

Technical Report Supporting a Schedule 318 Minor Change in Licensed Facility Construction Permit Application

Pursuant to 47 C.F.R. Section 73:

*KJFT-LP(FM) - Lincoln, NE
(FACILITY ID: 135606)
CH300L1 (107.9 MHz)*

*Minor Site Change (within 5.6 km)
pursuant to
47 C.F.R. Section 73.870(a)*

November 2019

Asher Broadcast Consulting, LLC
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1(202)875-2986

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EXPLANATION OF PROPOSAL: This Form 318 Filing and accompanying technical report supports a Minor Change in Licensed Facility Construction Permit Application for LPFM Station KJFT-LP(FM) - Lincoln, NE (Facility ID: 135606). This Filing requests a new site location pursuant to 47 C.F.R. Section 73.870(a). Continued operation on CH300L1 (107.9 MHz) with 0.100 kW ERP (circular polarization) at 405.5 meters AMSL is requested. The LPFM Station will remain licensed to the community of Lincoln, NE.

FACILITY COMPLIANCE SHOWINGS: A map of the proposed 60 dBμ service contour has been included in ***Exhibit 1***. The proposed 60 dBμ contour serves a portion of the present 60 dBμ contour as noted in the exhibit.

A Longley-Rice coverage map of the proposed operation has been plotted in ***Exhibit 2***. The applicant acknowledges this map has been provided for illustrative purposes only.

The LPFM facility will be located on a lattice tower extending 12.2 meters (40 ft) above the roof of an existing 17.7 meter (58 ft) building which does not require Antenna Structure Registration. In support of the requested site location, a copy of topographic aerial photomapping for the site coordinates has been included in ***Exhibit 3***. A depiction of the tower and antenna configuration has been included in ***Exhibit 4***. Further notification to the FAA or ASR governing authorities is not required as this proposal will not increase the overall tower height.

The applicant would like to note use of the NED 03 second terrain database for all allocation, contour and HAAT showings contained herein. A copy of the proposed HAAT calculations has been included in ***Exhibit 5***. The calculated HAAT value results in an operational power of 0.100 kW.

ALLOCATION COMPLIANCE SHOWINGS: The proposed Translator remains in compliance with 47 C.F.R. Section 73.807 toward all allocation protection concerns. General allocation details are found in **Exhibit 6**. The proposed facility will remain fully spaced to all allocation concerns, therefore it is believed sufficient clearance exists precluding the need for additional allocation protection showings.

Regarding protection of international concerns, the facility is and will remain more than 320 km from the common border between the United States and Canada or Mexico. As a result, no further international showings are believed required.

INTERFERENCE TO TRANSLATOR OR BOOSTER INPUT SIGNAL SHOWINGS: The applicant certifies there are seven (7) FM Translator or FM Booster facilities operating within a worst case 10 km radius from this proposed CH300L1 LPFM location. However, full compliance with 47 C.F.R. Section 73.827(a-c) has been demonstrated as no ± 3 channel relationship exists (Channel 297 - 300) between the proposed CH300L1 LPFM broadcast channel and any off-air reception for the Translator/Primary operations as noted below.

Call	City	ST	File Number	FacID	Dist(km)	Primary / Feed
K220GT.L	LINCOLN	NE	BLFT-20180405ABT	89520	4.74 km	KFLV(FM) - Channel 210 - via Off-Air
K233AN.L	LINCOLN	NE	BLFT-20120515ABL	146282	4.72 km	KBBK(FM) - Channel 297 - via Other
K255CS.L	LINCOLN	NE	BLFT-20180716ABA	138731	7.94 km	KZLW(FM) - Channel 211 - via Off-Air
K257GN.C	LINCOLN	NE	BNPFT-20171219ABX	200992	4.72 km	KLIN(AM) - 1400 kHz - via Other
K268DF.L	LINCOLN	NE	BLFT-20170616AAT	141262	1.12 km	KLMS(AM) - 1480 kHz - via Other
K277CA.L	LINCOLN	NE	BLFT-20161202ABF	138615	1.12 km	KFOR(AM) - 1240 kHz - via Microwave
K294DJ.L	LINCOLN	NE	BLFT-20190611AAD	156454	4.74 km	KCRO(AM) - 660 kHz - via Other

ENVIRONMENTAL COMPLIANCE SHOWINGS: The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1310 and/or §1.1307(b)(3) of the Commission's rules and the guidelines for RF radiation protection guidelines as set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01). Compliance has been demonstrated in the attached ***RF Appendix 1*** of this filing. The facility is, or will be, properly marked with signs. Entry is, or will be, restricted by means of fencing with locked doors or gates. In addition, coordination with other users of the site will be secured to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Regarding compliance with the NEPA, Nationwide Programmatic Agreement and NHPA Section 106 for tower co-location, compliance with the Agreement is not required for collocation on buildings and non-tower structures as permitted under Part V(A)(1-4). Specifically, compliance is not necessary where only an antenna and feedline are being added to an existing structure, as here. However, should the Commission determine compliance is necessary, upon notification to the applicant, the applicant will file FCC Form 621.

