

ENGINEERING STATEMENT  
APPLICATION FOR  
DIGITAL FLASH-CUT  
K07YM, BEND, OREGON  
CHANNEL 7 0.3 KW MAX DA ERP 1374 METERS RC/AMSL

JULY 2008

COHEN, DIPPELL AND EVERIST, P.C.  
CONSULTING ENGINEERS  
RADIO AND TELEVISION  
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington            )  
  ) ss  
District of Columbia        )

Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;

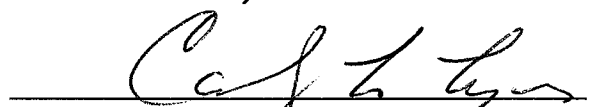
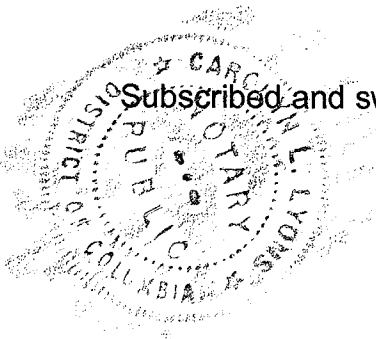
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Donald G. Everist  
District of Columbia  
Professional Engineer  
Registration No. 5714

Subscribed and sworn to before me this 15<sup>th</sup> day of July, 2008.

  
Notary Public

My Commission Expires: 2/28/2013

COHEN, DIPPELL AND EVERIST, P. C.


City of Washington                    )  
  ) ss  
District of Columbia                )

Martin R. Doczkat being duly sworn upon his oath, deposes and states that:

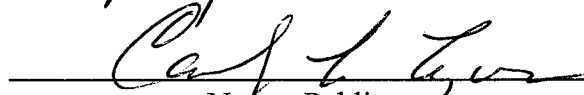
He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That the attached engineering report was prepared by him or under his supervision and direction and

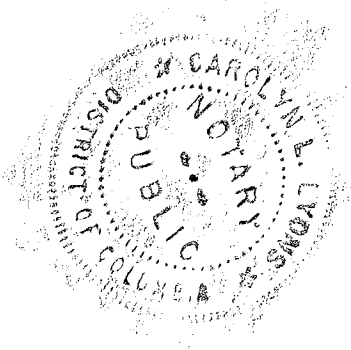
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

  
Martin R. Doczkat

Subscribed and sworn to before me this 15<sup>th</sup> day of July, 2008.

  
Notary Public

My Commission Expires: 2/28/2013



### Introduction

This engineering statement has been prepared on behalf of NVT Portland Licensee, LLC, ("NVT"), licensee of television translator station K07YM, Bend, Oregon. According to CDBS, K07YM operates on channel 7 with an analog maximum effective radiated power ("ERP") of 73 watts and an antenna radiation center above mean sea level ("RCAMSL") of 616 meters. The instant application requests to digitally "flash-cut" its analog facilities to digital on Channel 7 with a digital maximum ERP of 300 watts and an antenna RCAMSL of 1374 meters. The higher height is based on information contained in the Antenna Structure Registration database. Correction of the currently licensed RCAMSL will not be necessary since the analog operation will be replaced by the correctly authorized digital RCAMSL after approval has been received on this application.

### Transmitter Site

The proposed digital "flash-cut" will utilize the existing tower currently used by the licensed operation of K07YM. A tower sketch is provided as Exhibit E-1. The geographic coordinates of the existing site are as follows:

North Latitude: 44° 04' 41"

West Longitude: 121° 19' 57"

NAD-27

### Elevation Data

Elevation of site above mean sea level	1286.3 meters (4220 feet)
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Center of radiation of antenna above ground level	87.7 meters (288 feet)
Center of radiation of antenna above mean sea level	1374 meters (4508 feet)
Overall tower height above mean sea level	1392.9 meters (4570 feet)

The Antenna Structure Registration Number ("ASRN") for the existing tower is 1035880.

#### Equipment Data

Transmitter:	Type-approved
Mask:	Simple
Transmission Line:	Andrew, Type LDF5-50A, 7/8" foam dielectric, 42.7 meters (140 feet) with 85.5% efficiency
Antenna:	Scala, Model CL-713 with maximum gain of 9.0 dBd and 0° electrical beam tilt. See Exhibit E-2 for the antenna pattern data

#### Power Data

Transmitter:	44 W	16.45 dBW
Transmission Line Efficiency/Loss:	85.5%	0.68 dB
Input Into Antenna:	37.5 W	15.77 dBW
Antenna Gain: (Maximum)	8.0	9.0 dBd
ERP:	300 W	24.77 dBW

As indicated above, the transmitter with typical power output of 44 watts (simple mask) will deliver 37.5 watts to the input of the antenna. The antenna, having a maximum power gain of 9 dBd and an electrical beam tilt of 0°, will produce a maximum ERP of 300 watts. The Scala, CL-713 antenna elevation pattern and the associated tabulation are included as Exhibit E-2. A coverage map providing the protected contour of the proposed digital facility relative to the currently licensed analog operation of K07YM has been included as Exhibit E-3 of this report.

#### Other Broadcast Facilities

A brief analysis was completed to determine the presence of stations in the vicinity of the proposed tower on which K07YM is to operate using the June 6, 2008 data contained within the Commission's Consolidated Database System ("CDBS"). Within 0.1 km of the proposed site, there are four authorized FM radio stations. Aside from K07YM, there are two full-service DTV operations, one full-service NTSC television operation, and two low-power analog television or television translator stations authorized to operate within 0.1 km of the licensed K07YM site. There are no AM facilities within 3.22 km of the existing tower. Although no adverse technical affects are expected due to the proposed changes, the licensee will take measures to resolve any problems proven to be related to the changes proposed in this application.

#### Interference Analysis

A study of predicted interference caused by the proposed channel 7, K07YM low-power digital "flash-cut" operation has been performed using the Longley-Rice program for which the source data has been posted by the Commission on its website at

[http://www.fcc.gov/oet/dtv/dtv\\_apps.html](http://www.fcc.gov/oet/dtv/dtv_apps.html). The FCC's FORTRAN-77 code was modified only to the extent necessary (primarily input/output handling) for the program to run on a Microsoft Windows XP/Intel platform. Comparison of service/interference areas and population indicates this model closely matches the FCC's digital low-power TV/translator evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 1 sq. km. Using 3-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 1990 census centroids, all studies are based upon data in the current CDBS database. A Longley-Rice study was performed with the proposed channel 7, K07YM low-power digital facilities and all potentially affected stations listed in the FCC database as of May 30, 2008. The results of the study are included as Exhibit E-4.

The proposed operation based upon the current OET Bulletin No. 65, Edition No. 97-01, dated August 1997 and Supplement A meets the provisions of the FCC radio frequency field ("RFF") guidelines, and thus, complies with Section 1.1307 of the FCC Rules. Provisions will be made to reduce power or to terminate the transmitter emissions, as appropriate, when it is necessary for authorized personnel to be on the tower.

#### FCC Rule Section 1.1307

The following equations from OET Bulletin No. 65 have been used to calculate the predicted radiofrequency fields at 2 meters above ground at the base of the tower:

##### **Digital Television Broadcast Stations**

$$S = [(33.4)(F^2)(ERP^2)]/R^2$$

$$S = \text{Power Density in Microwatts/sq. cm } (\mu\text{W}/\text{cm}^2)$$

F = Relative Field Factor in the downward direction of interest ( $-60^{\circ}$  to  $-90^{\circ}$  elevation)

ERP<sub>V</sub> = Total Peak Visual ERP in Watts

ERP<sub>A</sub> = Total Aural ERP in Watts

ERP = Power in Watts

R = Distance from 2 meters above ground to center of radiation in meters

#### K07YM, Bend, Oregon

##### Proposed Operation

The proposed 15 kW directional operation will utilize a Scala, Type CL-713 antenna (or equivalent) described above with a center of radiation above ground of 87.7 meters. The antenna will be top-mounted on an existing tower with an overall height of 106.6 meters above ground. Assuming a maximum downward relative field value ("RFV") of 0.2, the proposed digital operation of K07YM will create a radio frequency field ("RFF") level of  $2.7 \mu\text{W}/\text{cm}^2$  at the base of the tower. This level is less than 1.4% of the Maximum Permissible Exposure ("MPE") level for the general population and uncontrolled environment. Exhibit E-5 is a summary of the predicted RFF in the vicinity of K07YM tower based on assumed RFVs.

