

WKAQ-TV Application for Modification

EXHIBIT 44
June 9, 2010

TABULATION OF AZIMUTH PATTERN: Dielectric TFU-24ETT/VP-R 4C124

Main beam axis of symmetry: 347°true Horizontal plane peak of beam: 246°true
Electrical Beam Tilt: 1.50° Mechanical beam tilt : 0.7°at 42°true
Main Beam Calculated Maximum Azimuth Pattern Gain (peak): 1.24 (0.93 dBd)
Maximum Peak of Beam Effective Radiated Power (ERP): 925 kW
Maximum Peak of Beam Effective Radiated Power (ERP): 29.66 dBk

Peak of Beam				Horizontal Plane						
Angle	Field	ERP (dBk)	ERP (kW)	Field	ERP (dBk)	ERP (kW)				
0	0.991	29.58	908.4	0.261	18.00	63.03	MAXIMA - Peak of Beam			
10	0.997	29.64	919.5	0.226	16.73	47.07	Angle	Field	ERP (dBk)	ERP (kW)
20	0.993	29.60	912.1	0.190	15.25	33.50	13	0.998	29.6	921.30
30	0.977	29.46	882.9	0.155	13.46	22.17	78	1.000	29.7	925.00
40	0.958	29.29	848.9	0.135	12.25	16.78	167	0.826	28.0	631.11
50	0.952	29.23	838.3	0.144	12.83	19.19	256	1.000	29.7	925.00
60	0.966	29.36	863.2	0.172	14.36	27.29	322	0.998	29.6	921.30
70	0.990	29.57	906.6	0.210	16.12	40.90				
80	0.999	29.65	923.2	0.247	17.51	56.33	MINIMA - Peak of Beam			
90	0.968	29.38	866.7	0.279	18.58	72.19	Angle	Field	ERP (dBk)	ERP (kW)
100	0.888	28.63	729.4	0.294	19.02	79.72	48	0.951	29.2	836.57
110	0.782	27.53	565.7	0.292	18.97	78.84	129	0.660	26.1	402.93
120	0.692	26.46	442.9	0.289	18.87	77.12	204	0.660	26.1	402.93
130	0.660	26.05	402.9	0.304	19.33	85.71	286	0.951	29.2	836.57
140	0.694	26.49	445.5	0.351	20.56	113.69	347	0.984	29.5	895.64
150	0.760	27.28	534.3	0.417	22.07	161.09				
160	0.813	27.86	611.4	0.482	23.32	214.64				
170	0.823	27.97	626.5	0.522	24.01	251.93	MAXIMA - Horizontal Plane			
180	0.785	27.56	570.0	0.530	24.15	260.27	Angle	Field	ERP (dBk)	ERP (kW)
190	0.719	26.80	478.2	0.514	23.88	244.14	104	0.294	19.0	80.09
200	0.667	26.14	411.5	0.501	23.67	232.64	178	0.531	24.2	261.07
210	0.671	26.20	416.5	0.529	24.13	259.07	246	0.728	26.9	490.27
220	0.742	27.07	509.3	0.609	25.35	342.60				
230	0.847	28.22	663.6	0.679	26.29	426.09				
240	0.941	29.13	819.1	0.722	26.83	481.60				
250	0.992	29.59	910.3	0.724	26.85	484.37				
260	0.997	29.64	919.5	0.690	26.44	440.47				
270	0.976	29.45	881.1	0.635	25.72	373.16	MINIMA - Horizontal Plane			
280	0.955	29.26	843.6	0.582	24.96	313.04	Angle	Field	ERP (dBk)	ERP (kW)
290	0.953	29.24	840.1	0.540	24.31	269.77	42	0.131	12.0	15.83
300	0.969	29.39	868.5	0.507	23.75	237.33	119	0.289	18.9	77.04
310	0.988	29.56	902.9	0.473	23.16	206.99	199	0.501	23.7	232.41
320	0.997	29.64	919.5	0.434	22.40	173.86				
330	0.994	29.61	913.9	0.389	21.45	139.65				
340	0.987	29.55	901.1	0.343	20.36	108.75				
350	0.985	29.53	897.5	0.301	19.23	83.71				