CERTIFICATION OF TECHNICAL CONSULTANT: *I declare, under penalty of perjury, that the contents of this report are true and accurate to the best of my knowledge and belief. I further certify I have over twenty years of experience as a broadcast technical consultant before the Federal Communications Commission ("the FCC"); and am familiar with the Code of Federal Regulations Title 47 ("the Rules") as pertaining to this report and its contents herein. The underlying data utilized in this report was taken directly from FCC databases or indirectly through third party software vendors securing data directly from FCC databases. This firm cannot be held liable for errors or omissions resulting from the underlying data. The information contained herein is believed accurate to the date reported below.*



Justin W. Asher, Technical Consultant
November 11, 2019

Exhibit 1
Service Contour Study:
Present vs Proposed Operations

Present 60 dBμ F(50:50) Contour

Proposed 60 dBμ F(50:50) Contour

KJFT-LP.L

KJFT-LP.P

Lincoln

KJFT-LP.L
Lincoln, NE
BLL20131219EQ
Facility ID: 135606
Latitude: 40-50-32 N
Longitude: 096-39-59.10 W
ERP: 0.10 kW
Channel: 300L1 (107.9 MHz)
AMSL Height: 338.0 m
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 127,596
Total Area: 99.9 sq. km

KJFT-LP.P
Lincoln, NE
Proposed Operation
Facility ID: 135606
Latitude: 40-48-53.60 N
Longitude: 096-38-49.50 W
ERP: 0.10 kW
Channel: 300L1 (107.9 MHz)
AMSL Height: 405.5 m
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 154,876
Total Area: 121.0 sq. km

Terrain

327 452 m

NED 03 SEC Terrain Database
US Census 2010 PL Database
NED 1983 Coordinate Datum

Scale 1:135,000

0 2 4 6 km

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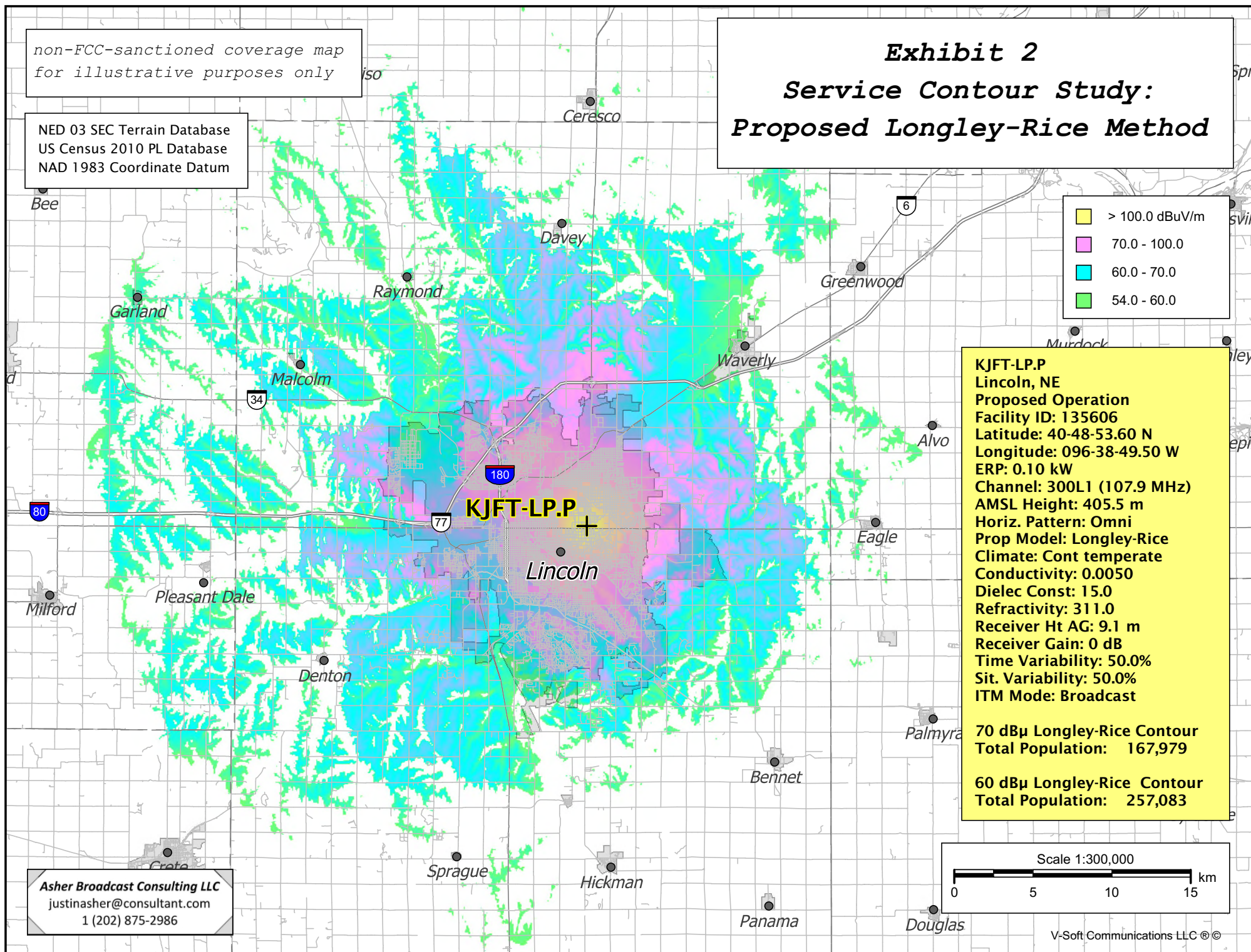
V-Soft Communications LLC ©

non-FCC-sanctioned coverage map
for illustrative purposes only

NED 03 SEC Terrain Database
US Census 2010 PL Database
NAD 1983 Coordinate Datum

Exhibit 2

Service Contour Study: Proposed Longley-Rice Method



The National Map Advanced Viewer

Exhibit 3 *USGS Topographic Aerial* *Photomap of Proposed Site*

#1:1242.59 ft/378.74 m

Site Coordinates

(NGS NADCON)

