

ENGINEERING STATEMENT  
APPLICATION FOR MODIFICATION OF LICENSE  
ON BEHALF OF  
MONTANA STATE UNIVERSITY  
FOR AN EXISTING TELEVISION TRANSLATOR  
KEXI-LP, KALISPELL, MONTANA  
CHANNEL 35 1.0 KW ND ERP 2110.4 METERS RC/AMSL

JULY 2010

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;

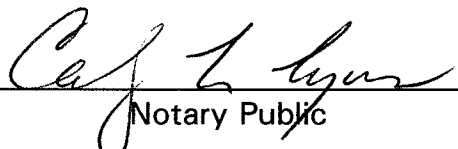
That his qualifications are a matter of record in the Federal Communications Commission;

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

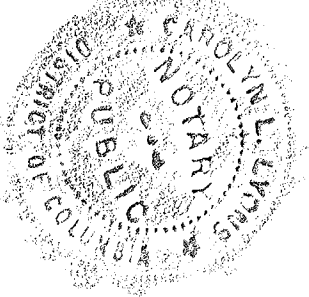
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

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

Subscribed and sworn to before me this 9<sup>th</sup> day of July, 2010.

  
Notary Public

My Commission Expires: 2/28/2013



### INTRODUCTION

This engineering statement has been prepared on behalf of Montana State University, licensee of TV translator KEXI-LP, Kalispell, Montana. This statement supports the licensee's request for modification of license to operate at a 1 kW ERP from that now authorized.

Currently, KEXI-LP is licensed on Channel 35 with 10 kW non-directional at RC/AMSL of 2093 meters. The effective radiated power ("ERP") is 1.0 kW at a radiation center above mean sea level ("RCAMSL") of 2110.4 meters.

### TRANSMITTER SITE

The existing antenna site and the structure will not be significantly altered. The existing site (see Exhibit E-1) is located atop "FAA Peak" north of Whitefish, Montana. The geographic coordinates of the existing site follow below.

North Latitude: 48° 30' 22"

West Longitude: 114° 20' 49"

NAD-27

### EQUIPMENT DATA

Transmitter:	Type-approved
Transmission Line:	Andrew, Type LDF5-50A, 7/8", 36.6 meters (120 feet) with 76.7% efficiency 0.961 dB loss/100 ft
Antenna:	Kathrein-Scala, Type 4DR-4-3HC, with a gain of 3.63 and no electrical beamtilt (see Exhibit E-2)

POWER DATA

Transmitter:	0.359 kW	-4.45 dBk
Transmission Line Efficiency/Loss:	76.7%	-1.15 dB
Input Into Antenna:	0.276 kW	-5.60 dBk
Antenna Gain:	3.63	5.6 dB
ERP:	1 kW	0 dBk

ELEVATION DATA  
(Existing Site)

Elevation of site above mean sea level	2077.8 meters (6817 feet)
Center of radiation of antenna above ground level	32.6 meters (107 feet)
Center of radiation of antenna above mean sea level	2110.4 meters (6924 feet)
Overall height of existing structure above ground	33.5 meters (110 feet)

The antenna will be side-mounted on an existing tower structure.

The proposed structure is less than 200 feet and TOWAIR indicates that the structure does not require aeronautical study of the proposed site.

Allocation

The proposed digital operation on Channel 35 conforms to the requirements of Sections 74.709, 74.793(e), 74.793(g), 74.793(h) 74.794(b) and 73.1030 of the Commission's Rules. The

requirements of these sections regarding this proposed Channel 35 operation are met through demonstration of Longley-Rice prediction methodology as shown in Table I.

The proposed analog television translator 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 KEXI-LP digital television translator station operation has been performed as shown in Table I 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 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 with the [simple emission] mask. 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 2000 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 KEXI-LP digital television translator facilities and all relevant stations listed and pending applications on file with the FCC and included in Table I.

Other Stations

There are no AM stations located within 3.22 km of the existing site. According to the FCC CDBS, there are two FM full-service stations, 2 FM translator stations and one TV translator station located within 100 meters.

Although no adverse technical effects are expected due to the proposed operation, the applicant will take measures to resolve any problems proved to be related to the changes proposed.

Environmental Statement

The RFF contribution of the proposed station will be calculated using the following basic formula:

$$S = \frac{33.4(F^2) \text{ Total ERP}}{R^2}$$

where:

S = power density in  $\mu\text{W}/\text{cm}^2$

F = relative field factor

Total ERP = ERP Horizontal Polarization + ERP Vertical Polarization

R = RCAGL - 2 meters

ERP = RMS ERP in kilowatts for DTV Stations

ERP =  $[0.4\text{ERP}_v + \text{ERP}_a]$  for NTSC Stations

$\text{ERP}_v$  = peak visual ERP in watts

$\text{ERP}_a$  = RMS aural ERP in watts

**KEXI-LP Proposed Operation**

Channel 35	Freq:	596-602 MHz Range
	ERP =	1 kW
	Polarization =	Horizontal
	RCAGL -2 meters =	294 meters

KEXI-LP proposes to use a Kathrein-Scala, Model 4DR-4-3HC antenna with no electrical beam tilt. The manufacturer's vertical plane pattern for this antenna is included as Exhibits E-2. Based on this plot, the field factor will be less than 0.1 at any angle between 80 to 90° below the horizon. A value of 0.1 will be used in the calculation.

$$S = \frac{33.4(F^2) \text{ Total ERP}}{R^2}$$

Tot ERP = 1000 watts (Horizontal)

R = 30.6 meters

F = 0.1 (from manufacturer's data)

$$S = <1 \text{ uW/cm}^2$$

Therefore, the proposed KEXI-LP operation contributes less than 1 uW/cm<sup>2</sup> at 2 meters above ground.

The limit for an uncontrolled environment for this frequency is 399.3 uW/cm<sup>2</sup>.

**The proposed KEXI-LP operation contributes less than 1% RFF level for a controlled environment two meters above the ground.**

The proposed operation, based upon the current OET Bulletin No. 65, Edition 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.