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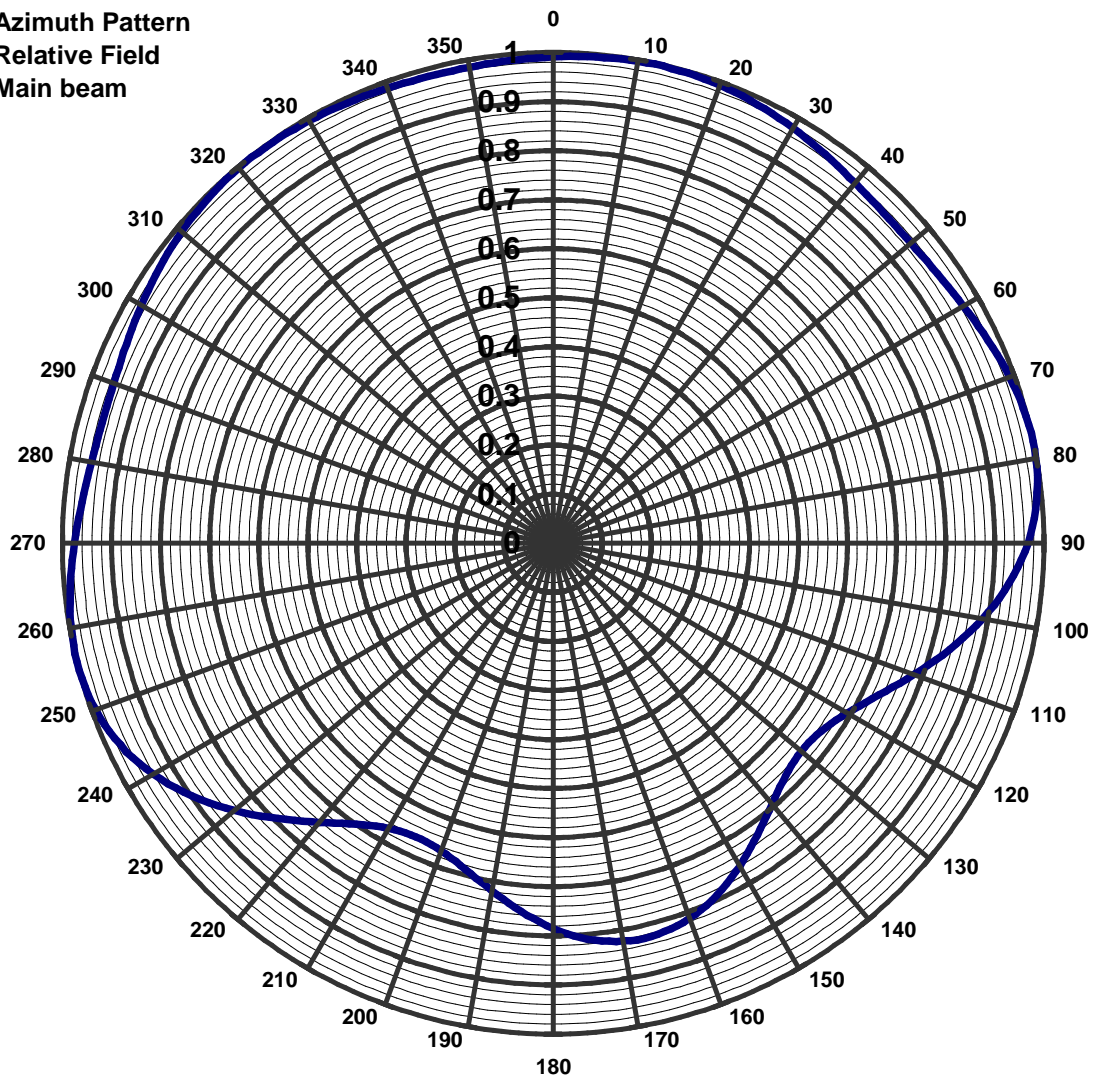
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June 2, 2010

MAIN BEAM AZIMUTH PATTERN: Dielectric TFU-24ETT/VP-R 4C124

Main beam axis of symmetry: 347° true Horizontal plane peak of beam: 246° true
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Main beam pattern without mechanical beam tilt