Therefore, the total RFF percentage at two meters above the ground in the vicinity of the WILM-LD proposed site will be less than 82.6% for an uncontrolled environment and 16.5% for a controlled environment.

Authorized personnel and rigging contractors will be alerted to the potential zone of high radio frequency field levels on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on or near the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.



Environmental Assessment

An environmental assessment (“EA”) is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the applicant indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities will be located on a tower which was built prior to the adoption of WT Docket No. 03-128 and will not affect any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

ABOVE MEAN SEA LEVEL

ABOVE GROUND

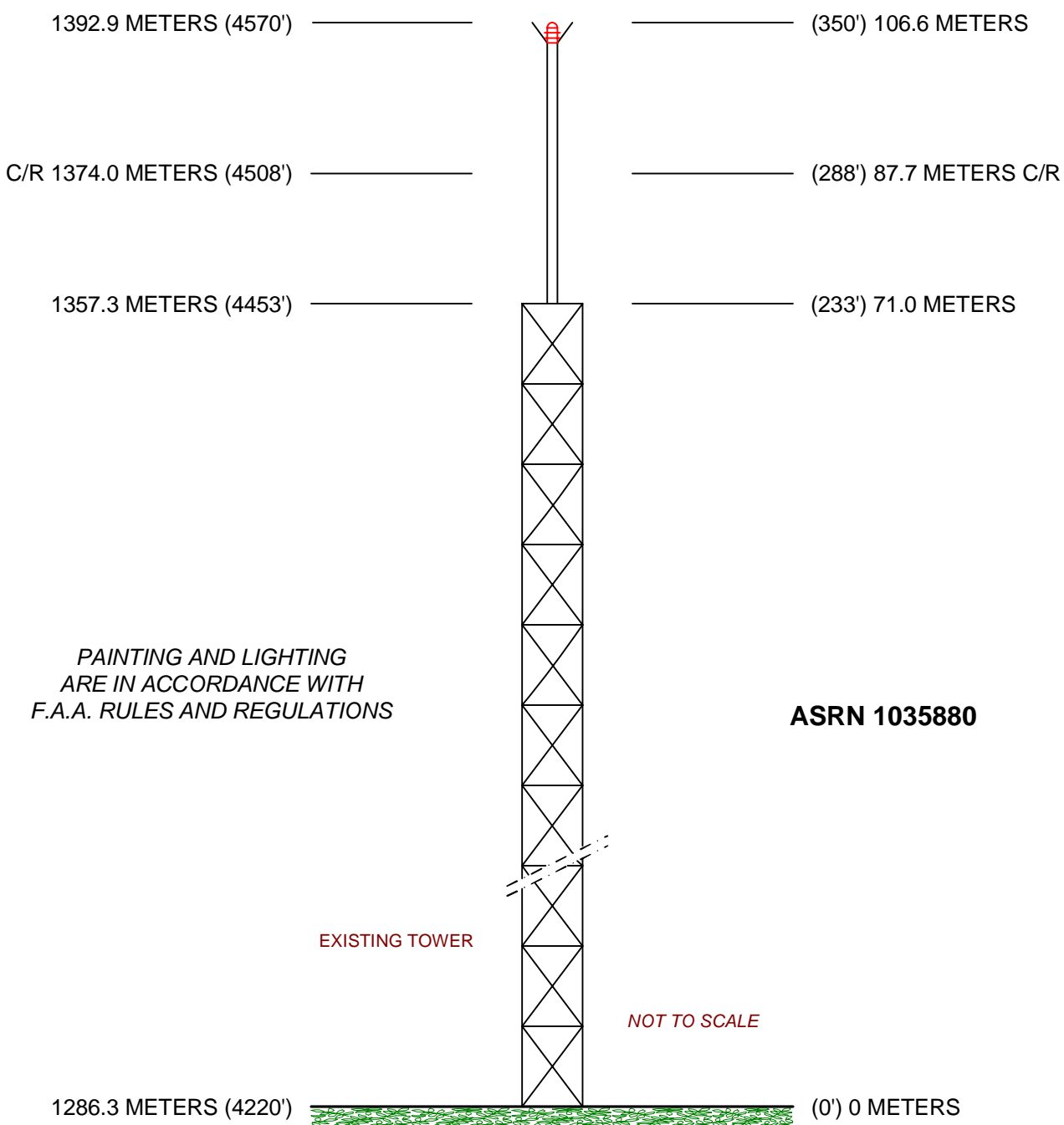


EXHIBIT E-1  
VERTICAL SKETCH  
FOR THE PROPOSED OPERATION OF  
**K07YM, BEND, OREGON**

JULY 2008

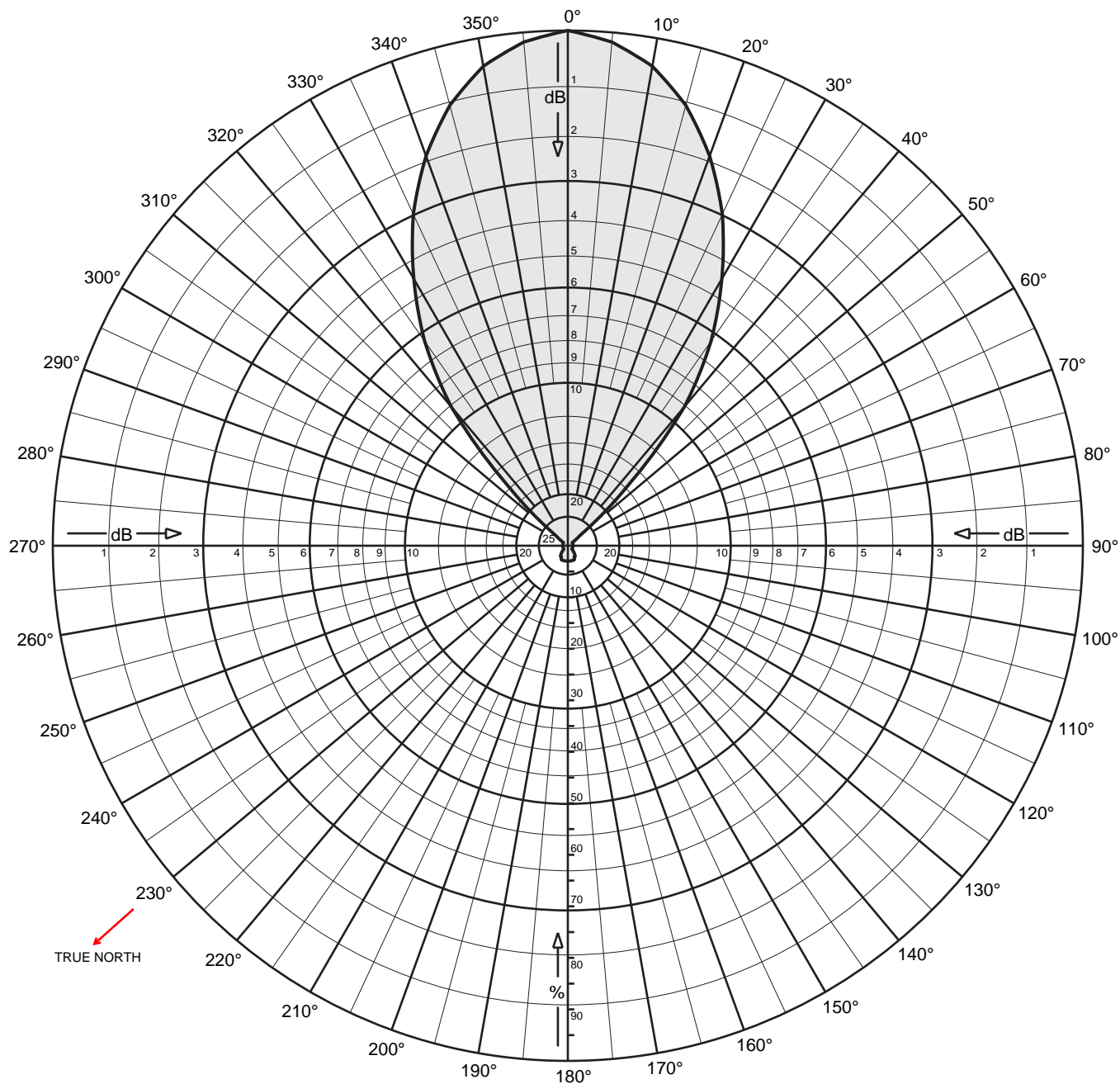
COHEN, DIPPELL AND EVERIST, P.C. Consulting Engineers Washington, D.C.

