006
9	0.161	29	0.139	49	0.072	69	0.019	89	0.002

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