

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of CABLE AD NET NEW YORK, INC., licensee of digital Low Power Television Station WYBN-LD, Channel 14 in Cobleskill, New York, in support of its Application for Construction Permit to specify operation from a new site. The licensee was ordered to vacate the present site and is presently operating under silent authority until it can construct at the site proposed herein. As a result, a waiver of the Commission's freeze on the filing of LPTV modification applications is requested and believed to be justified.

It is proposed to mount a directional 8-bay circularly-polarized slotted cylinder antenna at the 39.6-meter level of an existing 54.9-meter communications tower located 43 kilometers north of the presently licensed WYBN-LD site. The proposed effective radiated power for the facility is 10.0 kW in the horizontal and vertical planes. Exhibit B-1 is a map upon which the predicted 51 dBu service contour is plotted. Exhibit B-2 shows the relationship between the presently licensed WYBN-LD service contour and that proposed herein. Clearly, the two service contours overlap and the distance between the two sites is less than 48 kilometers, as required by the Commission for minor-change modification of LPTV stations.

Elevation and azimuth patterns for the proposed antenna are provided in Exhibit C.

Exhibit D is a summary report from a TVStudy interference analysis for the proposed facility. Our study employed a cell size of 0.5 kilometer and increment spacing of 0.1 kilometer. Further the applicant proposes use of a full-service mask filter. The results indicate that the proposed WYBN-LD facility meets the Commission's interference requirements to all present and repacked full-power and low-power co-channel and adjacent-channel television facilities.

EXHIBIT A

In addition, the newly proposed WYBN-LD facility meets the Commission's Rules with respect to protection of the Land Mobile assignment on Channels 14 and 15 in New York, New York. Exhibit E is a map on which we have plotted the co-channel f(50,10) 52 dBu and adjacent-channel 76 dBu interference contours for the instant proposal, along with the protected 130 kilometer arc for the Channel 14 and Channel 15 New York Land Mobile assignments (same arc). As shown, there is significant separation between the proposed interference contours and the protected arc.

A detailed power density calculation is provided in Exhibit F.

Since no change in the overall height or location of the existing tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, due to the diminutive height of the tower and its proximity to the nearest airport runway, FCC tower registration is not required for this structure.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', with a stylized flourish at the end.

KEVIN T. FISHER

April 23, 2018

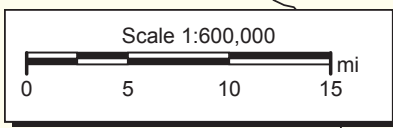
CONTOUR POPULATION  
2015 U.S. CENSUS DATA  
940,516 (427,642 HH)

