

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION KUVI-DT  
BAKERSFIELD, CALIFORNIA  
CH 45 120 KW (MAX-DA) 404 M

Technical Statement

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 44 meters above ground level. The maximum DTV ERP is 120 kW (horizontal polarization). A “worst-case” vertical plane relative field value of 0.04 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Figure 1, Sheet 2, attached). The calculated power density at a point 2 meters above ground level is  $0.0036 \text{ mW/cm}^2$ . This is 0.83% of the FCC's recommended limit of  $0.439 \text{ mW/cm}^2$  for channel 45 for an “uncontrolled” environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the transmitting site is restricted by fencing. Furthermore, as this is a multi-user site, a protocol is in effect with the other stations in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing “accepted” RFR protective clothing and/or RFR exposure monitors.

Finally, this technical exhibit only addresses the potential for radio frequency electromagnetic field exposure. All other aspects of the environmental

processing analysis already have been provided to the FCC by the tower owner as part of the tower registration process.

A handwritten signature in black ink, reading "W. Jeffrey Reynolds". The signature is written in a cursive, flowing style.

W. Jeffrey Reynolds

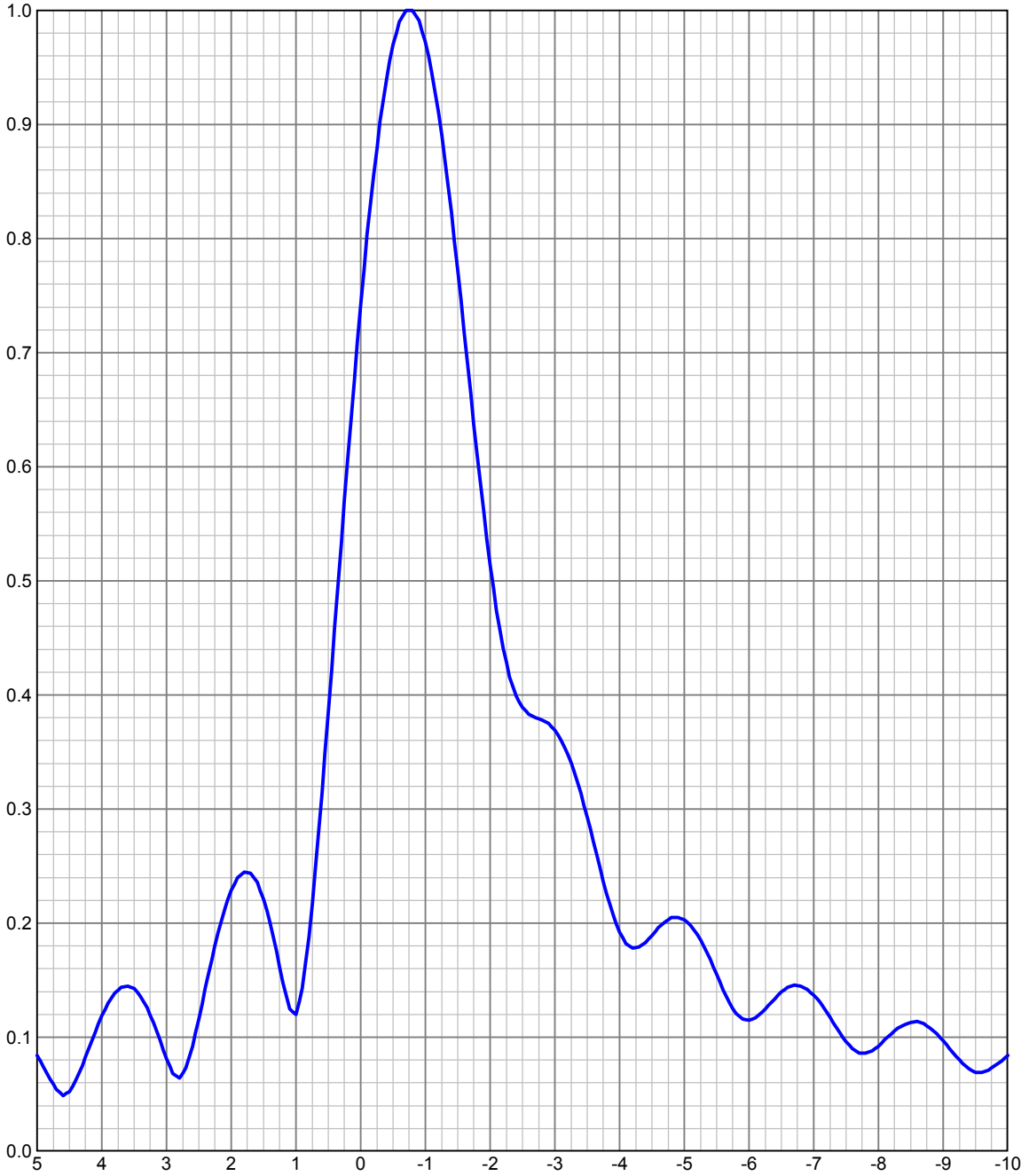
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, FL 34237-6019  
(941) 329-6000  
JEFF@DLR.COM

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ELEVATION PATTERN

Type:	ATW30H3H		Channel:	45
Directivity:	Numeric	dBd	Location:	
Main Lobe:	30.00	14.77	Beam Tilt:	-0.75
Horizontal:	16.52	12.18	Polarization:	Horizontal

Relative Field



Preliminary, subject to final design and review.

