



Antenna Model:

TFU-23JTH/VP-R S500

Proposal Number: C-70251-2
Date: 20-Nov-17
Customer: SCETV
Location: Allendale, SC

Electrical Specifications

Polarization: Elliptical
Azimuth Pattern: Directional
Antenna Input: 3-1/8" 50 Ohm EIA/DCA
VSWR: Channel 1.08:1
Bandwidth: 6 MHz
Rated Input Power: 21 kW (13.22 dBk) Maximum Average Power

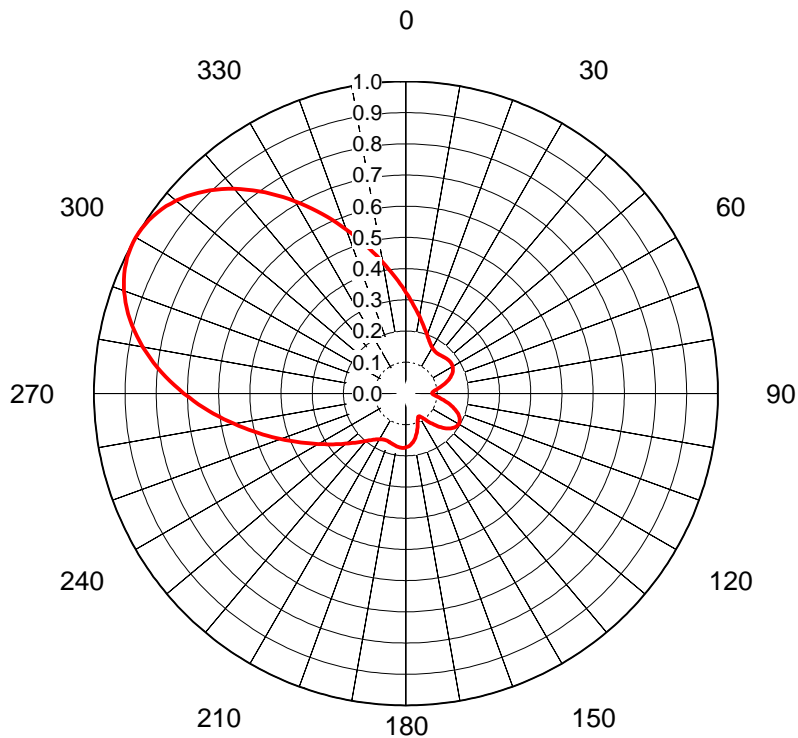
Mechanical Specifications

Mounting: Top Mounted
Environmental Protection: Full Radome
Height: 46.9 ft (14.3m) less Lightning Protector 50.9 ft (15.5m) with Lightning Protector
Weight: 7400 lb (3.4t)
Effective Projected Area: 55.3 ft² (5.1m²) TIA-222-G **Basic Wind Speed:** 100 m/h (160.9 km/h)

Channel Specifications

Call	CH	Freq	Hpol ERP	Vpol ERP	TPO	Peak Main Lobe Hpol Gain	Peak Main Lobe Vpol Gain	Peak at Horizontal Hpol Gain	Peak at Horizontal Vpol Gain
WEBA	21	515 MHz	371.0 kW (25.69 dBk)	123.7 kW (20.92 dBk)	5.7 kW (7.54 dBk)	80.12 (19.04dB)	26.71 (14.27dB)	46.89 (16.71dB)	15.63 (11.94dB)

AZIMUTH PATTERN Horizontal Polarization



Proposal No. **C-70251-2**
 Date **20-Nov-17**
 Call Letters **WEBA**
 Channel **21**
 Frequency **515 MHz**
 Antenna Type **TFU-23JTH/VP-R S500**
 Gain **5.02 (7dB)**
Calculated