Azimuth Pattern
Relative Field
Main beam



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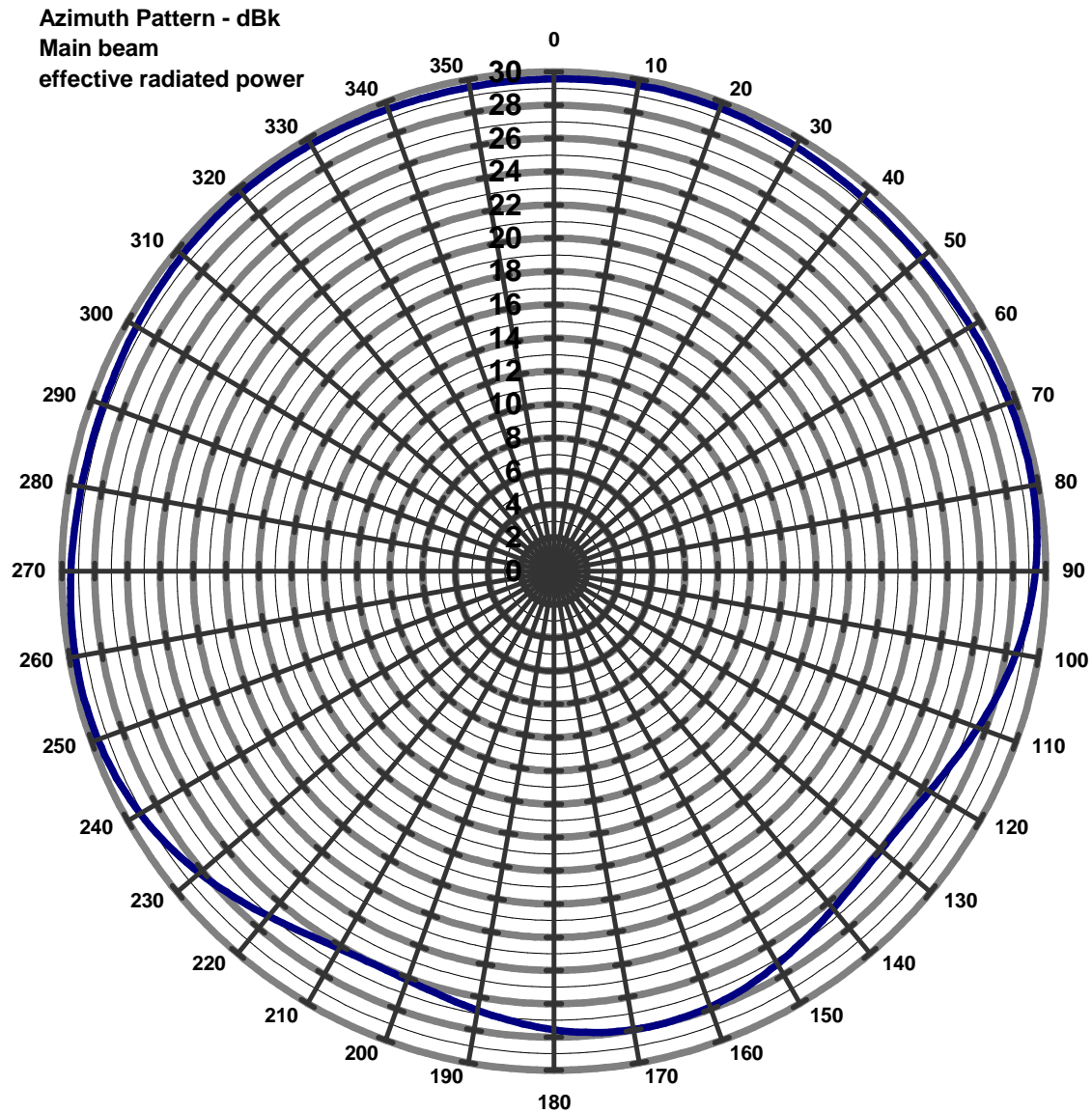
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Main beam pattern without mechanical beam tilt



