

# Technical Report Supporting a Minor Modification of a Licensed Facility Construction Permit Application

Pursuant to 47 C.F.R. Section 73

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*WDZD-LP(FM) - Monroe, NC  
(FACILITY ID: 195459)  
CH256L1(99.1 MHz) to CH255L1(98.9 MHz)*

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*Minor Site Change Pursuant to  
47 C.F.R. Section 73.870(a);  
Minor Frequency Change Pursuant to  
47 C.F.R. Section 73.870(a)(1);  
& Waiver of 47 C.F.R. Section 73.811(a)  
for use of the Globe 1 km (FCC) database in  
calculation of the HAAT*

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## **Supplemental Appendix(s):**

RF Appendix 1 - Radio Frequency Radiation Compliance Showing

**EXPLANATION OF PROPOSAL:** This LMS Schedule 318 Filing and accompanying technical report supports a Minor Modification of a Licensed Facility Construction Permit Application for LPFM Station WDZD-LP(FM) - Monroe, NC (Facility ID: 195459). This Filing requests a new site location pursuant to 47 C.F.R. Section 73.870(a). Operation on the new frequency of CH255L1 (98.9 MHz) is requested pursuant to 47 C.F.R. Section 73.870(a)(1). *An operating power of 35 watts ERP (circular polarization) at 244.1 meters AMSL is requested in conjunction with a waiver request of 47 C.F.R. Section 73.811(a) for use of the Globe 1 km (FCC) terrain database in calculating the 50 meter HAAT value.* The LPFM Station will remain licensed to the community of Monroe, NC.

**FACILITY COMPLIANCE SHOWINGS:** A map of the proposed 60 dBμ service contour has been included in **Exhibit 1**. The proposed 60 dBμ service contour serves a portion of the present 60 dBμ service 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 proposed facility will be located on the tower bearing Antenna Structure Registration Number 1306551. In support of this filing, a copy of the ASRN 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 FCC's own Globe 1 km terrain database for HAAT showings contained herein (<https://www.fcc.gov/media/radio/haat-calculator>). A copy of the proposed HAAT calculation has been included in **Exhibit 5**. *In this instance, a waiver of 47 C.F.R. Section 73.811(a) is respectfully requested concerning use of the Globe 1 km terrain database for calculation of the HAAT value. Pursuant to the procedures as detailed in 47 C.F.R. Section 73.313(d), an HAAT value of 50 meters is returned utilizing the Globe 1 km terrain database. This calculated HAAT value results in an operational power of 35 watts ERP.*

**ALLOCATION COMPLIANCE SHOWINGS:** The proposed LPFM Station remains in compliance with 47 C.F.R. Section 73.807 toward all allocation spacings. General allocation details are found in **Exhibit 6**. As the proposed facility remains fully spaced toward all concerns, 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 five (5) FM Translator or FM Booster facilities operating within a worst case 10 km radius from this proposed CH255L1 LPFM location. However, full compliance with 47 C.F.R. Section 73.827(a-c) has been demonstrated as no  $\pm 3$  channel relationship exists (Channel(s) 252 - 258) between the proposed CH255L1 LPFM broadcast channel and any off-air reception for the Translator/Booster to Primary operations as noted below.

Call	City	ST	File Number	FacID	Dist(km)	Primary / Feed
W201DI.L	MONROE	NC	BLFT-20091204ADK	122755	3.46 km	WOTJ(FM) - Channel 214 - via Satellite
W226CD.L	MONROE	NC	BLFT-20160613AAF	153418	6.13 km	WIXE(AM) - 1190 kHz - via Other
W232DI.L	MONROE	NC	BLFT-20170330AAF	141143	6.13 km	WXRC(FM) - Channel 239 - via Off-Air
W247CV.L	MONROE	NC	BLFT-20180329AAE	154462	6.13 km	WXNC(AM) - 1060 kHz - via Other
W261DW.C	MONROE	NC	BNFFT-20180418AHO	202978	0.00 km	WDEX(AM) - 1430 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 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 where no new tower construction is being proposed and the structure is not being substantially altered. 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-two 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  
June 1, 2021