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

K07YM, BEND, OREGON



CL-713 Log-periodic  
 Ch-7-13  
 9.0 dBd (11.15 dBi)  
 Horizontal polarization  
 Horizontal radiation pattern



CL-713 Log-periodic

Ch-7-13

9.0 dBd (11.15 dBi )

Horizontal polarization

Horizontal radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	9.00	7.94	45	0.165	-15.65	-6.65	0.22
1	0.996	-0.03	8.97	7.89	46	0.138	-17.20	-8.20	0.15
2	0.993	-0.07	8.93	7.82	47	0.111	-19.09	-10.09	0.10
3	0.989	-0.10	8.90	7.77	48	0.084	-21.51	-12.51	0.06
4	0.985	-0.13	8.87	7.71	49	0.057	-24.88	-15.88	0.03
5	0.982	-0.16	8.84	7.65	50	0.030	-30.46	-21.46	0.01
6	0.974	-0.23	8.77	7.54	51	0.026	-31.70	-22.70	0.01
7	0.967	-0.29	8.71	7.43	52	0.022	-33.15	-24.15	0.00
8	0.960	-0.36	8.64	7.31	53	0.018	-34.89	-25.89	0.00
9	0.952	-0.42	8.58	7.21	54	0.014	-37.08	-28.08	0.00
10	0.945	-0.49	8.51	7.09	55	0.010	-40.00	-31.00	0.00
11	0.933	-0.60	8.40	6.91	56	0.010	-40.00	-31.00	0.00
12	0.921	-0.71	8.29	6.74	57	0.010	-40.00	-31.00	0.00
13	0.909	-0.83	8.17	6.56	58	0.010	-40.00	-31.00	0.00
14	0.897	-0.94	8.06	6.39	59	0.010	-40.00	-31.00	0.00
15	0.885	-1.06	7.94	6.22	60	0.010	-40.00	-31.00	0.00
16	0.869	-1.22	7.78	6.00	61	0.010	-40.00	-31.00	0.00
17	0.853	-1.38	7.62	5.78	62	0.010	-40.00	-31.00	0.00
18	0.837	-1.55	7.45	5.56	63	0.010	-40.00	-31.00	0.00
19	0.821	-1.71	7.29	5.35	64	0.010	-40.00	-31.00	0.00
20	0.805	-1.88	7.12	5.15	65	0.010	-40.00	-31.00	0.00
21	0.786	-2.09	6.91	4.91	66	0.010	-40.00	-31.00	0.00
22	0.767	-2.30	6.70	4.67	67	0.010	-40.00	-31.00	0.00
23	0.748	-2.52	6.48	4.44	68	0.010	-40.00	-31.00	0.00
24	0.729	-2.75	6.25	4.22	69	0.010	-40.00	-31.00	0.00
25	0.710	-2.97	6.03	4.00	70	0.010	-40.00	-31.00	0.00
26	0.688	-3.25	5.75	3.75	71	0.010	-40.00	-31.00	0.00
27	0.665	-3.54	5.46	3.51	72	0.010	-40.00	-31.00	0.00
28	0.643	-3.84	5.16	3.28	73	0.010	-40.00	-31.00	0.00
29	0.620	-4.15	4.85	3.06	74	0.010	-40.00	-31.00	0.00
30	0.598	-4.47	4.53	2.84	75	0.010	-40.00	-31.00	0.00
31	0.576	-4.80	4.20	2.63	76	0.010	-40.00	-31.00	0.00
32	0.553	-5.15	3.85	2.43	77	0.010	-40.00	-31.00	0.00
33	0.530	-5.51	3.49	2.23	78	0.010	-40.00	-31.00	0.00
34	0.508	-5.89	3.11	2.05	79	0.010	-40.00	-31.00	0.00
35	0.485	-6.29	2.71	1.87	80	0.010	-40.00	-31.00	0.00
36	0.458	-6.77	2.23	1.67	81	0.010	-40.00	-31.00	0.00
37	0.432	-7.29	1.71	1.48	82	0.010	-40.00	-31.00	0.00
38	0.405	-7.84	1.16	1.31	83	0.010	-40.00	-31.00	0.00
39	0.379	-8.43	0.57	1.14	84	0.010	-40.00	-31.00	0.00
40	0.352	-9.06	-0.06	0.99	85	0.010	-40.00	-31.00	0.00
41	0.315	-10.03	-1.03	0.79	86	0.010	-40.00	-31.00	0.00
42	0.278	-11.13	-2.13	0.61	87	0.010	-40.00	-31.00	0.00
43	0.240	-12.40	-3.40	0.46	88	0.010	-40.00	-31.00	0.00
44	0.203	-13.87	-4.87	0.33	89	0.010	-40.00	-31.00	0.00



CL-713 Log-periodic

Ch-7-13

9.0 dBd (11.15 dBi )