Latitude

Longitude

NAD 27 datum values: 40 48 53.59697

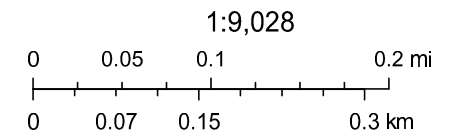
96 38 48.44734

NAD 83 datum values: 40 48 53.60000

96 38 49.50000

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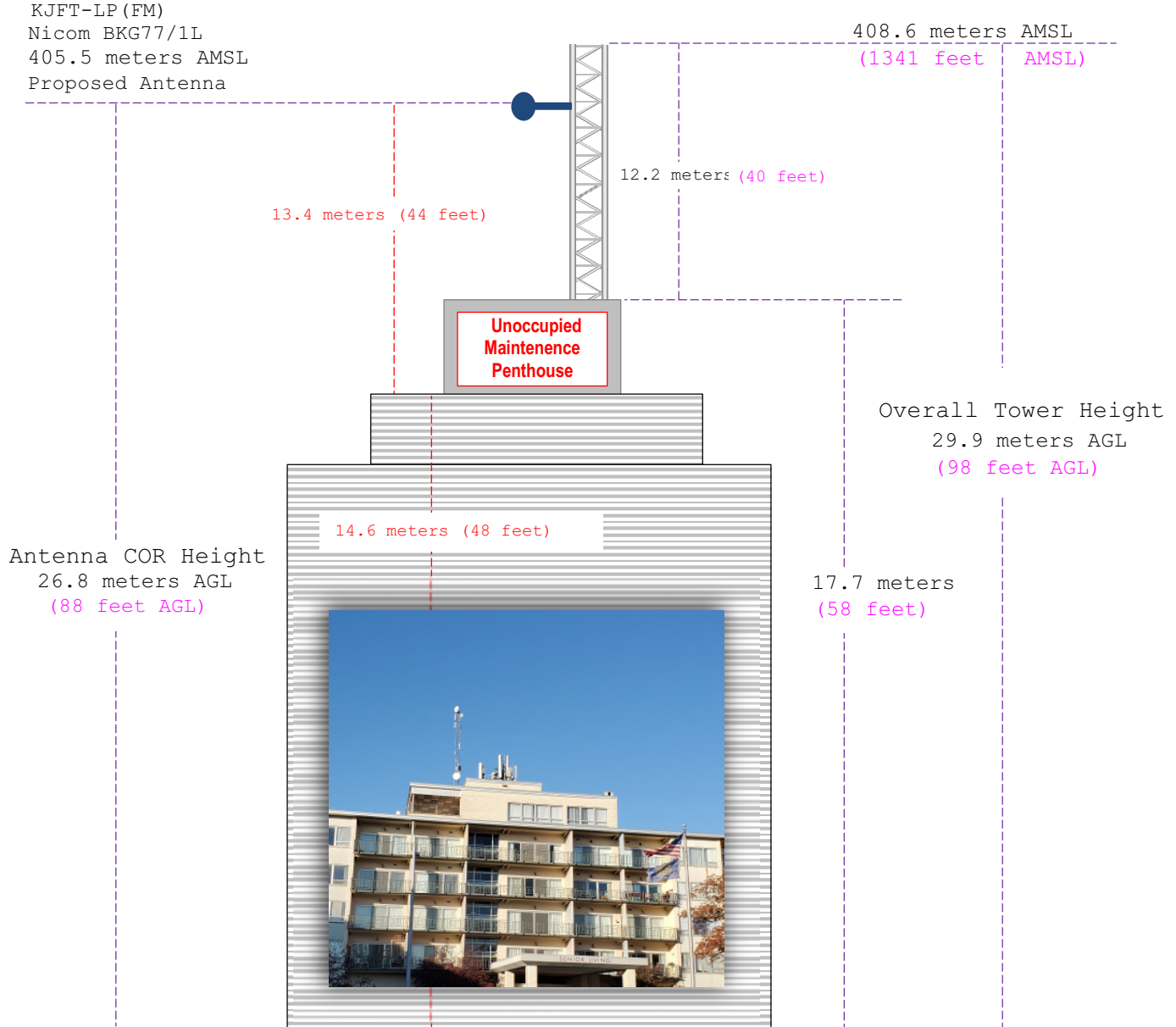


USGS The National Map: Orthoimagery and US Topo. Data refreshed

USGS

Exhibit 4

Vertical Plan of Antenna System



Ground Elevation: 378.7 meters AMSL (1242 feet AMSL)		
Address: Gateway Vista Building - 225 North 56th St.		
City: Lincoln	Latitude (D M S) Longitude (D M S)	
County: Lancaster	NAD 27 datum values: 40 48 53.59697 96 38 48.44734	
State: Nebraska	NAD 83 datum values: 40 48 53.60000 96 38 49.50000	
Antenna Structure Registration Not Required	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

Exhibit 5

HAAT and Miscellaneous Coordinate Information

HAAT Calculation (1983):