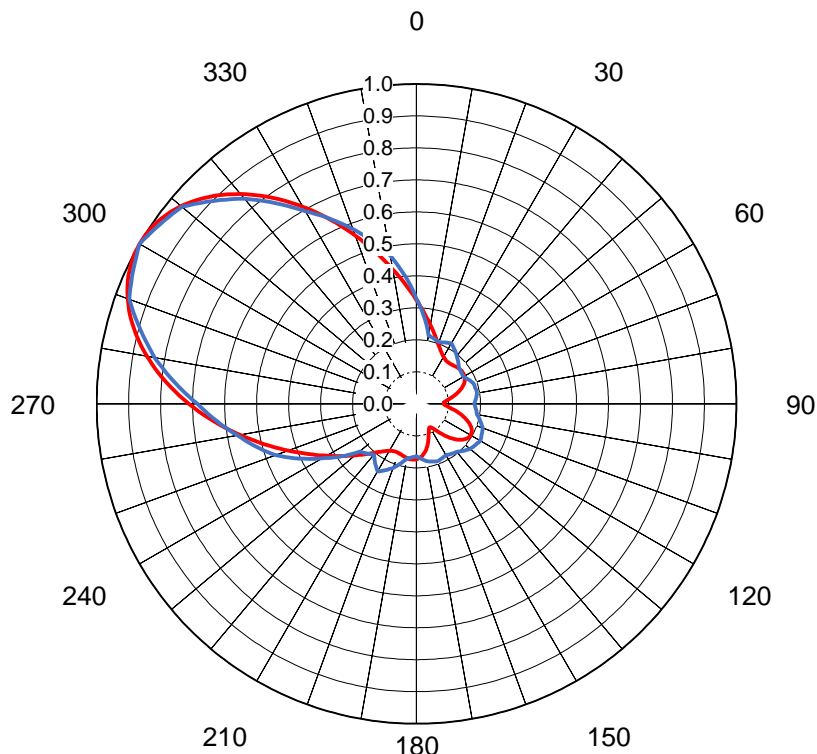
Drawing # **TFU-C500-21**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.324	36	0.163	72	0.145	108	0.166	144	0.102	180	0.173	216	0.184	252	0.451	288	0.945	324	0.801
1	0.316	37	0.163	73	0.141	109	0.170	145	0.098	181	0.174	217	0.188	253	0.464	289	0.953	325	0.787
2	0.307	38	0.163	74	0.137	110	0.175	146	0.094	182	0.174	218	0.191	254	0.477	290	0.961	326	0.772
3	0.299	39	0.163	75	0.133	111	0.178	147	0.090	183	0.175	219	0.195	255	0.490	291	0.968	327	0.757
4	0.292	40	0.164	76	0.128	112	0.182	148	0.087	184	0.175	220	0.199	256	0.504	292	0.975	328	0.742
5	0.284	41	0.164	77	0.124	113	0.185	149	0.086	185	0.175	221	0.203	257	0.517	293	0.980	329	0.727
6	0.277	42	0.165	78	0.119	114	0.188	150	0.084	186	0.174	222	0.208	258	0.531	294	0.986	330	0.712
7	0.270	43	0.166	79	0.115	115	0.190	151	0.084	187	0.174	223	0.212	259	0.546	295	0.990	331	0.696
8	0.263	44	0.167	80	0.110	116	0.192	152	0.084	188	0.174	224	0.217	260	0.560	296	0.994	332	0.681
9	0.257	45	0.167	81	0.106	117	0.194	153	0.086	189	0.173	225	0.222	261	0.575	297	0.996	333	0.665
10	0.250	46	0.168	82	0.101	118	0.195	154	0.088	190	0.172	226	0.227	262	0.589	298	0.998	334	0.650
11	0.244	47	0.169	83	0.098	119	0.195	155	0.091	191	0.171	227	0.233	263	0.605	299	0.999	335	0.635
12	0.238	48	0.170	84	0.094	120	0.196	156	0.094	192	0.170	228	0.238	264	0.620	300	1.000	336	0.620
13	0.233	49	0.171	85	0.091	121	0.195	157	0.098	193	0.169	229	0.244	265	0.635	301	0.999	337	0.605
14	0.227	50	0.172	86	0.088	122	0.195	158	0.101	194	0.168	230	0.250	266	0.650	302	0.998	338	0.589
15	0.222	51	0.173	87	0.086	123	0.194	159	0.106	195	0.167	231	0.257	267	0.665	303	0.996	339	0.575
16	0.217	52	0.174	88	0.084	124	0.192	160	0.110	196	0.167	232	0.263	268	0.681	304	0.994	340	0.560
