

Technical Report Supporting a New FM Full Power Construction Permit Application

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

For

*NEW-CH274A - Milano, TX
(Facility ID: 762416)*

*Filed Pursuant to FCC Public Notice
DA 21-983; Released August 12, 2021
Auction of AM and FM Broadcast
Construction Permit Winning Bidders
Announced for Auction 109*

*6.0 kW at 100.0 meters HAAT
CH274A (102.7 MHz)*

September 2021

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

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Appendix 1 - Radio Frequency Radiation Compliance Showing

EXPLANATION OF PROPOSAL: This Technical Report supports an original construction permit application for a new full power FM station for CH274A(102.7 MHz) - Milano, TX (Facility ID: 762416). This application is being filed pursuant to FCC Public Notice DA 21-983; *Auction of AM and FM Broadcast Construction Permit Winning Bidders Announced for Auction 109*; released August 12, 2021. This Auction winning Long-Form 2100 - Schedule 301-FM filing proposes continued operation on the current auction frequency of CH274A (102.7 MHz) with a power of 6.0 kW ERP (Circular Polarization) from a new site location and antenna height of 219.7 meters AMSL (100.0 meters HAAT). The proposed facility will employ a directional antenna. The proposed facility will continue to remain licensed to the community of Milano, TX.

FACILITY COMPLIANCE SHOWINGS: A map of the proposed 60 dB μ service contour in relation to the unchanged Auction Allotment Reference Point has been included in **Exhibit 1**. In addition, this exhibit demonstrates city grade service of 3.16 mV/m, or 70 dB μ F(50:50), to at least 80% of the community of license¹. In this instance, 100% coverage of the community will be attained.

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 facility will be located on the existing tower bearing Antenna Structure Registration Number 1044893. In support of this filing, a copy of the existing 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 filing will not increase the overall tower height.

The applicant would like to note use of the FCC 30 second terrain database for all contour, allocation and HAAT showings contained herein. A copy of the proposed HAAT calculation has been included in **Exhibit 5**.

As no change in frequency, class or community of license is proposed herein, the existing Special Allotment Reference Point remains valid and unchanged for this Milano, TX - CH274A(102.7 MHz) filing. These coordinates of record (*FA USE Allotment Record Reference: AUC-274A (AU9810646; RMRFS30) or Application ID: 1064660*) represent a continued viable site location which meets both the current allocation restrictions and completely encompasses the community of license city limits with a 16.2 km Class A city grade reference arc.

¹ *John R. Hughes*, 50 Fed. Reg. 5679 (Feb. 11, 1985) and *Letter to Southwest Communications, Inc.*, ref. 8920-HVT (MMB July 16, 1986) (80 percent city-grade signal coverage of community deemed substantial for compliance with 47 C.F.R. Section 73.315)

ALLOCATION COMPLIANCE SHOWINGS: The proposed full-service site will meet all Class A spacing requirements of 47 C.F.R. Section 73.207 toward each allocation protection with the exception of AUC-274A(VAC) - Centerville, TX and KBRQ(FM) - Hillsboro, TX. A tabulation of the existing spacings toward each relevant allocation protection is found in **Exhibit 6**. 47 C.F.R. Section 73.215 Short-Spaced processing is requested toward AUC-274A(VAC) - Centerville, TX as noted in **Exhibit 7a**. As AUC-274A(VAC) - Centerville, TX is presently notified as a fully spaced §73.207 facility, this facility has been protected at its maximum class operating parameters. 47 C.F.R. Section 73.215 Short-Spaced processing is requested toward KBRQ(FM) - Hillsboro, TX as noted in **Exhibit 7b**. As KBRQ(FM) is presently notified as a short-spaced §73.215 station, KVRQ(FM) has been protected at its current (licensed) operating parameters. A copy of the proposed directional antenna pattern has been included in **Exhibit 8**.

The remainder of the information in this report is responsive to the Rules of the Commission, and provides the data for the FCC's online master LMS (Licensing and Management System) Form 2100 - Schedule 301-FM.

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 tower is not being substantially altered. Specifically, compliance is not necessary where only an antenna and feedline are being added to an existing structure. 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
September 08, 2021

Proposed 60 dBμ F(50:50) Contour

Proposed 70 dBμ F(50:50) Contour

16.2 km Class A City Ref Arc

CH274A.P

Milano

AUC-274A

Rockdale

Campton

Buckhorn

Hearne

Exhibit 1 Service Contour Study: Present vs Proposed Operations

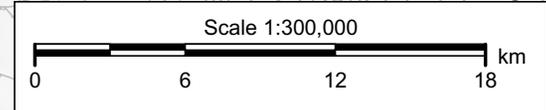
CH274A.P
Milano, TX
Proposed Operation
Facility ID: 762416
Latitude: 30-44-52.70 N
Longitude: 096-50-17.60 W
ERP: 6.00 kW
Channel: 274A (102.7 MHz)
AMSL Height: 219.7 m
Horiz. Pattern: Directional

70 dBμ F(50:50) Contour
Total Population: 3,315
Total Area: 621.3 sq. km

60 dBμ F(50:50) Contour
Total Population: 24,224
Total Area: 1,942.3 sq. km

AUC-274A
Milano, TX
RMRS30
Latitude: 30-38-30.71 N
Longitude: 096-55-00.93 W
Channel: 274A (102.7 MHz)

US Census 2010 PL Database
FCC 30 SEC Terrain Database
NAD 1983 Coordinate Datum



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

non-FCC-sanctioned coverage map
for illustrative purposes only

FCC 30 SEC Terrain Database
US Census 2010 PL Database
NAD 1983 Coordinate Datum

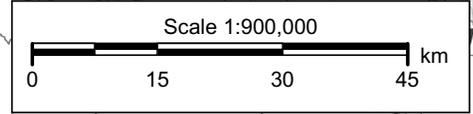
Exhibit 2 Service Contour Study: Proposed Longley-Rice Method



CH274A.P
Milano, TX
Proposed Operation
Facility ID: 762416
Latitude: 30-44-52.70 N
Longitude: 096-50-17.60 W
ERP: 6.00 kW
Channel: 274A (102.7 MHz)
AMSL Height: 219.7 m
Horiz. Pattern: Directional
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 dBu Longley-Rice Contour
Total Population: 23,674