Smith and Fisher, LLC

51 DBU FCC  
CONTOUR

Proposed Site

EXHIBIT B-1  
PREDICTED SERVICE CONTOUR  
PROPOSED WYBN-LD  
CH. 14 - COBLESKILL, NEW YORK



NOTE : DISTANCE BETWEEN LICENSED  
AND PROPOSED SITES IS 43.3 KILOMETERS

Smith and Fisher, LLC

PROPOSED 51 DBU  
FCC CONTOUR

LICENSED 51 DBU  
FCC CONTOUR

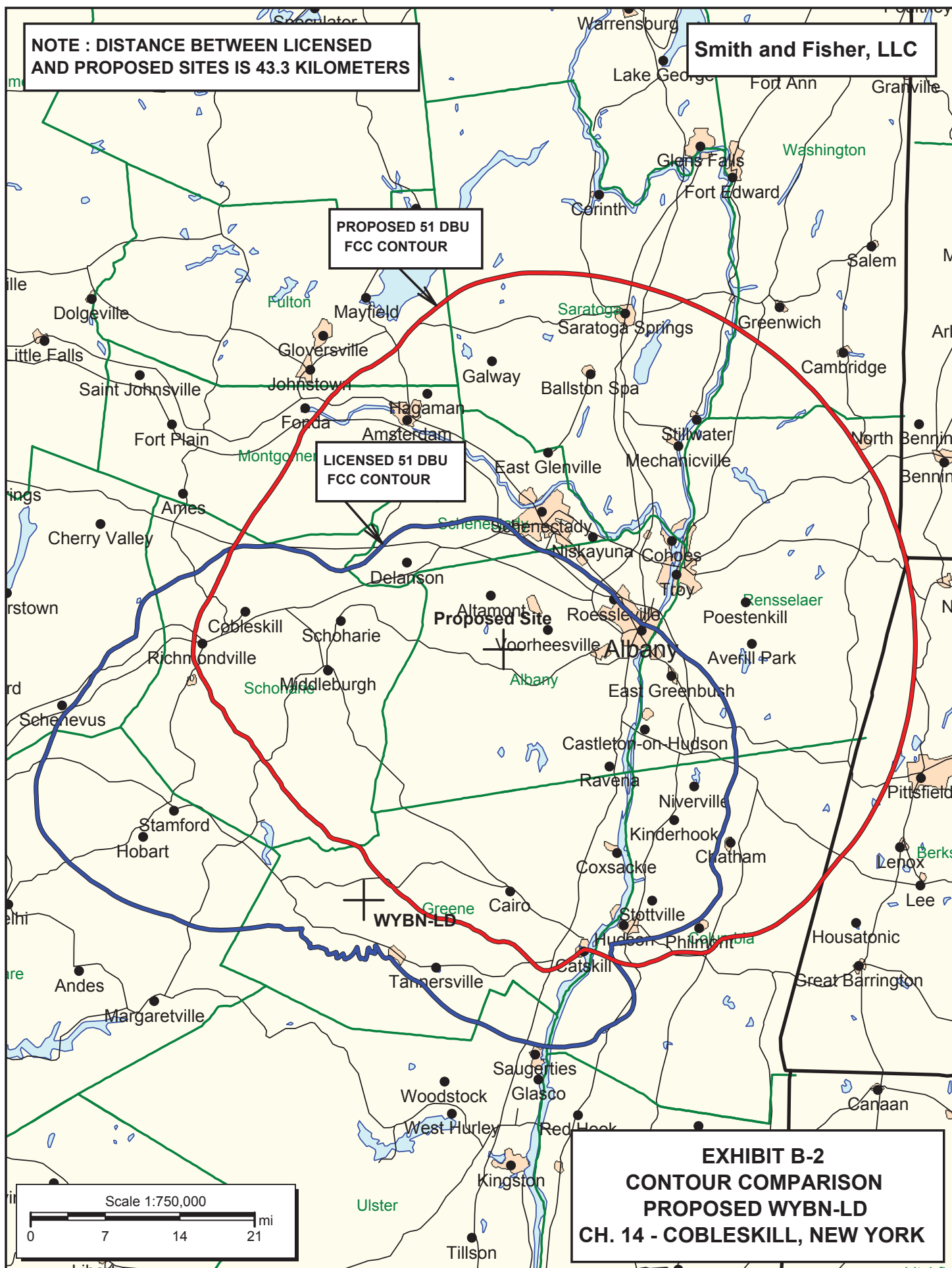
Proposed Site

WYBN-LD

Scale 1:750,000

0 7 14 21 mi

EXHIBIT B-2  