Indian Trail

US Census 2010 PL Database  
NED 1983 Coordinate Datum

# Exhibit 1

## Service Contour Study: Present vs Proposed Operations

Proposed 60 dBμ F(50:50) Contour

Present 60 dBμ F(50:50) Contour

Terrain

119

247 m

**WDZD-LP.L**  
Monroe, NC  
BLL20160408AAZ  
Facility ID: 195459  
Latitude: 34-58-58.50 N  
Longitude: 080-32-12.20 W  
ERP: 0.067 kW  
Channel: 256L1 (99.1 MHz)  
AMSL Height: 223.1 m  
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour  
Total Population: 29,530  
Total Area: 125.5 sq. km

**WDZD-LP.P**

**WDZD-LP.L**

Monroe

Wingate

**WDZD-LP.P**  
Monroe, NC  
Proposed Operation  
Facility ID: 195459  
Latitude: 34-59-06.50 N  
Longitude: 080-36-13.60 W  
ERP: 0.035 kW  
Channel: 255L1 (98.9 MHz)  
AMSL Height: 244.1 m  
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour  
Total Population: 30,794  
Total Area: 118.7 sq. km

Asher Broadcast Consulting LLC  
justinasher@consultant.com  
1 (202) 875-2986

Scale 1:100,000

0 1.5 3 4.5 km

V-Soft Communications LLC ©

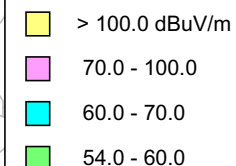


non-FCC-sanctioned coverage map  
for illustrative purposes only

US Census 2010 PL Database  
NAD 1983 Coordinate Datum

## Exhibit 2

### Service Contour Study: Proposed Longley-Rice Method

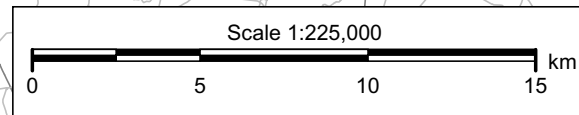


**WDZD-LP.P**  
Monroe, NC  
Proposed Operation  
Facility ID: 195459  
Latitude: 34-59-06.50 N  
Longitude: 080-36-13.60 W  
ERP: 0.035 kW  
Channel: 255L1 (98.9 MHz)  
AMSL Height: 244.1 m  
Horiz. Pattern: Omni  
Prop Model: Longley-Rice  
Climate: Cont temperate  
Conductivity: 0.0050  
Dielec Const: 15.0  
Refractivity: 311.0  
Receiver Ht AG: 9.1 m  
Receiver Gain: 0 dB  
Time Variability: 50.0%  
Sit. Variability: 50.0%  
ITM Mode: Broadcast

70 dBµ Longley-Rice Contour  
Total Population: 22,919

60 dBµ Longley-Rice Contour  
Total Population: 93,144

Asher Broadcast Consulting LLC  
justinasher@consultant.com  
1 (202) 875-2986



## *Exhibit 3*

### *Copy of Existing Antenna Structure Registration*

*(public record copy)*

#### Registration Detail

Reg Number	1306551	Status	Constructed
File Number	A1106560	Constructed	01/01/1983
EMI	No	Dismantled	
NEPA			

#### Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

##### Location (in NAD83 Coordinates)

Lat/Long	34-59-06.5 N 080-36-13.6 W	Address	3109 Weddington Rd.
City, State	Monroe , NC		
Zip	28110	County	UNION
Center of AM Array		Position of Tower in Array	

##### Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
195.1	55.8
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
250.9	55.8

##### Painting and Lighting Specifications

None

##### FAA Notification

FAA Study	2018-ASO-8430-OE	FAA Issue Date	06/18/2018
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#### Owner & Contact Information

FRN	0009095621	Owner Entity Type	Corporation
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##### Owner

New Life Community Temple of Faith, Inc.  
P.O. Box 3272  
Monroe , NC 28111

P: (704)289-9339  
F:  
E: scovington05@yahoo.com

##### Contact

Belendiuk , Arthur V Esq  
5028 Wisconsin Avenue, NW Suite 301  
Washington , DC 20016

P: (202)363-4050  
F: (202)363-4266  
E: abelendiuk@fccworld.com

#### Last Action Status

Status	Constructed	Received	06/25/2018
Purpose	Notification	Entered	06/25/2018
Mode	Interactive		

#### Related Applications

06/25/2018	A1106560 - Notification (NT)
06/22/2018	A1106489 - New (NE)

#### Comments

##### Comments

06/25/2018	Per email from Jennifer Flynn dated 06/22/2018; OK to grant.
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#### History

