

ENGINEERING STATEMENT
APPLICATION FOR DIGITAL DISPLACEMENT OF
K07AV, STANFORD, MONTANA
CHANNEL 11 0.3 KW DA ERP 1444.8 METERS RC/AMSL

OCTOBER 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)

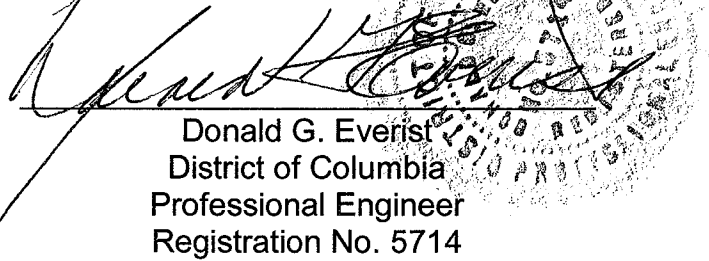
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President 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;

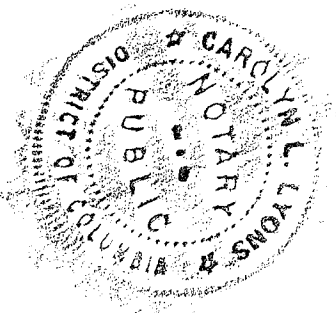
That his qualifications are a matter of record in the Federal Communications Commission;

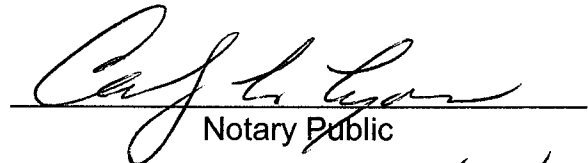
That the attached engineering report was prepared by him or under his supervision and direction and

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 7th day of October, 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 7th day of October, 2008.


Notary Public

My Commission Expires: 2/28/2013



Introduction

This engineering statement supports the application of the licensee of television translator station K07AV, Stanford, Montana (Facility ID 62226) for a digital construction permit due to its displacement from its currently licensed Channel 7 to the proposed Channel 11 because of the authorized post-transition digital television operation of KRTV-DT, Channel 7, Great Falls, Montana.

K07AV seeks displacement to a different channel due to the authorized Channel 7 construction permit for KRTV-DT (FCC File No. BMPCDT-20060706ADV) located 87 kilometers from the licensed K07AV transmitter site. K07AV hereby requests a construction permit for digital low-power television facilities to Channel 11 herein with an effective radiated power ("ERP") of 0.3 kW (directional) at a radiation center above mean sea level ("RCAMSL") of 1444.8 meters.

In addition to seeking this displacement relief, K07AV is correcting its operating coordinates and specifying a slightly different radiation center to accommodate a new antenna for its digital operation. Operation on Channel 11 will resolve any allocation uncertainties while improving the coverage due to this site correction.

There are two significant authorized full-service DTV stations within 265 km of the licensed K07AV site.

They are:

- KRTV-DT, Channel 7, Great Falls, Montana, within 87 km of the licensed K07AV site, FCC File No. BMPCDT-20060706ADV
- KFBB-DT, Channel 8, Great Falls, Montana, within 87 km of the licensed K07AV site, FCC File No. BLCDT-20071108ADA

Community of License

The geographic coordinates of the proposed transmitter site are as follows:

North Latitude: 47° 09' 59"

West Longitude: 110° 16' 30"

NAD-27

K07AV proposes operation of its digital low-power facilities on the same tower as currently licensed for its analog operation, however, it also requests correction of the licensed coordinates to those specified herein.

Technical Specifications

Antenna Location Site Elevation Above Mean Sea Level	1438.7 meters (4720 feet)
Height of Radiation Center Above Ground Level	6.1 meters (20 feet)
Overall Tower Height Above Ground Level	6.4 meters (21 feet)
Height of Radiation Center Above Mean Sea Level	1444.8 meters (4740 feet)
Maximum Effective Radiated Power	0.3 kW

Transmitter Output Power	0.067 kW
Out-of-Channel Emission Mask:	Simple

Antenna Type

Antenna:	Two Kathrein Scala, Type CA2 (or equivalent) antennas with a directional power gain of 2.51 for each antenna (4.0 dB for each antenna) and 0.0° electrical beam tilt
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As indicated above, the transmitter with typical power output of 0.067 kW will deliver 0.060 kW to the input of the antenna. The stacked antenna, having a maximum gain of 7.0 dB will produce a maximum ERP of 0.3 kW. A coverage map providing the licensed protected contour of K07AV at the corrected site in relation to the proposed protected contour for the digital facility has been included as Exhibit E-1 of this report.

Other Broadcast Facilities

A brief analysis was completed to determine the presence of stations in the vicinity of the proposed tower site using the October 6, 2008 data contained within the Commission's Consolidated Database System ("CDBS"). Within one kilometer of the proposed site, there are no authorized FM radio stations, no DTV stations, no NTSC television stations, no low-power analog television or television translator stations, and no low-power digital television or television translator authorizations other than the licensed K07AV operation, assuming operation from the correct site. There are no AM facilities within 3.22 km of the existing tower. Although no adverse technical effects 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.

Allocation

The proposed digital operation on Channel 11 at Stanford, Montana, conforms to the requirements of Sections 74.703, 74.705, 74.706, 74.707, 74.708, 74.709, and 74.710 of the Commission's Rules. The requirements of these sections regarding this proposed Channel 11 operation of K07AV are met through demonstration of Longley-Rice prediction methodology where applicable, attached as Exhibits E-2a and E-2b. The proposed low-power television station will not cause any objectionable interference to any existing or proposed full-service NTSC or DTV station or LPTV/TV translators.

Interference Analysis

A study of predicted interference caused by the proposed K07AV low-power digital 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. 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 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 update of the FCC's engineering database. A Longley-Rice study was performed with the proposed K07AV low-power digital facilities and all relevant stations listed in the FCC data base as of October 3, 2008. The study results and the included stations are listed in Exhibits E-2a and E-2b.