17	0.212	53	0.174	89	0.084	125	0.190	161	0.115	197	0.166	233	0.270	269	0.696	305	0.990	341	0.546
18	0.208	54	0.174	90	0.084	126	0.188	162	0.119	198	0.165	234	0.277	270	0.712	306	0.986	342	0.531
19	0.203	55	0.175	91	0.086	127	0.185	163	0.124	199	0.164	235	0.284	271	0.727	307	0.980	343	0.517
20	0.199	56	0.175	92	0.087	128	0.182	164	0.128	200	0.164	236	0.292	272	0.742	308	0.975	344	0.504
21	0.195	57	0.175	93	0.090	129	0.178	165	0.133	201	0.163	237	0.299	273	0.757	309	0.968	345	0.490
22	0.191	58	0.174	94	0.094	130	0.175	166	0.137	202	0.163	238	0.307	274	0.772	310	0.961	346	0.477
23	0.188	59	0.174	95	0.098	131	0.170	167	0.141	203	0.163	239	0.316	275	0.787	311	0.953	347	0.464
24	0.184	60	0.173	96	0.102	132	0.166	168	0.145	204	0.163	240	0.324	276	0.801	312	0.945	348	0.451
25	0.181	61	0.172	97	0.107	133	0.161	169	0.149	205	0.164	241	0.333	277	0.815	313	0.935	349	0.439
26	0.178	62	0.171	98	0.112	134	0.156	170	0.152	206	0.164	242	0.342	278	0.829	314	0.926	350	0.427
27	0.176	63	0.169	99	0.118	135	0.151	171	0.155	207	0.165	243	0.352	279	0.843	315	0.915	351	0.415
28	0.173	64	0.168	100	0.123	136	0.146	172	0.158	208	0.166	244	0.362	280	0.856	316	0.905	352	0.404
29	0.171	65	0.166	101	0.129	137	0.140	173	0.161	209	0.168	245	0.372	281	0.869	317	0.893	353	0.393
30	0.169	66	0.164	102	0.134	138	0.134	174	0.164	210	0.169	246	0.382	282	0.881	318	0.881	354	0.382
31	0.168	67	0.161	103	0.140	139	0.129	175	0.166	211	0.171	247	0.393	283	0.893	319	0.869	355	0.372
32	0.166	68	0.158	104	0.146	140	0.123	176	0.168	212	0.173	248	0.404	284	0.905	320	0.856	356	0.362
33	0.165	69	0.155	105	0.151	141	0.118	177	0.169	213	0.176	249	0.415	285	0.915	321	0.843	357	0.352
34	0.164	70	0.152	106	0.156	142	0.112	178	0.171	214	0.178	250	0.427	286	0.926	322	0.829	358	0.342
35	0.164	71	0.149	107	0.161	143	0.107	179	0.172	215	0.181	251	0.439	287	0.935	323	0.815	359	0.333