Horizontal polarization

Horizontal radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
90	0.010	-40.00	-31.00	0.00	135	0.015	-36.48	-27.48	0.00
91	0.010	-40.00	-31.00	0.00	136	0.016	-35.92	-26.92	0.00
92	0.010	-40.00	-31.00	0.00	137	0.017	-35.39	-26.39	0.00
93	0.010	-40.00	-31.00	0.00	138	0.018	-34.89	-25.89	0.00
94	0.010	-40.00	-31.00	0.00	139	0.019	-34.42	-25.42	0.00
95	0.010	-40.00	-31.00	0.00	140	0.020	-33.98	-24.98	0.00
96	0.010	-40.00	-31.00	0.00	141	0.021	-33.56	-24.56	0.00
97	0.010	-40.00	-31.00	0.00	142	0.022	-33.15	-24.15	0.00
98	0.010	-40.00	-31.00	0.00	143	0.023	-32.77	-23.77	0.00
99	0.010	-40.00	-31.00	0.00	144	0.024	-32.40	-23.40	0.00
100	0.010	-40.00	-31.00	0.00	145	0.025	-32.04	-23.04	0.00
101	0.010	-40.00	-31.00	0.00	146	0.025	-32.04	-23.04	0.00
102	0.010	-40.00	-31.00	0.00	147	0.025	-32.04	-23.04	0.00
103	0.010	-40.00	-31.00	0.00	148	0.025	-32.04	-23.04	0.00
104	0.010	-40.00	-31.00	0.00	149	0.025	-32.04	-23.04	0.00
105	0.010	-40.00	-31.00	0.00	150	0.025	-32.04	-23.04	0.00
106	0.010	-40.00	-31.00	0.00	151	0.026	-31.70	-22.70	0.01
107	0.010	-40.00	-31.00	0.00	152	0.027	-31.37	-22.37	0.01
108	0.010	-40.00	-31.00	0.00	153	0.028	-31.06	-22.06	0.01
109	0.010	-40.00	-31.00	0.00	154	0.029	-30.75	-21.75	0.01
110	0.010	-40.00	-31.00	0.00	155	0.030	-30.46	-21.46	0.01
111	0.010	-40.00	-31.00	0.00	156	0.030	-30.46	-21.46	0.01
112	0.010	-40.00	-31.00	0.00	157	0.030	-30.46	-21.46	0.01
113	0.010	-40.00	-31.00	0.00	158	0.030	-30.46	-21.46	0.01
114	0.010	-40.00	-31.00	0.00	159	0.030	-30.46	-21.46	0.01
115	0.010	-40.00	-31.00	0.00	160	0.030	-30.46	-21.46	0.01
116	0.010	-40.00	-31.00	0.00	161	0.030	-30.46	-21.46	0.01
117	0.010	-40.00	-31.00	0.00	162	0.030	-30.46	-21.46	0.01
118	0.010	-40.00	-31.00	0.00	163	0.030	-30.46	-21.46	0.01
119	0.010	-40.00	-31.00	0.00	164	0.030	-30.46	-21.46	0.01
120	0.010	-40.00	-31.00	0.00	165	0.030	-30.46	-21.46	0.01
121	0.010	-40.00	-31.00	0.00	166	0.030	-30.46	-21.46	0.01
122	0.010	-40.00	-31.00	0.00	167	0.030	-30.46	-21.46	0.01
123	0.010	-40.00	-31.00	0.00	168	0.030	-30.46	-21.46	0.01
124	0.010	-40.00	-31.00	0.00	169	0.030	-30.46	-21.46	0.01
125	0.010	-40.00	-31.00	0.00	170	0.030	-30.46	-21.46	0.01
126	0.010	-40.00	-31.00	0.00	171	0.030	-30.46	-21.46	0.01
127	0.010	-40.00	-31.00	0.00	172	0.030	-30.46	-21.46	0.01
128	0.010	-40.00	-31.00	0.00	173	0.030	-30.46	-21.46	0.01
129	0.010	-40.00	-31.00	0.00	174	0.030	-30.46	-21.46	0.01
130	0.010	-40.00	-31.00	0.00	175	0.030	-30.46	-21.46	0.01
131	0.011	-39.17	-30.17	0.00	176	0.030	-30.46	-21.46	0.01
132	0.012	-38.42	-29.42	0.00	177	0.030	-30.46	-21.46	0.01
133	0.013	-37.72	-28.72	0.00	178	0.030	-30.46	-21.46	0.01
134	0.014	-37.08	-28.08	0.00	179	0.030	-30.46	-21.46	0.01



CL-713 Log-periodic

Ch-7-13

9.0 dBd (11.15 dBi )

Horizontal polarization

Horizontal radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
180	0.030	-30.46	-21.46	0.01	225	0.015	-36.48	-27.48	0.00
181	0.030	-30.46	-21.46	0.01	226	0.014	-37.08	-28.08	0.00
182	0.030	-30.46	-21.46	0.01	227	0.013	-37.72	-28.72	0.00
183	0.030	-30.46	-21.46	0.01	228	0.012	-38.42	-29.42	0.00
184	0.030	-30.46	-21.46	0.01	229	0.011	-39.17	-30.17	0.00
185	0.030	-30.46	-21.46	0.01	230	0.010	-40.00	-31.00	0.00
186	0.030	-30.46	-21.46	0.01	231	0.010	-40.00	-31.00	0.00
187	0.030	-30.46	-21.46	0.01	232	0.010	-40.00	-31.00	0.00
188	0.030	-30.46	-21.46	0.01	233	0.010	-40.00	-31.00	0.00
189	0.030	-30.46	-21.46	0.01	234	0.010	-40.00	-31.00	0.00
190	0.030	-30.46	-21.46	0.01	235	0.010	-40.00	-31.00	0.00
191	0.030	-30.46	-21.46	0.01	236	0.010	-40.00	-31.00	0.00
192	0.030	-30.46	-21.46	0.01	237	0.010	-40.00	-31.00	0.00
193	0.030	-30.46	-21.46	0.01	238	0.010	-40.00	-31.00	0.00
194	0.030	-30.46	-21.46	0.01	239	0.010	-40.00	-31.00	0.00
195	0.030	-30.46	-21.46	0.01	240	0.010	-40.00	-31.00	0.00
196	0.030	-30.46	-21.46	0.01	241	0.010	-40.00	-31.00	0.00
197	0.030	-30.46	-21.46	0.01	242	0.010	-40.00	-31.00	0.00
198	0.030	-30.46	-21.46	0.01	243	0.010	-40.00	-31.00	0.00
199	0.030	-30.46	-21.46	0.01	244	0.010	-40.00	-31.00	0.00
200	0.030	-30.46	-21.46	0.01	245	0.010	-40.00	-31.00	0.00
201	0.030	-30.46	-21.46	0.01	246	0.010	-40.00	-31.00	0.00
202	0.030	-30.46	-21.46	0.01	247	0.010	-40.00	-31.00	0.00
203	0.030	-30.46	-21.46	0.01	248	0.010	-40.00	-31.00	0.00
204	0.030	-30.46	-21.46	0.01	249	0.010	-40.00	-31.00	0.00
205	0.030	-30.46	-21.46	0.01	250	0.010	-40.00	-31.00	0.00
206	0.029	-30.75	-21.75	0.01	251	0.010	-40.00	-31.00	0.00
207	0.028	-31.06	-22.06	0.01	252	0.010	-40.00	-31.00	0.00
208	0.027	-31.37	-22.37	0.01	253	0.010	-40.00	-31.00	0.00
209	0.026	-31.70	-22.70	0.01	254	0.010	-40.00	-31.00	0.00
210	0.025	-32.04	-23.04	0.00	255	0.010	-40.00	-31.00	0.00
211	0.025	-32.04	-23.04	0.00	256	0.010	-40.00	-31.00	0.00
212	0.025	-32.04	-23.04	0.00	257	0.010	-40.00	-31.00	0.00
213	0.025	-32.04	-23.04	0.00	258	0.010	-40.00	-31.00	0.00
214	0.025	-32.04	-23.04	0.00	259	0.010	-40.00	-31.00	0.00
215	0.025	-32.04	-23.04	0.00	260	0.010	-40.00	-31.00	0.00
216	0.024	-32.40	-23.40	0.00	261	0.010	-40.00	-31.00	0.00
217	0.023	-32.77	-23.77	0.00	262	0.010	-40.00	-31.00	0.00
218	0.022	-33.15	-24.15	0.00	263	0.010	-40.00	-31.00	0.00
219	0.021	-33.56	-24.56	0.00	264	0.010	-40.00	-31.00	0.00
220	0.020	-33.98	-24.98	0.00	265	0.010	-40.00	-31.00	0.00
221	0.019	-34.42	-25.42	0.00	266	0.010	-40.00	-31.00	0.00
222	0.018	-34.89	-25.89	0.00	267	0.010	-40.00	-31.00	0.00
223	0.017	-35.39	-26.39	0.00	268	0.010	-40.00	-31.00	0.00
224	0.016	-35.92	-26.92	0.00	269	0.010	-40.00	-31.00	0.00