FCC Rule, Section 1.1307

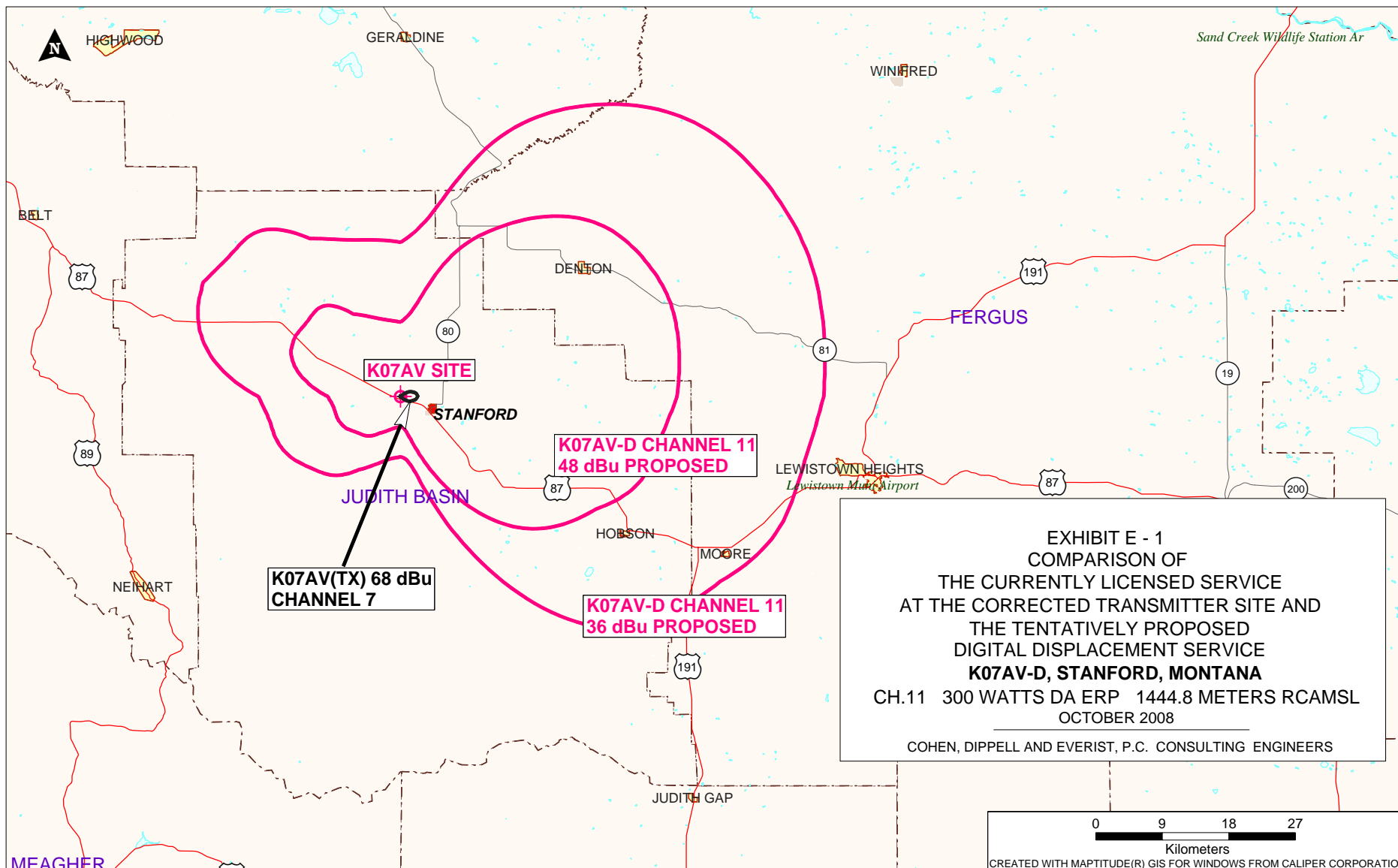
The proposed 0.3 kW non-directional operation will utilize two Kathrein Scala, Type CA2 antennas (or equivalent) described above with a center of radiation above ground of 6.1 meters. The antenna will be side-mounted on an existing tower with an overall height of 6.4 meters above ground. Assuming a downward relative field of 0.5 (see Exhibit E-3), the proposed digital operation of K07AV on Channel 11 will create a radio frequency field level of less than $132 \mu\text{W}/\text{cm}^2$ at 2 meters above the base of the tower. This level is less than 66% of the Maximum Permissible Exposure ("MPE") level for the general population and an uncontrolled environment, which is less than 13.2% of the MPE level for an occupational/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.



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EXHIBIT E-2a
PREDICTED LONGLEY-RICE INTERFERENCE ANALYSIS
FOR THE PROPOSED OPERATION OF
CONSIDERING STATIONS IN CDBS
K07AV, STANFORD, MONTANA
CHANNEL 11 0.3 KW DA ERP 1444.8 METERS HAAT
OCTOBER 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>
10	K10MO	ABSAROKEE MT	193.4	LIC	BLTTV-19850703IB	beyond eval. distance
10	K10BK	BIG SANDY MT	112	LIC	BLTTV-261	beyond eval. distance
10	KTVQ-DT	BILLINGS MT	208.7	CP MOD	BMPCDT-20060705ABU	no interference
10	K10HD	BOULDER MT	175.3	LIC	BLTTV-19840426IF	beyond eval. distance
10	K10DX	CONRAD MT	175.3	LIC	BLTTV-4649	beyond eval. distance
10	K10FC	DODSON, WAGNER MT	208.2	LIC	BLTTV-1391	beyond eval. distance
10	KMTF(TV)	HELENA MT	115.1	LIC	BLCT-20000830AFL	0.00%
10	K10AU	NORTH FORK, ETC. MT	212.8	LIC	BLTTV-1983	beyond eval. distance
10	K10HZ	PONY MT	207.8	LIC	BLTTV-3767	beyond eval. distance
11	K11BD	LEADORE, ETC. ID	361.2	LIC	BLTTV-1809	no interference
11	K11TY	SALMON, ETC. ID	362.3	LIC	BLTTV-19960402IA	no interference
11	K11RX	BIG ARM MT	312.2	CP	BDFCDTV-20070618ACP	no interference
11	KULR-DT	BILLINGS MT	209.5	LIC	BLCDT-20070521AFW	0.00%
11	K11IL	BITTERROOT RANGE, ET MT	324.4	LIC	BLTTV-1984	beyond eval. distance
11	K11UJ	BOZEMAN MT	176.1	LIC	BLTVL-20010917AAF	no interference
11	NEW	BUTTE MT	209.7	APP	BNPTVL-20000829AHM	no interference
11	K11CC	CHECKERBOARD MT	67.3	LIC	BLTTV-3551	no interference
11	NEW	COLSTRIP MT	312.6	CP	BDCCDVL-20061010AEG	no interference
11	K11GE	COOKE CITY, ETC. MT	239.7	LIC	BLTTV-1255	no interference
11	K11RX	ELMO, ETC. MT	311.8	LIC	BLTT-19850927IE	no interference
11	K11CB	FORSYTH MT	292.5	LIC	BLTTV-796	no interference
11	NEW	GALLATIN RIVER, ETC. MT	227.2	CP	BDCCDVL-20061010ANS	no interference
11	K11OS	HYSHAM MT	248.3	LIC	BLTTV-19791210IA	no interference
11	K11HE	JORDAN, ETC. MT	241.5	LIC	BLTTV-3030	no interference
11	K11IA	KING SPRINGS, ETC. MT	295.9	LIC	BLTTV-1958	no interference
11	K11MB	LAVINA MT	144.6	LIC	BLTTV-4268	no interference
11	K11IH	MALTA, ETC. MT	224.1	LIC	BLTTV-1931	no interference
11	KUFM-DT	MISSOULA MT	283.2	CP MOD	BMPEDT-20080611ACB	no interference