60 dBu Longley-Rice Contour
Total Population: 131,198



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

V-Soft Communications LLC ©

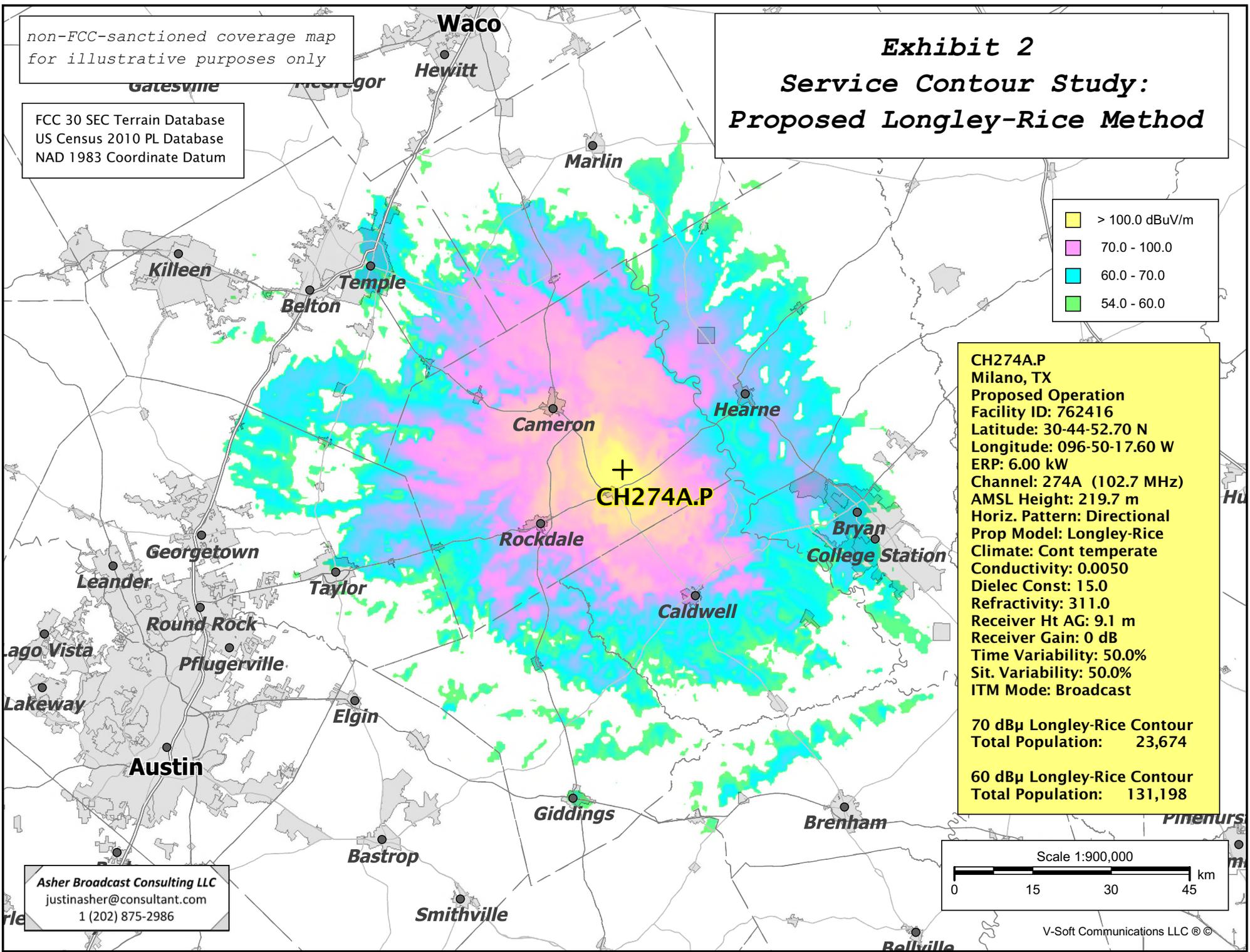


Exhibit 3

Copy of Existing Antenna Structure Registration

(public record copy)

Registration Detail

Reg Number	1044893	Status	Constructed
File Number	A0920183	Constructed	01/01/1986
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (In NAD83 Coordinates)

Lat/Long	30-44-52.7 N 096-50-17.6 W	Address	3 MI NW OF HWY 36 & HWY 79
City, State	MILANO , TX	County	MILAM
Zip	76556	Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	185.6	Overall Height Above Ground (AGL)	140.5
Overall Height Above Mean Sea Level	326.1	Overall Height Above Ground w/o Appurtenances	134.0

Painting and Lighting Specifications

FAA Chapters 4, 6, 12
 Paint and Light in Accordance with FAA Circular Number 70/7460-1K

FAA Notification

FAA Study	2008-ASW-3712-OE	FAA Issue Date	05/23/2008
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Owner & Contact Information

FRN	0011498342	Owner Entity Type	Limited Liability Company
Assignor FRN	0009764150	Assignor ID	L00759842

Owner

Global Tower, LLC. through American Towers, LLC
 Attention To: FAA/FCC Regulatory
 10 Presidential Way
 Woburn , MA 01801

P: (678)564-3236
 F:
 E: faa-fcc@americantower.com

Contact

Attention To: FAA/FCC Regulatory
 10 Presidential Way
 Woburn , MA 01801

P: (678)564-3236
 F:
 E: faa-fcc@americantower.com

Last Action Status

Status	Constructed	Received	08/29/2014
Purpose	Change Owner	Entered	08/29/2014
Mode	Interactive		

Related Applications

- 08/29/2014 A0920183 - Change Owner (OC)
- 05/18/2009 A0637074 - Admin Update (AU)
- 07/30/2008 A0600729 - Notification (NT)

Related applications (10)

Comments

Comments

None

History

Date

- 08/30/2014
- 08/30/2014
- 08/29/2014
- All History (22)

Event

- Registration Printed
- Change of Ownership Letter Sent
- Change of Ownership Received

Pleadings

Pleading Type

None

Filer Name

Description

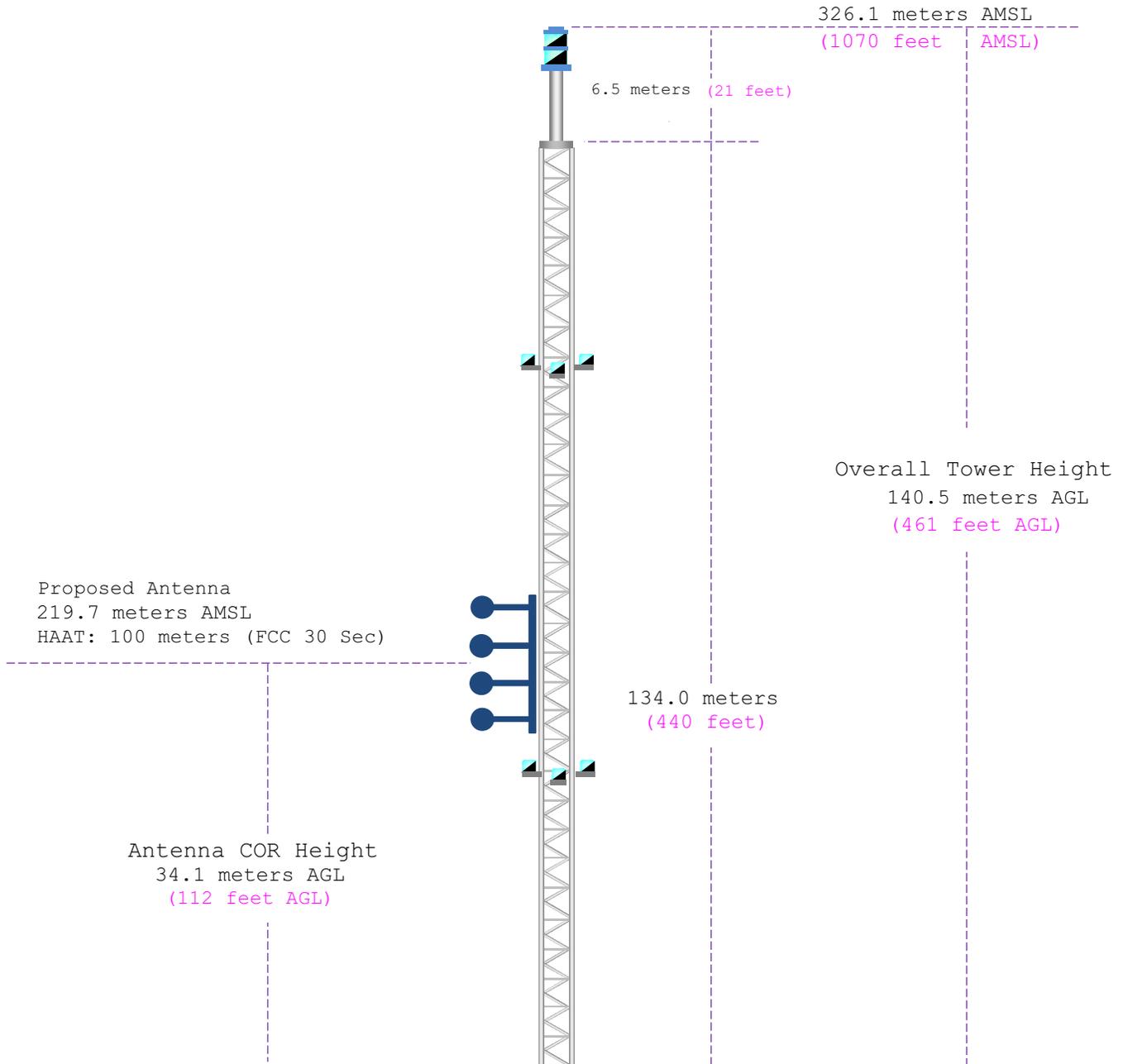
Date Entered

Automated Letters

- 08/30/2014 Ownership Change, Reference 819961
- 05/24/2008 Ownership Change, Reference 599714
- 04/24/2007 Authorization, Reference 562492