CL-713 Log-periodic

Ch-7-13

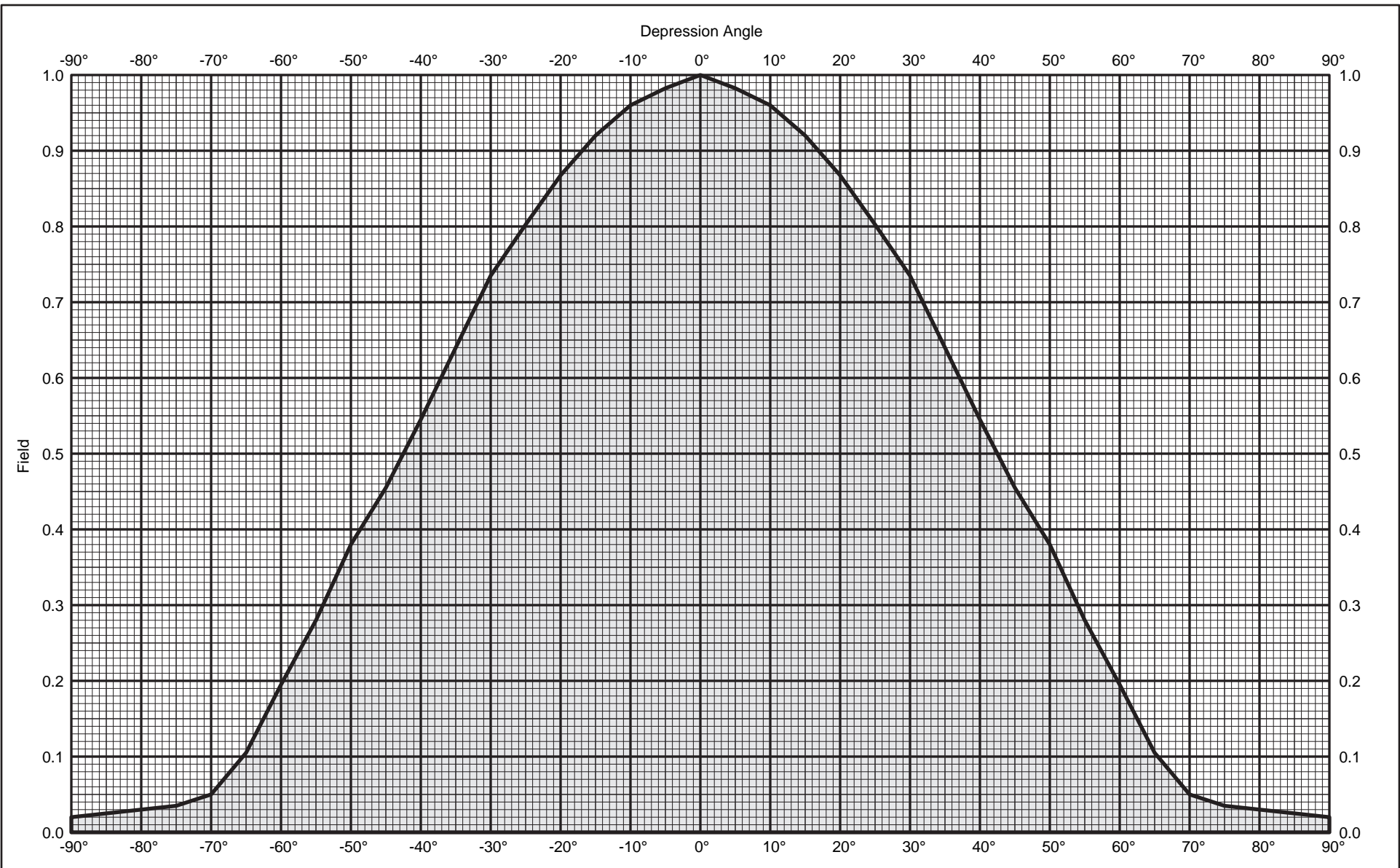
9.0 dBd (11.15 dBi )

Horizontal polarization

Horizontal radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.010	-40.00	-31.00	0.00	315	0.165	-15.65	-6.65	0.22
271	0.010	-40.00	-31.00	0.00	316	0.203	-13.87	-4.87	0.33
272	0.010	-40.00	-31.00	0.00	317	0.240	-12.40	-3.40	0.46
273	0.010	-40.00	-31.00	0.00	318	0.278	-11.13	-2.13	0.61
274	0.010	-40.00	-31.00	0.00	319	0.315	-10.03	-1.03	0.79
275	0.010	-40.00	-31.00	0.00	320	0.352	-9.06	-0.06	0.99
276	0.010	-40.00	-31.00	0.00	321	0.379	-8.43	0.57	1.14
277	0.010	-40.00	-31.00	0.00	322	0.405	-7.84	1.16	1.31
278	0.010	-40.00	-31.00	0.00	323	0.432	-7.29	1.71	1.48
279	0.010	-40.00	-31.00	0.00	324	0.458	-6.77	2.23	1.67
280	0.010	-40.00	-31.00	0.00	325	0.485	-6.29	2.71	1.87
281	0.010	-40.00	-31.00	0.00	326	0.508	-5.89	3.11	2.05
282	0.010	-40.00	-31.00	0.00	327	0.530	-5.51	3.49	2.23
283	0.010	-40.00	-31.00	0.00	328	0.553	-5.15	3.85	2.43
284	0.010	-40.00	-31.00	0.00	329	0.576	-4.80	4.20	2.63
285	0.010	-40.00	-31.00	0.00	330	0.598	-4.47	4.53	2.84
286	0.010	-40.00	-31.00	0.00	331	0.620	-4.15	4.85	3.06
287	0.010	-40.00	-31.00	0.00	332	0.643	-3.84	5.16	3.28
288	0.010	-40.00	-31.00	0.00	333	0.665	-3.54	5.46	3.51
289	0.010	-40.00	-31.00	0.00	334	0.688	-3.25	5.75	3.75
290	0.010	-40.00	-31.00	0.00	335	0.710	-2.97	6.03	4.00
291	0.010	-40.00	-31.00	0.00	336	0.729	-2.75	6.25	4.22
292	0.010	-40.00	-31.00	0.00	337	0.748	-2.52	6.48	4.44
293	0.010	-40.00	-31.00	0.00	338	0.767	-2.30	6.70	4.67
294	0.010	-40.00	-31.00	0.00	339	0.786	-2.09	6.91	4.91
295	0.010	-40.00	-31.00	0.00	340	0.805	-1.88	7.12	5.15
296	0.010	-40.00	-31.00	0.00	341	0.821	-1.71	7.29	5.35
297	0.010	-40.00	-31.00	0.00	342	0.837	-1.55	7.45	5.56
298	0.010	-40.00	-31.00	0.00	343	0.853	-1.38	7.62	5.78
299	0.010	-40.00	-31.00	0.00	344	0.869	-1.22	7.78	6.00
300	0.010	-40.00	-31.00	0.00	345	0.885	-1.06	7.94	6.22
301	0.010	-40.00	-31.00	0.00	346	0.897	-0.94	8.06	6.39
302	0.010	-40.00	-31.00	0.00	347	0.909	-0.83	8.17	6.56
303	0.010	-40.00	-31.00	0.00	348	0.921	-0.71	8.29	6.74
304	0.010	-40.00	-31.00	0.00	349	0.933	-0.60	8.40	6.91
305	0.010	-40.00	-31.00	0.00	350	0.945	-0.49	8.51	7.09
306	0.014	-37.08	-28.08	0.00	351	0.952	-0.42	8.58	7.21
307	0.018	-34.89	-25.89	0.00	352	0.960	-0.36	8.64	7.31
308	0.022	-33.15	-24.15	0.00	353	0.967	-0.29	8.71	7.43
309	0.026	-31.70	-22.70	0.01	354	0.974	-0.23	8.77	7.54
310	0.030	-30.46	-21.46	0.01	355	0.982	-0.16	8.84	7.65
311	0.057	-24.88	-15.88	0.03	356	0.985	-0.13	8.87	7.71
312	0.084	-21.51	-12.51	0.06	357	0.989	-0.10	8.90	7.77
313	0.111	-19.09	-10.09	0.10	358	0.993	-0.07	8.93	7.82
314	0.138	-17.20	-8.20	0.15	359	0.996	-0.03	8.97	7.89