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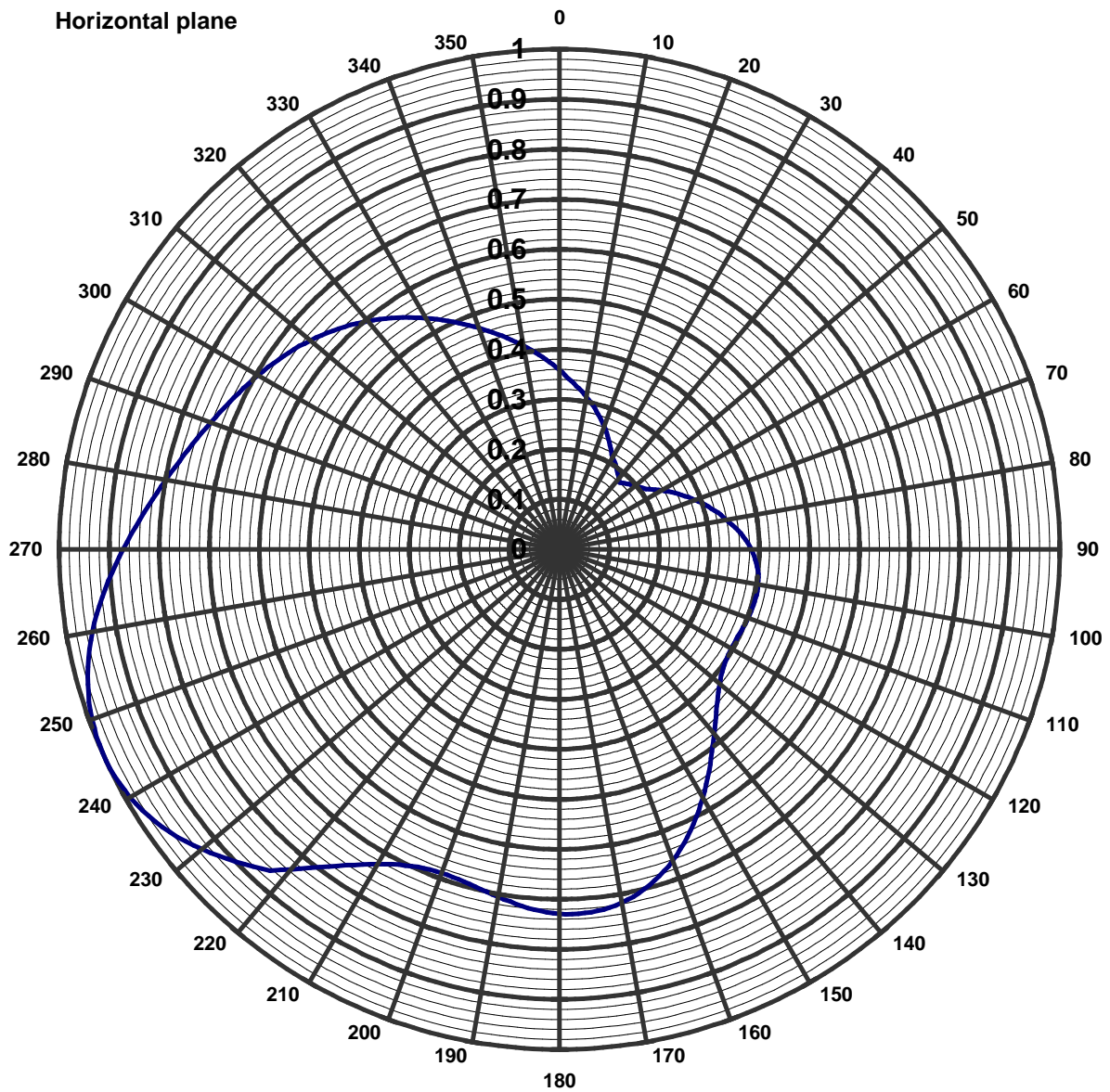
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HORIZONTAL PLANE AZIMUTH PATTERN: Dielectric TFU-24ETT/VP-R 4C124

Electrical Beam Tilt: 1.50°	Mechanical beam tilt : 0.7° at 42° true
Main Beam Calculated Maximum Azimuth Pattern Gain (peak):	1.24 (0.93 dBd)
Maximum Peak of Beam Effective Radiated Power (ERP):	925 kW
Maximum Peak of Beam Effective Radiated Power (ERP):	29.66 dBk
Maximum Horizontal Plane Effective Radiated Power (ERP):	261.07 kW
Maximum Horizontal Plane Effective Radiated Power (ERP):	24.2 dBk