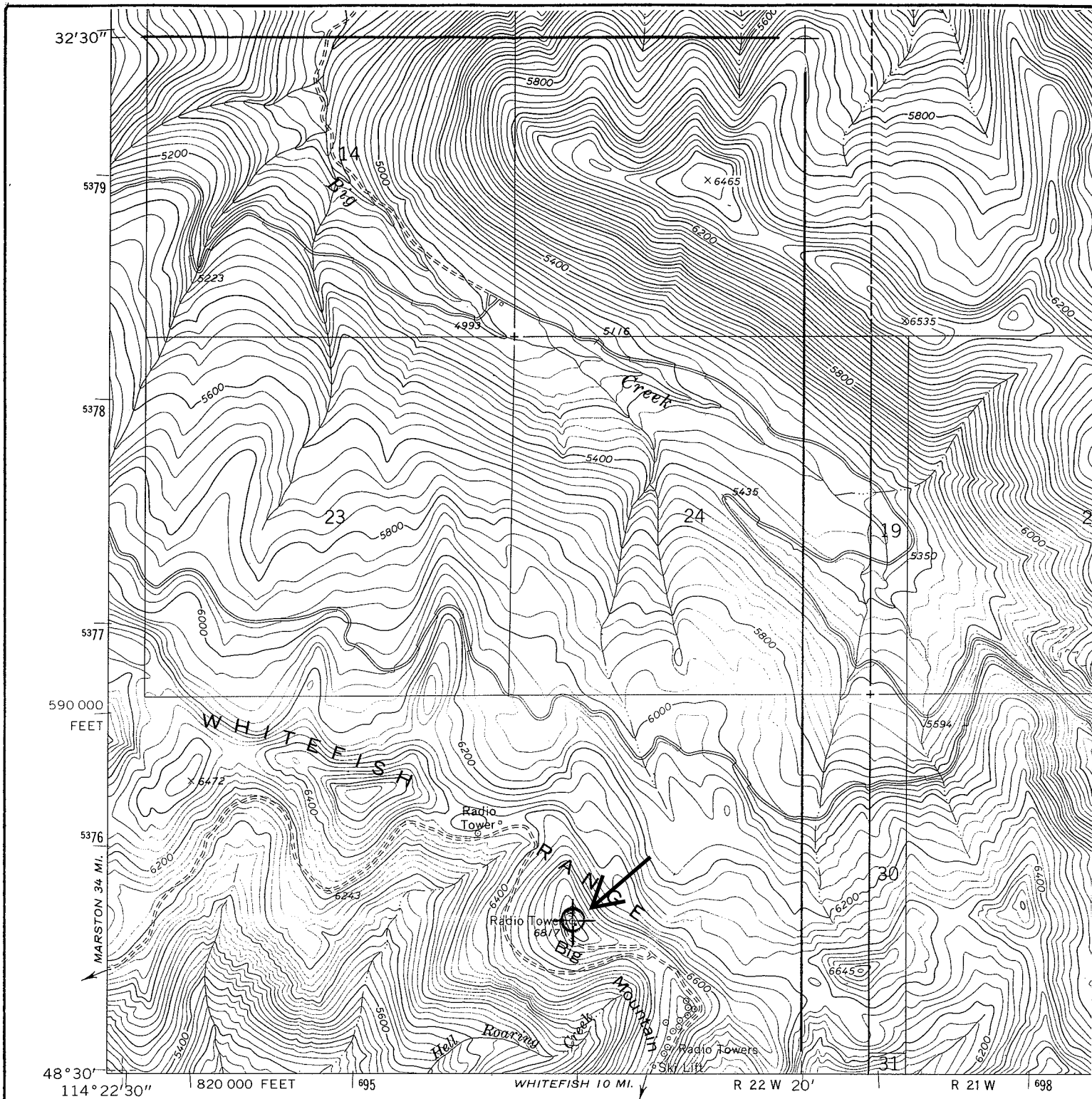
Authorized personnel and rigging contractors will not be subject to the potential zone of high field levels on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

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

- (a)(1) The proposed facilities are not located in an officially designated wilderness area.

- (a)(2) The proposed facilities are 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 located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing support structure is not located near any known Indian religious sites.
- (a)(6) The existing support structure is not located in a flood plain.
- (a)(7) The installation of the proposed antenna facilities on an existing tower will not involve a significant change in surface features of the ground in the vicinity of the building.
- (a)(8) It is not proposed to provide aeronautical painting and lighting.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin 65, Edition 97-01 and Supplement A. Authorized personnel will be alerted to areas of the antennas where potential radiation levels are in excess of the FCC guidelines. A security fence with a locked gate precludes access to the tower site and the site is in a remote location and there are several locked gates on the rural road to the site.





Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1966

Polyconic projection. 1927 North American datum  
10,000-foot grid based on Montana coordinate system,  
north zone

1000-meter Universal Transverse Mercator  
zone 11, shown in blue

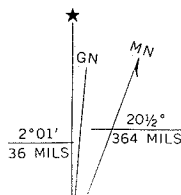
Where omitted land lines have not been shown

To place on the predicted North American Datum 1983

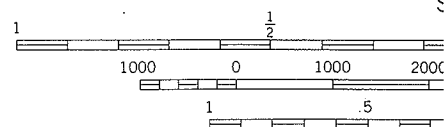
move the projection lines  
71 meters east as shown

There may be private inholdings within the boundaries of

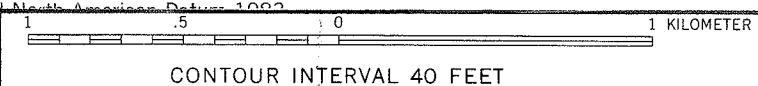
**SKOOKOLEEL CREEK QUADRANGLE**  
MONTANA—FLATHEAD CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