Exhibit 4

Vertical Plan of Antenna System and Support Tower



Ground Elevation: 185.6 meters AMSL (609 feet AMSL)		
Address: 3 MI NW OF HWY 36 & HWY 79		
City: MILANO	Latitude (D M S)	Longitude (D M S)
County: MILAM	---	---
State: TEXAS	(NAD 1927)	
	Lat/Long: 30-44-52.7 N 096-50-17.6 W (NAD 1983)	
Antenna Structure Registration	Drawing	Asher Broadcast Consulting, LLC
1044893	Is Not To Scale	justinasher@consultant.com 1(202)875-2986

Exhibit 5

HAAT and Miscellaneous Coordinate Information

HAAT Calculation (NAD 1983):

N. Lat. = 304452.7 W. Lng. = 965017.6
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	70-F5	60-F5
000	106.2	113.5	3.1625	5.00	0.726	14.55	25.98
045	95.4	124.3	0.5011	-3.00	0.289	9.66	17.35
090	117.3	102.4	0.9988	-0.01	0.408	10.43	18.83
135	107.6	112.1	6.0000	7.78	1.000	17.27	29.83
180	138.5	81.2	6.0000	7.78	1.000	14.38	25.64
225	151.4	68.3	6.0000	7.78	1.000	13.26	23.72
270	125.5	94.2	6.0000	7.78	1.000	15.60	27.51
315	115.8	103.9	6.0000	7.78	1.000	16.54	28.81

Ave El= 119.71 M HAAT= 99.99 M AMSL= 219.7

NAD 1983 to NAD 1927 Conversion:

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	30.7479722°, -096.8382222°
Degrees Minutes	30°44.87833', -096°50.29333'
Degrees Minutes Seconds	30°44'52.7000", -096°50'17.6000"
UTM	14R 706940mE 3403668mN
UTM centimeter	14R 706940.78mE 3403668.00mN
MGRS	14RQV0694003668
Grid North	1.1°
GARS	167LB32
Maidenhead	EM10NR99JM93
GEOREF	FJJA09704487

Exhibit 7a

**47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward AUC-274A(VAC) - Centerville, TX (Max Class Operating Parameters)**

FMCommander Single Allocation Study - 09-03-2021 - FCC NGDC 30 Sec
CH274A.P's Overlaps (In= 0.62 km, Out= 22.15 km)

CH274A.P CH 274 A 73.215 Z
Lat= 30 44 52.70, Lng= 96 50 17.60
6.0 kW 100 m HAAT, 219.7 m COR
Prot.= 60 dBu, Intef.= 40 dBu

AU9816317^ CH 274 A RM11718
Lat= 31 15 00.65, Lng= 95 56 00.85
Max Cls: 6.0 kW 100 m HAAT, 200.9 m COR
Prot.= 60 dBu, Intef.= 40 dBu

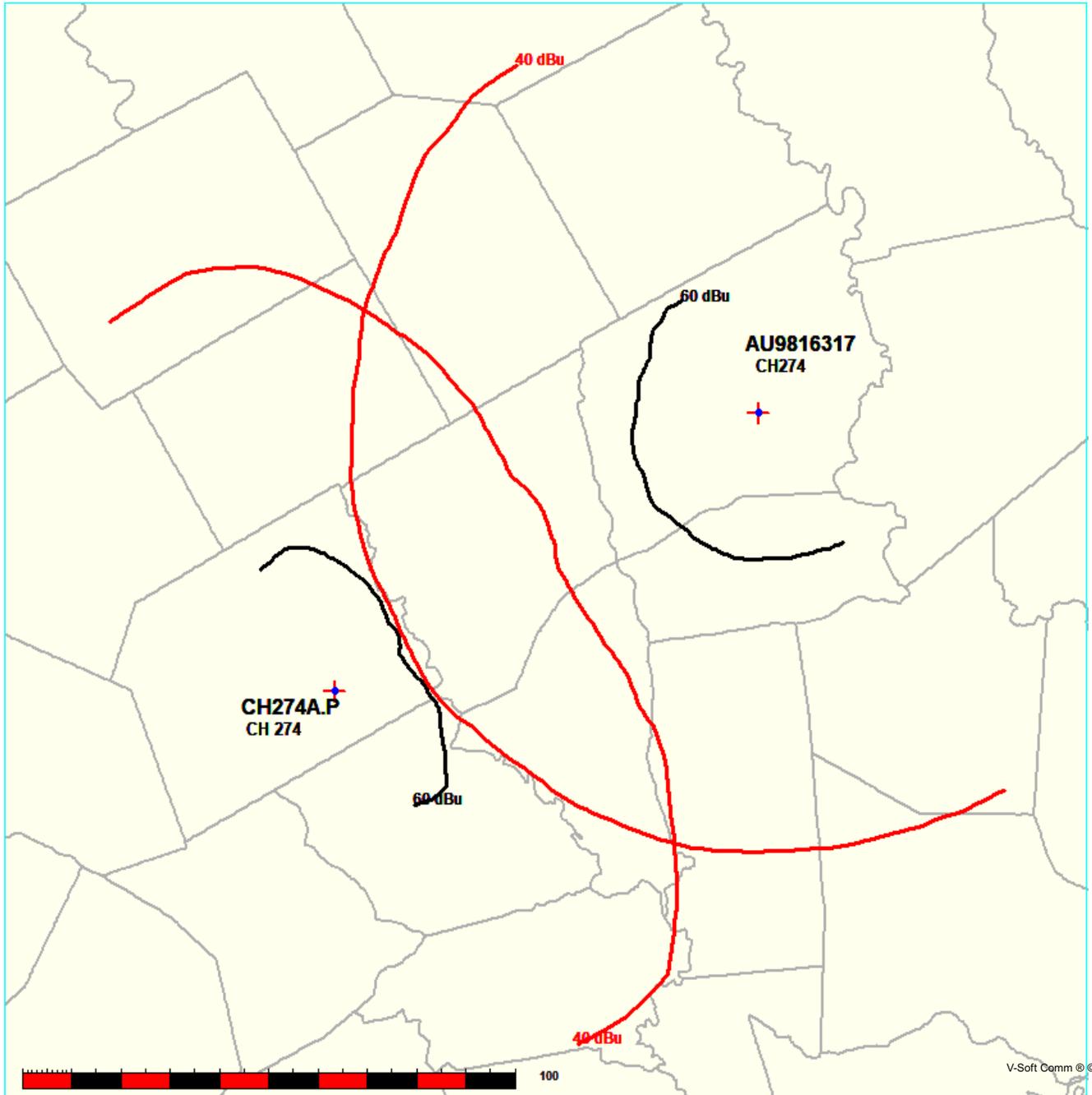


Exhibit 7a

**47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward AUC-274A(VAC) - Centerville, TX (Max Class Operating Parameters)**

09-03-2021 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

CH274A.P

Channel = 274A
Max ERP = 6 kW
RCAMSL = 219.7 m
N. Lat. 30 44 52.70
W. Lng. 96 50 17.60
Protected
60 dBu