##### Date

06/26/2018  
06/25/2018  
06/25/2018

##### Event

Registration Printed  
Construction Notification Received  
New Application Received

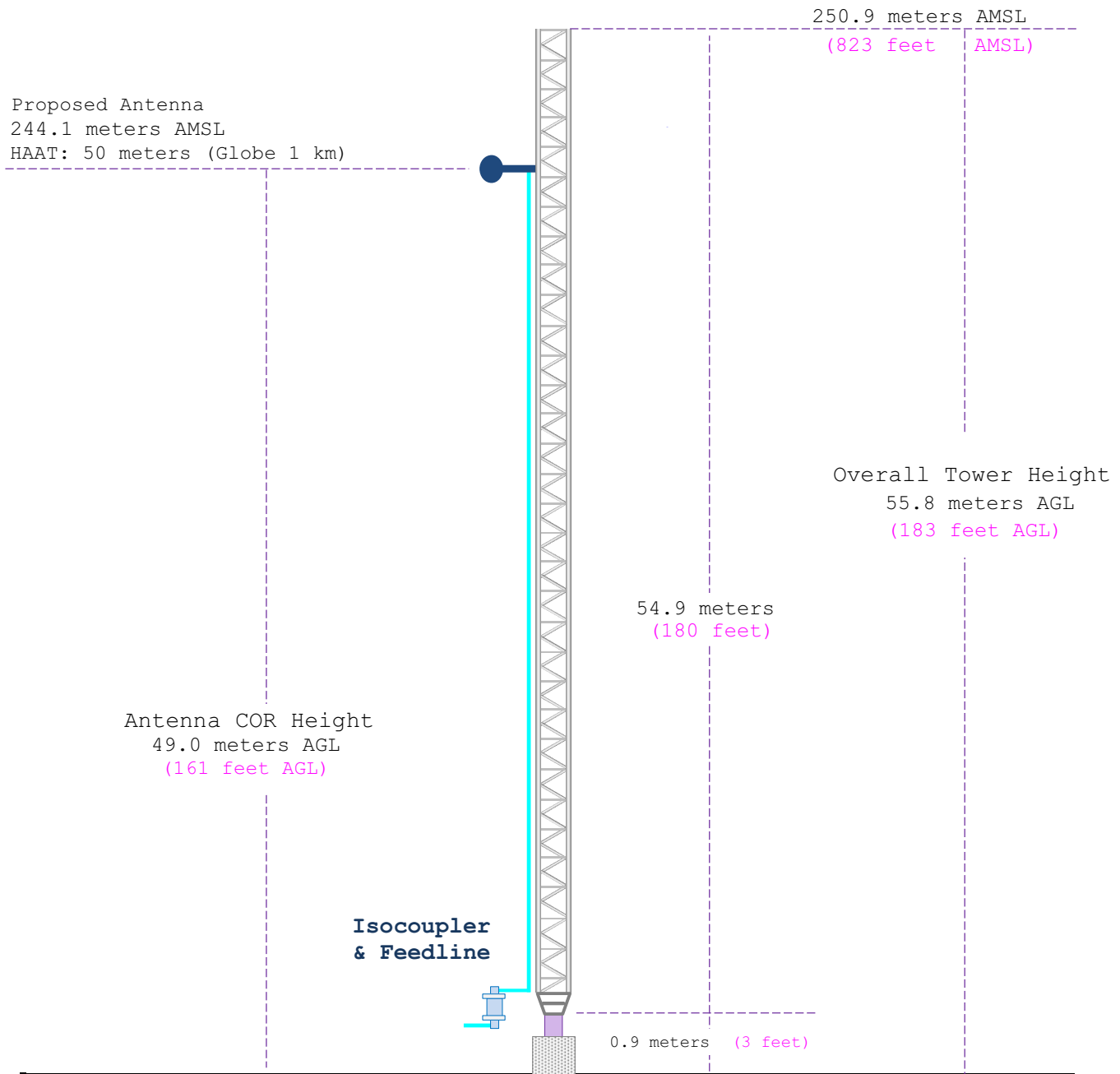
#### Automated Letters

06/26/2018	Authorization, Reference
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# Exhibit 4

## Vertical Plan of Antenna System and Support Structure



Ground Elevation: 195.1 meters AMSL (640 feet AMSL)		
Address: 3109 Weddington Rd.		
City: Monroe	Latitude (D M S) Longitude (D M S) (NAD 1927)	
County: Union	-----	
State: North Carolina	Lat/Long 34-59-06.5 N 080-36-13.6 W (NAD 1983)	
Antenna Structure Registration 1306551	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