NORTH  
SHEET



CONTOUR  
NATIONAL GEOD



CONTOUR INTERVAL 40 FEET

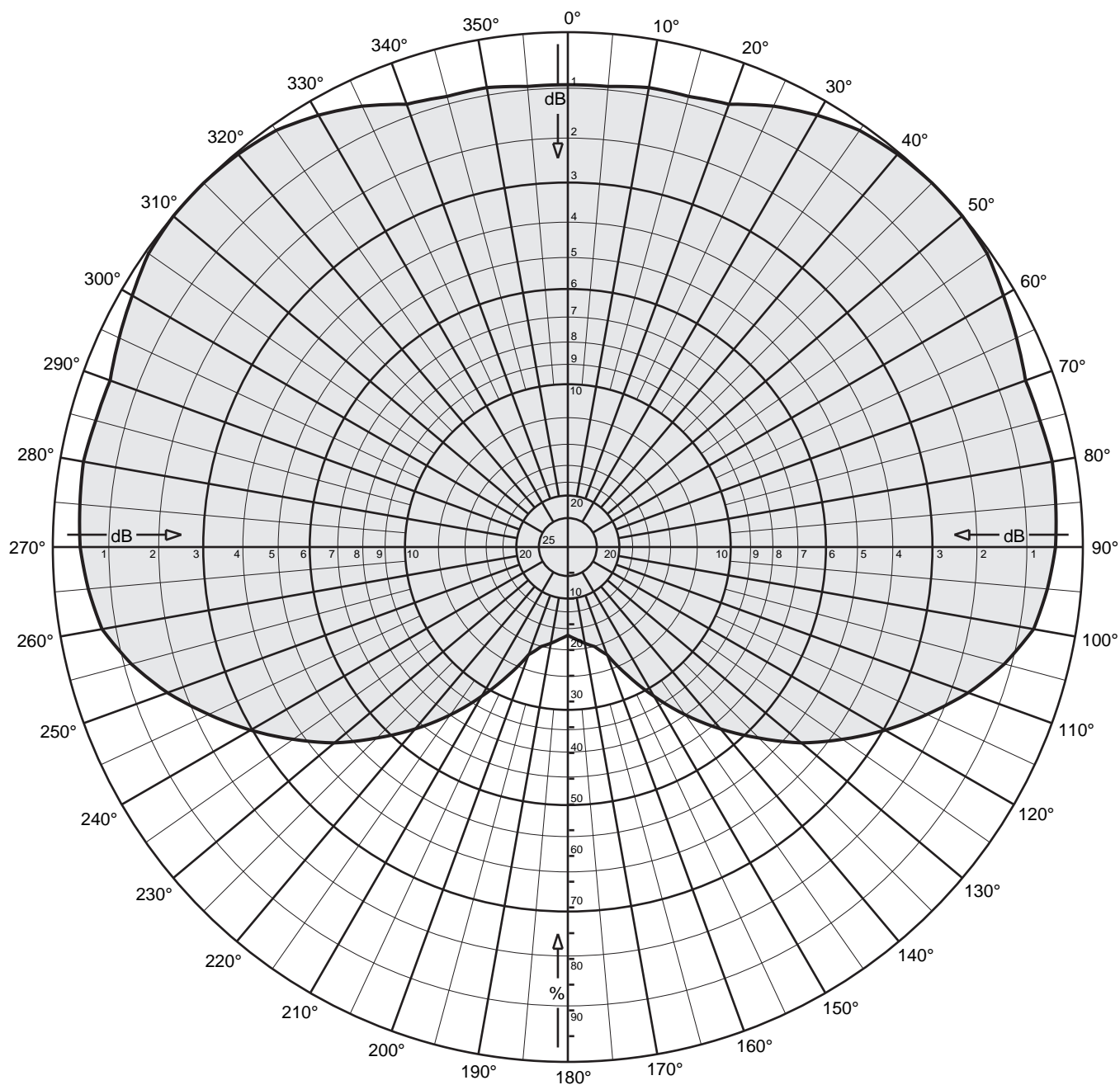
THIS MAP COMPLIES WITH  
THE ACT OF MARCH 3, 1879, AS AMENDED  
BY U. S. GEOLOGICAL SURVEY,  
A FOLDER DESCRIBING TOPOGRAPHIC

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

KEXI-LP, KALISPELL, MONTANA



4DR-4-3HC Panel array

Ch-35

Maximum gain: 5.6 dBd

Horizontal polarization

Horizontal radiation pattern

0 degree electrical downtilt



4DR-4-3HC Panel array  
Ch-35

Maximum gain: 5.6 dBd  
Horizontal polarization

Horizontal radiation pattern  
0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	0.898	-0.93	4.67	2.93	45	1.000	-0.00	5.60	3.63
1	0.898	-0.93	4.67	2.93	46	1.000	-0.00	5.60	3.63
2	0.898	-0.93	4.67	2.93	47	1.000	-0.00	5.60	3.63
3	0.898	-0.93	4.67	2.93	48	1.000	-0.00	5.60	3.63
4	0.898	-0.93	4.67	2.93	49	1.000	-0.00	5.60	3.63
5	0.898	-0.93	4.67	2.93	50	1.000	-0.00	5.60	3.63
6	0.900	-0.92	4.68	2.94	51	0.999	-0.01	5.59	3.62
7	0.901	-0.90	4.70	2.95	52	0.998	-0.02	5.58	3.61
8	0.903	-0.89	4.71	2.96	53	0.996	-0.03	5.57	3.60
9	0.904	-0.87	4.73	2.97	54	0.995	-0.04	5.56	3.60
10	0.906	-0.86	4.74	2.98	55	0.994	-0.05	5.55	3.59
11	0.906	-0.86	4.74	2.98	56	0.991	-0.08	5.52	3.56
12	0.906	-0.86	4.74	2.98	57	0.987	-0.11	5.49	3.54
13	0.906	-0.86	4.74	2.98	58	0.984	-0.14	5.46	3.51
14	0.906	-0.86	4.74	2.98	59	0.980	-0.18	5.42	3.49
15	0.906	-0.86	4.74	2.98	60	0.977	-0.20	5.40	3.46
16	0.908	-0.84	4.76	2.99	61	0.973	-0.23	5.37	3.44
17	0.910	-0.82	4.78	3.01	62	0.971	-0.26	5.34	3.42
18	0.911	-0.81	4.79	3.02	63	0.967	-0.29	5.31	3.40
19	0.913	-0.79	4.81	3.03	64	0.964	-0.31	5.29	3.38
20	0.915	-0.77	4.83	3.04	65	0.961	-0.34	5.26	3.35
21	0.921	-0.71	4.89	3.08	66	0.958	-0.37	5.23	3.33
22	0.927	-0.66	4.94	3.12	67	0.955	-0.40	5.20	3.31
23	0.933	-0.60	5.00	3.16	68	0.952	-0.43	5.17	3.29
24	0.939	-0.55	5.05	3.20	69	0.949	-0.45	5.15	3.27
25	0.945	-0.49	5.11	3.24	70	0.946	-0.48	5.12	3.25
26	0.950	-0.45	5.15	3.28	71	0.947	-0.48	5.12	3.25
27	0.954	-0.41	5.19	3.31	72	0.947	-0.47	5.13	3.26
28	0.959	-0.36	5.24	3.34	73	0.948	-0.47	5.13	3.26
29	0.964	-0.32	5.28	3.37	74	0.948	-0.46	5.14	3.26
30	0.969	-0.28	5.32	3.41	75	0.949	-0.45	5.15	3.27
31	0.972	-0.24	5.36	3.43	76	0.950	-0.44	5.16	3.28
32	0.976	-0.21	5.39	3.46	77	0.951	-0.43	5.17	3.29
33	0.980	-0.18	5.42	3.49	78	0.953	-0.42	5.18	3.30
34	0.984	-0.14	5.46	3.52	79	0.954	-0.41	5.19	3.30
35	0.988	-0.11	5.49	3.54	80	0.955	-0.40	5.20	3.31
36	0.989	-0.09	5.51	3.55	81	0.954	-0.41	5.19	3.31
37	0.991	-0.08	5.52	3.57	82	0.953	-0.41	5.19	3.30
38	0.993	-0.06	5.54	3.58	83	0.953	-0.42	5.18	3.30
39	0.994	-0.05	5.55	3.59	84	0.952	-0.43	5.17	3.29
40	0.996	-0.04	5.56	3.60	85	0.951	-0.44	5.16	3.28
41	0.997	-0.03	5.57	3.61	86	0.950	-0.44	5.16	3.28
42	0.998	-0.02	5.58	3.61	87	0.949	-0.45	5.15	3.27
43	0.998	-0.01	5.59	3.62	88	0.949	-0.46	5.14	3.27
44	0.999	-0.01	5.59	3.62	89	0.948	-0.47	5.13	3.26