CONTOUR COMPARISON  
PROPOSED WYBN-LD  
CH. 14 - COBLESKILL, NEW YORK



**AZIMUTH PATTERN**

Type: ALP-OC

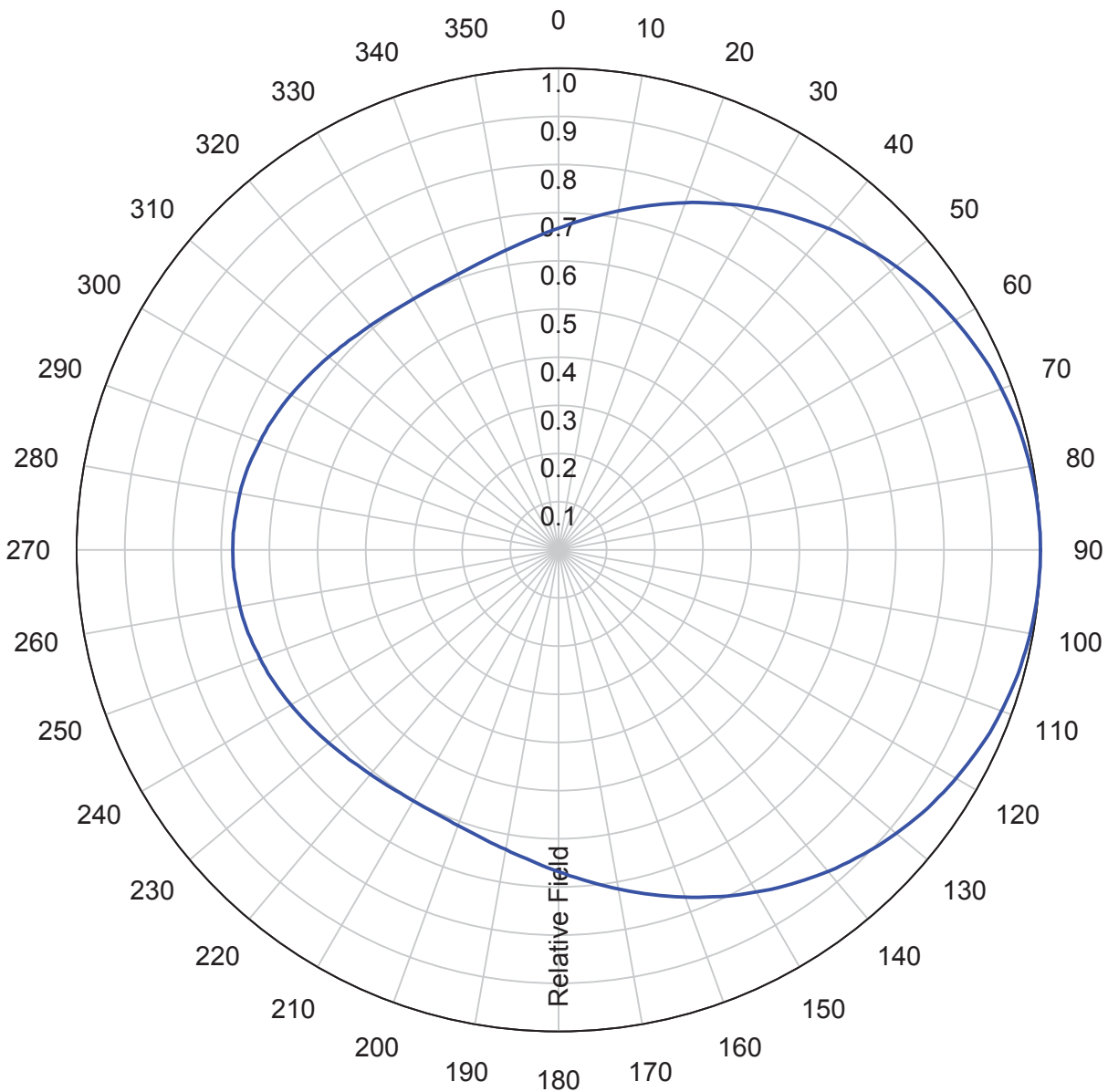
	Numeric	dBd
Directivity:	<u>1.70</u>	<u>2.30</u>
Peak(s) at:		

Channel: 14

Location: \_\_\_\_\_

Polarization: Horizontal

Note: Pattern shape and directivity may vary with channel and mouting configuration.



Preliminary, subject to final design and review.