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AZIMUTH OVERLAY

Proposal No. **C-70251-2**
 Date **20-Nov-17**
 Call Letters **WEBA**
 Channel **21**
 Frequency **515 MHz**
 Antenna Type **TFU-23JTH/VP-R S500**
 Red Drawing # **TFU-C500-21**
 Blue Drawing # **FCC File**



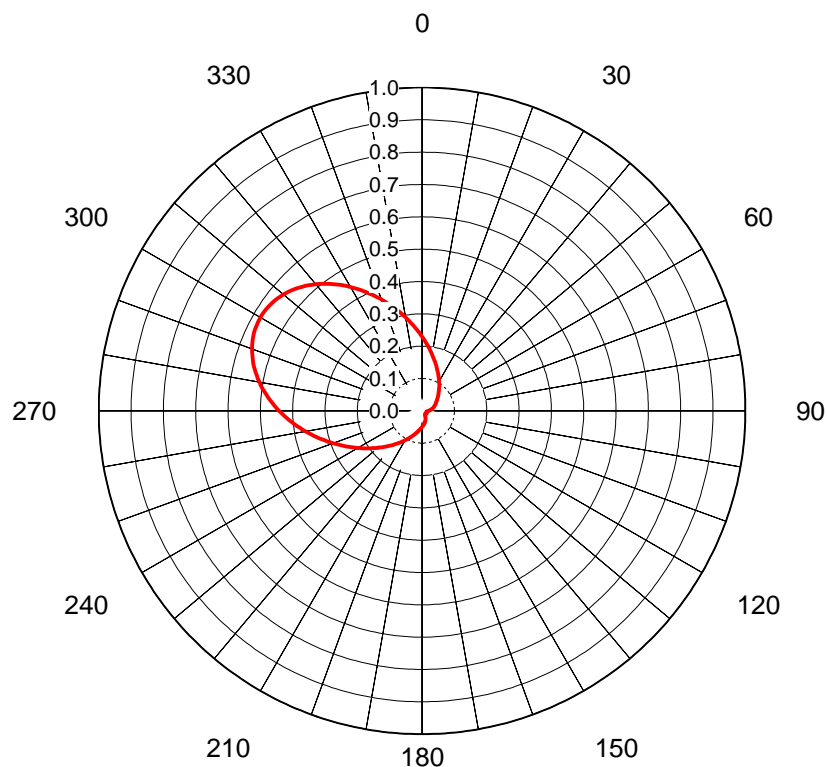
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.324	36	0.163	72	0.145	108	0.166	144	0.102	180	0.173	216	0.184	252	0.451	288	0.945
1	0.316	37	0.163	73	0.141	109	0.170	145	0.098	181	0.174	217	0.188	253	0.464	289	0.953
2	0.307	38	0.163	74	0.137	110	0.175	146	0.094	182	0.174	218	0.191	254	0.477	290	0.961
3	0.299	39	0.163	75	0.133	111	0.178	147	0.090	183	0.175	219	0.195	255	0.490	291	0.968
4	0.292	40	0.164	76	0.128	112	0.182	148	0.087	184	0.175	220	0.199	256	0.504	292	0.975
5	0.284	41	0.164	77	0.124	113	0.185	149	0.086	185	0.175	221	0.203	257	0.517	293	0.980
6	0.277	42	0.165	78	0.119	114	0.188	150	0.084	186	0.174	222	0.208	258	0.531	294	0.986
7	0.270	43	0.166	79	0.115	115	0.190	151	0.084	187	0.174	223	0.212	259	0.546	295	0.990
8	0.263	44	0.167	80	0.110	116	0.192	152	0.084	188	0.174	224	0.217	260	0.560	296	0.994
9	0.257	45	0.167	81	0.106	117	0.194	153	0.086	189	0.173	225	0.222	261	0.575	297	0.996
10	0.250	46	0.168	82	0.101	118	0.195	154	0.088	190	0.172	226	0.227	262	0.589	298	0.998
11	0.244	47	0.169	83	0.098	119	0.195	155	0.091	191	0.171	227	0.233	263	0.605	299	0.999
12	0.238	48	0.170	84	0.094	120	0.196	156	0.094	192	0.170	228	0.238	264	0.620	300	1.000
13	0.233	49	0.171	85	0.091	121	0.195	157	0.098	193	0.169	229	0.244	265	0.635	301	0.999
14	0.227	50	0.172	86	0.088	122	0.195	158	0.101	194	0.168	230	0.250	266	0.650	302	0.998
15	0.222	51	0.173	87	0.086	123	0.194	159	0.106	195	0.167	231	0.257	267	0.665	303	0.996
16	0.217	52	0.174	88	0.084	124	0.192	160	0.110	196	0.167	232	0.263	268	0.681	304	0.994
17	0.212	53	0.174	89	0.084	125	0.190	161	0.115	197	0.166	233	0.270	269	0.696	305	0.990
18	0.208	54	0.174	90	0.084	126	0.188	162	0.119	198	0.165	234	0.277	270	0.712	306	0.986
19	0.203	55	0.175	91	0.086	127	0.185	163	0.124	199	0.164	235	0.284	271	0.727	307	0.980
20	0.199	56	0.175	92	0.087	128	0.182	164	0.128	200	0.164	236	0.292	272	0.742	308	0.975
21	0.195	57	0.175	93	0.090	129	0.178	165	0.133	201	0.163	237	0.299	273	0.757	309	0.968
22	0.191	58	0.174	94	0.094	130	0.175	166	0.137	202	0.163	238	0.307	274	0.772	310	0.961
23	0.188	59	0.174	95	0.098	131	0.170	167	0.141	203	0.163	239	0.316	275	0.787	311	0.953
24	0.184	60	0.173	96	0.102	132	0.166	168	0.145	204	0.163	240	0.324	276	0.801	312	0.945
25	0.181	61	0.172	97	0.107	133	0.161	169	0.149	205	0.164	241	0.333	277	0.815	313	0.935
26	0.178	62	0.171	98	0.112	134	0.156	170	0.152	206	0.164	242	0.342	278	0.829	314	0.926
27	0.176	63	0.169	99	0.118	135	0.151	171	0.155	207	0.165	243	0.352	279	0.843	315	0.915
28	0.173	64	0.168	100	0.123	136	0.146	172	0.158	208	0.166	244	0.362	280	0.856	316	0.905
29	0.171	65	0.166	101	0.129	137	0.140	173	0.161	209	0.168	245	0.372	281	0.869	317	0.893
30	0.169	66	0.164	102	0.134	138	0.134	174	0.164	210	0.169	246	0.382	282	0.881	318	0.881
31	0.168	67	0.161	103	0.140	139	0.129	175	0.166	211	0.171	247	0.393	283	0.893	319	0.869
32	0.166	68	0.158	104	0.146	140	0.123	176	0.168	212	0.173	248	0.404	284	0.905	320	0.856
33	0.165	69	0.155	105	0.151	141	0.118	177	0.169	213	0.176	249	0.415	285	0.915	321	0.843
34	0.164	70	0.152	106	0.156	142	0.112	178	0.171	214	0.178	250	0.427	286	0.926	322	0.829
35	0.164	71	0.149	107	0.161	143	0.107	179	0.172	215	0.181	251	0.439	287	0.935	323	0.815