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EXHIBIT E-2a
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FOR THE PROPOSED OPERATION OF
CONSIDERING STATIONS IN CDBS
K07AV, STANFORD, MONTANA
CHANNEL 11 0.3 KW DA ERP 1444.8 METERS HAAT
OCTOBER 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>
11	KUFM-TV	MISSOULA MT	283.2	LIC	BLET-20000627AHB	no interference
11	K11JP	PLAINS MT	354.8	LIC	BLTTV-3379	beyond eval. distance
11	K11HO	POLSON MT	296.4	CP	BDFCDTV-20070618ACM	no interference
11	K11HO	POLSON MT	296.4	LIC	BLTTV-4380	no interference
11	K11FS	ROUNDUP MT	151.6	LIC	BLTTV-4858	no interference
11	K11KE	SOMERS MT	299	LIC	BLTT-3563	no interference
11	K11FF	SUPERIOR MT	350.7	LIC	BRTTV-19780821IG	beyond eval. distance
11	K11FQ	THOMPSON FALLS MT	382	CP	BDFCDTV-20070806ABT	beyond eval. distance
11	K11FQ	THOMPSON FALLS MT	385	LIC	BLTTV-3777	beyond eval. distance
11	K11MP	WHITE SULPHUR SPRING MT	84.9	LIC	BLTTV-19790720ID	no interference
11	K11NH	WINIFRED, ETC. MT	81.4	LIC	BLTTV-4829	no interference
11	NEW	WINIFRED, ETC. MT	81.4	APP	BSFDTT-20060630CPC	no interference
11	K11KE	WOODS BAY MT	299	CP	BDFCDTV-20070618ACO	no interference
11	K11GX	WYNOT, ETC. MT	258.1	LIC	BLTTV-1392	no interference
11	K11PK	CLARK, ETC. WY	263.2	LIC	BLTTV-19810318JT	no interference
11	KBEO(TV)	JACKSON WY	413.5	LIC	BLCT-20010402AJE	beyond eval. distance
11	KBEO-DT	JACKSON WY	393.3	CP MOD	BMPCDT-20080620ANL	no interference
11	K11GG	SOUTH FORK, ETC. WY	330.2	LIC	BLTTV-19781208IF	beyond eval. distance
11	K11QL	SUNLIGHT BASIN, ETC. WY	276.7	LIC	BLTTV-19830314II	no interference
12	K12HX	ABSAROEKEE MT	193.4	LIC	BLTTV-5099	beyond eval. distance
12	K12DJ	CONRAD MT	175.3	LIC	BLTTV-4648	beyond eval. distance
12	K12GP	DODSON, WAGNER MT	208.2	LIC	BLTTV-2067	beyond eval. distance
12	KTVH(TV)	HELENA MT	115.1	LIC	BLCT-20000830AFI	no interference
12	KTVH-DT	HELENA MT	115.1	APP	BPCDT-20080619ADQ	0.00%
12	K12HB	RYEGATE MT	123.6	LIC	BLTTV-3056	no interference

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EXHIBIT E-2b
PREDICTED POST-TRANSITION LONGLEY-RICE INTERFERENCE ANALYSIS
FOR THE PROPOSED OPERATION OF
K07AV, STANFORD, MONTANA
CHANNEL 11 0.3 KW DA ERP 1444.8 METERS HAAT
OCTOBER 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>
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11	K11IL	BITTERROOT RANGE, ET MT	324.4	LIC	BLTTV-1984	beyond eval. distance
11	K11UJ	BOZEMAN MT	176.1	LIC	BLTVL-20010917AAF	no interference
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11	K11IH	MALTA, ETC. MT	224.1	LIC	BLTTV-1931	no interference
11	KUFM-DT	MISSOULA MT	283.2	CP MOD	BMPEDT-20080611ACB	no interference
11	K11JP	PLAINS MT	354.8	LIC	BLTTV-3379	beyond eval. distance
11	K11HO	POLSON MT	296.4	CP	BDFCDTV-20070618ACM	no interference