**TABULATED DATA FOR AZIMUTH PATTERN****Type: ALP-OC****PolarizationHorizontal**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.668	-3.50	92	1.000	0.00	184	0.652	-3.72	276	0.674	-3.43
2	0.677	-3.39	94	0.999	-0.01	186	0.644	-3.82	278	0.673	-3.44
4	0.686	-3.27	96	0.998	-0.02	188	0.638	-3.90	280	0.672	-3.45
6	0.695	-3.16	98	0.996	-0.03	190	0.631	-4.00	282	0.670	-3.48
8	0.705	-3.04	100	0.994	-0.05	192	0.626	-4.07	284	0.668	-3.50
10	0.715	-2.91	102	0.992	-0.07	194	0.621	-4.14	286	0.665	-3.54
12	0.725	-2.79	104	0.989	-0.10	196	0.616	-4.21	288	0.662	-3.58
14	0.735	-2.67	106	0.986	-0.12	198	0.612	-4.26	290	0.659	-3.62
16	0.746	-2.55	108	0.982	-0.16	200	0.609	-4.31	292	0.656	-3.66
18	0.756	-2.43	110	0.978	-0.19	202	0.606	-4.35	294	0.653	-3.70
20	0.767	-2.30	112	0.974	-0.23	204	0.604	-4.38	296	0.649	-3.76
22	0.778	-2.18	114	0.969	-0.27	206	0.603	-4.39	298	0.646	-3.80
24	0.788	-2.07	116	0.963	-0.33	208	0.602	-4.41	300	0.642	-3.85
26	0.799	-1.95	118	0.957	-0.38	210	0.602	-4.41	302	0.638	-3.90
28	0.810	-1.83	120	0.951	-0.44	212	0.602	-4.41	304	0.634	-3.96
30	0.820	-1.72	122	0.945	-0.49	214	0.603	-4.39	306	0.630	-4.01
32	0.831	-1.61	124	0.938	-0.56	216	0.604	-4.38	308	0.627	-4.05
34	0.841	-1.50	126	0.931	-0.62	218	0.606	-4.35	310	0.623	-4.11
36	0.851	-1.40	128	0.923	-0.70	220	0.608	-4.32	312	0.619	-4.17
38	0.861	-1.30	130	0.915	-0.77	222	0.610	-4.29	314	0.616	-4.21
40	0.871	-1.20	132	0.907	-0.85	224	0.613	-4.25	316	0.613	-4.25
42	0.880	-1.11	134	0.898	-0.93	226	0.616	-4.21	318	0.610	-4.29
44	0.889	-1.02	136	0.889	-1.02	228	0.619	-4.17	320	0.608	-4.32
46	0.898	-0.93	138	0.880	-1.11	230	0.623	-4.11	322	0.606	-4.35
48	0.907	-0.85	140	0.871	-1.20	232	0.627	-4.05	324	0.604	-4.38
50	0.915	-0.77	142	0.861	-1.30	234	0.630	-4.01	326	0.603	-4.39
52	0.923	-0.70	144	0.851	-1.40	236	0.634	-3.96	328	0.602	-4.41
54	0.931	-0.62	146	0.841	-1.50	238	0.638	-3.90	330	0.602	-4.41
56	0.938	-0.56	148	0.831	-1.61	240	0.642	-3.85	332	0.602	-4.41
58	0.945	-0.49	150	0.820	-1.72	242	0.646	-3.80	334	0.603	-4.39
60	0.951	-0.44	152	0.810	-1.83	244	0.649	-3.76	336	0.604	-4.38
62	0.957	-0.38	154	0.799	-1.95	246	0.653	-3.70	338	0.606	-4.35
64	0.963	-0.33	156	0.788	-2.07	248	0.656	-3.66	340	0.609	-4.31
66	0.969	-0.27	158	0.778	-2.18	250	0.659	-3.62	342	0.612	-4.26
68	0.974	-0.23	160	0.767	-2.30	252	0.662	-3.58	344	0.616	-4.21
70	0.978	-0.19	162	0.756	-2.43	254	0.665	-3.54	346	0.621	-4.14
72	0.982	-0.16	164	0.746	-2.55	256	0.668	-3.50	348	0.626	-4.07
74	0.986	-0.12	166	0.735	-2.67	258	0.670	-3.48	350	0.631	-4.00
76	0.989	-0.10	168	0.725	-2.79	260	0.672	-3.45	352	0.638	-3.90
78	0.992	-0.07	170	0.715	-2.91	262	0.673	-3.44	354	0.644	-3.82
80	0.994	-0.05	172	0.705	-3.04	264	0.674	-3.43	356	0.652	-3.72
82	0.996	-0.03	174	0.695	-3.16	266	0.675	-3.41	358	0.660	-3.61
84	0.998	-0.02	176	0.686	-3.27	268	0.676	-3.40	360	0.668	-3.50
86	0.999	-0.01	178	0.677	-3.39	270	0.676	-3.40			
88	1.000	0.00	180	0.668	-3.50	272	0.676	-3.40			
90	1.000	0.00	182	0.660	-3.61	274	0.675	-3.41			