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AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-70251-2**
 Date **20-Nov-17**
 Call Letters **WEBA**
 Channel **21**
 Frequency **515 MHz**
 Antenna Type **TFU-23JTH/VP-R S500**
 Gain **4.66 (6.69dB)**
Calculated

Drawing # **TFU-C500-21-V**



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.230	36	0.090	72	0.038	108	0.014	144	0.015	180	0.050	216	0.123	252	0.307	288	0.552
1	0.224	37	0.088	73	0.037	109	0.014	145	0.016	181	0.051	217	0.126	253	0.314	289	0.556
2	0.218	38	0.085	74	0.036	110	0.015	146	0.017	182	0.052	218	0.130	254	0.321	290	0.560
3	0.213	39	0.083	75	0.035	111	0.015	147	0.018	183	0.053	219	0.133	255	0.329	291	0.563
4	0.207	40	0.081	76	0.034	112	0.015	148	0.019	184	0.055	220	0.137	256	0.336	292	0.566
5	0.202	41	0.079	77	0.033	113	0.016	149	0.020	185	0.056	221	0.140	257	0.343	293	0.569
6	0.197	42	0.077	78	0.032	114	0.016	150	0.021	186	0.057	222	0.144	258	0.351	294	0.571
7	0.192	43	0.075	79	0.032	115	0.016	151	0.021	187	0.059	223	0.148	259	0.358	295	0.573
8	0.187	44	0.073	80	0.031	116	0.017	152	0.022	188	0.060	224	0.152	260	0.366	296	0.574
9	0.182	45	0.071	81	0.030	117	0.017	153	0.023	189	0.062	225	0.156	261	0.374	297	0.576
10	0.178	46	0.070	82	0.029	118	0.017	154	0.025	190	0.063	226	0.160	262	0.381	298	0.577
11	0.173	47	0.068	83	0.028	119	0.017	155	0.026	191	0.065	227	0.164	263	0.389	299	0.577
12	0.169	48	0.066	84	0.027	120	0.017	156	0.027	192	0.066	228	0.169	264	0.396	300	0.577
13	0.164	49	0.065	85	0.026	121	0.017	157	0.028	193	0.068	229	0.173	265	0.404	301	0.577
14	0.160	50	0.063	86	0.025	122	0.017	158	0.029	194	0.070	230	0.178	266	0.412	302	0.577
15	0.156	51	0.062	87	0.023	123	0.017	159	0.030	195	0.071	231	0.182	267	0.419	303	0.576
16	0.152	52	0.060	88	0.022	124	0.017	160	0.031	196	0.073	232	0.187	268	0.427	304	0.574
17	0.148	53	0.059	89	0.021	125	0.016	161	0.032	197	0.075	233	0.192	269	0.435	305	0.573
18	0.144	54	0.057	90	0.021	126	0.016	162	0.032	198	0.077	234	0.197	270	0.442	306	0.571
19	0.140	55	0.056	91	0.020	127	0.016	163	0.033	199	0.079	235	0.202	271	0.449	307	0.569
20	0.137	56	0.055	92	0.019	128	0.015	164	0.034	200	0.081	236	0.207	272	0.457	308	0.566
21	0.133	57	0.053	93	0.018	129	0.015	165	0.035	201	0.083	237	0.213	273	0.464	309	0.563
22	0.130	58	0.052	94	0.017	130	0.015	166	0.036	202	0.085	238	0.218	274	0.471	310	0.560
23	0.126	59	0.051	95	0.016	131	0.014	167	0.037	203	0.088	239	0.224	275	0.478	311	0.556
24	0.123	60	0.050	96	0.015	132	0.014	168	0.038	204	0.090	240	0.230	276	0.485	312	0.552
25	0.120	61	0.049	97	0.015	133	0.014	169	0.039	205	0.092	241	0.235	277	0.492	313	0.548
26	0.117	62	0.048	98	0.014	134	0.014	170	0.040	206	0.095	242	0.241	278	0.498	314	0.543
27	0.114	63	0.047	99	0.014	135	0.013	171	0.041	207	0.097	243	0.248	279	0.505	315	0.539
28	0.111	64	0.046	100	0.014	136	0.013	172	0.042	208	0.100	244	0.254	280	0.511	316	0.534
29	0.108	65	0.045	101	0.013	137	0.013	173	0.043	209	0.103	245	0.260	281	0.517	317	0.528
30	0.105	66	0.044	102	0.013	138	0.013	174	0.044	210	0.105	246	0.266	282	0.523	318	0.523
31	0.103	67	0.043	103	0.013	139	0.013	175	0.045	211	0.108	247	0.273	283	0.528	319	0.517
32	0.100	68	0.042	104	0.013	140	0.014	176	0.046	212	0.111	248	0.280	284	0.534	320	0.511
33	0.097	69	0.041	105	0.013	141	0.014	177	0.047	213	0.114	249	0.286	285	0.539	321	0.505
34	0.095	70	0.040	106	0.014	142	0.014	178	0.048	214	0.117	250	0.293	286	0.543	322	0.498
35	0.092	71	0.039	107	0.014	143	0.015	179	0.049	215	0.120	251	0.300	287	0.548	323	0.492