4DR-4-3HC Panel array  
Ch-35

Maximum gain: 5.6 dBd  
Horizontal polarization

Horizontal radiation pattern  
0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
90	0.947	-0.47	5.13	3.26	135	0.524	-5.61	-0.01	1.00
91	0.944	-0.50	5.10	3.24	136	0.512	-5.82	-0.22	0.95
92	0.942	-0.52	5.08	3.22	137	0.499	-6.03	-0.43	0.90
93	0.940	-0.54	5.06	3.21	138	0.487	-6.26	-0.66	0.86
94	0.937	-0.56	5.04	3.19	139	0.474	-6.49	-0.89	0.82
95	0.935	-0.59	5.01	3.17	140	0.461	-6.72	-1.12	0.77
96	0.931	-0.62	4.98	3.15	141	0.449	-6.96	-1.36	0.73
97	0.928	-0.65	4.95	3.13	142	0.436	-7.21	-1.61	0.69
98	0.925	-0.68	4.92	3.11	143	0.423	-7.47	-1.87	0.65
99	0.922	-0.71	4.89	3.08	144	0.411	-7.73	-2.13	0.61
100	0.918	-0.74	4.86	3.06	145	0.398	-8.00	-2.40	0.58
101	0.910	-0.82	4.78	3.01	146	0.385	-8.28	-2.68	0.54
102	0.902	-0.90	4.70	2.95	147	0.373	-8.57	-2.97	0.50
103	0.894	-0.97	4.63	2.90	148	0.360	-8.87	-3.27	0.47
104	0.886	-1.05	4.55	2.85	149	0.347	-9.18	-3.58	0.44
105	0.878	-1.13	4.47	2.80	150	0.335	-9.51	-3.91	0.41
106	0.867	-1.24	4.36	2.73	151	0.323	-9.82	-4.22	0.38
107	0.858	-1.33	4.27	2.67	152	0.311	-10.14	-4.54	0.35
108	0.847	-1.44	4.16	2.61	153	0.299	-10.48	-4.88	0.32
109	0.838	-1.54	4.06	2.55	154	0.287	-10.83	-5.23	0.30
110	0.827	-1.65	3.95	2.49	155	0.276	-11.20	-5.60	0.28
111	0.816	-1.77	3.83	2.42	156	0.265	-11.54	-5.94	0.25
112	0.804	-1.89	3.71	2.35	157	0.254	-11.89	-6.29	0.23
113	0.793	-2.02	3.58	2.28	158	0.244	-12.26	-6.66	0.22
114	0.781	-2.15	3.45	2.21	159	0.233	-12.65	-7.05	0.20
115	0.769	-2.28	3.32	2.15	160	0.222	-13.06	-7.46	0.18
116	0.758	-2.41	3.19	2.09	161	0.218	-13.23	-7.63	0.17
117	0.746	-2.54	3.06	2.02	162	0.213	-13.41	-7.81	0.17
118	0.735	-2.68	2.92	1.96	163	0.209	-13.60	-8.00	0.16
119	0.723	-2.82	2.78	1.90	164	0.204	-13.79	-8.19	0.15
120	0.711	-2.96	2.64	1.84	165	0.200	-13.98	-8.38	0.15
121	0.699	-3.11	2.49	1.77	166	0.198	-14.07	-8.47	0.14
122	0.687	-3.26	2.34	1.72	167	0.196	-14.16	-8.56	0.14
123	0.675	-3.41	2.19	1.65	168	0.194	-14.25	-8.65	0.14
124	0.663	-3.57	2.03	1.60	169	0.192	-14.34	-8.74	0.13
125	0.651	-3.73	1.87	1.54	170	0.190	-14.43	-8.83	0.13
126	0.639	-3.89	1.71	1.48	171	0.188	-14.53	-8.93	0.13
127	0.627	-4.05	1.55	1.43	172	0.186	-14.62	-9.02	0.13
128	0.616	-4.22	1.38	1.38	173	0.184	-14.72	-9.12	0.12
129	0.604	-4.38	1.22	1.32	174	0.182	-14.82	-9.22	0.12
130	0.592	-4.56	1.04	1.27	175	0.180	-14.91	-9.31	0.12
131	0.578	-4.76	0.84	1.21	176	0.178	-14.99	-9.39	0.11
132	0.565	-4.96	0.64	1.16	177	0.176	-15.07	-9.47	0.11
133	0.551	-5.17	0.43	1.10	178	0.175	-15.15	-9.55	0.11
134	0.538	-5.39	0.21	1.05	179	0.173	-15.24	-9.64	0.11