*Preliminary, subject to final design and review.*



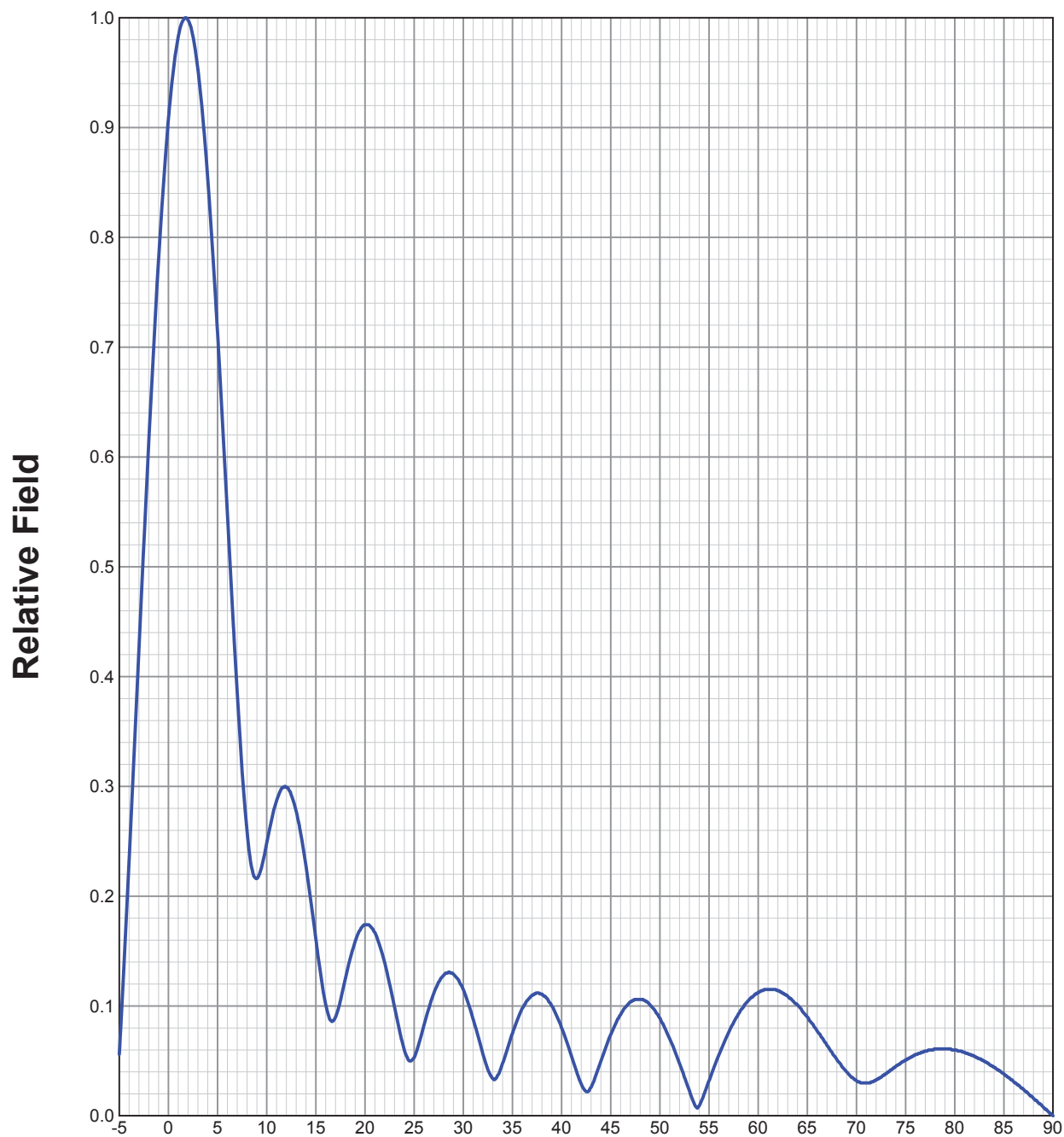
## **TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT**

Type: ALP-OC

PolarizationHorizontal

<b>ANGLE</b>	<b>FIELD</b>	<b>ERP (kW)</b>	<b>ERP (dBk)</b>
0	0.668	4.460	6.493
10	0.715	5.110	7.084
20	0.767	5.880	7.694
30	0.820	6.721	8.274
40	0.871	7.583	8.798
50	0.915	8.368	9.226
60	0.951	9.040	9.561
70	0.978	9.560	9.805
80	0.994	9.876	9.946
90	1.000	9.995	9.998
100	0.994	9.876	9.946
110	0.978	9.560	9.805
120	0.951	9.040	9.561
130	0.915	8.368	9.226
140	0.871	7.583	8.798
150	0.820	6.721	8.274
160	0.767	5.880	7.694
170	0.715	5.110	7.084
180	0.668	4.460	6.493
190	0.631	3.980	5.998
200	0.609	3.707	5.690
210	0.602	3.622	5.590
220	0.608	3.695	5.676
230	0.623	3.879	5.888
240	0.642	4.120	6.149
250	0.659	4.341	6.376
260	0.672	4.514	6.545
270	0.676	4.568	6.597
280	0.672	4.514	6.545
290	0.659	4.341	6.376
300	0.642	4.120	6.149
310	0.623	3.879	5.888
320	0.608	3.695	5.676
330	0.602	3.622	5.590
340	0.609	3.707	5.690
350	0.631	3.980	5.998