N. Lat. = 404853.6 W. Lng. = 963849.5
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	369.4	36.1	0.1000	-10.00	1.000	6.13
045	359.5	46.0	0.1000	-10.00	1.000	6.93
090	389.1	16.4	0.1000	-10.00	1.000	5.64
135	404.3	1.2	0.1000	-10.00	1.000	5.64
180	394.9	10.6	0.1000	-10.00	1.000	5.64
225	371.6	33.9	0.1000	-10.00	1.000	5.95
270	361.1	44.4	0.1000	-10.00	1.000	6.80
315	371.5	34.0	0.1000	-10.00	1.000	5.96

Ave El= 377.69 M HAAT= 27.81 M AMSL= 405.5 M

NAD 1983 to NAD 1927 Conversion:

	<u>Latitude</u>	<u>Longitude</u>
NAD 27 datum values:	40 48 53.59697	96 38 48.44734
NAD 83 datum values:	40 48 53.60000	96 38 49.50000

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	40.8148889°, -096.6470833°
Degrees Minutes	40°48.89333', -096°38.82500'
Degrees Minutes Seconds	40°48'53.6000", -096°38'49.5000"
UTM	14T 698444mE 4520872mN
UTM centimeter	14T 698444.71mE 4520872.39mN
MGRS	14TPL9844420872
Grid North	1.5°
GARS	167LX28
Maidenhead	EN10QT25IN37
GEOREF	FJJL21174889

Exhibit 6

Tabulation of Proposed Allocation Spacings Study

Duo Ministries

REFERENCE	CLASS = L1	DISPLAY DATES
40 48 53.60 N.		DATA 11-07-19
96 38 49.50 W.	Current Spacings to 2nd Adj.	SEARCH 11-07-19
----- Channel 300 - 107.9 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power	HAAT		
KJFT-LP	LIC 300L1	Lincoln	NE 331.9	3.44	23.5	-20.1
40 50 32.0	96 39 59.1		0.100 kW	-36 M		
Duo Ministries						
KIMI	LIC-N 300C3	Humboldt	NE 138.4	86.40	77.5	8.9
40 13 55.0	95 58 18.0	N	6.100 kW	82 M		
Educational Media Foundati						
KIMI	APP 299C3	Malvern	IA 78.4	76.39	66.5	9.9
40 56 55.9	95 45 29.0		13.000 kW	124 M		
Educational Media Foundati						
KGCO-LP	LIC 300L1	Crete	NE 231.7	34.45	23.5	11.0
40 37 22.0	96 58 02.1		0.100 kW	0 M		
Greater Crete Commercial F						
KIMI	APP-N 299A	Ralston	NE 43.3	75.50	55.5	20.0
41 18 24.6	96 01 37.7	N	0.300 kW	310 M		
Educational Media Foundati						
KIMI	RSV-A 299A	Ralston	NE 44.5	79.06	55.5	23.6
41 19 13.0	95 59 04.1		0.000 kW	100 M		
Educational Media Foundati						
KTIC-FM	LIC 300C2	West Point	NE 345.5	122.41	90.5	31.9
41 52 53.0	97 00 59.1		33.000 kW	182 M		
Nebraska Rural Radio Assoc						
KSYZ-FM	LIC 299C1	Grand Island	NE 282.9	179.06	99.5	79.6
41 09 13.0	98 43 38.3		100.000 kW	280 M		
Nrg License Sub, LLC						
KMAJ-FM	LIC 299C1	Carbondale	KS 162.9	215.94	99.5	116.4
38 57 15.0	95 54 44.0		53.000 kW	235 M		
Cumulus Licensing LLC						
KMAJ-FM	APP 299C1	Carbondale	KS 162.9	215.94	99.5	116.4
38 57 15.0	95 54 44.0		99.000 kW	300 M		
Cumulus Licensing LLC						
0000086674						
KKRF	LIC-N 300C3	Stuart	IA 67.6	194.83	77.5	117.3
41 27 40.0	94 29 22.9	N	9.400 kW	150 M		
M&m Broadcasting, Inc.						
BMLH20151203AGY						
KILV	LIC-Z 298C3	Castana	IA 15.5	160.67	39.5	121.2
42 12 26.0	96 07 27.1	Z	25.000 kW	100 M		
Educational Media Foundati						
BLED20021002ACU						

RSV-R = reserved - needs protection, RSV-A = allocation
All separation margins include rounding

Exhibit 7
Copy of Manufacturer's Antenna Documentation
(public record copy)



Your Number 1 Source For Radio And Digital TV Gear

BKG 77

Medium Power Broadband FM Circular Polarization Antenna

TECHNICAL SPECIFICATIONS

Antenna type: circular
polarization: dipole
Front-to-back ratio: 3 dB
Frequency range: 87.5 - 108 MHz
Lightening protection: all parts grounded
Bandwidth: 20 MHz
Max wind velocity: 120 mph (190 km/h)
Impedance: 50 ohms
Wind load: 53 Lbs (24 kg)
Connectors: N type (1 kw) -7/8 type / 7/16DIN(2 kw)
Wind surface: 1.1 ft² (0.10 m²)
Power rating: 2000 Watts max
Materials (external): stainless steel
VSWR: < 1.3
Mounting: from 2" to 4"
Polarization: vertical and horizontal
Weight: 25 Lbs (11.3 kg)
Gain: -3 dBd (referred to half-wave dipole)
Dimensions: 58"x32"x32" (1450×800×800mm)
H plane: omnidirectional ±1.5 dB (with a 4" mast)
V plane: omnidirectional ±3 dB (with a 4" mast)
Packing: 68"×10"×10"