Horizontal plane pattern with mechanical and electrical beam tilt

Azimuth Pattern - Relative Field
Horizontal plane



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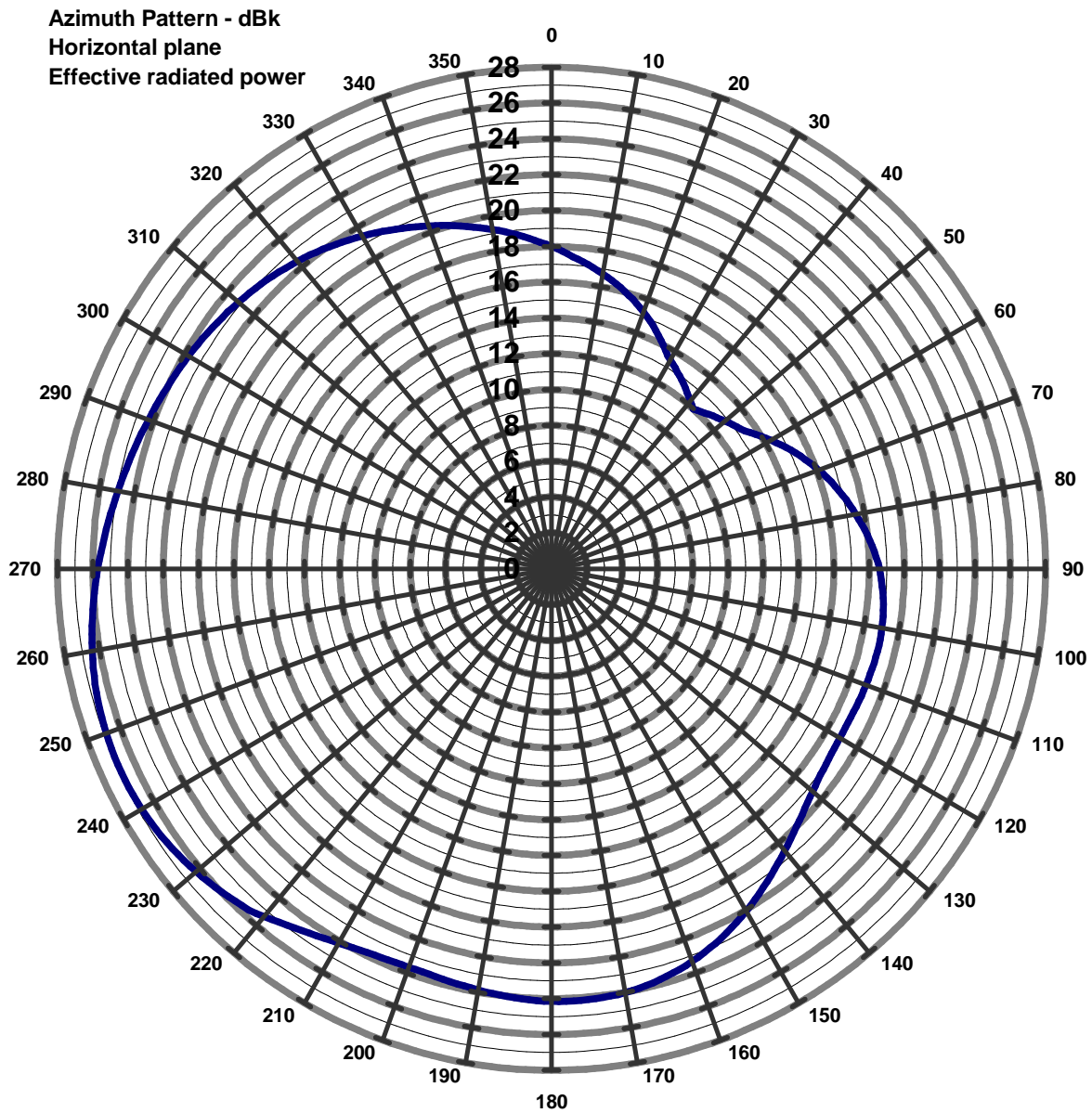
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HORIZONTAL PLANE AZIMUTH PATTERN (dBk): Dielectric TFU-24ETT/VP-R 4C124

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Maximum Horizontal Plane Effective Radiated Power (ERP):	261.07 kW
Maximum Horizontal Plane Effective Radiated Power (ERP):	24.2 dBk