Vertical radiation pattern



**KATHREIN**  
**SCALA DIVISION**

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Medford, OR 97501 (USA) Fax: (541) 779-3991  
<http://www.kathrein-scala.com>

CL-713 Log-periodic

Ch-7-13

9.0 dBd (11.15 dBi)

Horizontal polarization



CL-713 Log-periodic

Ch-7-13

9.0 dBd (11.15 dBi )

Horizontal polarization

Vertical radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.020	-33.98	-24.98	0.00	-45	0.455	-6.84	2.16	1.64
-89	0.021	-33.56	-24.56	0.00	-44	0.473	-6.50	2.50	1.78
-88	0.022	-33.15	-24.15	0.00	-43	0.491	-6.18	2.82	1.91
-87	0.023	-32.77	-23.77	0.00	-42	0.509	-5.87	3.13	2.06
-86	0.024	-32.40	-23.40	0.00	-41	0.527	-5.56	3.44	2.21
-85	0.025	-32.04	-23.04	0.00	-40	0.545	-5.27	3.73	2.36
-84	0.026	-31.70	-22.70	0.01	-39	0.564	-4.97	4.03	2.53
-83	0.027	-31.37	-22.37	0.01	-38	0.583	-4.69	4.31	2.70
-82	0.028	-31.06	-22.06	0.01	-37	0.602	-4.41	4.59	2.88
-81	0.029	-30.75	-21.75	0.01	-36	0.621	-4.14	4.86	3.06
-80	0.030	-30.46	-21.46	0.01	-35	0.640	-3.88	5.12	3.25
-79	0.031	-30.17	-21.17	0.01	-34	0.659	-3.62	5.38	3.45
-78	0.032	-29.90	-20.90	0.01	-33	0.678	-3.38	5.62	3.65
-77	0.033	-29.63	-20.63	0.01	-32	0.697	-3.14	5.86	3.86
-76	0.034	-29.37	-20.37	0.01	-31	0.716	-2.90	6.10	4.07
-75	0.035	-29.12	-20.12	0.01	-30	0.735	-2.67	6.33	4.29
-74	0.038	-28.40	-19.40	0.01	-29	0.748	-2.52	6.48	4.45
-73	0.041	-27.74	-18.74	0.01	-28	0.762	-2.36	6.64	4.61
-72	0.044	-27.13	-18.13	0.02	-27	0.775	-2.21	6.79	4.78
-71	0.047	-26.56	-17.56	0.02	-26	0.789	-2.06	6.94	4.94
-70	0.050	-26.02	-17.02	0.02	-25	0.803	-1.91	7.09	5.12
-69	0.061	-24.29	-15.29	0.03	-24	0.816	-1.77	7.23	5.28
-68	0.072	-22.85	-13.85	0.04	-23	0.829	-1.63	7.37	5.45
-67	0.083	-21.62	-12.62	0.05	-22	0.841	-1.50	7.50	5.62
-66	0.094	-20.54	-11.54	0.07	-21	0.854	-1.37	7.63	5.80
-65	0.105	-19.58	-10.58	0.09	-20	0.868	-1.23	7.77	5.98
-64	0.123	-18.20	-9.20	0.12	-19	0.878	-1.13	7.87	6.12
-63	0.141	-17.02	-8.02	0.16	-18	0.888	-1.03	7.97	6.27
-62	0.159	-15.97	-6.97	0.20	-17	0.899	-0.92	8.08	6.42
-61	0.177	-15.04	-6.04	0.25	-16	0.910	-0.82	8.18	6.57
-60	0.195	-14.20	-5.20	0.30	-15	0.920	-0.72	8.28	6.72
-59	0.212	-13.47	-4.47	0.36	-14	0.928	-0.65	8.35	6.84
-58	0.229	-12.80	-3.80	0.42	-13	0.936	-0.57	8.43	6.96
-57	0.246	-12.18	-3.18	0.48	-12	0.944	-0.50	8.50	7.08
-56	0.263	-11.60	-2.60	0.55	-11	0.952	-0.43	8.57	7.20
-55	0.280	-11.06	-2.06	0.62	-10	0.960	-0.35	8.65	7.32
-54	0.300	-10.46	-1.46	0.71	-9	0.964	-0.31	8.69	7.39
-53	0.320	-9.90	-0.90	0.81	-8	0.969	-0.27	8.73	7.46
-52	0.340	-9.37	-0.37	0.92	-7	0.974	-0.23	8.77	7.53
-51	0.360	-8.87	0.13	1.03	-6	0.978	-0.19	8.81	7.60
-50	0.380	-8.40	0.60	1.15	-5	0.983	-0.15	8.85	7.67
-49	0.395	-8.07	0.93	1.24	-4	0.986	-0.12	8.88	7.72
-48	0.410	-7.74	1.26	1.34	-3	0.990	-0.09	8.91	7.78
-47	0.425	-7.43	1.57	1.43	-2	0.993	-0.06	8.94	7.83
-46	0.440	-7.13	1.87	1.54	-1	0.997	-0.03	8.97	7.89
					0	1.000	0.00	9.00	7.94