4DR-4-3HC Panel array

Ch-35

Maximum gain: 5.6 dBd

Horizontal polarization

Horizontal radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
180	0.171	-15.32	-9.72	0.11	225	0.524	-5.61	-0.01	1.00
181	0.173	-15.24	-9.64	0.11	226	0.538	-5.39	0.21	1.05
182	0.175	-15.15	-9.55	0.11	227	0.551	-5.17	0.43	1.10
183	0.176	-15.07	-9.47	0.11	228	0.565	-4.96	0.64	1.16
184	0.178	-14.99	-9.39	0.11	229	0.578	-4.76	0.84	1.21
185	0.180	-14.91	-9.31	0.12	230	0.592	-4.56	1.04	1.27
186	0.182	-14.82	-9.22	0.12	231	0.604	-4.38	1.22	1.32
187	0.184	-14.72	-9.12	0.12	232	0.616	-4.22	1.38	1.38
188	0.186	-14.62	-9.02	0.13	233	0.627	-4.05	1.55	1.43
189	0.188	-14.53	-8.93	0.13	234	0.639	-3.89	1.71	1.48
190	0.190	-14.43	-8.83	0.13	235	0.651	-3.73	1.87	1.54
191	0.192	-14.34	-8.74	0.13	236	0.663	-3.57	2.03	1.60
192	0.194	-14.25	-8.65	0.14	237	0.675	-3.41	2.19	1.65
193	0.196	-14.16	-8.56	0.14	238	0.687	-3.26	2.34	1.72
194	0.198	-14.07	-8.47	0.14	239	0.699	-3.11	2.49	1.77
195	0.200	-13.98	-8.38	0.15	240	0.711	-2.96	2.64	1.84
196	0.204	-13.79	-8.19	0.15	241	0.723	-2.82	2.78	1.90
197	0.209	-13.60	-8.00	0.16	242	0.735	-2.68	2.92	1.96
198	0.213	-13.41	-7.81	0.17	243	0.746	-2.54	3.06	2.02
199	0.218	-13.23	-7.63	0.17	244	0.758	-2.41	3.19	2.09
200	0.222	-13.06	-7.46	0.18	245	0.769	-2.28	3.32	2.15
201	0.233	-12.65	-7.05	0.20	246	0.781	-2.15	3.45	2.21
202	0.244	-12.26	-6.66	0.22	247	0.793	-2.02	3.58	2.28
203	0.254	-11.89	-6.29	0.23	248	0.804	-1.89	3.71	2.35
204	0.265	-11.54	-5.94	0.25	249	0.816	-1.77	3.83	2.42
205	0.276	-11.20	-5.60	0.28	250	0.827	-1.65	3.95	2.49
206	0.287	-10.83	-5.23	0.30	251	0.838	-1.54	4.06	2.55
207	0.299	-10.48	-4.88	0.32	252	0.847	-1.44	4.16	2.61
208	0.311	-10.14	-4.54	0.35	253	0.858	-1.33	4.27	2.67
209	0.323	-9.82	-4.22	0.38	254	0.867	-1.24	4.36	2.73
210	0.335	-9.51	-3.91	0.41	255	0.878	-1.13	4.47	2.80
211	0.347	-9.18	-3.58	0.44	256	0.886	-1.05	4.55	2.85
212	0.360	-8.87	-3.27	0.47	257	0.894	-0.97	4.63	2.90
213	0.373	-8.57	-2.97	0.50	258	0.902	-0.90	4.70	2.95
214	0.385	-8.28	-2.68	0.54	259	0.910	-0.82	4.78	3.01
215	0.398	-8.00	-2.40	0.58	260	0.918	-0.74	4.86	3.06
216	0.411	-7.73	-2.13	0.61	261	0.922	-0.71	4.89	3.08
217	0.423	-7.47	-1.87	0.65	262	0.925	-0.68	4.92	3.11
218	0.436	-7.21	-1.61	0.69	263	0.928	-0.65	4.95	3.13
219	0.449	-6.96	-1.36	0.73	264	0.931	-0.62	4.98	3.15
220	0.461	-6.72	-1.12	0.77	265	0.935	-0.59	5.01	3.17
221	0.474	-6.49	-0.89	0.82	266	0.937	-0.56	5.04	3.19
222	0.487	-6.26	-0.66	0.86	267	0.940	-0.54	5.06	3.21
223	0.499	-6.03	-0.43	0.90	268	0.942	-0.52	5.08	3.22
224	0.512	-5.82	-0.22	0.95	269	0.944	-0.50	5.10	3.24