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EXHIBIT E-2b
PREDICTED POST-TRANSITION LONGLEY-RICE INTERFERENCE ANALYSIS
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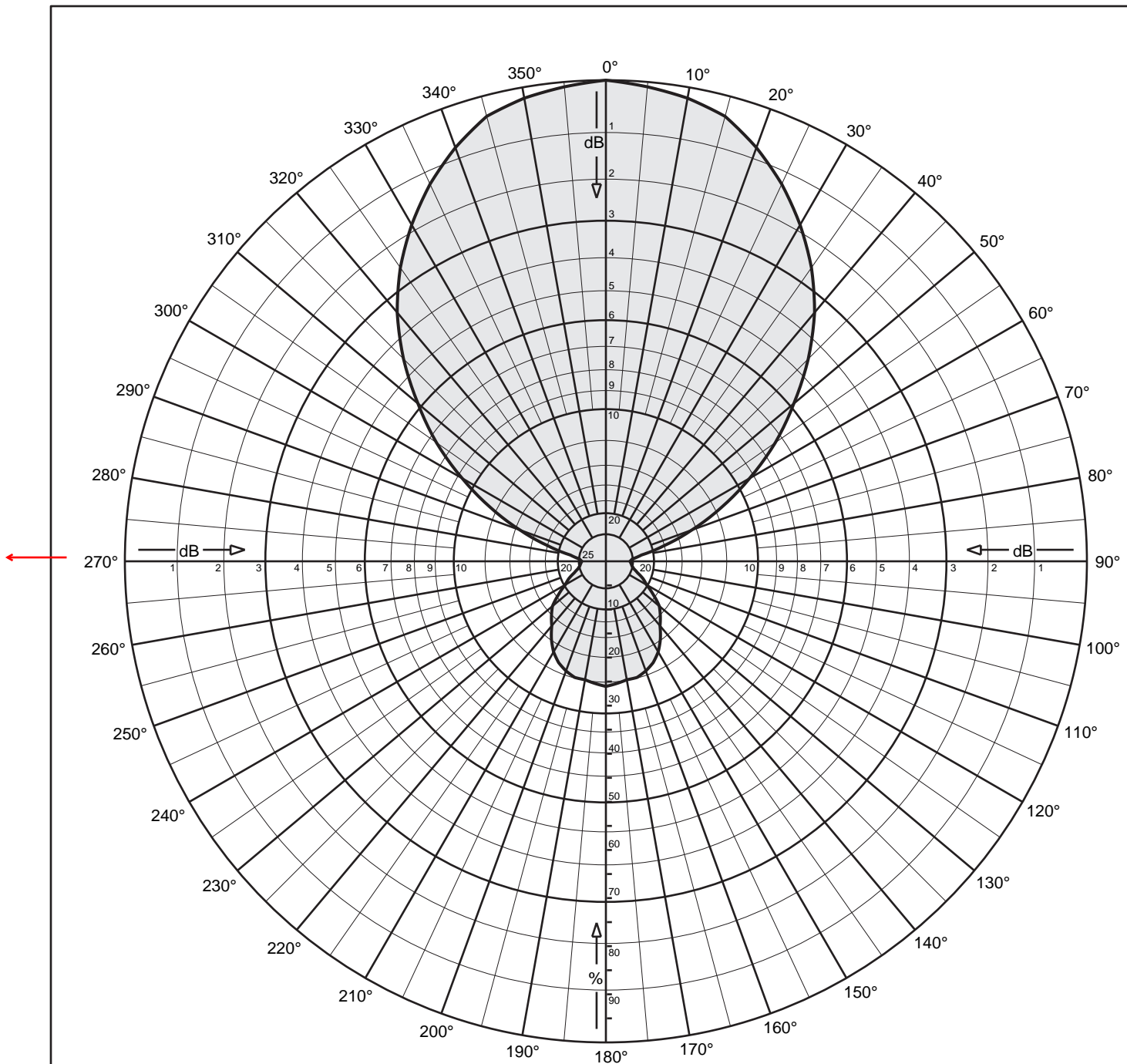
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11	K11FS	ROUNDUP MT	151.6	LIC	BLTTV-4858	no interference
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11	K11MP	WHITE SULPHUR SPRING MT	84.9	LIC	BLTTV-19790720ID	no interference
11	K11NH	WINIFRED, ETC. MT	81.4	LIC	BLTTV-4829	no interference
11	NEW	WINIFRED, ETC. MT	81.4	APP	BSFDDT-20060630CPC	no interference
11	K11KE	WOODS BAY MT	299	CP	BDFCDTV-20070618ACO	no interference
11	K11GX	WYNOT, ETC. MT	258.1	LIC	BLTTV-1392	no interference
11	K11PK	CLARK, ETC. WY	263.2	LIC	BLTTV-19810318JT	no interference
11	KBEO-DT	JACKSON WY	393.3	CP MOD	BMPCDT-20080620ANL	no interference
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11	K11QL	SUNLIGHT BASIN, ETC. WY	276.7	LIC	BLTTV-19830314II	no interference
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12	K12DJ	CONRAD MT	175.3	LIC	BLTTV-4648	beyond eval. distance
12	K12GP	DODSON, WAGNER MT	208.2	LIC	BLTTV-2067	beyond eval. distance
12	KTVH-DT	HELENA MT	115.1	APP	BPCDT-20080619ADQ	no interference
12	K12HB	RYEGATE MT	123.6	LIC	BLTTV-3056	no interference

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EXHIBIT E-3

ANTENNA MANUFACTURER DATA

K07AV, STANFORD, MONTANA



CA2 Dipole/Reflector
Ch-11
4.0 dBd (6.15 dBi)
Horizontal polarization
Horizontal radiation pattern



CA2 Dipole/Reflector

Horizontal radiation pattern

Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	4.00	2.51	45	0.595	-4.51	-0.51	0.89
1	0.998	-0.02	3.98	2.50	46	0.578	-4.76	-0.76	0.84
2	0.996	-0.03	3.97	2.49	47	0.561	-5.02	-1.02	0.79
3	0.994	-0.05	3.95	2.48	48	0.544	-5.29	-1.29	0.74
4	0.992	-0.07	3.93	2.47	49	0.527	-5.56	-1.56	0.70
5	0.990	-0.09	3.91	2.46	50	0.510	-5.85	-1.85	0.65
6	0.988	-0.11	3.89	2.45	51	0.494	-6.13	-2.13	0.61
7	0.985	-0.13	3.87	2.44	52	0.478	-6.41	-2.41	0.57
8	0.982	-0.15	3.85	2.42	53	0.462	-6.71	-2.71	0.54
9	0.980	-0.18	3.82	2.41	54	0.446	-7.01	-3.01	0.50
10	0.978	-0.20	3.80	2.40	55	0.430	-7.33	-3.33	0.46
11	0.974	-0.23	3.77	2.38	56	0.413	-7.68	-3.68	0.43
12	0.970	-0.27	3.73	2.36	57	0.396	-8.05	-4.05	0.39
13	0.965	-0.30	3.70	2.34	58	0.379	-8.43	-4.43	0.36
14	0.961	-0.34	3.66	2.32	59	0.362	-8.83	-4.83	0.33
15	0.957	-0.38	3.62	2.30	60	0.345	-9.24	-5.24	0.30
16	0.949	-0.45	3.55	2.26	61	0.329	-9.66	-5.66	0.27
17	0.940	-0.53	3.47	2.22	62	0.313	-10.09	-6.09	0.25
18	0.932	-0.61	3.39	2.18	63	0.297	-10.54	-6.54	0.22
19	0.924	-0.69	3.31	2.14	64	0.281	-11.03	-7.03	0.20
20	0.915	-0.77	3.23	2.10	65	0.265	-11.54	-7.54	0.18
21	0.905	-0.87	3.13	2.06	66	0.250	-12.04	-8.04	0.16
22	0.895	-0.96	3.04	2.01	67	0.235	-12.58	-8.58	0.14
23	0.885	-1.06	2.94	1.97	68	0.220	-13.15	-9.15	0.12
24	0.875	-1.16	2.84	1.92	69	0.205	-13.76	-9.76	0.11
25	0.865	-1.26	2.74	1.88	70	0.190	-14.42	-10.42	0.09
26	0.854	-1.38	2.62	1.83	71	0.177	-15.04	-11.04	0.08
27	0.842	-1.49	2.51	1.78	72	0.164	-15.70	-11.70	0.07
28	0.831	-1.61	2.39	1.73	73	0.151	-16.42	-12.42	0.06
29	0.819	-1.73	2.27	1.68	74	0.138	-17.20	-13.20	0.05
30	0.808	-1.86	2.14	1.64	75	0.125	-18.06	-14.06	0.04
31	0.795	-1.99	2.01	1.59	76	0.115	-18.79	-14.79	0.03
32	0.783	-2.13	1.87	1.54	77	0.105	-19.58	-15.58	0.03
33	0.770	-2.27	1.73	1.49	78	0.095	-20.45	-16.45	0.02
34	0.757	-2.41	1.59	1.44	79	0.085	-21.41	-17.41	0.02
35	0.745	-2.56	1.44	1.39	80	0.075	-22.50	-18.50	0.01
36	0.731	-2.72	1.28	1.34	81	0.071	-22.97	-18.97	0.01
37	0.717	-2.89	1.11	1.29	82	0.067	-23.48	-19.48	0.01
38	0.703	-3.06	0.94	1.24	83	0.063	-24.01	-20.01	0.01
39	0.689	-3.24	0.76	1.19	84	0.059	-24.58	-20.58	0.01
40	0.675	-3.41	0.59	1.14	85	0.055	-25.19	-21.19	0.01
41	0.659	-3.62	0.38	1.09	86	0.054	-25.35	-21.35	0.01
42	0.643	-3.84	0.16	1.04	87	0.053	-25.51	-21.51	0.01
43	0.627	-4.05	-0.05	0.99	88	0.052	-25.68	-21.68	0.01
44	0.611	-4.28	-0.28	0.94	89	0.051	-25.85	-21.85	0.01