Horizontal plane pattern with mechanical and electrical beam tilt



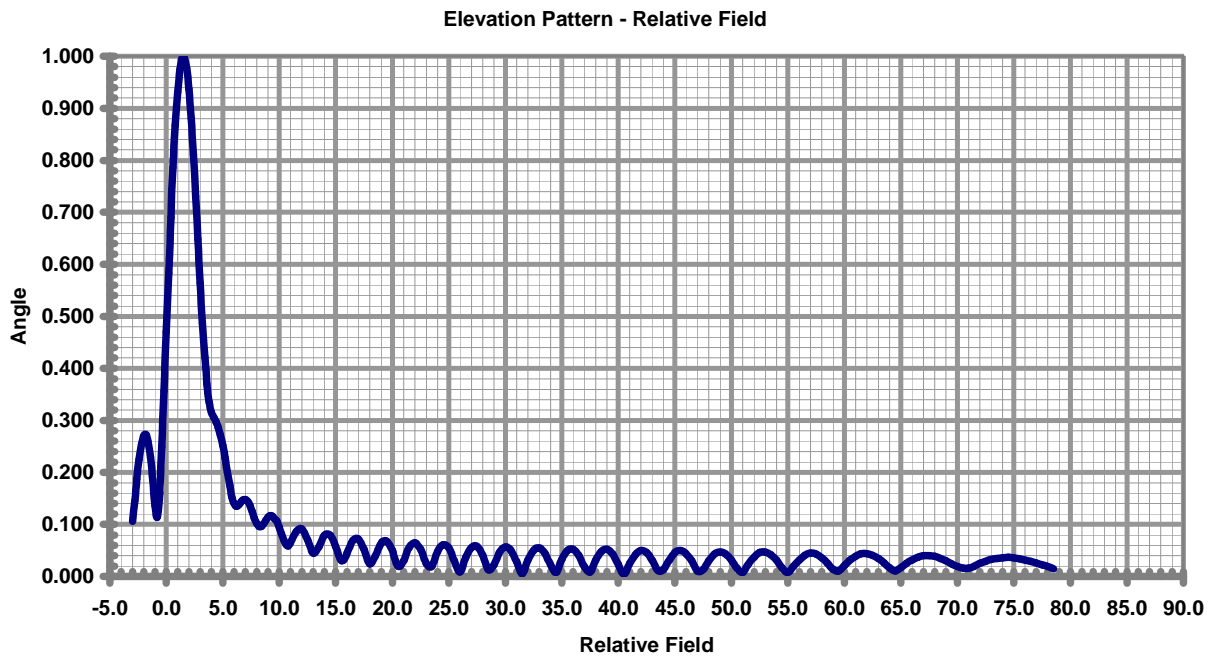
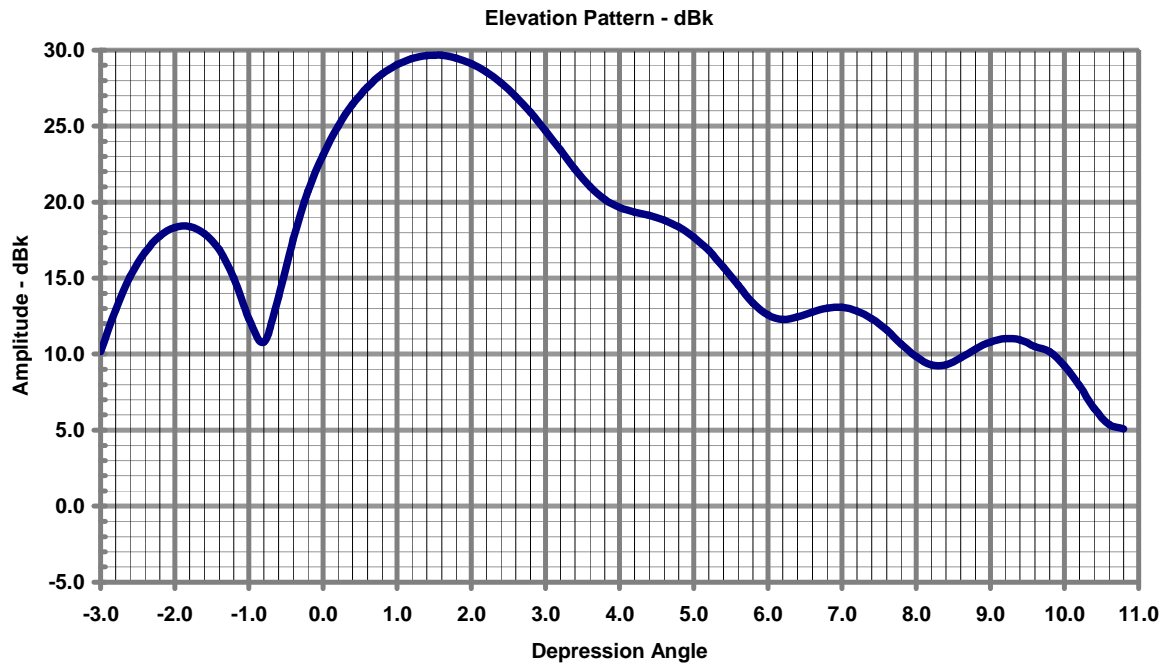
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ELEVATION PATTERN (Relative Field) : Dielectric TFU-24ETT/VP-R 4C124

Electrical Beam Tilt: 1.50°	Mechanical beam tilt : 0.7° at 42° true
Calculated Maximum Elevation Gain:	22.50 13.52 dBd
RMS Gain at Horizontal	5.00 6.99 dBd
Maximum Effective Radiated Power (ERP):	925 kW 29.66 dBk



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ELEVATION PATTERN (dBk) : Dielectric TFU-24ETT/VP-R 4C124)

Electrical Beam Tilt: 1.50°

Mechanical beam tilt : 0.7° at 42° true

Calculated Maximum Elevation Gain:

22.50

13.52 dBd

RMS Gain at Horizontal

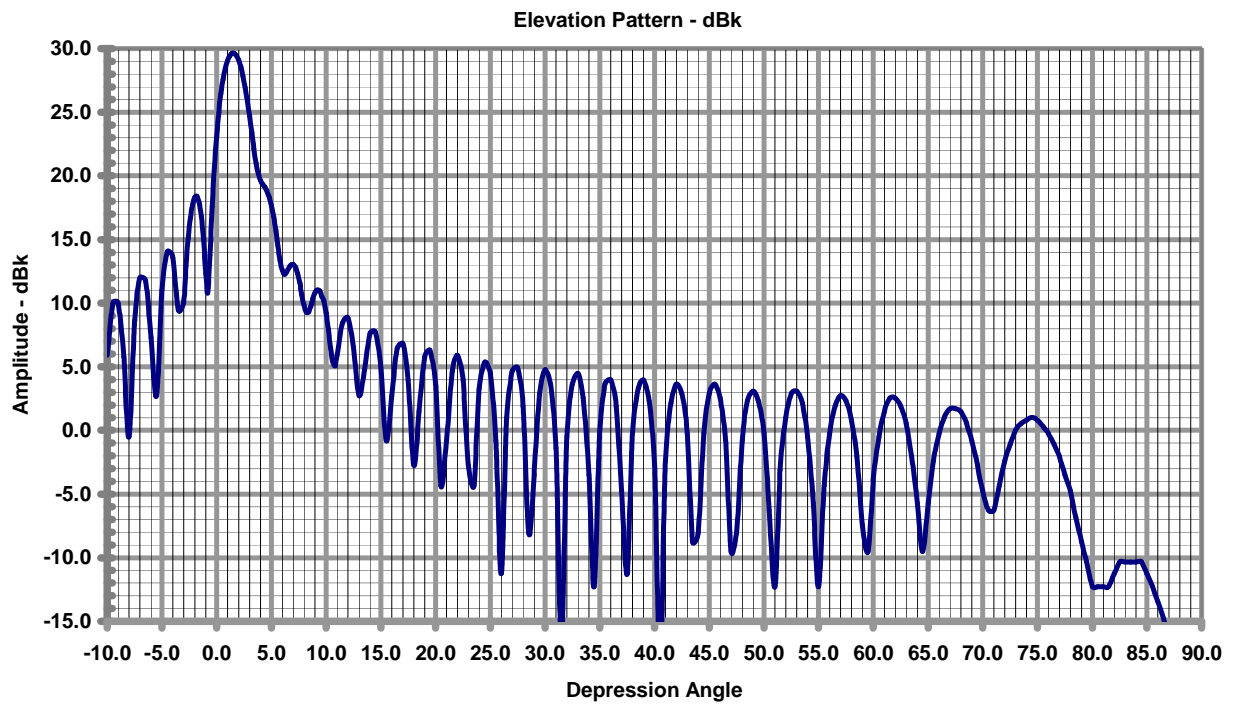
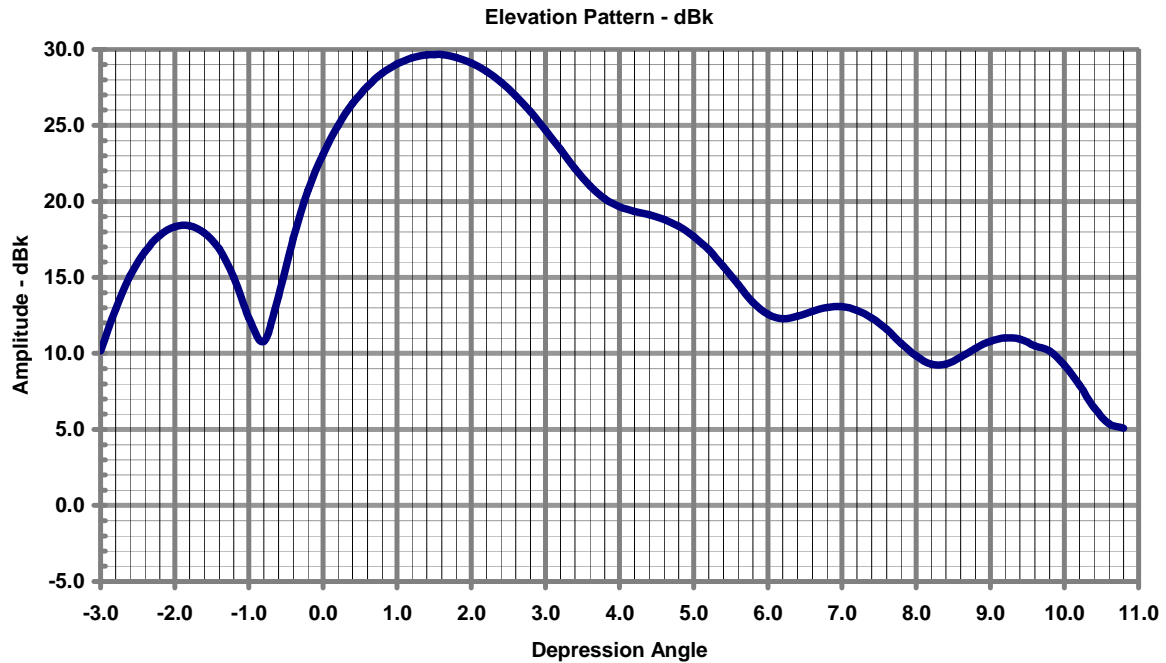
5.00

6.99 dBd

Maximum Effective Radiated Power (ERP):