CL-713 Log-periodic

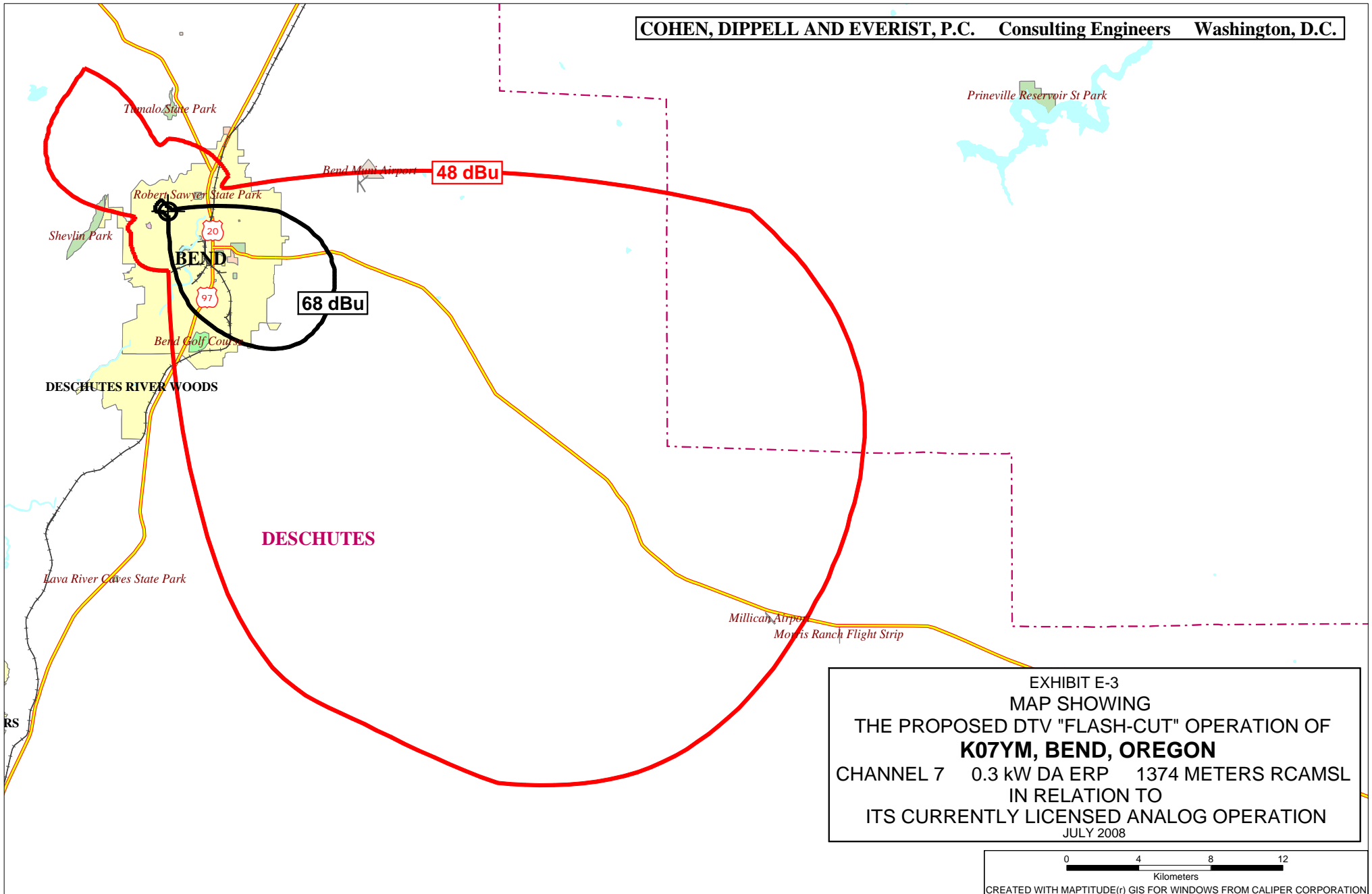
Ch-7-13

9.0 dBd (11.15 dBi )

Horizontal polarization

Vertical radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	9.00	7.94	45	0.455	-6.84	2.16	1.64
1	0.997	-0.03	8.97	7.89	46	0.440	-7.13	1.87	1.54
2	0.993	-0.06	8.94	7.83	47	0.425	-7.43	1.57	1.43
3	0.990	-0.09	8.91	7.78	48	0.410	-7.74	1.26	1.34
4	0.986	-0.12	8.88	7.72	49	0.395	-8.07	0.93	1.24
5	0.983	-0.15	8.85	7.67	50	0.380	-8.40	0.60	1.15
6	0.978	-0.19	8.81	7.60	51	0.360	-8.87	0.13	1.03
7	0.974	-0.23	8.77	7.53	52	0.340	-9.37	-0.37	0.92
8	0.969	-0.27	8.73	7.46	53	0.320	-9.90	-0.90	0.81
9	0.964	-0.31	8.69	7.39	54	0.300	-10.46	-1.46	0.71
10	0.960	-0.35	8.65	7.32	55	0.280	-11.06	-2.06	0.62
11	0.952	-0.43	8.57	7.20	56	0.263	-11.60	-2.60	0.55
12	0.944	-0.50	8.50	7.08	57	0.246	-12.18	-3.18	0.48
13	0.936	-0.57	8.43	6.96	58	0.229	-12.80	-3.80	0.42
14	0.928	-0.65	8.35	6.84	59	0.212	-13.47	-4.47	0.36
15	0.920	-0.72	8.28	6.72	60	0.195	-14.20	-5.20	0.30
16	0.910	-0.82	8.18	6.57	61	0.177	-15.04	-6.04	0.25
17	0.899	-0.92	8.08	6.42	62	0.159	-15.97	-6.97	0.20
18	0.888	-1.03	7.97	6.27	63	0.141	-17.02	-8.02	0.16
19	0.878	-1.13	7.87	6.12	64	0.123	-18.20	-9.20	0.12
20	0.868	-1.23	7.77	5.98	65	0.105	-19.58	-10.58	0.09
21	0.854	-1.37	7.63	5.80	66	0.094	-20.54	-11.54	0.07
22	0.841	-1.50	7.50	5.62	67	0.083	-21.62	-12.62	0.05
23	0.829	-1.63	7.37	5.45	68	0.072	-22.85	-13.85	0.04
24	0.816	-1.77	7.23	5.28	69	0.061	-24.29	-15.29	0.03
25	0.803	-1.91	7.09	5.12	70	0.050	-26.02	-17.02	0.02
26	0.789	-2.06	6.94	4.94	71	0.047	-26.56	-17.56	0.02
27	0.775	-2.21	6.79	4.78	72	0.044	-27.13	-18.13	0.02
28	0.762	-2.36	6.64	4.61	73	0.041	-27.74	-18.74	0.01
29	0.748	-2.52	6.48	4.45	74	0.038	-28.40	-19.40	0.01
30	0.735	-2.67	6.33	4.29	75	0.035	-29.12	-20.12	0.01
31	0.716	-2.90	6.10	4.07	76	0.034	-29.37	-20.37	0.01
32	0.697	-3.14	5.86	3.86	77	0.033	-29.63	-20.63	0.01
33	0.678	-3.38	5.62	3.65	78	0.032	-29.90	-20.90	0.01
34	0.659	-3.62	5.38	3.45	79	0.031	-30.17	-21.17	0.01
35	0.640	-3.88	5.12	3.25	80	0.030	-30.46	-21.46	0.01
36	0.621	-4.14	4.86	3.06	81	0.029	-30.75	-21.75	0.01
37	0.602	-4.41	4.59	2.88	82	0.028	-31.06	-22.06	0.01
38	0.583	-4.69	4.31	2.70	83	0.027	-31.37	-22.37	0.01
39	0.564	-4.97	4.03	2.53	84	0.026	-31.70	-22.70	0.01
40	0.545	-5.27	3.73	2.36	85	0.025	-32.04	-23.04	0.00
41	0.527	-5.56	3.44	2.21	86	0.024	-32.40	-23.40	0.00
42	0.509	-5.87	3.13	2.06	87	0.023	-32.77	-23.77	0.00
43	0.491	-6.18	2.82	1.91	88	0.022	-33.15	-24.15	0.00
44	0.473	-6.50	2.50	1.78	89	0.021	-33.56	-24.56	0.00
					90	0.020	-33.98	-24.98	0.00



COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-4

TABULATION OF  
DIGITAL LOW-POWER LONGLEY-RICE ANALYSIS  
OF THE TENTATIVELY PROPOSED MAXIMIZED OPERATION  
ASSUMING CURRENTLY LICENSED SITE, HEIGHT AND ANTENNA FOR  
K07YM, BEND, OREGON  
CHANNEL 7 0.3 KW DA ERP 1374 METERS RCAMSL  
JULY 2008

<u>Channel</u>	<u>Call</u>	<u>City/State</u>	<u>Dist(km)</u>	<u>Status</u>	<u>FCC File No.</u>	<u>Result</u>
7	K07IX	HAPPY CAMP CA	296.4	LIC	BLTT-3472	no interference
7	K07GJ	HOOPA CA	382.1	LIC	BLTTV-4814	beyond eval. distance
7	KRCR-DT	REDDING CA	401.1	CP	BPCDT-20080409ABQ	no interference
7	KRCR-TV	REDDING CA	401.1	LIC	BLCT-1664	no interference
7	K07JT	BROOKINGS OR	326.4	LIC	BLTTV-20060109ACG	no interference
7	K07PP	CAMAS VALLEY OR	229.5	LIC	BLTTV-19800610IE	no interference
7	K07KT	CANYONVILLE, ETC. OR	204.7	LIC	BLTTV-3954	no interference
7	K07PZ	CAVE JUNCTION, ETC. OR	276.7	LIC	BLTTV-19810313JZ	no interference
7	K07PS	CHEMULT, ETC. OR	91.2	LIC	BLTTV-19800424IC	no interference
7	KOAC-TV	CORVALLIS OR	166.4	LIC	BLET-20020111AAG	no interference
7	KOAC-DT	CORVALLIS OR	166.4	CP	BPEDT-20080215ABJ	no interference
7	K07RQ	JACKSONVILLE OR	232.4	LIC	BLTTV-19830810IA	no interference
7	K07PU	KLAMATH FALLS, ETC. OR	207.5	LIC	BLTTV-19840629IA	no interference
7	K07NR	LAKEVIEW, ETC. OR	223.6	LIC	BLTTV-20040211ABI	no interference
7	K07JP	MYRTLE POINT, ETC. OR	257.6	LIC	BLTTV-3758	no interference
7	K07JS	NORTH BEND OR	237.3	CP	BPTTV-20050803ABZ	no interference
7	K07IA	OAKLAND OR	174.1	LIC	BLTTV-1145	no interference
7	K07PI	PISTOL RIVER OR	320	LIC	BLTTV-19790216IB	no interference
7	K07GI	PROSPECT OR	182.1	LIC	BLTTV-1469	no interference
7	K07KZ	SQUAW VALLEY OR	307.8	LIC	BLTTV-19821118IC	no interference
7	K64BK	THE DALLES OR	182.4	CP	BDISTTV-20061212ABK	no interference
7	K07HS	WILLIAMS OR	265.6	LIC	BLTTV-19800605IC	no interference
7	K07IL	WINSTON OR	198.2	LIC	BLTTV-3153	no interference
7	K54DX	ELLENSBURG/KITTITAS WA	319.9	CP	BDISDTT-20060227AEE	no interference
7	K07WQ	PLAIN WA	414.5	LIC	BLTTV-19960509JQ	beyond eval. distance
7	KIRO-TV	SEATTLE WA	403	LIC	BLCT-2021	beyond eval. distance