CA2 Dipole/Reflector

Horizontal radiation pattern

Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
90	0.050	-26.02	-22.02	0.01	135	0.160	-15.92	-11.92	0.06
91	0.051	-25.93	-21.93	0.01	136	0.163	-15.76	-11.76	0.07
92	0.051	-25.85	-21.85	0.01	137	0.166	-15.60	-11.60	0.07
93	0.052	-25.76	-21.76	0.01	138	0.169	-15.44	-11.44	0.07
94	0.052	-25.68	-21.68	0.01	139	0.172	-15.29	-11.29	0.07
95	0.053	-25.60	-21.60	0.01	140	0.175	-15.14	-11.14	0.08
96	0.053	-25.51	-21.51	0.01	141	0.179	-14.92	-10.92	0.08
97	0.054	-25.43	-21.43	0.01	142	0.184	-14.70	-10.70	0.09
98	0.054	-25.35	-21.35	0.01	143	0.188	-14.49	-10.49	0.09
99	0.055	-25.27	-21.27	0.01	144	0.193	-14.29	-10.29	0.09
100	0.055	-25.19	-21.19	0.01	145	0.197	-14.09	-10.09	0.10
101	0.056	-25.04	-21.04	0.01	146	0.201	-13.91	-9.91	0.10
102	0.057	-24.88	-20.88	0.01	147	0.205	-13.74	-9.74	0.11
103	0.058	-24.73	-20.73	0.01	148	0.209	-13.58	-9.58	0.11
104	0.059	-24.58	-20.58	0.01	149	0.213	-13.41	-9.41	0.11
105	0.060	-24.44	-20.44	0.01	150	0.218	-13.25	-9.25	0.12
106	0.062	-24.15	-20.15	0.01	151	0.220	-13.13	-9.13	0.12
107	0.064	-23.88	-19.88	0.01	152	0.224	-13.01	-9.01	0.13
108	0.066	-23.61	-19.61	0.01	153	0.226	-12.90	-8.90	0.13
109	0.068	-23.35	-19.35	0.01	154	0.230	-12.78	-8.78	0.13
110	0.070	-23.10	-19.10	0.01	155	0.233	-12.67	-8.67	0.14
111	0.073	-22.73	-18.73	0.01	156	0.235	-12.60	-8.60	0.14
112	0.076	-22.38	-18.38	0.01	157	0.236	-12.52	-8.52	0.14
113	0.079	-22.05	-18.05	0.02	158	0.238	-12.45	-8.45	0.14
114	0.082	-21.72	-17.72	0.02	159	0.241	-12.38	-8.38	0.15
115	0.085	-21.41	-17.41	0.02	160	0.242	-12.31	-8.31	0.15
116	0.087	-21.16	-17.16	0.02	161	0.244	-12.25	-8.25	0.15
117	0.090	-20.92	-16.92	0.02	162	0.246	-12.20	-8.20	0.15
118	0.093	-20.68	-16.68	0.02	163	0.247	-12.15	-8.15	0.15
119	0.095	-20.45	-16.45	0.02	164	0.248	-12.09	-8.09	0.16
120	0.097	-20.22	-16.22	0.02	165	0.250	-12.04	-8.04	0.16
121	0.102	-19.83	-15.83	0.03	166	0.250	-12.04	-8.04	0.16
122	0.107	-19.45	-15.45	0.03	167	0.250	-12.04	-8.04	0.16
123	0.111	-19.09	-15.09	0.03	168	0.250	-12.04	-8.04	0.16
124	0.115	-18.75	-14.75	0.03	169	0.250	-12.04	-8.04	0.16
125	0.120	-18.42	-14.42	0.04	170	0.250	-12.04	-8.04	0.16
126	0.125	-18.06	-14.06	0.04	171	0.251	-12.01	-8.01	0.16
127	0.130	-17.72	-13.72	0.04	172	0.252	-11.97	-7.97	0.16
128	0.135	-17.39	-13.39	0.05	173	0.253	-11.94	-7.94	0.16
129	0.140	-17.08	-13.08	0.05	174	0.254	-11.90	-7.90	0.16
130	0.145	-16.77	-12.77	0.05	175	0.255	-11.87	-7.87	0.16
131	0.148	-16.59	-12.59	0.06	176	0.256	-11.84	-7.84	0.16
132	0.151	-16.42	-12.42	0.06	177	0.257	-11.80	-7.80	0.17
133	0.154	-16.25	-12.25	0.06	178	0.258	-11.77	-7.77	0.17
134	0.157	-16.08	-12.08	0.06	179	0.259	-11.73	-7.73	0.17