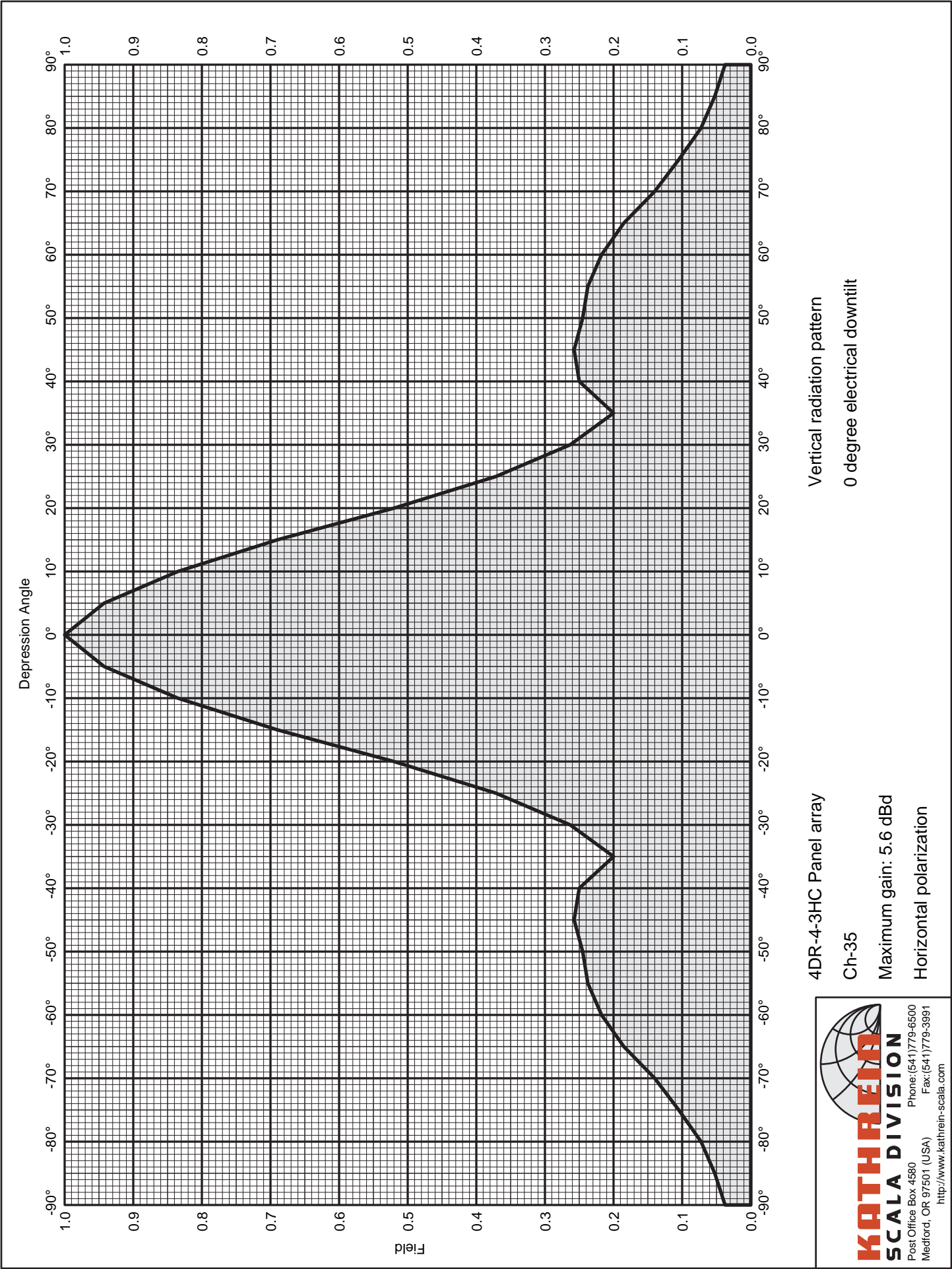


4DR-4-3HC Panel array  
Ch-35

Maximum gain: 5.6 dBd  
Horizontal polarization

Horizontal radiation pattern  
0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.947	-0.47	5.13	3.26	315	1.000	-0.00	5.60	3.63
271	0.948	-0.47	5.13	3.26	316	0.999	-0.01	5.59	3.62
272	0.949	-0.46	5.14	3.27	317	0.998	-0.01	5.59	3.62
273	0.949	-0.45	5.15	3.27	318	0.998	-0.02	5.58	3.61
274	0.950	-0.44	5.16	3.28	319	0.997	-0.03	5.57	3.61
275	0.951	-0.44	5.16	3.28	320	0.996	-0.04	5.56	3.60
276	0.952	-0.43	5.17	3.29	321	0.994	-0.05	5.55	3.59
277	0.953	-0.42	5.18	3.30	322	0.993	-0.06	5.54	3.58
278	0.953	-0.41	5.19	3.30	323	0.991	-0.08	5.52	3.57
279	0.954	-0.41	5.19	3.31	324	0.989	-0.09	5.51	3.55
280	0.955	-0.40	5.20	3.31	325	0.988	-0.11	5.49	3.54
281	0.954	-0.41	5.19	3.30	326	0.984	-0.14	5.46	3.52
282	0.953	-0.42	5.18	3.30	327	0.980	-0.18	5.42	3.49
283	0.951	-0.43	5.17	3.29	328	0.976	-0.21	5.39	3.46
284	0.950	-0.44	5.16	3.28	329	0.972	-0.24	5.36	3.43
285	0.949	-0.45	5.15	3.27	330	0.969	-0.28	5.32	3.41
286	0.948	-0.46	5.14	3.26	331	0.964	-0.32	5.28	3.37
287	0.948	-0.47	5.13	3.26	332	0.959	-0.36	5.24	3.34
288	0.947	-0.47	5.13	3.26	333	0.954	-0.41	5.19	3.31
289	0.947	-0.48	5.12	3.25	334	0.950	-0.45	5.15	3.28
290	0.946	-0.48	5.12	3.25	335	0.945	-0.49	5.11	3.24
291	0.949	-0.45	5.15	3.27	336	0.939	-0.55	5.05	3.20
292	0.952	-0.43	5.17	3.29	337	0.933	-0.60	5.00	3.16
293	0.955	-0.40	5.20	3.31	338	0.927	-0.66	4.94	3.12
294	0.958	-0.37	5.23	3.33	339	0.921	-0.71	4.89	3.08
295	0.961	-0.34	5.26	3.35	340	0.915	-0.77	4.83	3.04
296	0.964	-0.31	5.29	3.38	341	0.913	-0.79	4.81	3.03
297	0.967	-0.29	5.31	3.40	342	0.911	-0.81	4.79	3.02
298	0.971	-0.26	5.34	3.42	343	0.910	-0.82	4.78	3.01
299	0.973	-0.23	5.37	3.44	344	0.908	-0.84	4.76	2.99
300	0.977	-0.20	5.40	3.46	345	0.906	-0.86	4.74	2.98
301	0.980	-0.18	5.42	3.49	346	0.906	-0.86	4.74	2.98
302	0.984	-0.14	5.46	3.51	347	0.906	-0.86	4.74	2.98
303	0.987	-0.11	5.49	3.54	348	0.906	-0.86	4.74	2.98
304	0.991	-0.08	5.52	3.56	349	0.906	-0.86	4.74	2.98
305	0.994	-0.05	5.55	3.59	350	0.906	-0.86	4.74	2.98
306	0.995	-0.04	5.56	3.60	351	0.904	-0.87	4.73	2.97
307	0.996	-0.03	5.57	3.60	352	0.903	-0.89	4.71	2.96
308	0.998	-0.02	5.58	3.61	353	0.901	-0.90	4.70	2.95
309	0.999	-0.01	5.59	3.62	354	0.900	-0.92	4.68	2.94
310	1.000	-0.00	5.60	3.63	355	0.898	-0.93	4.67	2.93
311	1.000	-0.00	5.60	3.63	356	0.898	-0.93	4.67	2.93
312	1.000	-0.00	5.60	3.63	357	0.898	-0.93	4.67	2.93
313	1.000	-0.00	5.60	3.63	358	0.898	-0.93	4.67	2.93
314	1.000	0.00	5.60	3.63	359	0.898	-0.93	4.67	2.93