## ***Exhibit 5***

### **HAAT and Miscellaneous Coordinate Information**

*A waiver of 47 C.F.R. Section 73.811(a) is respectfully requested concerning use of the Globe 1 km terrain database for calculation of the HAAT value. Pursuant to the procedures as detailed in 47 C.F.R. Section 73.313(d), an HAAT value of 50 meters is returned utilizing the Globe 1 km terrain database. This calculated HAAT value results in an operational power of 35 watts ERP.*

#### **HAAT Calculation (NAD 1983):** (from ASRN 1306551)

**Antenna Height Above Average Terrain Calculations -- Results**

**Input Data**  
Latitude 34° 59' 6.5" North  
Longitude 80° 36' 13.6" West (NAD 83)  
Height of antenna radiation center above mean sea level: 244.1 meters AMSL  
Number of Evenly Spaced Radials = 8 0° is referenced to True North

**Results**  
Calculated HAAT = 50 meters  
Antenna Height Above Average Terrain calculated using 1 km [GLOBE terrain data](#)  
Individual "Radial HAAT" Values, in meters  

0°	47.5 m
45°	61.7 m
90°	71.4 m
135°	52.3 m
180°	38.3 m
225°	41.8 m
270°	55.8 m
315°	34.0 m

[Print Results?](#) [New Calculation?](#)

Choose a U.S. State or Possession: NC - North Carolina  
Station Class: 100 watt LPFM  
 meters Antenna Height Above Average Terrain (HAAT)  

[Find Result](#) [Print](#) [Clear Data](#)

Results:

**Calculated ERP (rounded per Section 73.212) = 0.035 kW**  
Unrounded ERP = 0.034635 kW  
Comments:

Low Power FM (LPFM) stations are authorized throughout the United States.  
Maximum class limit determined from:  
Class: L1 Reference ERP: 0.1 kW Reference HAAT: 30 meters Distance to 60 dBu F(50,50) contour: 5.6 km

#### **NAD 1983 to NAD 1927 Conversion:**

#### **Various Coordinate Conversion Calculations (NAD 1983):**

Position Type	Lat Lon
<b>Degrees Lat Long</b>	34.9851389°, -080.6037778°
<b>Degrees Minutes</b>	34°59.10833', -080°36.22667'
<b>Degrees Minutes Seconds</b>	34°59'06.5000", -080°36'13.6000"
<b>UTM</b>	17S 536162mE 3871466mN
<b>UTM centimeter</b>	17S 536162.56mE 3871466.71mN
<b>MGRS</b>	17SNU3616271466
<b>Grid North</b>	0.2°
<b>GARS</b>	199LK22
<b>Maidenhead</b>	EM94QX76NK14
<b>GEOREF</b>	GJKE23775910