CA2 Dipole/Reflector

Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization

Horizontal radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
180	0.260	-11.70	-7.70	0.17	225	0.160	-15.92	-11.92	0.06
181	0.259	-11.73	-7.73	0.17	226	0.157	-16.08	-12.08	0.06
182	0.258	-11.77	-7.77	0.17	227	0.154	-16.25	-12.25	0.06
183	0.257	-11.80	-7.80	0.17	228	0.151	-16.42	-12.42	0.06
184	0.256	-11.84	-7.84	0.16	229	0.148	-16.59	-12.59	0.06
185	0.255	-11.87	-7.87	0.16	230	0.145	-16.77	-12.77	0.05
186	0.254	-11.90	-7.90	0.16	231	0.140	-17.08	-13.08	0.05
187	0.253	-11.94	-7.94	0.16	232	0.135	-17.39	-13.39	0.05
188	0.252	-11.97	-7.97	0.16	233	0.130	-17.72	-13.72	0.04
189	0.251	-12.01	-8.01	0.16	234	0.125	-18.06	-14.06	0.04
190	0.250	-12.04	-8.04	0.16	235	0.120	-18.42	-14.42	0.04
191	0.250	-12.04	-8.04	0.16	236	0.115	-18.75	-14.75	0.03
192	0.250	-12.04	-8.04	0.16	237	0.111	-19.09	-15.09	0.03
193	0.250	-12.04	-8.04	0.16	238	0.107	-19.45	-15.45	0.03
194	0.250	-12.04	-8.04	0.16	239	0.102	-19.83	-15.83	0.03
195	0.250	-12.04	-8.04	0.16	240	0.097	-20.22	-16.22	0.02
196	0.248	-12.09	-8.09	0.16	241	0.095	-20.45	-16.45	0.02
197	0.247	-12.15	-8.15	0.15	242	0.093	-20.68	-16.68	0.02
198	0.246	-12.20	-8.20	0.15	243	0.090	-20.92	-16.92	0.02
199	0.244	-12.25	-8.25	0.15	244	0.087	-21.16	-17.16	0.02
200	0.242	-12.31	-8.31	0.15	245	0.085	-21.41	-17.41	0.02
201	0.241	-12.38	-8.38	0.15	246	0.082	-21.72	-17.72	0.02
202	0.238	-12.45	-8.45	0.14	247	0.079	-22.05	-18.05	0.02
203	0.236	-12.52	-8.52	0.14	248	0.076	-22.38	-18.38	0.01
204	0.235	-12.60	-8.60	0.14	249	0.073	-22.73	-18.73	0.01
205	0.233	-12.67	-8.67	0.14	250	0.070	-23.10	-19.10	0.01
206	0.230	-12.78	-8.78	0.13	251	0.068	-23.35	-19.35	0.01
207	0.226	-12.90	-8.90	0.13	252	0.066	-23.61	-19.61	0.01
208	0.224	-13.01	-9.01	0.13	253	0.064	-23.88	-19.88	0.01
209	0.220	-13.13	-9.13	0.12	254	0.062	-24.15	-20.15	0.01
210	0.218	-13.25	-9.25	0.12	255	0.060	-24.44	-20.44	0.01
211	0.213	-13.41	-9.41	0.11	256	0.059	-24.58	-20.58	0.01
212	0.209	-13.58	-9.58	0.11	257	0.058	-24.73	-20.73	0.01
213	0.205	-13.74	-9.74	0.11	258	0.057	-24.88	-20.88	0.01
214	0.201	-13.91	-9.91	0.10	259	0.056	-25.04	-21.04	0.01
215	0.197	-14.09	-10.09	0.10	260	0.055	-25.19	-21.19	0.01
216	0.193	-14.29	-10.29	0.09	261	0.055	-25.27	-21.27	0.01
217	0.188	-14.49	-10.49	0.09	262	0.054	-25.35	-21.35	0.01
218	0.184	-14.70	-10.70	0.09	263	0.054	-25.43	-21.43	0.01
219	0.179	-14.92	-10.92	0.08	264	0.053	-25.51	-21.51	0.01
220	0.175	-15.14	-11.14	0.08	265	0.053	-25.60	-21.60	0.01
221	0.172	-15.29	-11.29	0.07	266	0.052	-25.68	-21.68	0.01
222	0.169	-15.44	-11.44	0.07	267	0.052	-25.76	-21.76	0.01
223	0.166	-15.60	-11.60	0.07	268	0.051	-25.85	-21.85	0.01
224	0.163	-15.76	-11.76	0.07	269	0.051	-25.93	-21.93	0.01