Optional Mini-Radome

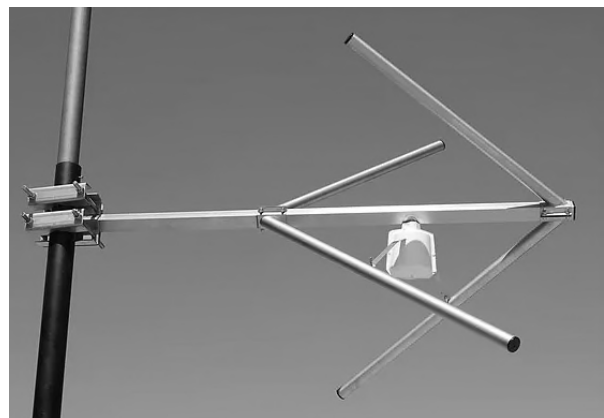


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(public record copy)

BKG77SINGLE.PRJ

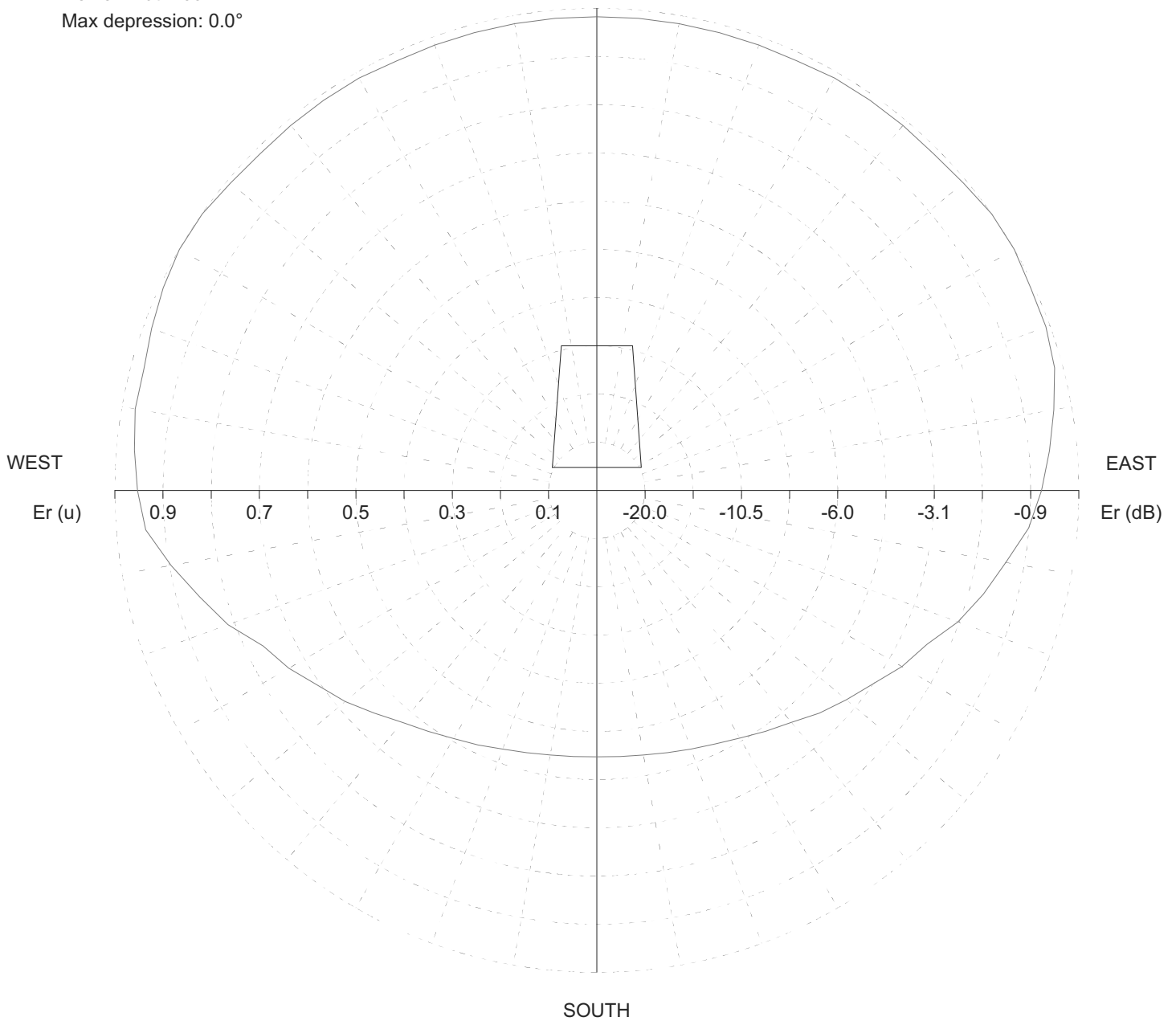
TX station: BKG77-1
Frequency: 100.00 MHz

Site name:

Horizontal diagram of Maxima

NORTH

Max azimuth: 60°
Max depression: 0.0°



—— 0.0° depres. (Total antenna), Gain (dBd): -3.03 ERP T.max (KW): 0.498

ERP E.max (KW): 0.387

NicomUsa, Inc

Exhibit 7

Copy of Manufacturer's Antenna Documentation

(public record copy)