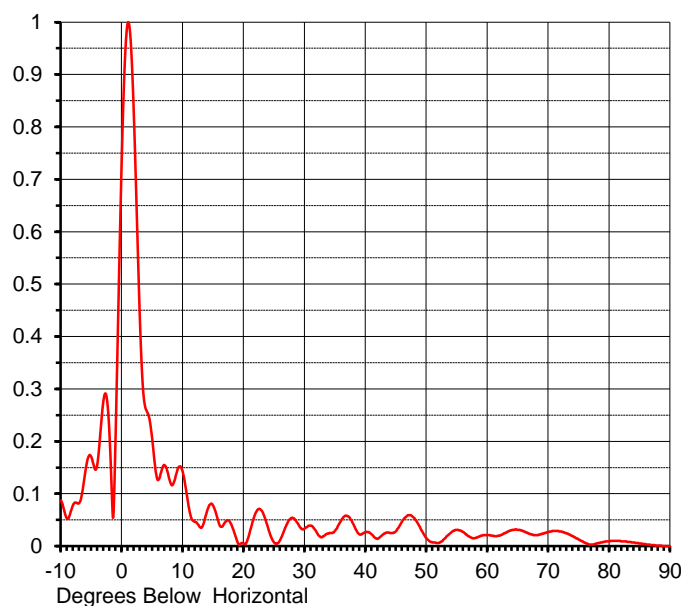
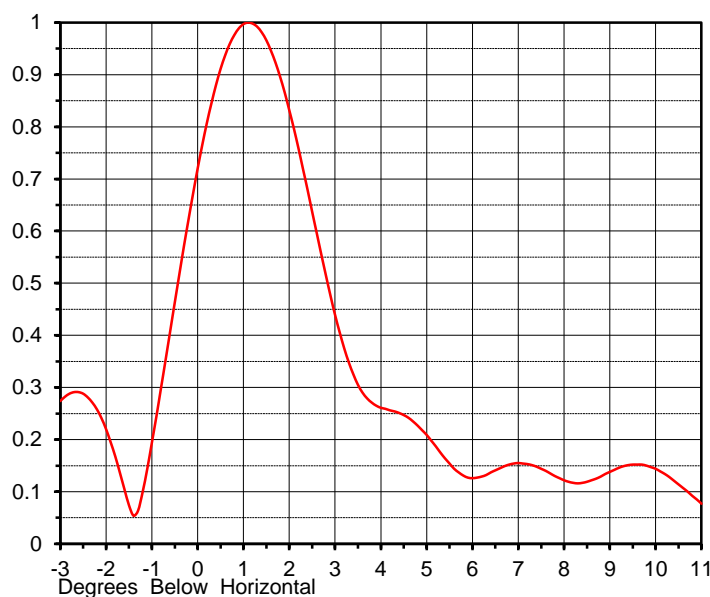
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ELEVATION PATTERN

Proposal No. **C-70251-2**
 Date **20-Nov-17**
 Call Letters **WEBA**
 Channel **21**
 Frequency **515 MHz**
 Antenna Type **TFU-23JTH/VP-R S500**

RMS Directivity at Main Lobe **21.7 (13.36 dB)**
 RMS Directivity at Horizontal **11.2 (10.49 dB)**
Calculated