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-4

TABULATION OF  
DIGITAL LOW-POWER LONGLEY-RICE ANALYSIS  
OF THE TENTATIVELY PROPOSED MAXIMIZED OPERATION  
ASSUMING CURRENTLY LICENSED SITE, HEIGHT AND ANTENNA FOR  
K07YM, BEND, OREGON  
CHANNEL 7 0.3 KW DA ERP 1374 METERS RCAMSL  
JULY 2008

<u>Channel</u>	<u>Call</u>	<u>City/State</u>	<u>Dist(km)</u>	<u>Status</u>	<u>FCC File No.</u>	<u>Result</u>
8	K08NP	JOHN DAY OR	193.2	LIC	BLTVL-20060721AAK	beyond eval. distance
8	KSYS-DT	MEDFORD OR	217.2	CP MOD	BMPEDT-20080214AHW	no interference
8	KSYS(TV)	MEDFORD OR	217.2	LIC	BLET-19940912LI	no interference
8	KGW-DT	PORTLAND OR	195.4	APP	BPCDT-20080303ALK	no interference
8	KGW(TV)	PORTLAND OR	195.4	LIC	BMLCT-20030902ABJ	no interference
8	K08KN	PRINEVILLE, ETC. OR	31.4	LIC	BLTTV-19910821IF	no interference
8	K08LG	SILVER LAKE, ETC. OR	107.8	LIC	BLTTV-19910906IC	no interference

## COHEN, DIPPELL AND EVERIST, P.C.

## EXHIBIT E-5

SUMMARY OF  
THE PREDICTED RADIOFREQUENCY FIELD LEVEL IN THE VICINITY OF  
K07YM, BEND, OREGON  
CHANNEL 7 0.3 KW MAX DA ERP 1374 METERS RCAMSL  
BASED ON ASSUMED MAXIMUM DOWNWARD RELATIVE FIELD VALUES  
JULY 2008

Call Sign	Service	Status	Channel	Frequency MHz	ERP watts	Assumed	RCAGL-2 meters	RFF μW/cm²	Uncontrolled	Controlled	%	%
						Downward RFV			MPE μW/cm²	MPE μW/cm²	Uncontrolled	Controlled
K07YM	LD	Prop	7	174-180	15,000 (H)	0.2	85.7	2.7	200	1000	1.4	0.3
KOAB-TV	TV	Lic	3	60-66	58,900 (H)	0.2	77.7	13	200	1000	6.5	1.3
KOAB-DT	DT	Lic	11	198-204	90,000 (H)	0.2	96.7	12.9	200	1000	6.5	1.3
KBND-LP	TX	CP	41	632-638	8,900 (H)	0.2	51	4.6	423.3	2,117	1.1	0.2
KOHD-DT	DT	Lic	51	692-698	84,100 (H)	0.1	58.7	8.2	463.3	2,317	1.8	0.4
K53JV	TX	Lic	53	704-710	30,000 (H)	0.2	58.7	11.6	471.3	2,357	2.5	0.5
KOAB-FM	FM	CP	217	91.3	75,000 (H+V)	0.2	57.7	60.2	200	1000	30.1	6
KTWS(FM)	FM	Lic	252	98.3	5,200 (H+V)	0.3	79	5	200	1000	2.5	0.5
KMTK(FM)	FM	Lic	259	99.7	26,000 (H+V)	0.3	64	38.2	200	1000	19.1	3.8
KLRR(FM)	FM	Lic	269	101.7	23,000 (H+V)	0.3	79	22.2	200	1000	+11.1	+2.2
82.6%												
16.5%												

### Section III - Engineering (Digital)

#### TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

#### TECH BOX

1. Channel: \_\_\_\_\_
2. Translator Input Channel No. \_\_\_\_\_
3. Station proposed to be rebroadcast:

Call Sign	City	State	Channel
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4. Antenna Location Coordinates: (NAD 27)

\_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " ☐ N ☐ S Latitude  
\_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " ☐ E ☐ W Longitude

5. Antenna Structure Registration Number: \_\_\_\_\_

☐ Not applicable ☐ See Explanation in Exhibit No. ☐ FAA Notification Filed with FAA

6. Antenna Location Site Elevation Above Mean Sea Level: \_\_\_\_\_ meters
7. Overall Tower Height Above Ground Level: \_\_\_\_\_ meters
8. Height of Radiation Center Above Ground Level: \_\_\_\_\_ meters
9. Maximum Effective Radiated Power (ERP): \_\_\_\_\_ kW
10. Transmitter Output Power: \_\_\_\_\_ kW

11. a. Transmitting Antenna: ☐ Nondirectional ☐ Directional ☐ Directional composite

Manufacturer	Model
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- b. Electrical Beam Tilt: \_\_\_\_\_ degrees ☐ Not applicable



c. Directional Antenna Relative Field Values:

Rotation: \_\_\_\_\_ ° ☐ No rotation ☐ N/A (Nondirectional)

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

**NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.**

12. **Out-of-Channel Emission Mask:** Simple ☐ Stringent ☐

**CERTIFICATION**

13. **Interference.** The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030. ☐ Yes ☐ No 

See Explanation in Exhibit No.

14. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance. An **Exhibit is required.** ☐ Yes ☐ No 

See Explanation in Exhibit No.

Exhibit No.

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

15. **Channels 52-59.** If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

☐ The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.


☐ Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

**PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.**

16. **Channels 60-69.** If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:

- ☐ Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees,
- ☐ Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreement(s) with 700 MHz public safety regional planning committee(s) and state frequency administrator(s) of the region(s) and state(s) within which the antenna site of the digital LPTV or TV translator station is proposed to locate, and those adjoining regions and states with boundaries within 75 miles of the proposed station location.
- ☐ Pursuant to Section 74.786(e), an applicant for a channel adjacent to channel 63, 64, 68 or 69 has notified, within 30 days of filing this application, the 700 MHz public safety regional planning committee(s) and state administrator(s) of the region and state containing the proposed digital LPTV or TV translator antenna site and regions and states whose geographic boundaries lie within 50 miles of the proposed LPTV or TV translator antenna site.

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Martin R. Doczkat		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date July 15, 2008	
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100			
City Washington		State or Country (if foreign address) DC	ZIP Code 20005
Telephone Number (include area code) (202) 898-0111		E-Mail Address (if available) cde@attglobal.net	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001),  
AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)),  
AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).