BKG77SINGLE.PRJ

TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	98.3	373.6	120.0	0.0	73.1	206.6	240.0	0.0	73.8	210.7
5.0	0.0	98.3	373.6	125.0	0.0	69.9	189.2	245.0	0.0	76.4	225.7
10.0	0.0	98.3	373.6	130.0	0.0	67.6	176.7	250.0	0.0	81.5	256.6
15.0	0.0	98.3	373.6	135.0	0.0	65.3	165.1	255.0	0.0	85.3	281.6
20.0	0.0	98.3	373.6	140.0	0.0	62.8	152.7	260.0	0.0	89.7	311.1
25.0	0.0	98.3	373.6	145.0	0.0	61.0	144.0	265.0	0.0	93.9	341.1
30.0	0.0	98.8	377.5	150.0	0.0	59.4	136.3	270.0	0.0	95.3	351.1
35.0	0.0	98.8	377.5	155.0	0.0	58.0	130.3	275.0	0.0	96.3	358.5
40.0	0.0	98.8	377.5	160.0	0.0	57.1	126.1	280.0	0.0	97.3	366.1
45.0	0.0	98.8	377.5	165.0	0.0	56.3	122.8	285.0	0.0	97.3	366.1
50.0	0.0	99.2	380.8	170.0	0.0	55.8	120.3	290.0	0.0	98.3	373.6
55.0	0.0	100.0	386.5	175.0	0.0	55.4	118.7	295.0	0.0	99.3	381.4
60.0	0.0	100.0	386.7	180.0	0.0	55.3	118.2	300.0	0.0	100.0	386.7
65.0	0.0	99.3	381.4	185.0	0.0	55.4	118.7	305.0	0.0	100.0	386.5
70.0	0.0	99.1	380.0	190.0	0.0	55.8	120.3	310.0	0.0	99.2	380.8
75.0	0.0	98.3	373.6	195.0	0.0	56.3	122.8	315.0	0.0	98.8	377.5
80.0	0.0	96.3	358.5	200.0	0.0	57.1	126.1	320.0	0.0	98.8	377.5
85.0	0.0	94.3	343.8	205.0	0.0	58.3	131.4	325.0	0.0	98.8	377.5
90.0	0.0	92.3	329.3	210.0	0.0	59.4	136.5	330.0	0.0	98.8	377.5
95.0	0.0	90.0	312.9	215.0	0.0	61.0	144.0	335.0	0.0	98.3	373.6
100.0	0.0	86.2	287.1	220.0	0.0	62.8	152.7	340.0	0.0	98.3	373.6
105.0	0.0	83.0	266.7	225.0	0.0	65.3	165.1	345.0	0.0	98.3	373.6
110.0	0.0	79.7	245.9	230.0	0.0	68.2	179.6	350.0	0.0	98.3	373.6
115.0	0.0	75.6	221.0	235.0	0.0	70.6	192.7	355.0	0.0	98.3	373.6

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Copy of Manufacturer's Antenna Documentation
(public record copy)