Beam Tilt **1.00 deg**
 Drawing Number **23J217100**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.087	10.0	0.139	30.0	0.034	50.0	0.014	70.0	0.027
-9.0	0.052	11.0	0.071	31.0	0.039	51.0	0.007	71.0	0.029
-8.0	0.080	12.0	0.046	32.0	0.025	52.0	0.006	72.0	0.028
-7.0	0.083	13.0	0.035	33.0	0.019	53.0	0.015	73.0	0.024
-6.0	0.145	14.0	0.069	34.0	0.025	54.0	0.026	74.0	0.019
-5.0	0.169	15.0	0.076	35.0	0.030	55.0	0.031	75.0	0.012
-4.0	0.162	16.0	0.040	36.0	0.050	56.0	0.027	76.0	0.006
-3.0	0.282	17.0	0.047	37.0	0.057	57.0	0.018	77.0	0.003
-2.0	0.195	18.0	0.039	38.0	0.041	58.0	0.016	78.0	0.005
-1.0	0.245	19.0	0.006	39.0	0.022	59.0	0.020	79.0	0.008
0.0	0.765	20.0	0.005	40.0	0.027	60.0	0.021	80.0	0.009
1.0	1.000	21.0	0.029	41.0	0.022	61.0	0.019	81.0	0.010
2.0	0.797	22.0	0.065	42.0	0.014	62.0	0.020	82.0	0.009
3.0	0.406	23.0	0.066	43.0	0.024	63.0	0.026	83.0	0.008
4.0	0.259	24.0	0.033	44.0	0.025	64.0	0.031	84.0	0.007
5.0	0.198	25.0	0.006	45.0	0.029	65.0	0.031	85.0	0.005
6.0	0.127	26.0	0.013	46.0	0.048	66.0	0.028	86.0	0.003
7.0	0.154	27.0	0.041	47.0	0.059	67.0	0.023	87.0	0.002
8.0	0.119	28.0	0.054	48.0	0.053	68.0	0.021	88.0	0.001
9.0	0.142	29.0	0.040	49.0	0.033	69.0	0.024	89.0	0.000
								90.0	0.000

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***FutureFill** refers to broadband panels or limited bandwidth slotted coaxial antennas that can be modified in the field to provide the flexibility to customize the null structure at a future date.*

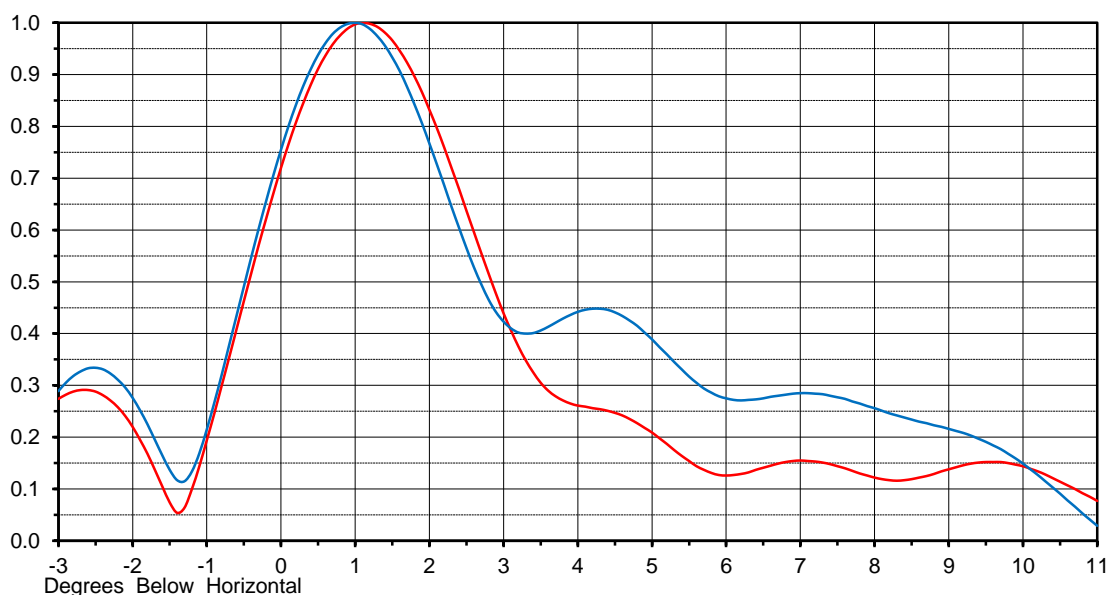
FutureFill OVERLAY

Proposal No. **C-70251-2**
 Date **20-Nov-17**
 Call Letters **WEBA**
 Channel **21**
 Frequency **515 MHz**
 Antenna Type **TFU-23JTH/VP-R S500**

RMS Directivity 21.7 **(13.36dB)**
 RMS Directivity 16.3 **(12.12dB)**
 Calculated