*Preliminary, subject to final design and review.*

**ELEVATION PATTERN****Type:****AL8****Channel:****14****Directivity:****Numeric****dBd****Location:****Main Lobe:****8.50****9.29****Beam Tilt:****1.75****Horizontal:****7.01****8.46****Polarization:****Horizontal***Preliminary, subject to final design and review.*



TVSTUDY INTERFERENCE ANALYSIS RESULTS  
 PROPOSED WYBN-LD  
 CHANNEL 14 – COBLESKILL, NEW YORK

Study created: 2018.04.23 11:33:34

Study build station data: LMS TV 2018-04-07

Proposal: WYBN-LD D14 LD LIC COBLESKILL, NY  
 File number: BLDTL20111020AFP  
 Facility ID: 130304  
 Station data: User record  
 Record ID: 178  
 Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W14DA-D	D14-	LD	LIC	HARPSWELL, ME	BLANK0000005014	354.7 km
No	W14DA-D	N14-	TX	LIC	HARPSWELL, ME	BLTTL20090319ACP	354.7
No	WUTV	D14	DT	LIC	BUFFALO, NY	BLCDT20060829BGK	403.3
Yes	WPTZ	D14	DT	LIC	PLATTSBURGH, NY	BLCDT20070116ACW	231.8
Yes	WSYT	D14	DT	CP	SYRACUSE, NY	BLANK0000034354	180.9
No	WSTQ-LP	N14z	TX	LIC	SYRACUSE, NY	BLTTL20030604ABA	182.1
No	WSTQ-LP	D14	LD	CP	SYRACUSE, NY	BDFCDTL20140429AAR	175.5
No	W14CO-D	D14	LD	LIC	CLARKS SUMMIT, ETC., PA	BLDTT20090810AAA	189.1
No	W14DF-D	D14	LD	LIC	ELLIOTTSBURG, PA	BLDTL20100629ALC	369.1
No	W15DV-D	D15	LD	CP	WESTMORELAND, NH	BNPDTL20100514AII	147.4
No	WNYS-TV	D15	DT	CP	SYRACUSE, NY	BLANK0000034501	180.9
No	WSPX-TV	D15	DT	LIC	SYRACUSE, NY	BLCDT20110505ABK	182.1
No	W21CQ	N21+	TX	LIC	BENNINGTON, VT	BLTTL20061201AAG	59.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14  
 Mask: Full Service  
 Latitude: 42 37 39.70 N (NAD83)

Longitude: 74 0 37.80 W  
Height AMSL: 594.9 m  
HAAT: 0.0 m  
Peak ERP: 8.00 kW  
Antenna: WYBN-LD 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.50

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.57 kW	475.4 m	58.1 km
45.0	6.38	500.7	62.4
90.0	8.00	507.0	63.9
135.0	6.38	438.5	60.3
180.0	3.57	207.7	45.6
225.0	3.03	126.4	39.7
270.0	3.66	257.2	48.4
315.0	3.03	218.9	45.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 341 m

Proposal 23.72 dBu contour does not cross Canadian border

Distance to Canadian border: 246.8 km

Distance to Mexican border: 2785.4 km

Conditions at FCC monitoring station: Canandaigua NY

Bearing: 277.9 degrees Distance: 267.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 274.6 degrees Distance: 2602.5 km

\*\*Proposal fails distance check to land mobile station: DUTCHESS NY WQFM363 ch. 14, 126.7 km

\*\*Proposal fails distance check to land mobile station: DUTCHESS NY WQFM363 ch. 15, 126.7 km