BKG77SINGLE.PRJ

TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

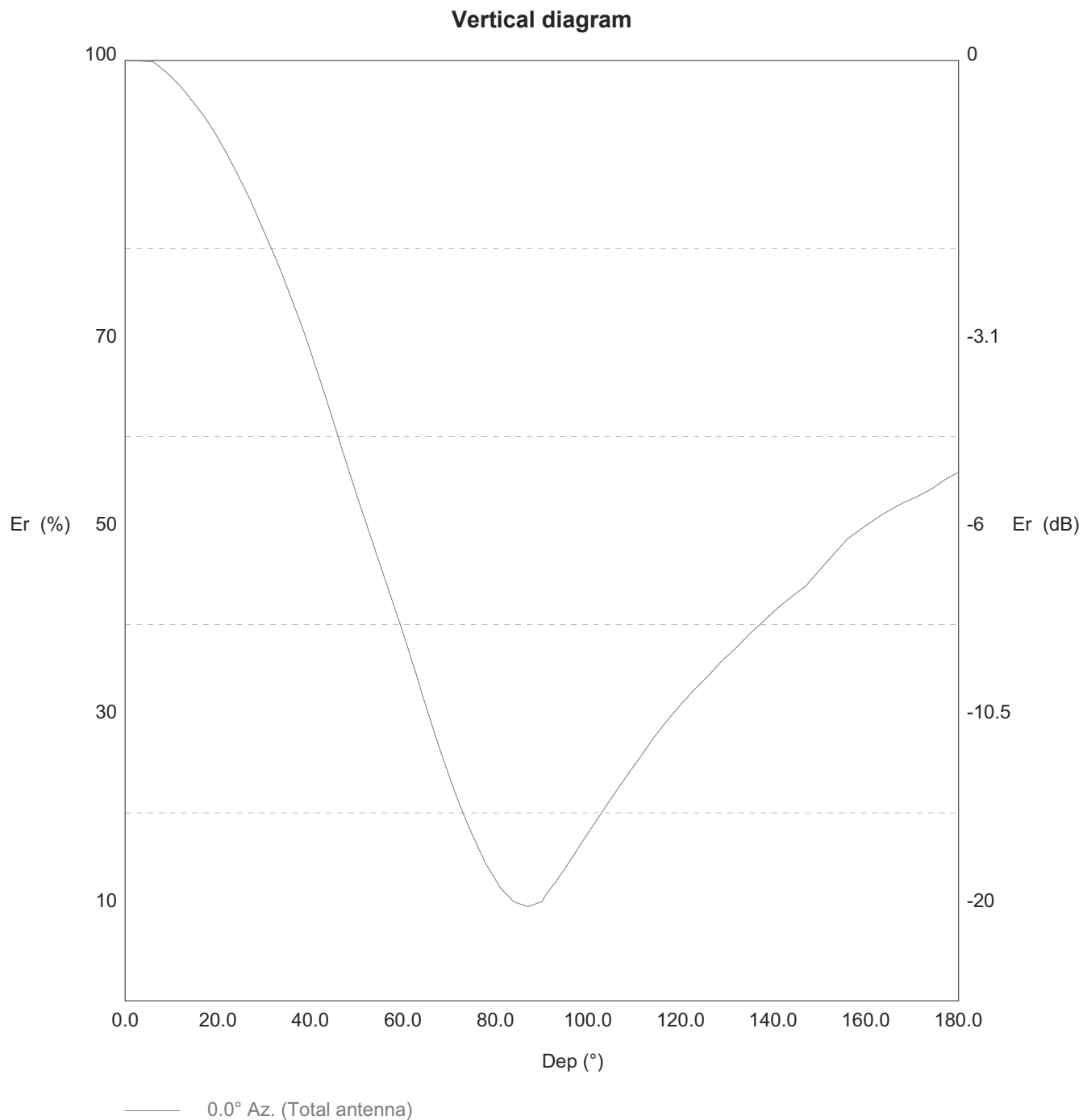


Exhibit 7

Copy of Manufacturer's Antenna Documentation

(public record copy)

BKG77SINGLE.PRJ

TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	373.6	60.0	39.1	57.2	120.0	31.5	37.0
1.0	100.0	373.5	61.0	37.6	52.8	121.0	32.0	38.3
2.0	100.0	373.4	62.0	36.1	48.6	122.0	32.6	39.6
3.0	99.9	373.3	63.0	34.5	44.6	123.0	33.1	41.0
4.0	99.9	373.1	64.0	32.9	40.5	124.0	33.6	42.2
5.0	99.9	372.9	65.0	31.3	36.6	125.0	34.1	43.5
6.0	99.9	372.8	66.0	29.7	33.0	126.0	34.6	44.7
7.0	99.5	369.9	67.0	28.2	29.8	127.0	35.2	46.2
8.0	99.1	367.0	68.0	26.8	26.8	128.0	35.7	47.6
9.0	98.7	364.1	69.0	25.3	23.9	129.0	36.2	49.1
10.0	98.2	360.5	70.0	23.9	21.3	130.0	36.7	50.3
11.0	97.7	356.9	71.0	22.5	18.9	131.0	37.1	51.5
12.0	97.2	353.3	72.0	21.1	16.6	132.0	37.6	52.7
13.0	96.6	348.9	73.0	19.9	14.8	133.0	38.1	54.1
14.0	96.0	344.5	74.0	18.8	13.2	134.0	38.6	55.6
15.0	95.4	340.1	75.0	17.6	11.6	135.0	39.1	57.0
16.0	94.7	335.4	76.0	16.6	10.2	136.0	39.5	58.4
17.0	94.1	330.8	77.0	15.5	9.0	137.0	40.0	59.7
18.0	93.4	326.1	78.0	14.5	7.8	138.0	40.4	61.1
19.0	92.6	320.4	79.0	13.7	7.0	139.0	40.9	62.5
20.0	91.8	314.7	80.0	12.9	6.2	140.0	41.4	63.9
21.0	91.0	309.1	81.0	12.0	5.4	141.0	41.8	65.3
22.0	90.0	302.7	82.0	11.5	5.0	142.0	42.2	66.5
23.0	89.1	296.5	83.0	11.0	4.5	143.0	42.6	67.8
24.0	88.1	290.3	84.0	10.5	4.1	144.0	43.0	69.0
25.0	87.2	283.8	85.0	10.3	4.0	145.0	43.4	70.3
26.0	86.2	277.4	86.0	10.2	3.9	146.0	43.8	71.6
27.0	85.2	271.1	87.0	10.0	3.7	147.0	44.1	72.8
28.0	84.0	263.9	88.0	10.2	3.9	148.0	44.7	74.7
29.0	82.9	256.8	89.0	10.4	4.0	149.0	45.3	76.5
30.0	81.8	249.8	90.0	10.5	4.1	150.0	45.8	78.4
31.0	80.6	242.9	91.0	11.4	4.8	151.0	46.4	80.3
32.0	79.5	236.1	92.0	12.0	5.4	152.0	46.9	82.3
33.0	78.3	229.3	93.0	12.7	6.0	153.0	47.5	84.3
34.0	77.1	222.0	94.0	13.4	6.7	154.0	48.0	86.2
35.0	75.8	214.7	95.0	14.1	7.4	155.0	48.6	88.2
36.0	74.5	207.6	96.0	14.8	8.2	156.0	49.1	90.2
37.0	73.2	200.4	97.0	15.6	9.1	157.0	49.5	91.5
38.0	71.9	193.3	98.0	16.4	10.0	158.0	49.8	92.8
39.0	70.6	186.3	99.0	17.1	11.0	159.0	50.2	94.1
40.0	69.1	178.6	100.0	17.9	11.9	160.0	50.5	95.4
41.0	67.6	170.9	101.0	18.6	12.9	161.0	50.9	96.8
42.0	66.1	163.5	102.0	19.3	13.9	162.0	51.2	98.1
43.0	64.6	156.0	103.0	20.1	15.0	163.0	51.5	99.2
44.0	63.1	148.7	104.0	20.8	16.2	164.0	51.8	100.4
45.0	61.6	141.6	105.0	21.5	17.3	165.0	52.1	101.6
46.0	60.0	134.4	106.0	22.3	18.5	166.0	52.4	102.7
47.0	58.4	127.5	107.0	23.0	19.7	167.0	52.7	103.7
48.0	56.8	120.7	108.0	23.7	21.0	168.0	53.0	104.8
49.0	55.3	114.4	109.0	24.4	22.2	169.0	53.2	105.7
50.0	53.8	108.2	110.0	25.1	23.5	170.0	53.4	106.5
51.0	52.3	102.2	111.0	25.7	24.8	171.0	53.6	107.4
52.0	50.8	96.6	112.0	26.5	26.2	172.0	53.9	108.4
53.0	49.4	91.1	113.0	27.2	27.6	173.0	54.1	109.4
54.0	47.9	85.8	114.0	27.9	29.0	174.0	54.4	110.5
55.0	46.5	80.7	115.0	28.5	30.4	175.0	54.7	111.9
56.0	45.0	75.7	116.0	29.2	31.8	176.0	55.1	113.3
57.0	43.6	71.0	117.0	29.8	33.1	177.0	55.4	114.7
58.0	42.1	66.2	118.0	30.4	34.4	178.0	55.7	115.9
59.0	40.6	61.6	119.0	30.9	35.7	179.0	56.0	117.0