# ***Exhibit 6***

## ***Tabulation of Proposed Allocation Spacings***

REFERENCE		DISPLAY DATES
34 59 06.50 N.	CLASS = L1	DATA 05-28-21
80 36 13.60 W.	Current Spacings to 2nd Adj.	SEARCH 05-28-21
----- Channel 255 - 98.9 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power	HAAT		
WDZD-LP	LIC 256L1	Monroe	NC 92.3	6.12	13.5	-7.4
34 58 58.5	80 32 12.2	CN	0.067 kW	37 M		
Shaggers, Inc. BLL20160408AAZ						
W253BA	LIC 253D	Indian Trail	NC 356.9	14.38	13.5	0.9
35 06 52.5	80 36 44.2	CN	0.240 kW 0 M			
Positive Alternative Radio BMLFT20160415AAI						
W256BP	LIC-D 256D	Charlotte	NC 345.8	30.54	27.5	3.0
35 15 07.0	80 41 11.0	DCN	0.250 kW 0 M			
Norsan Media LLC BLFT20150107AAL						
W254AZ	LIC 254D	Belmont	NC 311.9	34.59	27.5	7.1
35 11 33.5	80 53 13.3	CN	0.150 kW 0 M			
Ihm Licenses, LLC 0000143485						
W254AZ	CP 254D	Belmont	NC 311.9	34.59	27.5	7.1
35 11 33.5	80 53 13.3	CN	0.150 kW 0 M			
Ihm Licenses, LLC BPFT20190612AAE						
WSMW	LIC-N 254C0	Greensboro	NC 32.0	125.99	110.5	15.5
35 56 42.5	79 51 44.1	NCN	100.000 kW	375 M		
Entercom License, LLC BLH20031229AAZ						
WVOY-LP	LIC 255L1	Jefferson	SC 148.9	39.14	23.5	15.6
34 40 59.5	80 22 56.2	CN	0.058 kW	39 M		
The Church Of God, Inc. Em BLL20070329AAD						
WBT-FM	LIC 257C3	Chester	SC 250.7	64.40	39.5	24.9
34 47 30.5	81 16 05.3	CN	7.700 kW	182 M		
Radio One Of North Carolin BLH20031201APJ						
WSPA-FM	LIC 255C	Spartanburg	SC 278.1	155.23	129.5	25.7
35 10 11.4	82 17 27.4	CN	100.000 kW	581 M		
Entercom License, LLC BLH20160511AAE						
W253CV	LIC-D 253D	Davidson	NC 337.2	55.00	13.5	41.5
35 26 30.4	80 50 20.7	DCN	0.100 kW 0 M			
Truth Broadcasting Corpora 0000129368						
W257EI	LIC-D 257D	Kannapolis	NC 359.9	55.77	13.5	42.3
35 29 16.5	80 36 18.2	DHN	0.250 kW 0 M			
Ford Broadcasting, Inc. 0000086809						
WBZF	LIC-N 253A	Hartsville	SC 141.1	74.11	28.5	45.6
34 27 54.6	80 05 44.2	NCN	6.000 kW	100 M		
Cumulus Licensing LLC BLH20021101ABO						
W257EJ	LIC-D 257D	Mooreville	NC 344.5	70.97	13.5	57.5
35 36 04.5	80 48 50.3	DCN	0.250 kW 0 M			
Mooreville Media, Inc. BLFT20190627AAD						

Reference station has protected zone issue: AM tower  
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 ft<sup>2</sup> (0.10 m<sup>2</sup>)

**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)

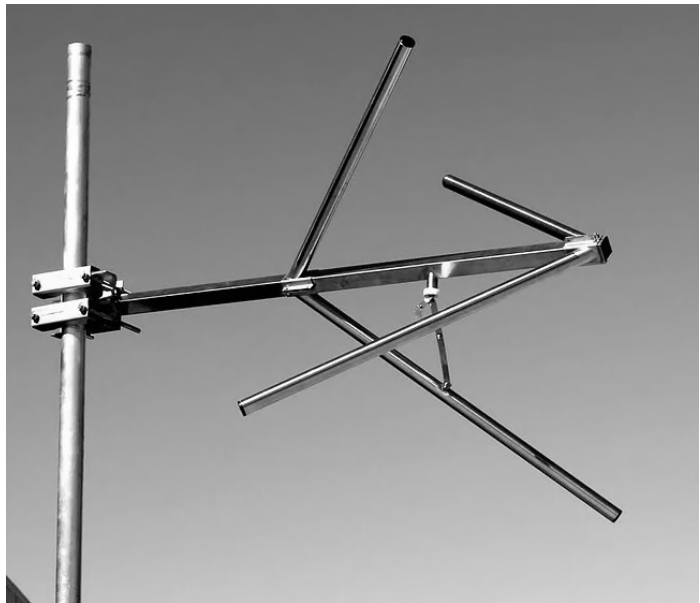
**Gain:** -3 dBd (referred to half-wave dipole)

**Dimensions:** 58"x32"x32" (1450x800x800mm)

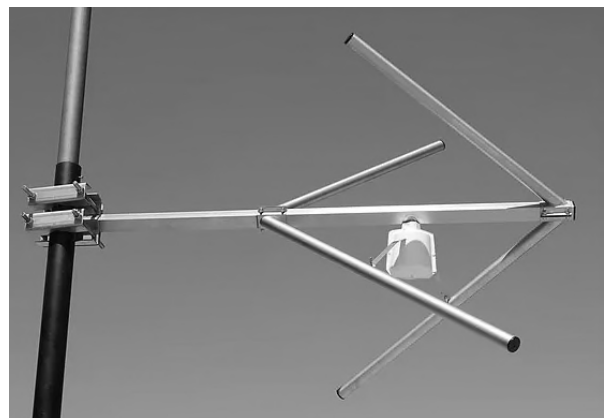
**H plane:** omnidirectional  $\pm 1.5$  dB (with a 4" mast)