925 kW

29.66 dBk



Prepared by Doug Lung



Proposal Number **C-04149** **EXHIBIT 44**
Date **17-May-10**
Call Letters **WKAQ** Channel **28**
Location **San Juan, Puerto Rico**
Customer
Antenna Type **TFU-24ETT/VP-R 4C124**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **24E225015-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.065	2.4	0.811	10.6	0.061	30.5	0.050	51.0	0.008	71.5	0.020
-9.5	0.104	2.6	0.731	10.8	0.059	31.0	0.028	51.5	0.023	72.0	0.025
-9.0	0.104	2.8	0.648	11.0	0.065	31.5	0.005	52.0	0.037	72.5	0.029
-8.5	0.064	3.0	0.564	11.5	0.087	32.0	0.031	52.5	0.046	73.0	0.033
-8.0	0.031	3.2	0.487	12.0	0.091	32.5	0.050	53.0	0.047	73.5	0.035
-7.5	0.089	3.4	0.421	12.5	0.070	33.0	0.055	53.5	0.042	74.0	0.036
-7.0	0.131	3.6	0.370	13.0	0.045	33.5	0.044	54.0	0.031	74.5	0.037
-6.5	0.127	3.8	0.336	13.5	0.057	34.0	0.022	54.5	0.017	75.0	0.036
-6.0	0.076	4.0	0.316	14.0	0.079	34.5	0.008	55.0	0.008	75.5	0.034
-5.5	0.045	4.2	0.305	14.5	0.080	35.0	0.033	55.5	0.020	76.0	0.032
-5.0	0.117	4.4	0.297	15.0	0.058	35.5	0.050	56.0	0.032	76.5	0.029
-4.5	0.166	4.6	0.287	15.5	0.030	36.0	0.052	56.5	0.041	77.0	0.026
-4.0	0.157	4.8	0.272	16.0	0.045	36.5	0.041	57.0	0.045	77.5	0.022
-3.5	0.098	5.0	0.252	16.5	0.069	37.0	0.019	57.5	0.043	78.0	0.019
-3.0	0.106	5.2	0.228	17.0	0.072	37.5	0.009	58.0	0.036	78.5	0.015
-2.8	0.145	5.4	0.201	17.5	0.052	38.0	0.032	58.5	0.026	79.0	0.012
-2.6	0.187	5.6	0.175	18.0	0.024	38.5	0.048	59.0	0.014	79.5	0.010
-2.4	0.225	5.8	0.153	18.5	0.039	39.0	0.052	59.5	0.011	80.0	0.008
-2.2	0.254	6.0	0.140	19.0	0.064	39.5	0.043	60.0	0.021	80.5	0.008
-2.0	0.271	6.2	0.135	19.5	0.068	40.0	0.024	60.5	0.031	81.0	0.008
-1.8	0.273	6.4	0.138	20.0	0.050	40.5	0.004	61.0	0.039	81.5	0.008
-1.6	0.259	6.6	0.143	20.5	0.020	41.0	0.025	61.5	0.044	82.0	0.009
-1.4	0.229	6.8	0.147	21.0	0.030	41.5	0.042	62.0	0.044	82.5	0.010
-1.2	0.185	7.0	0.148	21.5	0.056	42.0	0.050	62.5	0.041	83.0	0.010
-1.0	0.136	7.2	0.144	22.0	0.065	42.5	0.046	63.0	0.035	83.5	0.010
-0.8	0.114	7.4	0.136	22.5	0.052	43.0	0.032	63.5	0.026	84.0	0.010
-0.6	0.160	7.6	0.125	23.0	0.024	43.5	0.012	64.0	0.017	84.5	0.010
-0.4	0.249	7.8	0.112	23.5	0.020	44.0	0.013	64.5	0.011	85.0	0.009
-0.2	0.357	8.0	0.102	24.0	0.048	44.5	0.032	65.0	0.017	85.5	0.008
0.0	0.470	8.2	0.096	24.5	0.061	45.0	0.046	65.5	0.025	86.0	0.007
0.2	0.583	8.4	0.096	25.0	0.055	45.5	0.050	66.0	0.032	86.5	0.006
0.4	0.690	8.6	0.101	25.5	0.030	46.0	0.044	66.5	0.037	87.0	0.005
0.6	0.786	8.8	0.108	26.0	0.009	46.5	0.030	67.0	0.040	87.5	0.004
0.8	0.867	9.0	0.114	26.5	0.037	47.0	0.011	67.5	0.040	88.0	0.003
1.0	0.931	9.2	0.117	27.0	0.056	47.5	0.013	68.0	0.039	88.5	0.002
1.2	0.975	9.4	0.116	27.5	0.058	48.0	0.030	68.5	0.035	89.0	0.001
1.4	0.997	9.6	0.110	28.0	0.041	48.5	0.043	69.0	0.030	89.5	0.000
1.6	0.998	9.8	0.106	28.5	0.013	49.0	0.047	69.5	0.024	90.0	0.000
1.8	0.977	10.0	0.095	29.0	0.022	49.5	0.043	70.0	0.019		
2.0	0.937	10.2	0.082	29.5	0.046	50.0	0.032	70.5	0.016		
2.2	0.881	10.4	0.069	30.0	0.057	50.5	0.016	71.0	0.016		

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