CA2 Dipole/Reflector

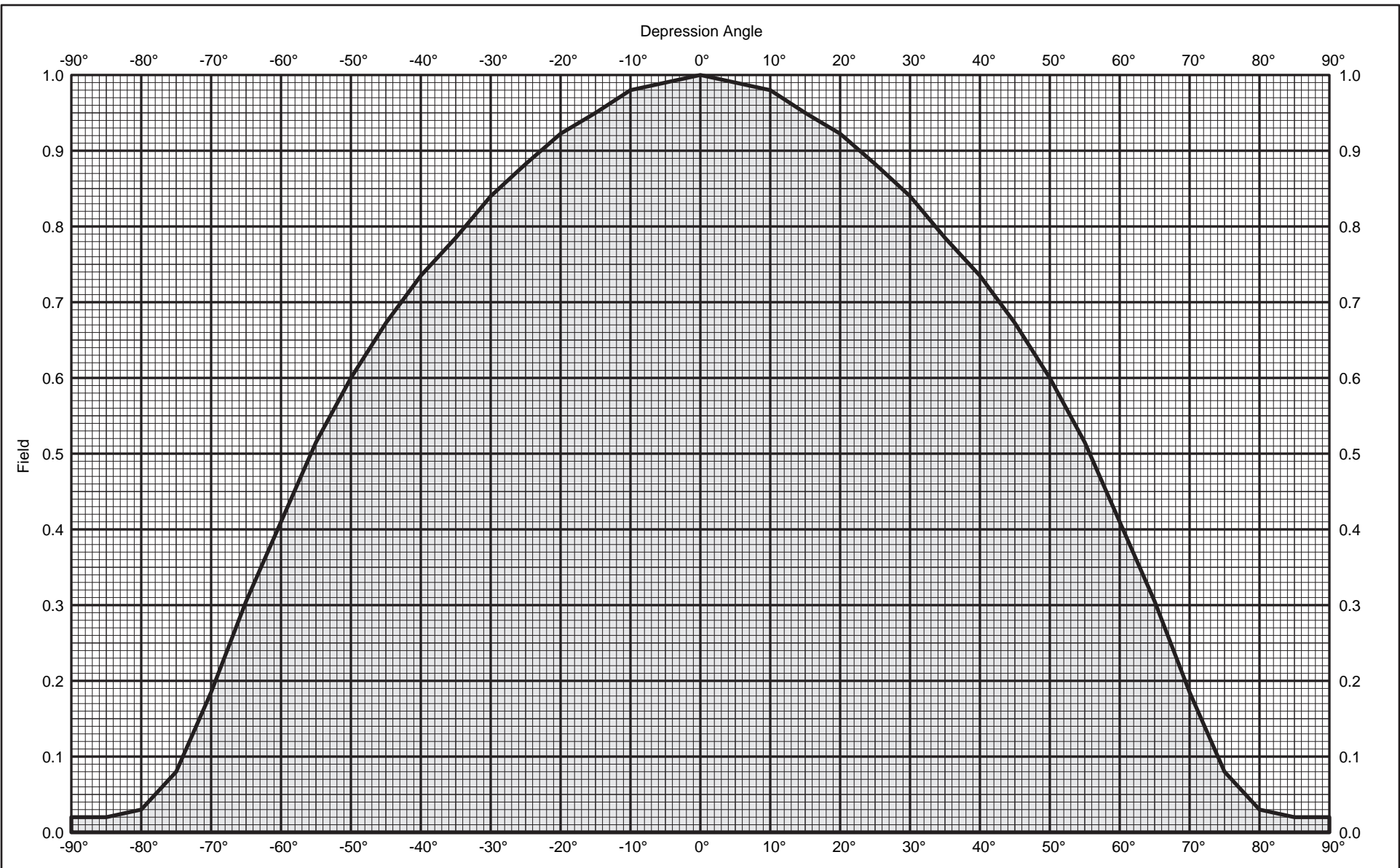
Horizontal radiation pattern

Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.050	-26.02	-22.02	0.01	315	0.595	-4.51	-0.51	0.89
271	0.051	-25.85	-21.85	0.01	316	0.611	-4.28	-0.28	0.94
272	0.052	-25.68	-21.68	0.01	317	0.627	-4.05	-0.05	0.99
273	0.053	-25.51	-21.51	0.01	318	0.643	-3.84	0.16	1.04
274	0.054	-25.35	-21.35	0.01	319	0.659	-3.62	0.38	1.09
275	0.055	-25.19	-21.19	0.01	320	0.675	-3.41	0.59	1.14
276	0.059	-24.58	-20.58	0.01	321	0.689	-3.24	0.76	1.19
277	0.063	-24.01	-20.01	0.01	322	0.703	-3.06	0.94	1.24
278	0.067	-23.48	-19.48	0.01	323	0.717	-2.89	1.11	1.29
279	0.071	-22.97	-18.97	0.01	324	0.731	-2.72	1.28	1.34
280	0.075	-22.50	-18.50	0.01	325	0.745	-2.56	1.44	1.39
281	0.085	-21.41	-17.41	0.02	326	0.757	-2.41	1.59	1.44
282	0.095	-20.45	-16.45	0.02	327	0.770	-2.27	1.73	1.49
283	0.105	-19.58	-15.58	0.03	328	0.783	-2.13	1.87	1.54
284	0.115	-18.79	-14.79	0.03	329	0.795	-1.99	2.01	1.59
285	0.125	-18.06	-14.06	0.04	330	0.808	-1.86	2.14	1.64
286	0.138	-17.20	-13.20	0.05	331	0.819	-1.73	2.27	1.68
287	0.151	-16.42	-12.42	0.06	332	0.831	-1.61	2.39	1.73
288	0.164	-15.70	-11.70	0.07	333	0.842	-1.49	2.51	1.78
289	0.177	-15.04	-11.04	0.08	334	0.854	-1.38	2.62	1.83
290	0.190	-14.42	-10.42	0.09	335	0.865	-1.26	2.74	1.88
291	0.205	-13.76	-9.76	0.11	336	0.875	-1.16	2.84	1.92
292	0.220	-13.15	-9.15	0.12	337	0.885	-1.06	2.94	1.97
293	0.235	-12.58	-8.58	0.14	338	0.895	-0.96	3.04	2.01
294	0.250	-12.04	-8.04	0.16	339	0.905	-0.87	3.13	2.06
295	0.265	-11.54	-7.54	0.18	340	0.915	-0.77	3.23	2.10
296	0.281	-11.03	-7.03	0.20	341	0.924	-0.69	3.31	2.14
297	0.297	-10.54	-6.54	0.22	342	0.932	-0.61	3.39	2.18
298	0.313	-10.09	-6.09	0.25	343	0.940	-0.53	3.47	2.22
299	0.329	-9.66	-5.66	0.27	344	0.949	-0.45	3.55	2.26
300	0.345	-9.24	-5.24	0.30	345	0.957	-0.38	3.62	2.30
301	0.362	-8.83	-4.83	0.33	346	0.961	-0.34	3.66	2.32
302	0.379	-8.43	-4.43	0.36	347	0.965	-0.30	3.70	2.34
303	0.396	-8.05	-4.05	0.39	348	0.970	-0.27	3.73	2.36
304	0.413	-7.68	-3.68	0.43	349	0.974	-0.23	3.77	2.38
305	0.430	-7.33	-3.33	0.46	350	0.978	-0.20	3.80	2.40
306	0.446	-7.01	-3.01	0.50	351	0.980	-0.18	3.82	2.41
307	0.462	-6.71	-2.71	0.54	352	0.982	-0.15	3.85	2.42
308	0.478	-6.41	-2.41	0.57	353	0.985	-0.13	3.87	2.44
309	0.494	-6.13	-2.13	0.61	354	0.988	-0.11	3.89	2.45
310	0.510	-5.85	-1.85	0.65	355	0.990	-0.09	3.91	2.46
311	0.527	-5.56	-1.56	0.70	356	0.992	-0.07	3.93	2.47
312	0.544	-5.29	-1.29	0.74	357	0.994	-0.05	3.95	2.48
313	0.561	-5.02	-1.02	0.79	358	0.996	-0.03	3.97	2.49
314	0.578	-4.76	-0.76	0.84	359	0.998	-0.02	3.98	2.50



Vertical radiation pattern

KATHREIN
SCALA DIVISION

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CA2 Dipole/Reflector

Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization



CA2 Dipole/Reflector
Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization

Vertical radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.020	-33.98	-29.98	0.00	-45	0.673	-3.45	0.55	1.14
-89	0.020	-33.98	-29.98	0.00	-44	0.685	-3.29	0.71	1.18
-88	0.020	-33.98	-29.98	0.00	-43	0.697	-3.13	0.87	1.22
-87	0.020	-33.98	-29.98	0.00	-42	0.710	-2.97	1.03	1.27
-86	0.020	-33.98	-29.98	0.00	-41	0.722	-2.82	1.18	1.31
-85	0.020	-33.98	-29.98	0.00	-40	0.735	-2.67	1.33	1.36
-84	0.022	-33.15	-29.15	0.00	-39	0.745	-2.56	1.44	1.39
-83	0.024	-32.40	-28.40	0.00	-38	0.755	-2.44	1.56	1.43
-82	0.026	-31.70	-27.70	0.00	-37	0.765	-2.33	1.67	1.47
-81	0.028	-31.06	-27.06	0.00	-36	0.775	-2.21	1.79	1.51
-80	0.030	-30.46	-26.46	0.00	-35	0.785	-2.10	1.90	1.55
-79	0.040	-27.96	-23.96	0.00	-34	0.796	-1.98	2.02	1.59
-78	0.050	-26.02	-22.02	0.01	-33	0.807	-1.86	2.14	1.64
-77	0.060	-24.44	-20.44	0.01	-32	0.818	-1.74	2.26	1.68
-76	0.070	-23.10	-19.10	0.01	-31	0.829	-1.63	2.37	1.73
-75	0.080	-21.94	-17.94	0.02	-30	0.840	-1.51	2.49	1.77
-74	0.101	-19.91	-15.91	0.03	-29	0.849	-1.43	2.57	1.81
-73	0.122	-18.27	-14.27	0.04	-28	0.857	-1.34	2.66	1.84
-72	0.143	-16.89	-12.89	0.05	-27	0.865	-1.25	2.75	1.88
-71	0.164	-15.70	-11.70	0.07	-26	0.874	-1.17	2.83	1.92
-70	0.185	-14.66	-10.66	0.09	-25	0.883	-1.09	2.91	1.96
-69	0.209	-13.60	-9.60	0.11	-24	0.891	-1.01	2.99	1.99
-68	0.233	-12.65	-8.65	0.14	-23	0.898	-0.93	3.07	2.03
-67	0.257	-11.80	-7.80	0.17	-22	0.906	-0.85	3.15	2.06
-66	0.281	-11.03	-7.03	0.20	-21	0.914	-0.78	3.22	2.10
-65	0.305	-10.31	-6.31	0.23	-20	0.923	-0.70	3.30	2.14
-64	0.326	-9.74	-5.74	0.27	-19	0.928	-0.65	3.35	2.16
-63	0.347	-9.19	-5.19	0.30	-18	0.933	-0.60	3.40	2.19
-62	0.368	-8.68	-4.68	0.34	-17	0.939	-0.55	3.45	2.21
-61	0.389	-8.20	-4.20	0.38	-16	0.944	-0.50	3.50	2.24
-60	0.410	-7.74	-3.74	0.42	-15	0.950	-0.45	3.55	2.27
-59	0.431	-7.31	-3.31	0.47	-14	0.956	-0.39	3.61	2.30
-58	0.452	-6.90	-2.90	0.51	-13	0.962	-0.34	3.66	2.32
-57	0.473	-6.50	-2.50	0.56	-12	0.968	-0.28	3.72	2.35
-56	0.494	-6.13	-2.13	0.61	-11	0.974	-0.23	3.77	2.38
-55	0.515	-5.76	-1.76	0.67	-10	0.980	-0.18	3.82	2.41
-54	0.532	-5.48	-1.48	0.71	-9	0.982	-0.16	3.84	2.42
-53	0.549	-5.21	-1.21	0.76	-8	0.984	-0.14	3.86	2.43
-52	0.566	-4.94	-0.94	0.80	-7	0.986	-0.12	3.88	2.44
-51	0.583	-4.69	-0.69	0.85	-6	0.988	-0.10	3.90	2.45
-50	0.600	-4.44	-0.44	0.90	-5	0.990	-0.09	3.91	2.46
-49	0.615	-4.23	-0.23	0.95	-4	0.992	-0.07	3.93	2.47
-48	0.629	-4.03	-0.03	0.99	-3	0.994	-0.05	3.95	2.48
-47	0.643	-3.83	0.17	1.04	-2	0.996	-0.03	3.97	2.49
-46	0.658	-3.64	0.36	1.09	-1	0.998	-0.02	3.98	2.50
					0	1.000	0.00	4.00	2.51