**V plane:** omnidirectional  $\pm 3$  dB (with a 4" mast)

**Packing:** 68"x10"x10"



**Optional Mini-Radome**





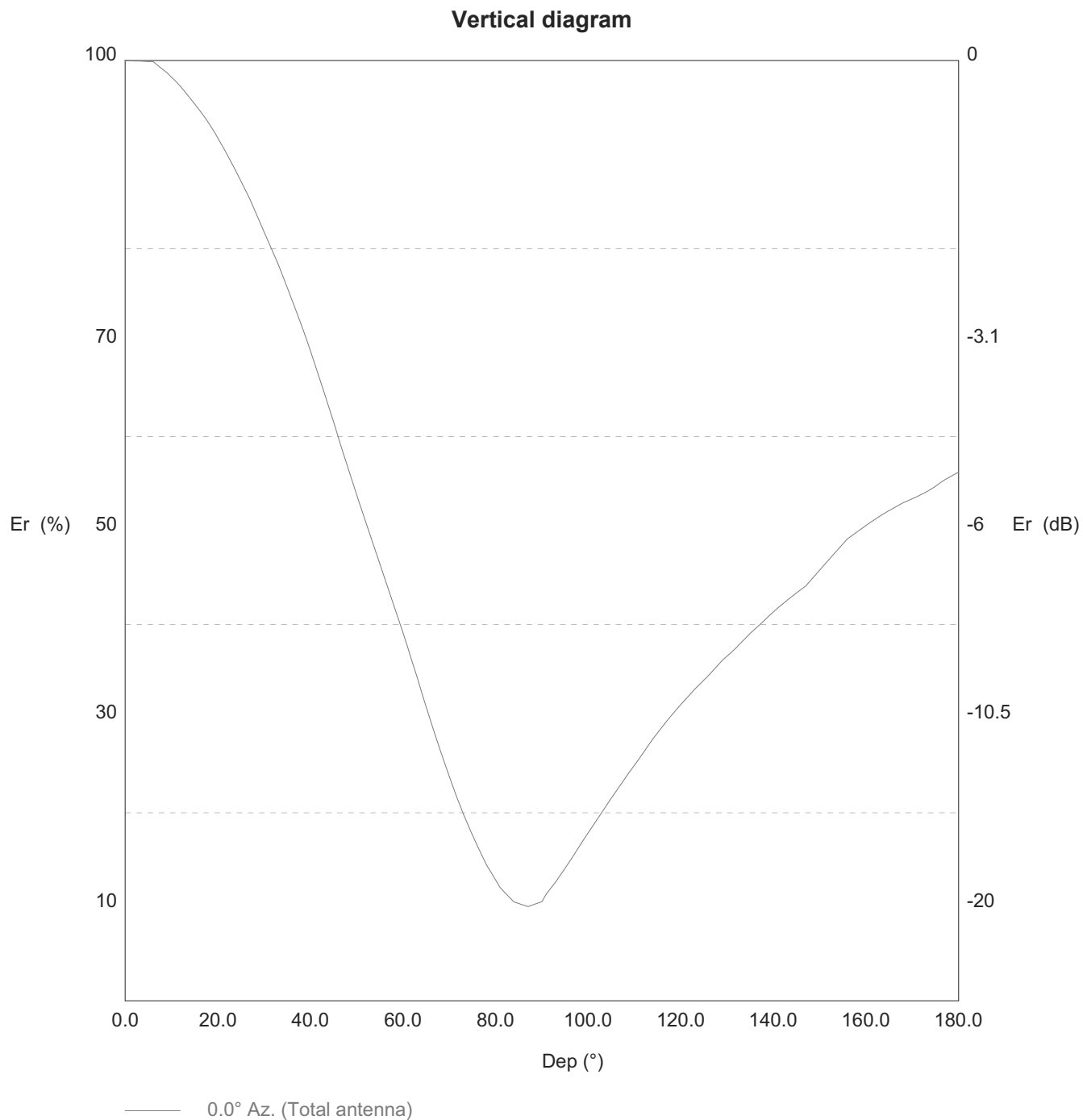
***Exhibit 7***  
***Copy of Manufacturer's Antenna Documentation***  
***(public record copy)***

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