RF Appendix 1

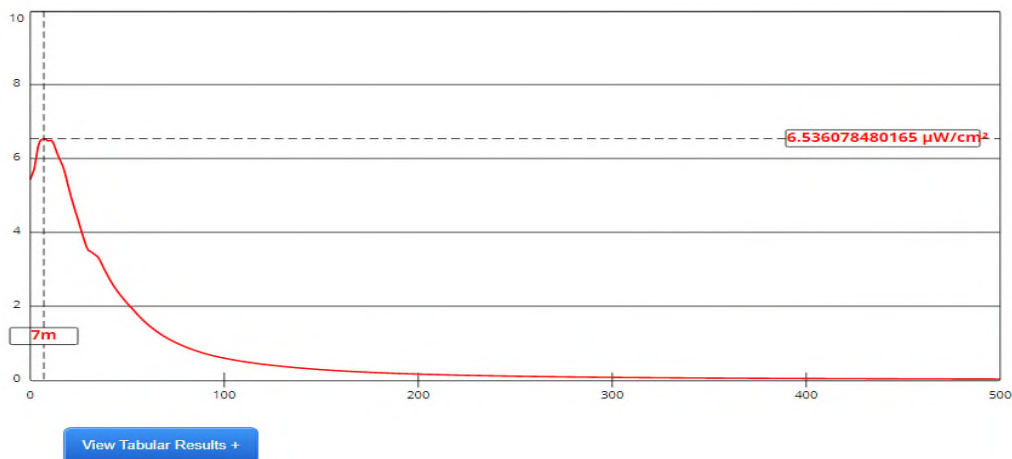
Compliance with Radiofrequency Radiation Guidelines

The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1310 of the Commission's rules and the guidelines for RF radiation protection guidelines as set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01). The site is intended to house this single transmitter, therefore the potential for human exposure to non-ionizing radiofrequency radiation has been evaluated with regard to §1.1310 utilizing the Commission's own FM Model web-based software application. The use and implementation of this FCC sanctioned software is a matter of record before the Commission.

The maximum permissible uncontrolled limit $200 \mu\text{W}/\text{cm}^2$. The maximum permissible controlled limit is $1000 \mu\text{W}/\text{cm}^2$. Therefore single contributions of $\leq 200 \mu\text{W}/\text{cm}^2$ remain within the tolerances as allowed by §1.1310 and its governing OET Bulletin No. 65 (Edition 97-01) for the more restrictive of these two protections.

The proposed KJFT-LP(FM).P - Lincoln, NE analog LPFM station (Facility ID: 135606) will operate on CH300D (107.9 MHz) with 0.100 kW ERP circular polarization (H&V). The proposed operation will broadcast from an antenna COR mounted 26.8 meters above ground level (AGL) atop a restricted access roof. For purposes of this RF Compliance Study, a worst case one bay EPA Type 1 element as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016) has been assumed. This facility will not operate with HD/IBOC facilities at this time.

The results of the evaluation for the FM station have been shown at the end of this RF compliance discussion. To ensure complete protection, the maximum FM contribution has been assumed without regard to any restricted access fencing distance. In addition, the facility is, or will be, properly marked with signs. Entry is, or will be, restricted by means of fencing with locked doors or gates. Furthermore, coordination with other users of the site will be secured to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.



Channel Selection	Channel 300 (107.9 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	26.8	Distance (m)	500
ERP-H (W)	100	ERP-V (W)	100
Num of Elements	1	Element Spacing (λ)	1
Num of Points	500	Apply	