AU9816317 RM11718
(^ Max Class Parameters)
Channel = 274A
Max ERP = 6 kW
RCAMSL = 200.86 m
N. Lat. 31 15 00.65
W. Lng. 95 56 00.85
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
017.0	001.4642	0121.1	022.4	246.8	006.0000	0089.3	086.7	39.49	
018.0	001.3939	0121.0	022.2	246.5	006.0000	0089.2	086.6	39.52	
019.0	001.3254	0120.6	021.9	246.2	006.0000	0089.0	086.5	39.53	
020.0	001.2586	0120.2	021.6	245.9	006.0000	0088.8	086.4	39.54	
021.0	001.2096	0120.0	021.4	245.6	006.0000	0088.7	086.3	39.56	
022.0	001.1563	0120.0	021.1	245.4	006.0000	0088.5	086.2	39.58	
023.0	001.1094	0120.4	021.0	245.1	006.0000	0088.3	086.1	39.60	
024.0	001.0584	0121.1	020.8	244.8	006.0000	0088.1	086.0	39.62	
025.0	001.0135	0121.7	020.6	244.6	006.0000	0088.0	085.9	39.64	
026.0	000.9696	0122.0	020.4	244.3	006.0000	0087.8	085.8	39.65	
027.0	000.9220	0122.0	020.2	244.0	006.0000	0087.7	085.8	39.65	
028.0	000.8801	0121.6	019.9	243.7	006.0000	0087.6	085.8	39.64	
029.0	000.8348	0121.2	019.6	243.4	006.0000	0087.6	085.9	39.63	
030.0	000.7950	0120.7	019.3	243.1	006.0000	0087.6	085.9	39.62	
031.0	000.7604	0120.4	019.1	242.9	006.0000	0087.7	085.9	39.61	
032.0	000.7308	0120.1	018.9	242.6	006.0000	0087.7	086.0	39.61	
033.0	000.6977	0119.8	018.6	242.3	006.0000	0087.9	086.0	39.61	
034.0	000.6693	0119.6	018.4	242.1	006.0000	0088.0	086.0	39.60	
035.0	000.6377	0119.6	018.2	241.8	006.0000	0088.2	086.1	39.59	
036.0	000.6106	0119.9	018.0	241.6	006.0000	0088.4	086.1	39.59	
037.0	000.5841	0120.3	017.8	241.3	006.0000	0088.5	086.2	39.59	
038.0	000.5545	0121.0	017.6	241.1	006.0000	0088.7	086.2	39.58	
039.0	000.5257	0121.9	017.4	240.8	006.0000	0088.9	086.3	39.58	
040.0	000.5011	0122.9	017.3	240.6	006.0000	0089.1	086.3	39.58	
041.0	000.5011	0123.8	017.3	240.4	006.0000	0089.3	086.2	39.63	
042.0	000.5011	0124.3	017.4	240.3	006.0000	0089.4	086.1	39.67	
043.0	000.5011	0124.5	017.4	240.1	006.0000	0089.6	086.0	39.71	
044.0	000.5011	0124.4	017.4	239.9	006.0000	0089.8	085.9	39.74	
045.0	000.5011	0124.3	017.4	239.7	006.0000	0090.0	085.8	39.76	
046.0	000.5011	0124.0	017.3	239.5	006.0000	0090.2	085.8	39.79	
047.0	000.5011	0123.4	017.3	239.3	006.0000	0090.4	085.7	39.80	

Exhibit 7a

47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward AUC-274A(VAC) - Centerville, TX (Max Class Operating Parameters)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
048.0	000.5011	0122.6	017.2	239.1	006.0000	0090.6	085.7	39.81
049.0	000.5011	0121.2	017.1	238.9	006.0000	0090.8	085.8	39.81
050.0	000.5011	0119.4	017.0	238.7	006.0000	0091.0	085.9	39.80
051.0	000.5011	0117.1	016.8	238.4	006.0000	0091.2	086.0	39.77
052.0	000.5011	0114.6	016.6	238.2	006.0000	0091.4	086.2	39.73
053.0	000.5011	0112.4	016.4	238.0	006.0000	0091.6	086.3	39.70
054.0	000.5011	0110.6	016.3	237.8	006.0000	0091.8	086.4	39.68
055.0	000.5011	0109.2	016.2	237.6	006.0000	0092.0	086.6	39.66
056.0	000.5011	0107.8	016.0	237.5	006.0000	0092.3	086.7	39.63
057.0	000.5011	0105.9	015.9	237.3	006.0000	0092.5	086.8	39.60
058.0	000.5011	0103.4	015.7	237.1	006.0000	0092.7	087.1	39.55
059.0	000.5011	0101.0	015.4	236.9	006.0000	0092.9	087.3	39.50
060.0	000.5011	0099.0	015.3	236.8	006.0000	0093.1	087.5	39.46
061.0	000.5011	0097.7	015.2	236.6	006.0000	0093.3	087.6	39.43
062.0	000.5011	0097.3	015.1	236.4	006.0000	0093.5	087.7	39.43
063.0	000.5011	0097.4	015.1	236.2	006.0000	0093.7	087.7	39.43
064.0	000.5011	0098.0	015.2	236.1	006.0000	0094.0	087.7	39.44
065.0	000.5011	0098.5	015.2	235.9	006.0000	0094.2	087.7	39.45
066.0	000.5011	0098.8	015.3	235.7	006.0000	0094.4	087.7	39.46
067.0	000.5011	0099.2	015.3	235.5	006.0000	0094.6	087.7	39.46
068.0	000.5011	0099.8	015.3	235.4	006.0000	0094.8	087.7	39.47
069.0	000.5011	0100.4	015.4	235.2	006.0000	0095.0	087.7	39.48
070.0	000.5011	0100.7	015.4	235.0	006.0000	0095.2	087.8	39.47
071.0	000.5151	0100.8	015.5	234.8	006.0000	0095.4	087.7	39.50
072.0	000.5257	0100.8	015.6	234.6	006.0000	0095.6	087.7	39.51
073.0	000.5364	0101.1	015.7	234.4	006.0000	0095.8	087.7	39.52
074.0	000.5509	0101.3	015.9	234.2	006.0000	0096.0	087.7	39.54
075.0	000.5655	0101.8	016.1	234.0	006.0000	0096.3	087.6	39.57
076.0	000.5766	0102.5	016.2	233.8	006.0000	0096.5	087.6	39.59
077.0	000.5878	0102.9	016.3	233.6	006.0000	0096.8	087.6	39.61
078.0	000.6029	0103.3	016.5	233.4	006.0000	0097.1	087.5	39.63
079.0	000.6182	0103.6	016.6	233.2	006.0000	0097.3	087.5	39.64
080.0	000.6299	0103.7	016.7	233.0	006.0000	0097.6	087.6	39.64
081.0	000.6613	0104.1	017.0	232.7	006.0000	0098.0	087.5	39.68
082.0	000.6977	0104.3	017.3	232.5	006.0000	0098.3	087.4	39.73
083.0	000.7308	0104.6	017.5	232.2	006.0000	0098.7	087.3	39.76
084.0	000.7690	0104.8	017.8	232.0	006.0000	0099.1	087.3	39.80
085.0	000.8037	0104.8	018.0	231.7	006.0000	0099.4	087.2	39.81
086.0	000.8393	0104.5	018.2	231.5	006.0000	0099.8	087.3	39.82
087.0	000.8801	0104.3	018.4	231.2	006.0000	0100.1	087.3	39.83
088.0	000.9173	0104.0	018.6	231.0	006.0000	0100.3	087.3	39.83
089.0	000.9600	0103.3	018.7	230.8	006.0000	0100.5	087.4	39.81
090.0	000.9988	0102.4	018.8	230.5	006.0000	0100.7	087.6	39.78

Exhibit 7a

**47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward AUC-274A(VAC) - Centerville, TX (Max Class Operating Parameters)**

09-03-2021 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

AU9816317 RM11718
(^ Max Class Parameters)
Channel = 274A
Max ERP = 6 kW
RCAMSL = 200.86 m
N. Lat. 31 15 00.65
W. Lng. 95 56 00.85
Protected
60 dBu