## TABULATED DATA FOR ELEVATION PATTERN

Type: **ATW30H3H**  
Polarization **Horizontal**

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.084	-21.51	-6.75	0.146	-16.74	-27.00	0.033	-29.63	-50.50
4.75	0.059	-24.66	-7.00	0.137	-17.27	-27.50	0.034	-29.37	-51.00
4.50	0.052	-25.68	-7.25	0.118	-18.60	-28.00	0.024	-32.40	-51.50
4.25	0.082	-21.67	-7.50	0.096	-20.35	-28.50	0.021	-33.56	-52.00
4.00	0.119	-18.49	-7.75	0.086	-21.31	-29.00	0.031	-30.17	-52.50
3.75	0.142	-16.98	-8.00	0.092	-20.72	-29.50	0.033	-29.63	-53.00
3.50	0.143	-16.89	-8.25	0.106	-19.53	-30.00	0.023	-32.77	-53.50
3.25	0.120	-18.45	-8.50	0.113	-18.94	-30.50	0.020	-33.98	-54.00
3.00	0.081	-21.83	-8.75	0.110	-19.17	-31.00	0.030	-30.46	-54.50
2.75	0.069	-23.29	-9.00	0.097	-20.26	-31.50	0.032	-29.90	-55.00
2.50	0.116	-18.71	-9.25	0.080	-21.94	-32.00	0.023	-32.77	-55.50
2.25	0.180	-14.89	-9.50	0.069	-23.22	-32.50	0.018	-34.89	-56.00
2.00	0.229	-12.80	-9.75	0.073	-22.73	-33.00	0.027	-31.37	-56.50
1.75	0.245	-12.23	-10.00	0.084	-21.51	-33.50	0.031	-30.17	-57.00
1.50	0.221	-13.11	-10.50	0.092	-20.72	-34.00	0.024	-32.40	-57.50
1.25	0.161	-15.84	-11.00	0.069	-23.22	-34.50	0.016	-35.92	-58.00
1.00	0.120	-18.42	-11.50	0.058	-24.73	-35.00	0.023	-32.77	-58.50
0.75	0.218	-13.25	-12.00	0.076	-22.38	-35.50	0.030	-30.46	-59.00
0.50	0.385	-8.29	-12.50	0.073	-22.73	-36.00	0.026	-31.70	-59.50
0.25	0.570	-4.89	-13.00	0.050	-26.02	-36.50	0.017	-35.39	-60.00
0.00	0.742	-2.59	-13.50	0.055	-25.19	-37.00	0.018	-34.89	-60.50
-0.25	0.880	-1.12	-14.00	0.067	-23.48	-37.50	0.027	-31.37	-61.00
-0.50	0.970	-0.26	-14.50	0.055	-25.19	-38.00	0.028	-31.06	-61.50
-0.75	1.000	0.00	-15.00	0.039	-28.18	-38.50	0.020	-33.98	-62.00
-1.00	0.972	-0.25	-15.50	0.052	-25.68	-39.00	0.015	-36.48	-62.50
-1.25	0.891	-1.01	-16.00	0.057	-24.88	-39.50	0.023	-32.77	-63.00
-1.50	0.772	-2.25	-16.50	0.042	-27.54	-40.00	0.029	-30.75	-63.50
-1.75	0.638	-3.91	-17.00	0.036	-28.87	-40.50	0.025	-32.04	-64.00
-2.00	0.514	-5.78	-17.50	0.049	-26.20	-41.00	0.016	-35.92	-64.50
-2.25	0.429	-7.36	-18.00	0.048	-26.38	-41.50	0.017	-35.39	-65.00
-2.50	0.389	-8.20	-18.50	0.032	-29.90	-42.00	0.026	-31.70	-65.50
-2.75	0.379	-8.43	-19.00	0.035	-29.12	-42.50	0.029	-30.75	-66.00
-3.00	0.369	-8.66	-19.50	0.046	-26.74	-43.00	0.023	-32.77	-66.50
-3.25	0.341	-9.36	-20.00	0.040	-27.96	-43.50	0.014	-37.08	-67.00
-3.50	0.293	-10.66	-20.50	0.027	-31.37	-44.00	0.018	-34.89	-67.50
-3.75	0.237	-12.51	-21.00	0.035	-29.12	-44.50	0.026	-31.70	-68.00
-4.00	0.192	-14.33	-21.50	0.042	-27.54	-45.00	0.028	-31.06	-68.50
-4.25	0.179	-14.97	-22.00	0.033	-29.63	-45.50	0.022	-33.15	-69.00
-4.50	0.189	-14.47	-22.50	0.025	-32.04	-46.00	0.013	-37.72	-69.50
-4.75	0.203	-13.85	-23.00	0.035	-29.12	-46.50	0.018	-34.89	-70.00
-5.00	0.203	-13.85	-23.50	0.039	-28.18	-47.00	0.026	-31.70	-70.50
-5.25	0.185	-14.66	-24.00	0.029	-30.75	-47.50	0.029	-30.75	-71.00
-5.50	0.155	-16.19	-24.50	0.023	-32.77	-48.00	0.024	-32.40	-71.50
-5.75	0.126	-18.03	-25.00	0.034	-29.37	-48.50	0.015	-36.48	-72.00
-6.00	0.115	-18.79	-25.50	0.037	-28.64	-49.00	0.015	-36.48	-72.50
-6.25	0.125	-18.06	-26.00	0.026	-31.70	-49.50	0.024	-32.40	-73.00
-6.50	0.140	-17.08	-26.50	0.022	-33.15	-50.00	0.029	-30.75	-73.50

*Preliminary, subject to final design and review.*