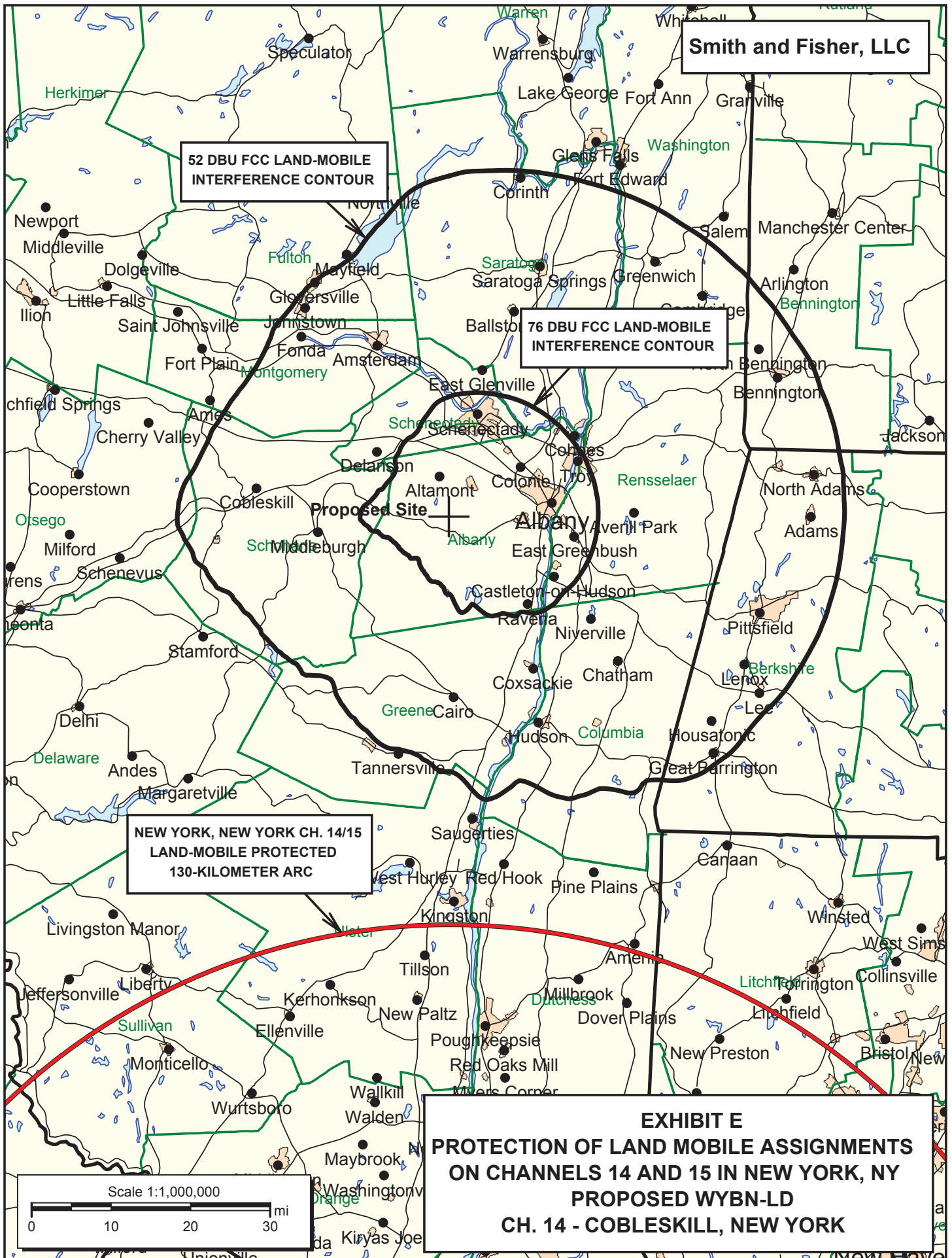
Study cell size: 0.50 km

Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

No IX check failures found.



POWER DENSITY CALCULATION

PROPOSED WYBN-LD  
CHANNEL 14 – COBLESKILL, NEW YORK

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Cobleskill facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 10.0 kW (H, V), an antenna radiation center 39.6 meters above ground, and the specific elevation pattern for the proposed ERI AL8-14-PL antenna, maximum power density two meters above ground of  $0.0048 \text{ mW/cm}^2$  is calculated to occur 20 meters east of the base of the tower. Since this is only 1.6 percent of the  $0.31 \text{ mW/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 14 (470-476 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing radiation.