CH274A.P

Channel = 274A
Max ERP = 6 kW
RCAMSL = 219.7 m
N. Lat. 30 44 52.70
W. Lng. 96 50 17.60
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
195.0	006.0000	0108.2	029.4	070.5	000.5087	0100.8	083.4	30.23	
196.0	006.0000	0107.7	029.3	070.3	000.5054	0100.7	083.0	30.31	
197.0	006.0000	0107.3	029.2	070.1	000.5022	0100.7	082.6	30.39	
198.0	006.0000	0106.7	029.2	069.8	000.5011	0100.7	082.2	30.48	
199.0	006.0000	0105.9	029.1	069.5	000.5011	0100.6	081.9	30.57	
200.0	006.0000	0105.1	029.0	069.3	000.5011	0100.5	081.6	30.66	
201.0	006.0000	0104.5	028.9	069.0	000.5011	0100.4	081.3	30.74	
202.0	006.0000	0104.3	028.9	068.7	000.5011	0100.3	080.9	30.84	
203.0	006.0000	0104.1	028.8	068.5	000.5011	0100.2	080.6	30.93	
204.0	006.0000	0104.1	028.8	068.2	000.5011	0100.0	080.2	31.02	
205.0	006.0000	0103.9	028.8	068.0	000.5011	0099.8	079.9	31.10	
206.0	006.0000	0103.5	028.8	067.7	000.5011	0099.6	079.6	31.18	
207.0	006.0000	0103.0	028.7	067.4	000.5011	0099.4	079.3	31.25	
208.0	006.0000	0102.2	028.6	067.0	000.5011	0099.2	079.0	31.31	
209.0	006.0000	0101.1	028.4	066.7	000.5011	0099.1	078.8	31.35	
210.0	006.0000	0099.6	028.2	066.3	000.5011	0098.9	078.7	31.39	
211.0	006.0000	0098.2	028.0	065.9	000.5011	0098.8	078.6	31.42	
212.0	006.0000	0097.2	027.9	065.6	000.5011	0098.7	078.4	31.46	
213.0	006.0000	0096.8	027.9	065.3	000.5011	0098.6	078.2	31.52	
214.0	006.0000	0096.8	027.9	065.0	000.5011	0098.5	077.9	31.58	
215.0	006.0000	0097.0	027.9	064.7	000.5011	0098.4	077.6	31.65	
216.0	006.0000	0097.1	027.9	064.4	000.5011	0098.2	077.4	31.72	
217.0	006.0000	0097.2	027.9	064.1	000.5011	0098.1	077.1	31.78	
218.0	006.0000	0097.1	027.9	063.7	000.5011	0097.8	076.9	31.82	
219.0	006.0000	0096.9	027.9	063.4	000.5011	0097.6	076.8	31.87	
220.0	006.0000	0096.6	027.8	063.0	000.5011	0097.4	076.6	31.90	
221.0	006.0000	0096.3	027.8	062.7	000.5011	0097.3	076.4	31.94	
222.0	006.0000	0096.1	027.8	062.4	000.5011	0097.3	076.3	31.98	
223.0	006.0000	0096.6	027.8	062.0	000.5011	0097.3	076.1	32.05	
224.0	006.0000	0097.9	028.0	061.7	000.5011	0097.3	075.7	32.14	

Exhibit 7a

***47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward AUC-274A(VAC) - Centerville, TX (Max Class Operating Parameters)***

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
225.0	006.0000	0099.6	028.2	061.4	000.5011	0097.4	075.4	32.25
226.0	006.0000	0100.7	028.4	061.1	000.5011	0097.6	075.1	32.34
227.0	006.0000	0101.0	028.4	060.7	000.5011	0098.0	074.9	32.40
228.0	006.0000	0101.0	028.4	060.4	000.5011	0098.4	074.8	32.46
229.0	006.0000	0101.1	028.4	060.0	000.5011	0099.0	074.7	32.52
230.0	006.0000	0101.0	028.4	059.6	000.5011	0099.7	074.6	32.58
231.0	006.0000	0100.3	028.3	059.2	000.5011	0100.5	074.6	32.63
232.0	006.0000	0099.0	028.2	058.8	000.5011	0101.4	074.7	32.64
233.0	006.0000	0097.6	028.0	058.4	000.5011	0102.3	074.9	32.65
234.0	006.0000	0096.3	027.8	058.1	000.5011	0103.2	075.0	32.66
235.0	006.0000	0095.2	027.6	057.7	000.5011	0104.2	075.1	32.68
236.0	006.0000	0094.0	027.5	057.3	000.5011	0105.1	075.2	32.69
237.0	006.0000	0092.8	027.3	056.9	000.5011	0106.0	075.4	32.69
238.0	006.0000	0091.7	027.2	056.6	000.5011	0106.7	075.6	32.68
239.0	006.0000	0090.7	027.0	056.2	000.5011	0107.3	075.7	32.66
240.0	006.0000	0089.7	026.9	055.9	000.5011	0108.0	075.9	32.65
241.0	006.0000	0088.8	026.7	055.5	000.5011	0108.5	076.0	32.63
242.0	006.0000	0088.1	026.6	055.2	000.5011	0108.9	076.2	32.61
243.0	006.0000	0087.6	026.6	054.9	000.5011	0109.4	076.3	32.60
244.0	006.0000	0087.7	026.6	054.5	000.5011	0109.9	076.4	32.61
245.0	006.0000	0088.2	026.7	054.2	000.5011	0110.4	076.4	32.63
246.0	006.0000	0088.9	026.8	053.8	000.5011	0111.0	076.4	32.66
247.0	006.0000	0089.3	026.8	053.5	000.5011	0111.6	076.4	32.68
248.0	006.0000	0089.3	026.8	053.1	000.5011	0112.2	076.5	32.68
249.0	006.0000	0088.9	026.8	052.8	000.5011	0112.9	076.7	32.66
250.0	006.0000	0088.9	026.8	052.4	000.5011	0113.6	076.8	32.66
251.0	006.0000	0088.8	026.7	052.1	000.5011	0114.3	077.0	32.65
252.0	006.0000	0088.6	026.7	051.8	000.5011	0115.1	077.2	32.63
253.0	006.0000	0087.8	026.6	051.5	000.5011	0115.8	077.4	32.59
254.0	006.0000	0087.2	026.5	051.2	000.5011	0116.6	077.7	32.55
255.0	006.0000	0087.1	026.5	050.9	000.5011	0117.3	077.9	32.53
256.0	006.0000	0087.2	026.5	050.6	000.5011	0118.1	078.1	32.52
257.0	006.0000	0087.0	026.5	050.3	000.5011	0118.8	078.3	32.48
258.0	006.0000	0086.3	026.4	050.0	000.5011	0119.4	078.6	32.43
259.0	006.0000	0085.6	026.3	049.8	000.5011	0119.9	078.9	32.36
260.0	006.0000	0084.9	026.2	049.5	000.5011	0120.4	079.2	32.29
261.0	006.0000	0084.2	026.1	049.3	000.5011	0120.8	079.5	32.22
262.0	006.0000	0083.2	025.9	049.0	000.5011	0121.2	079.9	32.13
263.0	006.0000	0081.8	025.7	048.9	000.5011	0121.5	080.3	32.03
264.0	006.0000	0080.3	025.5	048.7	000.5011	0121.7	080.7	31.91
265.0	006.0000	0079.1	025.3	048.5	000.5011	0121.9	081.1	31.81
266.0	006.0000	0078.3	025.2	048.3	000.5011	0122.2	081.5	31.71
267.0	006.0000	0077.8	025.1	048.1	000.5011	0122.5	081.8	31.63
268.0	006.0000	0077.4	025.1	047.9	000.5011	0122.7	082.1	31.55

Exhibit 7b
47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward KBRQ(FM) - Hillsboro, (Licensed Operating Parameters)

FMCommander Single Allocation Study - 09-03-2021 - FCC NGDC 30 Sec
CH274A.P's Overlaps (In= 7.16 km, Out= 20.72 km)

CH274A.P CH 274 A 73.215 Z
Lat= 30 44 52.70, Lng= 96 50 17.60
6.0 kW 100 m HAAT, 219.7 m COR
Prot.= 60 dBu, Intef.= 54 dBu

KBRQ CH 273 C1 73.215 Z BMLH20161018AAT
Lat= 31 49 29.90, Lng= 97 09 33.20
100.0 kW 137 m HAAT, 305 m COR
Prot.= 60 dBu, Intef.= 54 dBu