CA2 Dipole/Reflector
Ch-11

4.0 dBd (6.15 dBi)

Horizontal polarization

Vertical radiation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	4.00	2.51	45	0.673	-3.45	0.55	1.14
1	0.998	-0.02	3.98	2.50	46	0.658	-3.64	0.36	1.09
2	0.996	-0.03	3.97	2.49	47	0.643	-3.83	0.17	1.04
3	0.994	-0.05	3.95	2.48	48	0.629	-4.03	-0.03	0.99
4	0.992	-0.07	3.93	2.47	49	0.615	-4.23	-0.23	0.95
5	0.990	-0.09	3.91	2.46	50	0.600	-4.44	-0.44	0.90
6	0.988	-0.10	3.90	2.45	51	0.583	-4.69	-0.69	0.85
7	0.986	-0.12	3.88	2.44	52	0.566	-4.94	-0.94	0.80
8	0.984	-0.14	3.86	2.43	53	0.549	-5.21	-1.21	0.76
9	0.982	-0.16	3.84	2.42	54	0.532	-5.48	-1.48	0.71
10	0.980	-0.18	3.82	2.41	55	0.515	-5.76	-1.76	0.67
11	0.974	-0.23	3.77	2.38	56	0.494	-6.13	-2.13	0.61
12	0.968	-0.28	3.72	2.35	57	0.473	-6.50	-2.50	0.56
13	0.962	-0.34	3.66	2.32	58	0.452	-6.90	-2.90	0.51
14	0.956	-0.39	3.61	2.30	59	0.431	-7.31	-3.31	0.47
15	0.950	-0.45	3.55	2.27	60	0.410	-7.74	-3.74	0.42
16	0.944	-0.50	3.50	2.24	61	0.389	-8.20	-4.20	0.38
17	0.939	-0.55	3.45	2.21	62	0.368	-8.68	-4.68	0.34
18	0.933	-0.60	3.40	2.19	63	0.347	-9.19	-5.19	0.30
19	0.928	-0.65	3.35	2.16	64	0.326	-9.74	-5.74	0.27
20	0.923	-0.70	3.30	2.14	65	0.305	-10.31	-6.31	0.23
21	0.914	-0.78	3.22	2.10	66	0.281	-11.03	-7.03	0.20
22	0.906	-0.85	3.15	2.06	67	0.257	-11.80	-7.80	0.17
23	0.898	-0.93	3.07	2.03	68	0.233	-12.65	-8.65	0.14
24	0.891	-1.01	2.99	1.99	69	0.209	-13.60	-9.60	0.11
25	0.883	-1.09	2.91	1.96	70	0.185	-14.66	-10.66	0.09
26	0.874	-1.17	2.83	1.92	71	0.164	-15.70	-11.70	0.07
27	0.865	-1.25	2.75	1.88	72	0.143	-16.89	-12.89	0.05
28	0.857	-1.34	2.66	1.84	73	0.122	-18.27	-14.27	0.04
29	0.849	-1.43	2.57	1.81	74	0.101	-19.91	-15.91	0.03
30	0.840	-1.51	2.49	1.77	75	0.080	-21.94	-17.94	0.02
31	0.829	-1.63	2.37	1.73	76	0.070	-23.10	-19.10	0.01
32	0.818	-1.74	2.26	1.68	77	0.060	-24.44	-20.44	0.01
33	0.807	-1.86	2.14	1.64	78	0.050	-26.02	-22.02	0.01
34	0.796	-1.98	2.02	1.59	79	0.040	-27.96	-23.96	0.00
35	0.785	-2.10	1.90	1.55	80	0.030	-30.46	-26.46	0.00
36	0.775	-2.21	1.79	1.51	81	0.028	-31.06	-27.06	0.00
37	0.765	-2.33	1.67	1.47	82	0.026	-31.70	-27.70	0.00
38	0.755	-2.44	1.56	1.43	83	0.024	-32.40	-28.40	0.00
39	0.745	-2.56	1.44	1.39	84	0.022	-33.15	-29.15	0.00
40	0.735	-2.67	1.33	1.36	85	0.020	-33.98	-29.98	0.00
41	0.722	-2.82	1.18	1.31	86	0.020	-33.98	-29.98	0.00
42	0.710	-2.97	1.03	1.27	87	0.020	-33.98	-29.98	0.00
43	0.697	-3.13	0.87	1.22	88	0.020	-33.98	-29.98	0.00
44	0.685	-3.29	0.71	1.18	89	0.020	-33.98	-29.98	0.00
					90	0.020	-33.98	-29.98	0.00

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 October 7, 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).