Beam Tilt 1.00
 Beam Tilt 1.00

Drawing No. 23J217100 **Red**
 Drawing No. 23J217100-FF **Blue**

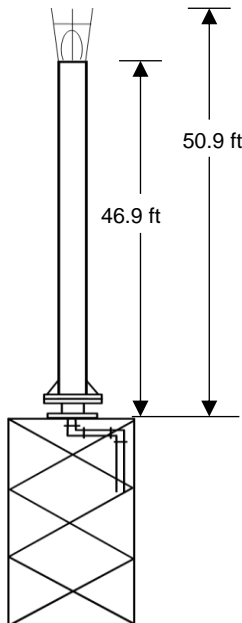


Tabulations for 23J217100-FF

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.202	10.0	0.149	30.0	0.137	50.0	0.022	70.0	0.021
-9.0	0.161	11.0	0.029	31.0	0.165	51.0	0.016	71.0	0.028
-8.0	0.116	12.0	0.045	32.0	0.152	52.0	0.023	72.0	0.030
-7.0	0.150	13.0	0.016	33.0	0.124	53.0	0.039	73.0	0.029
-6.0	0.253	14.0	0.055	34.0	0.122	54.0	0.057	74.0	0.024
-5.0	0.231	15.0	0.064	35.0	0.144	55.0	0.066	75.0	0.018
-4.0	0.016	16.0	0.006	36.0	0.159	56.0	0.065	76.0	0.011
-3.0	0.289	17.0	0.079	37.0	0.144	57.0	0.054	77.0	0.007
-2.0	0.276	18.0	0.104	38.0	0.098	58.0	0.042	78.0	0.005
-1.0	0.215	19.0	0.095	39.0	0.052	59.0	0.033	79.0	0.007
0.0	0.755	20.0	0.102	40.0	0.048	60.0	0.029	80.0	0.008
1.0	1.000	21.0	0.149	41.0	0.049	61.0	0.032	81.0	0.009
2.0	0.767	22.0	0.201	42.0	0.033	62.0	0.040	82.0	0.009
3.0	0.423	23.0	0.204	43.0	0.015	63.0	0.048	83.0	0.008
4.0	0.442	24.0	0.169	44.0	0.008	64.0	0.051	84.0	0.007
5.0	0.389	25.0	0.148	45.0	0.035	65.0	0.048	85.0	0.005
6.0	0.275	26.0	0.147	46.0	0.063	66.0	0.037	86.0	0.003
7.0	0.285	27.0	0.139	47.0	0.077	67.0	0.022	87.0	0.002
8.0	0.256	28.0	0.112	48.0	0.068	68.0	0.006	88.0	0.001
9.0	0.216	29.0	0.099	49.0	0.044	69.0	0.010	89.0	0.000
								90.0	0.000

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MECHANICAL SPECIFICATIONS



Proposal No. **C-70251-2**
 Date **20-Nov-17**
 Call Letters **WEBA**
 Channel **21**
 Frequency **515 MHz**
 Antenna Type **TFU-23JTH/VP-R S500**

Preliminary Specifications

Top Mounted

With ice TIA-222-G

Height AGL(z) 792 ft (241.4 m)
 Basic Wind Speed 100 m/h (160.9 km/h)

Structure Class II
 Exposure Category C
 Topography Category 3
 Height of Crest 230 ft (70.1 m)

Design Ice 0.5 in $t_{iz} = 1.37$ in
 Wind Speed w/Ice 30 m/h (48.3 km/h)

Mechanical Specifications

		without ice	with ice
Height with Lightning Protector	H4	50.9 ft (15.5m)	
Height less Lightning Protector	H2	46.9 ft (14.3m)	
Height of Center of Radiation	H3	23.45 ft (7.1m)	
Effective Projected Area	(EPA) _S	55.3 ft ² (5.1m ²)	129.3 ft ² (12m ²)
Moment Arm	D1	24.9 ft (7.6m)	25.6 ft (7.8m)

Weight	W	7400 lb (3.4t)	9600 lb (4.4t)

Antenna designed in accordance with AISC specifications for design of structural steel as prescribed by TIA-222-G

Prepared by: NJS

Date: 20-Nov-17

ME:

EE:

Rev. No.2 by:

Date: 20-Nov-17

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Summary

Proposal No.	C-70251-2
Date	20-Nov-17
Call Letters	WEBA
Channel	21
Frequency	515 MHz
Antenna Type	TFU-23JTH/VP-R S500

Antenna

	Hpol	Vpol
ERP:	371.0 kW (25.69 dBk)	123.7 kW (20.92 dBk)
Peak Gain*	80.12 (19.04 dB)	26.71 (14.27 dB)

Antenna Input Power	4.6 kW (6.66 dBk)
----------------------------	----------------------------

Transmission Line

Type:	Rigid	Attenuation:	(0.88 dB)
Size:	6-1/8"	Efficiency:	81.7%
Impedance:	75 Ohm		
Length:	800 ft	243.8 m	

Transmitter Output

5.7 kW (7.54 dBk)

Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. The gain includes feed system losses

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