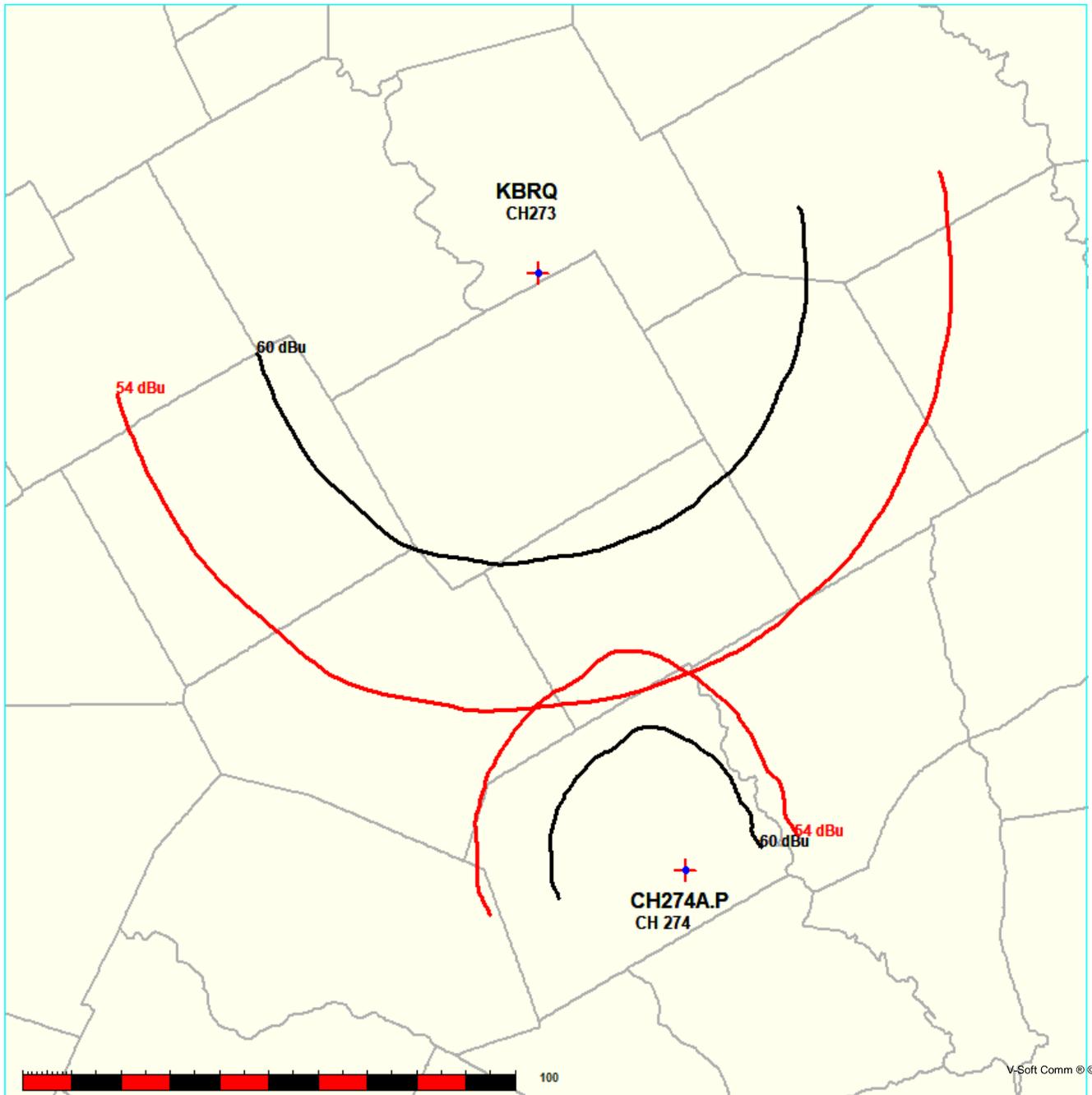


Exhibit 7b
47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward KBRQ(FM) - Hillsboro, (Licensed Operating Parameters)

09-03-2021 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

CH274A.P

KBRQ BMLH20161018AAT

Channel = 274A
Max ERP = 6 kW
RCAMSL = 219.7 m
N. Lat. 30 44 52.70
W. Lng. 96 50 17.60
Protected
60 dBu

Channel = 273C1
Max ERP = 100 kW
RCAMSL = 305 m
N. Lat. 31 49 29.90
W. Lng. 97 09 33.20
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
305.0	006.0000	0103.4	028.7	176.1	100.0000	0141.1	103.5	49.49	
306.0	006.0000	0103.5	028.8	175.9	100.0000	0141.1	103.1	49.58	
307.0	006.0000	0103.9	028.8	175.7	100.0000	0141.0	102.7	49.68	
308.0	006.0000	0104.2	028.8	175.6	100.0000	0140.9	102.3	49.77	
309.0	006.0000	0104.2	028.8	175.4	100.0000	0140.9	101.9	49.86	
310.0	006.0000	0104.1	028.8	175.2	100.0000	0140.8	101.6	49.95	
311.0	006.0000	0103.9	028.8	175.0	100.0000	0140.8	101.3	50.03	
312.0	006.0000	0103.7	028.8	174.8	100.0000	0140.8	100.9	50.11	
313.0	006.0000	0103.5	028.7	174.5	100.0000	0140.8	100.6	50.19	
314.0	006.0000	0103.5	028.8	174.3	100.0000	0140.9	100.3	50.28	
315.0	006.0000	0103.9	028.8	174.1	100.0000	0140.9	099.9	50.37	
316.0	006.0000	0104.4	028.9	173.9	100.0000	0140.9	099.5	50.46	
317.0	006.0000	0104.7	028.9	173.7	100.0000	0141.0	099.2	50.55	
318.0	006.0000	0104.8	028.9	173.5	100.0000	0141.0	098.9	50.63	
319.0	006.0000	0104.8	028.9	173.2	100.0000	0141.0	098.6	50.70	
320.0	006.0000	0104.7	028.9	173.0	100.0000	0141.1	098.3	50.78	
321.0	006.0000	0104.5	028.9	172.7	100.0000	0141.1	098.1	50.84	
322.0	006.0000	0104.1	028.8	172.5	100.0000	0141.1	097.9	50.90	
323.0	006.0000	0103.5	028.8	172.2	100.0000	0141.2	097.7	50.95	
324.0	006.0000	0102.8	028.7	171.9	100.0000	0141.2	097.5	51.00	
325.0	006.0000	0102.1	028.6	171.6	100.0000	0141.3	097.4	51.04	
326.0	006.0000	0101.4	028.5	171.3	100.0000	0141.3	097.3	51.07	
327.0	006.0000	0100.7	028.4	171.0	100.0000	0141.3	097.1	51.11	
328.0	006.0000	0100.4	028.4	170.8	100.0000	0141.4	097.0	51.15	
329.0	006.0000	0100.7	028.4	170.5	100.0000	0141.3	096.7	51.21	
330.0	006.0000	0101.2	028.5	170.2	100.0000	0141.3	096.5	51.27	
331.0	006.0000	0101.7	028.5	170.0	100.0000	0141.2	096.3	51.33	
332.0	006.0000	0102.3	028.6	169.7	100.0000	0141.1	096.0	51.39	
333.0	006.0000	0103.3	028.7	169.4	100.0000	0141.0	095.8	51.46	
334.0	006.0000	0104.5	028.9	169.2	100.0000	0141.0	095.5	51.54	
335.0	006.0000	0106.1	029.1	168.9	100.0000	0140.9	095.2	51.62	
336.0	006.0000	0107.5	029.3	168.6	100.0000	0140.8	094.9	51.70	