4DR-4-3HC Panel array  
Ch-35  
Maximum gain: 5.6 dBd  
Horizontal polarization



**KATHREIN**  
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4DR-4-3HC Panel array

Ch-35

Maximum gain: 5.6 dBd

Horizontal polarization

Vertical radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.038	-28.52	-22.92	0.01	-45	0.257	-11.78	-6.18	0.24
-89	0.041	-27.85	-22.25	0.01	-44	0.256	-11.84	-6.24	0.24
-88	0.043	-27.23	-21.63	0.01	-43	0.254	-11.89	-6.29	0.24
-87	0.046	-26.65	-21.05	0.01	-42	0.253	-11.94	-6.34	0.23
-86	0.049	-26.11	-20.51	0.01	-41	0.252	-11.99	-6.39	0.23
-85	0.053	-25.60	-20.00	0.01	-40	0.250	-12.04	-6.44	0.23
-84	0.056	-24.96	-19.36	0.01	-39	0.240	-12.40	-6.80	0.21
-83	0.060	-24.36	-18.76	0.01	-38	0.230	-12.77	-7.17	0.19
-82	0.065	-23.81	-18.21	0.02	-37	0.220	-13.15	-7.55	0.18
-81	0.068	-23.29	-17.69	0.02	-36	0.210	-13.56	-7.96	0.16
-80	0.072	-22.79	-17.19	0.02	-35	0.200	-13.98	-8.38	0.15
-79	0.079	-22.05	-16.45	0.02	-34	0.213	-13.45	-7.85	0.16
-78	0.086	-21.36	-15.76	0.03	-33	0.225	-12.95	-7.35	0.18
-77	0.092	-20.72	-15.12	0.03	-32	0.238	-12.47	-6.87	0.21
-76	0.098	-20.13	-14.53	0.04	-31	0.251	-12.02	-6.42	0.23
-75	0.105	-19.58	-13.98	0.04	-30	0.263	-11.60	-6.00	0.25
-74	0.112	-19.02	-13.42	0.05	-29	0.285	-10.91	-5.31	0.29
-73	0.119	-18.49	-12.89	0.05	-28	0.306	-10.27	-4.67	0.34
-72	0.126	-17.99	-12.39	0.06	-27	0.328	-9.68	-4.08	0.39
-71	0.133	-17.52	-11.92	0.06	-26	0.350	-9.13	-3.53	0.44
-70	0.140	-17.08	-11.48	0.07	-25	0.371	-8.60	-3.00	0.50
-69	0.149	-16.54	-10.94	0.08	-24	0.401	-7.94	-2.34	0.58
-68	0.158	-16.03	-10.43	0.09	-23	0.431	-7.31	-1.71	0.67
-67	0.167	-15.55	-9.95	0.10	-22	0.461	-6.73	-1.13	0.77
-66	0.176	-15.09	-9.49	0.11	-21	0.490	-6.19	-0.59	0.87
-65	0.185	-14.66	-9.06	0.12	-20	0.520	-5.68	-0.08	0.98
-64	0.192	-14.36	-8.76	0.13	-19	0.554	-5.13	0.47	1.11
-63	0.198	-14.07	-8.47	0.14	-18	0.588	-4.61	0.99	1.26
-62	0.205	-13.79	-8.19	0.15	-17	0.622	-4.12	1.48	1.40
-61	0.211	-13.51	-7.91	0.16	-16	0.656	-3.66	1.94	1.56
-60	0.218	-13.25	-7.65	0.17	-15	0.690	-3.22	2.38	1.73
-59	0.222	-13.09	-7.49	0.18	-14	0.719	-2.87	2.73	1.88
-58	0.225	-12.94	-7.34	0.18	-13	0.748	-2.52	3.08	2.03
-57	0.229	-12.78	-7.18	0.19	-12	0.777	-2.19	3.41	2.19
-56	0.234	-12.63	-7.03	0.20	-11	0.806	-1.87	3.73	2.36
-55	0.237	-12.49	-6.89	0.20	-10	0.835	-1.57	4.03	2.53
-54	0.239	-12.43	-6.83	0.21	-9	0.857	-1.35	4.25	2.66
-53	0.241	-12.38	-6.78	0.21	-8	0.878	-1.13	4.47	2.80
-52	0.242	-12.32	-6.72	0.21	-7	0.900	-0.92	4.68	2.94
-51	0.243	-12.27	-6.67	0.22	-6	0.921	-0.71	4.89	3.08
-50	0.245	-12.22	-6.62	0.22	-5	0.942	-0.51	5.09	3.23
-49	0.248	-12.13	-6.53	0.22	-4	0.954	-0.41	5.19	3.30
-48	0.250	-12.04	-6.44	0.23	-3	0.965	-0.30	5.30	3.38
-47	0.252	-11.95	-6.35	0.23	-2	0.977	-0.20	5.40	3.47
-46	0.255	-11.87	-6.27	0.24	-1	0.988	-0.10	5.50	3.55
					0	1.000	0.00	5.60	3.63



4DR-4-3HC Panel array

Ch-35

Maximum gain: 5.6 dBd

Horizontal polarization

Vertical radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	5.60	3.63	45	0.257	-11.78	-6.18	0.24
1	0.988	-0.10	5.50	3.55	46	0.255	-11.87	-6.27	0.24
2	0.977	-0.20	5.40	3.47	47	0.252	-11.95	-6.35	0.23
3	0.965	-0.30	5.30	3.38	48	0.250	-12.04	-6.44	0.23
4	0.954	-0.41	5.19	3.30	49	0.248	-12.13	-6.53	0.22
5	0.942	-0.51	5.09	3.23	50	0.245	-12.22	-6.62	0.22
6	0.921	-0.71	4.89	3.08	51	0.243	-12.27	-6.67	0.22
7	0.900	-0.92	4.68	2.94	52	0.242	-12.32	-6.72	0.21
8	0.878	-1.13	4.47	2.80	53	0.241	-12.38	-6.78	0.21
9	0.857	-1.35	4.25	2.66	54	0.239	-12.43	-6.83	0.21
10	0.835	-1.57	4.03	2.53	55	0.237	-12.49	-6.89	0.20
11	0.806	-1.87	3.73	2.36	56	0.234	-12.63	-7.03	0.20
12	0.777	-2.19	3.41	2.19	57	0.229	-12.78	-7.18	0.19
13	0.748	-2.52	3.08	2.03	58	0.225	-12.94	-7.34	0.18
14	0.719	-2.87	2.73	1.88	59	0.222	-13.09	-7.49	0.18
15	0.690	-3.22	2.38	1.73	60	0.218	-13.25	-7.65	0.17
16	0.656	-3.66	1.94	1.56	61	0.211	-13.51	-7.91	0.16
17	0.622	-4.12	1.48	1.40	62	0.205	-13.79	-8.19	0.15
18	0.588	-4.61	0.99	1.26	63	0.198	-14.07	-8.47	0.14
19	0.554	-5.13	0.47	1.11	64	0.192	-14.36	-8.76	0.13
20	0.520	-5.68	-0.08	0.98	65	0.185	-14.66	-9.06	0.12
21	0.490	-6.19	-0.59	0.87	66	0.176	-15.09	-9.49	0.11
22	0.461	-6.73	-1.13	0.77	67	0.167	-15.55	-9.95	0.10
23	0.431	-7.31	-1.71	0.67	68	0.158	-16.03	-10.43	0.09
24	0.401	-7.94	-2.34	0.58	69	0.149	-16.54	-10.94	0.08
25	0.371	-8.60	-3.00	0.50	70	0.140	-17.08	-11.48	0.07
26	0.350	-9.13	-3.53	0.44	71	0.133	-17.52	-11.92	0.06
27	0.328	-9.68	-4.08	0.39	72	0.126	-17.99	-12.39	0.06
28	0.306	-10.27	-4.67	0.34	73	0.119	-18.49	-12.89	0.05
29	0.285	-10.91	-5.31	0.29	74	0.112	-19.02	-13.42	0.05
30	0.263	-11.60	-6.00	0.25	75	0.105	-19.58	-13.98	0.04
31	0.251	-12.02	-6.42	0.23	76	0.098	-20.13	-14.53	0.04
32	0.238	-12.47	-6.87	0.21	77	0.092	-20.72	-15.12	0.03
33	0.225	-12.95	-7.35	0.18	78	0.086	-21.36	-15.76	0.03
34	0.213	-13.45	-7.85	0.16	79	0.079	-22.05	-16.45	0.02
35	0.200	-13.98	-8.38	0.15	80	0.072	-22.79	-17.19	0.02
36	0.210	-13.56	-7.96	0.16	81	0.068	-23.29	-17.69	0.02
37	0.220	-13.15	-7.55	0.18	82	0.065	-23.81	-18.21	0.02
38	0.230	-12.77	-7.17	0.19	83	0.060	-24.36	-18.76	0.01
39	0.240	-12.40	-6.80	0.21	84	0.056	-24.96	-19.36	0.01
40	0.250	-12.04	-6.44	0.23	85	0.053	-25.60	-20.00	0.01
41	0.252	-11.99	-6.39	0.23	86	0.049	-26.11	-20.51	0.01
42	0.253	-11.94	-6.34	0.23	87	0.046	-26.65	-21.05	0.01
43	0.254	-11.89	-6.29	0.24	88	0.043	-27.23	-21.63	0.01
44	0.256	-11.84	-6.24	0.24	89	0.041	-27.85	-22.25	0.01
					90	0.038	-28.52	-22.92	0.01

COHEN, DIPPELL AND EVERIST, P.C.