Exhibit 7b
47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward KBRQ(FM) - Hillsboro, (Licensed Operating Parameters)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
337.0	006.0000	0108.7	029.4	168.4	100.0000	0140.7	094.6	51.77
338.0	006.0000	0109.8	029.6	168.1	100.0000	0140.6	094.4	51.83
339.0	006.0000	0111.0	029.7	167.8	100.0000	0140.6	094.1	51.89
340.0	006.0000	0112.2	029.8	167.5	100.0000	0140.5	093.9	51.94
341.0	005.8925	0113.2	029.8	167.1	100.0000	0140.4	093.9	51.96
342.0	005.7977	0113.8	029.8	166.8	100.0000	0140.3	093.9	51.96
343.0	005.6921	0114.1	029.7	166.5	100.0000	0140.2	093.9	51.94
344.0	005.5989	0114.2	029.6	166.2	100.0000	0140.1	094.0	51.91
345.0	005.4951	0114.0	029.5	165.9	100.0000	0139.9	094.1	51.87
346.0	005.3922	0113.7	029.3	165.6	100.0000	0139.8	094.3	51.82
347.0	005.3016	0113.4	029.1	165.3	100.0000	0139.6	094.4	51.77
348.0	005.2006	0113.2	029.0	165.0	100.0000	0139.4	094.6	51.72
349.0	005.1116	0112.9	028.9	164.7	100.0000	0139.2	094.8	51.66
350.0	005.0124	0112.8	028.7	164.4	100.0000	0139.0	094.9	51.60
351.0	004.8061	0112.9	028.5	164.1	100.0000	0138.8	095.3	51.51
352.0	004.6043	0112.9	028.2	163.8	100.0000	0138.5	095.6	51.41
353.0	004.4170	0113.0	027.9	163.5	100.0000	0138.3	095.9	51.31
354.0	004.2235	0113.1	027.7	163.3	100.0000	0138.0	096.3	51.21
355.0	004.0344	0113.1	027.4	163.0	100.0000	0137.8	096.6	51.10
356.0	003.8496	0113.1	027.1	162.8	100.0000	0137.5	097.0	50.99
357.0	003.6691	0112.9	026.8	162.6	100.0000	0137.3	097.4	50.87
358.0	003.5022	0112.7	026.5	162.3	100.0000	0137.1	097.8	50.76
359.0	003.3302	0113.1	026.2	162.1	100.0000	0136.9	098.2	50.66
000.0	003.1625	0113.5	026.0	161.9	100.0000	0136.8	098.6	50.55
001.0	003.0331	0114.0	025.8	161.7	100.0000	0136.6	098.9	50.46
002.0	002.9065	0114.5	025.6	161.5	100.0000	0136.5	099.3	50.37
003.0	002.7826	0114.8	025.4	161.3	100.0000	0136.4	099.6	50.28
004.0	002.6613	0114.7	025.1	161.1	100.0000	0136.4	100.0	50.17
005.0	002.5428	0114.4	024.8	161.0	100.0000	0136.3	100.5	50.06
006.0	002.4346	0114.2	024.6	160.8	100.0000	0136.3	100.9	49.96
007.0	002.3213	0114.2	024.3	160.6	100.0000	0136.3	101.3	49.85
008.0	002.2107	0114.7	024.1	160.5	100.0000	0136.3	101.7	49.76
009.0	002.1028	0115.4	023.9	160.3	100.0000	0136.3	102.1	49.67
010.0	001.9976	0116.2	023.7	160.2	100.0000	0136.3	102.4	49.58
011.0	001.9153	0117.0	023.5	160.0	100.0000	0136.3	102.8	49.49
012.0	001.8349	0117.7	023.3	159.9	100.0000	0136.4	103.1	49.41
013.0	001.7561	0118.3	023.2	159.8	100.0000	0136.4	103.5	49.32
014.0	001.6790	0119.1	023.0	159.6	100.0000	0136.4	103.9	49.24
015.0	001.6099	0120.0	022.8	159.5	100.0000	0136.4	104.2	49.16
016.0	001.5362	0120.8	022.7	159.4	100.0000	0136.5	104.6	49.07
017.0	001.4642	0121.1	022.4	159.3	100.0000	0136.5	105.0	48.98
018.0	001.3939	0121.0	022.2	159.2	100.0000	0136.5	105.5	48.88
019.0	001.3254	0120.6	021.9	159.1	100.0000	0136.5	105.9	48.77

Exhibit 7b
47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward KBRQ(FM) - Hillsboro, (Licensed Operating Parameters)

09-03-2021 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KBRQ BMLH20161018AAT

CH274A.P

Channel = 273C1
 Max ERP = 100 kW
 RCAMSL = 305 m
 N. Lat. 31 49 29.90
 W. Lng. 97 09 33.20
 Protected
 60 dBu

Channel = 274A
 Max ERP = 6 kW
 RCAMSL = 219.7 m
 N. Lat. 30 44 52.70
 W. Lng. 96 50 17.60
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
124.0	100.0000	0128.4	055.5	010.0	002.0024	0116.2	090.0	35.04	
125.0	100.0000	0128.5	055.5	009.7	002.0281	0116.0	089.1	35.33	
126.0	100.0000	0128.8	055.5	009.5	002.0550	0115.8	088.2	35.63	
127.0	100.0000	0129.2	055.6	009.2	002.0817	0115.5	087.3	35.92	
128.0	100.0000	0129.9	055.7	009.0	002.1079	0115.4	086.4	36.22	
129.0	100.0000	0130.8	055.8	008.7	002.1343	0115.2	085.5	36.53	
130.0	100.0000	0131.7	055.9	008.4	002.1629	0115.0	084.6	36.83	
131.0	100.0000	0132.5	056.0	008.1	002.1948	0114.8	083.7	37.14	
132.0	100.0000	0133.1	056.1	007.8	002.2305	0114.6	082.9	37.45	
133.0	100.0000	0133.4	056.2	007.5	002.2706	0114.3	082.0	37.75	
134.0	100.0000	0133.3	056.2	007.0	002.3168	0114.2	081.3	38.05	
135.0	100.0000	0132.9	056.1	006.6	002.3681	0114.1	080.5	38.36	
136.0	100.0000	0132.4	056.0	006.1	002.4231	0114.2	079.8	38.66	
137.0	100.0000	0131.8	055.9	005.6	002.4787	0114.2	079.1	38.96	
138.0	100.0000	0131.1	055.8	005.1	002.5360	0114.4	078.5	39.26	
139.0	100.0000	0130.6	055.8	004.5	002.5987	0114.6	077.8	39.56	
140.0	100.0000	0130.5	055.8	004.0	002.6607	0114.7	077.2	39.86	
141.0	100.0000	0130.9	055.8	003.5	002.7211	0114.7	076.5	40.17	
142.0	100.0000	0131.7	055.9	003.0	002.7805	0114.8	075.7	40.48	
143.0	100.0000	0133.0	056.1	002.5	002.8398	0114.7	074.9	40.80	
144.0	100.0000	0134.4	056.3	002.0	002.9015	0114.5	074.2	41.11	
145.0	100.0000	0135.4	056.5	001.5	002.9697	0114.2	073.5	41.40	
146.0	100.0000	0135.9	056.5	000.9	003.0458	0113.9	072.8	41.69	
147.0	100.0000	0135.9	056.5	000.3	003.1287	0113.7	072.3	41.96	
148.0	100.0000	0135.9	056.5	359.6	003.2301	0113.4	071.8	42.24	
149.0	100.0000	0136.2	056.6	358.9	003.3424	0113.1	071.2	42.53	
150.0	100.0000	0136.7	056.6	358.3	003.4570	0112.8	070.7	42.83	
151.0	100.0000	0137.2	056.7	357.6	003.5731	0112.7	070.2	43.12	
152.0	100.0000	0137.5	056.8	356.9	003.6954	0112.9	069.7	43.42	
153.0	100.0000	0137.4	056.7	356.1	003.8307	0113.1	069.3	43.71	

Exhibit 7b
47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies
Toward KBRQ(FM) - Hillsboro, (Licensed Operating Parameters)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
154.0	100.0000	0137.1	056.7	355.3	003.9729	0113.1	069.0	43.97
155.0	100.0000	0136.8	056.7	354.5	004.1200	0113.1	068.7	44.22
156.0	100.0000	0136.6	056.6	353.8	004.2707	0113.1	068.4	44.46
157.0	100.0000	0136.7	056.6	353.0	004.4244	0113.0	068.1	44.70
158.0	100.0000	0136.7	056.6	352.2	004.5748	0112.9	067.8	44.92
159.0	100.0000	0136.6	056.6	351.3	004.7376	0112.9	067.6	45.13
160.0	100.0000	0136.3	056.6	350.5	004.9066	0112.9	067.5	45.33
161.0	100.0000	0136.3	056.6	349.7	005.0439	0112.8	067.3	45.50
162.0	100.0000	0136.8	056.7	348.9	005.1245	0113.0	067.1	45.64
163.0	100.0000	0137.7	056.8	348.0	005.1985	0113.2	066.9	45.78
164.0	100.0000	0138.7	056.9	347.2	005.2832	0113.4	066.7	45.93
165.0	100.0000	0139.5	057.0	346.3	005.3622	0113.6	066.5	46.05
166.0	100.0000	0140.0	057.1	345.5	005.4464	0113.9	066.5	46.16
167.0	100.0000	0140.4	057.2	344.6	005.5353	0114.1	066.4	46.25
168.0	100.0000	0140.6	057.2	343.8	005.6221	0114.2	066.5	46.31
169.0	100.0000	0140.9	057.2	342.9	005.7035	0114.1	066.5	46.35
170.0	100.0000	0141.2	057.3	342.0	005.7943	0113.8	066.6	46.38
171.0	100.0000	0141.3	057.3	341.2	005.8752	0113.3	066.7	46.37
172.0	100.0000	0141.2	057.3	340.3	005.9630	0112.5	066.9	46.33
173.0	100.0000	0141.1	057.3	339.5	006.0000	0111.6	067.2	46.22
174.0	100.0000	0140.9	057.2	338.7	006.0000	0110.6	067.5	46.09
175.0	100.0000	0140.8	057.2	337.9	006.0000	0109.7	067.7	45.95
176.0	100.0000	0141.1	057.3	337.1	006.0000	0108.8	068.0	45.81
177.0	100.0000	0141.6	057.3	336.3	006.0000	0107.8	068.3	45.67
178.0	100.0000	0142.6	057.5	335.4	006.0000	0106.7	068.5	45.54
179.0	100.0000	0143.6	057.6	334.6	006.0000	0105.5	068.8	45.38
180.0	100.0000	0144.7	057.8	333.8	006.0000	0104.3	069.1	45.23
181.0	100.0000	0146.1	057.9	333.0	006.0000	0103.3	069.4	45.08
182.0	100.0000	0147.5	058.1	332.2	006.0000	0102.5	069.7	44.94
183.0	100.0000	0148.8	058.3	331.4	006.0000	0101.9	070.1	44.80
184.0	100.0000	0150.3	058.5	330.6	006.0000	0101.5	070.5	44.66
185.0	100.0000	0151.7	058.7	329.9	006.0000	0101.1	070.9	44.51
186.0	100.0000	0153.2	058.9	329.1	006.0000	0100.7	071.4	44.36
187.0	100.0000	0154.7	059.1	328.4	006.0000	0100.5	071.9	44.21
188.0	100.0000	0155.4	059.2	327.7	006.0000	0100.4	072.4	44.03
189.0	100.0000	0155.7	059.2	327.1	006.0000	0100.7	073.1	43.86
190.0	100.0000	0155.5	059.2	326.5	006.0000	0101.0	073.8	43.66
191.0	100.0000	0155.2	059.1	325.9	006.0000	0101.4	074.6	43.47
192.0	100.0000	0155.6	059.2	325.4	006.0000	0101.9	075.3	43.29
193.0	100.0000	0156.0	059.2	324.8	006.0000	0102.3	076.0	43.10
194.0	100.0000	0156.4	059.3	324.3	006.0000	0102.7	076.8	42.91
195.0	100.0000	0157.1	059.4	323.7	006.0000	0103.0	077.5	42.71
196.0	100.0000	0158.5	059.5	323.2	006.0000	0103.4	078.2	42.53

Exhibit 8 *Tabulation of Proposed Directional Antenna Pattern*

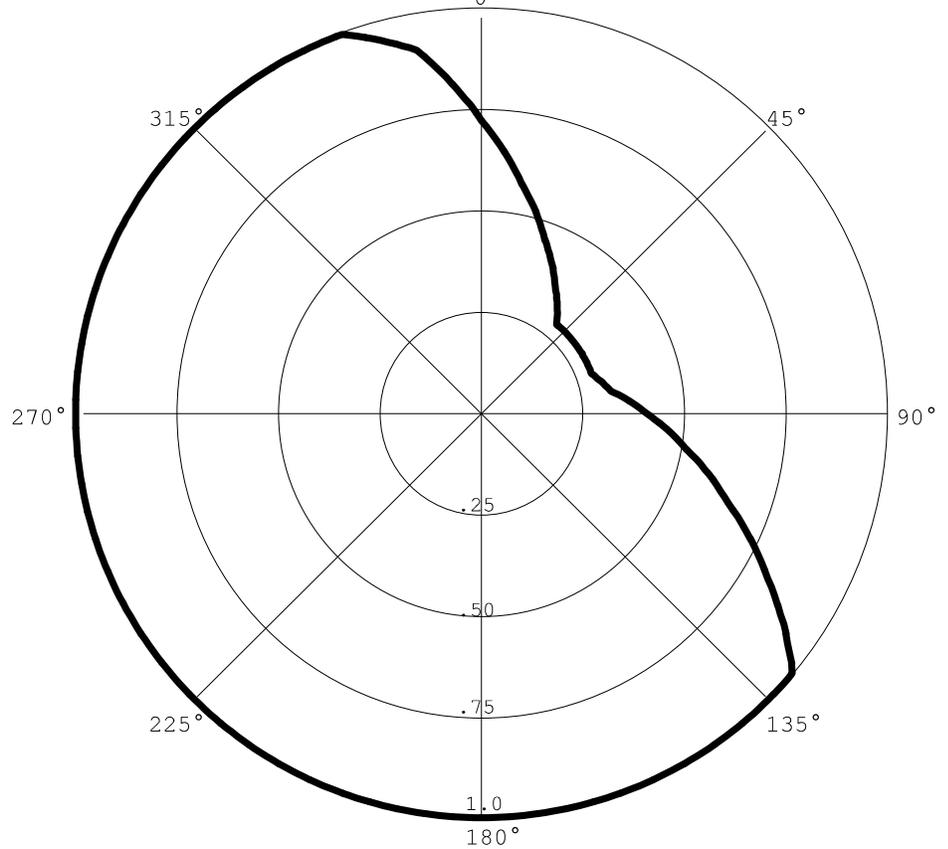
CH274A.P

09-03-2021

RMS (V) = .849

Graph is Relative Field

Azi	Field	dBk	kW
000	0.726	05.000	3.162
010	0.577	03.005	1.998
020	0.458	00.999	1.259
030	0.364	-00.996	0.795
040	0.289	-03.001	0.501
050	0.289	-03.001	0.501
060	0.289	-03.001	0.501
070	0.289	-03.001	0.501
080	0.324	-02.008	0.630
090	0.408	-00.005	0.999
100	0.514	02.001	1.585
110	0.647	04.000	2.512
120	0.815	06.005	3.985
130	1.000	07.782	6.000
140	1.000	07.782	6.000
150	1.000	07.782	6.000
160	1.000	07.782	6.000
170	1.000	07.782	6.000
180	1.000	07.782	6.000
190	1.000	07.782	6.000
200	1.000	07.782	6.000
210	1.000	07.782	6.000
220	1.000	07.782	6.000
230	1.000	07.782	6.000
240	1.000	07.782	6.000
250	1.000	07.782	6.000
260	1.000	07.782	6.000
270	1.000	07.782	6.000
280	1.000	07.782	6.000
290	1.000	07.782	6.000
300	1.000	07.782	6.000
310	1.000	07.782	6.000
320	1.000	07.782	6.000
330	1.000	07.782	6.000
340	1.000	07.782	6.000
350	0.914	07.000	5.012



The antenna proposed in this application will be mounted in accordance with specific instructions provided by the antenna manufacturer. The antenna will be tested by the manufacturer using the type of mounting which will be employed in the field.

No other antennas of any type are or will be mounted on the same tower level as the directional antenna nor will any antenna be mounted within any vertical or horizontal distance specified by the antenna manufacturer as being necessary for proper operation of the directional antenna. The antenna will be assembled under the supervision of a qualified engineer, who will provide the required certification. This statement will certify that the antenna has been installed pursuant to the manufacturer's instructions. Also upon completion of antenna construction, a statement from a licensed surveyor will be submitted with the application for license certifying the antenna has been installed in the proper orientation.

The antenna pattern will be measured by the manufacturer on the test range, and the measurement results will be supplied to the Commission at the time Form 302-FM is filed covering the construction.