TABLE I  
LONGLEY-RICE INTERFERENCE  
FOR THE DIGITAL OPERATION FOR  
KEXI-LP, KALISPELL, MONTANA  
INCLUDES KEXI-LP ANALOG INTERFERENCE  
CHANNEL 35 1 KW MAX ERP 2104 METERS RCAMSL  
JUNE 2010

STRINGENT MASK

N 48° 30' 22"  
W 114° 20' 49"

<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>
28	NEW	KALISPELL MT	36.7	APP	BNPTTL-20000831BKY	No interference
31	NEW	KALISPELL MT	36.7	APP	BNPTTL-20000831BKB	No interference
31	NEW	KALISPELL MT	54.8	APP	BNPTTL-20000829AJP	No interference
31	NEW	KALLISPELL MT	33.2	APP	BNPTTL-20000831BJX	No interference
31	NEW	WHITEFISH MT	0	APP	BNPTT-20000808ADA	No interference
31	NEW	WHITEFISH MT	0	APP	BSTA-20060526ALA	No interference
32	K32HH	BLACKTAIL, ETC. MT	55.1	APP	BSTA-20060330AMA	0.00%
32	K32HH	KALISPELL, BIG FORK MT	55.1	LIC	BLTT-20060630ABJ	0.00%
34	AB-DT-10	BLAIRMORE AB	121.8	AL	CANADA-C1378782	0.00%
34	AB-PT-20	BLAIRMORE AB	121.8	AL	CANADA-1379601NULL	No interference
34	NEW-DT	BLAIRMORE AB	121.7	LIC	BPFS-20040928AAE	No interference
34	VACANT	BLAIRMORE AB	121.7	LIC	BPFS-20080925ACJ	No interference
34	NEW	MULLAN ID	154.4	APP	BNPDTL-20100505AFE	No interference
34	DKMMF-LP	KALISPELL MT	54.7	CP	BDFCDTL-20060331BLG	1.41%
34	DKMMF-LP	KALISPELL MT	36.7	CP	BPTTL-20070530AHX	No interference
34	NEW	KALISPELL MT	36.7	APP	BNPDTL-20100302ABX	0.00%
34	NEW	MISSOULA MT	190.3	APP	BNPDTL-20100505AFT	0.00%
35	AB-DT-14	FORT MACLEOD AB	150.6	AL	CANADA-C1378736	No interference
35	AB-PT-11	FORT MACLEOD AB	150.6	AL	CANADA-1379944NULL	No interference
35	NEW-DT	FORT MACLEOD AB	150.6	LIC	BPFS-20040928ADB	No interference
35	VACANT	FORT MACLEOD AB	150.6	LIC	BPFS-20080930AWI	No interference
35	AB-DT-15	HIGH RIVER AB	233.5	AL	CANADA-C1378747	No interference
35	AB-PT-15	HIGH RIVER AB	233.5	AL	CANADA-1380122NULL	No interference
35	NEW-DT	HIGH RIVER AB	233.5	LIC	BPFS-20040928AJH	No interference

COHEN, DIPPELL AND EVERIST, P.C.

TABLE I  
LONGLEY-RICE INTERFERENCE  
FOR THE DIGITAL OPERATION FOR  
KEXI-LP, KALISPELL, MONTANA  
INCLUDES KEXI-LP ANALOG INTERFERENCE  
CHANNEL 35 1 KW MAX ERP 2104 METERS RCAMSL  
JUNE 2010

STRINGENT MASK

N 48° 30' 22"  
W 114° 20' 49"

<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>
35	VACANT	HIGH RIVER AB	233.5	LIC	BPFS-20080930AXN	No interference
35	BC-DT-10	CASTLEGAR BC	258.8	AL	CANADA-C1378355	No interference
35	BC-PT-33	CASTLEGAR BC	258.8	AL	CANADA-1380836NULL	No interference
35	NEW-DT	CASTLEGAR BC	258.7	APP	BPFS-20040930AAV	No interference
35	VACANT	CASTLEGAR BC	258.7	LIC	BPFS-20081118ADJ	No interference
35	K35IC-D	BONNERS FERRY ID	141	LIC	BLDTL-20090722ABW	No interference
35	K35BW	LEWISTON ID	305.4	CP	BDFCDTT-20081105ABJ	No interference
35	K35BW	LEWISTON ID	305.4	LIC	BLTT-19890203IC	No interference
35	NEW	DEER LODGE MT	263.3	APP	BNPDTL-20100505AGC	No interference
35	K35JT-D	DRUMMOND MT	227.4	CP	BNPDTT-20090831AAW	No interference
35	K35KC-D	GREAT FALLS MT	252.6	CP	BNPDTL-20091230AAL	No interference
35	NEW	WHITEFISH, ETC. MT	54.7	APP	BNPDTT-20090825BPR	10.48%
35	K35BJ	ELLISFORD, ETC. WA	371.3	LIC	BLTTL-19861208ID	0.00%
36	AB-PT-70	CLARESHOLM AB	178.5	AL	CANADA-1379773NULL	0.00%
36	VACANT	CLARESHOLM AB	178.6	LIC	BPFS-20080929AMM	0.00%
36	NEW	ELMO, BIG ARM MT	76.7	APP	BNPDTT-20090825ABA	No interference
36	K36BW	THOMPSON FALLS MT	129.3	CP	BDFCDTL-20070806ABU	No interference
36	K36BW	THOMPSON FALLS MT	129.3	APP	BSTA-20060308ALU	No interference
36	K36BW	THOMPSON FALLS MT	130.2	LIC	BLTTL-19910729IA	No interference
42	KTMF-LP	KALISPELL MT	36.7	APP	BSTA-20071206ACH	No interference
42	KTMF-LP	KALISPELL MT	36.7	LIC	BLTTL-20080813ADW	No interference

### 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.

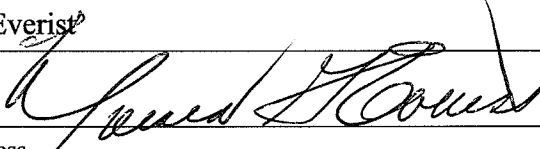
☐ Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies 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 Donald G. Everist		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date July 9, 2010	
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).