

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

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

*KGID(FM).L – Giddings, TX
(Facility ID: 190454)*

"Minor Change Application"

*236.2 m AMSL on ASRN 1299540
3.6 kW at 99.6 meters HAAT
CH242A (96.3 MHz)*

February, 2024

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

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Appendix 1 - Radio Frequency Radiation Compliance Showing

EXPLANATION OF PROPOSAL: This Minor Modification of a Licensed Facility and accompanying Technical Report supports a minor construction permit application for FM station KGID(FM) – Giddings, TX (Facility ID: 190454). Continued operation on the frequency of CH242A(96.3 MHz), with a power of 3.6 kW ERP (Circular Polarization) is requested from an antenna height of 85.3 meters (280 ft) AGL (236.2 meters AMSL; 99.6 meters HAAT). KGID(FM) will continue to employ a non-directional antenna. KGID(FM) will continue to serve the community of Giddings, TX.

FACILITY COMPLIANCE SHOWINGS: A map of the proposed Class A - 60 dB μ service contour in relation to the presently licensed Class A - 60 dB μ service contour has been included in ***Exhibit 1***. This exhibit demonstrates city grade service of 3.16 mV/m, or 70 dB μ F(50:50), to visually more than the minimum required 80% of the community of license¹.

An additional 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 1299540. In support of this filing, a copy of the current 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 NED 03 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***. In addition, the requested Class A power of 3.6 kW ERP has been verified accurate for the proposed 99.6 meter HAAT value as noted in ***Exhibit 5***.

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)

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 KGID(FM) – Giddings, TX; CH242A (96.3 MHz) filing. The coordinates of record 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.

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 KHMx(FM) – Houston, TX. A tabulation of the existing spacings toward each relevant allocation protection is found in **Exhibit 6**. As KHMx(FM) is presently notified as a fully spaced §73.207 station, KHMx(FM) has been protected at its maximum class operating parameters per **Exhibit 7a**.

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.

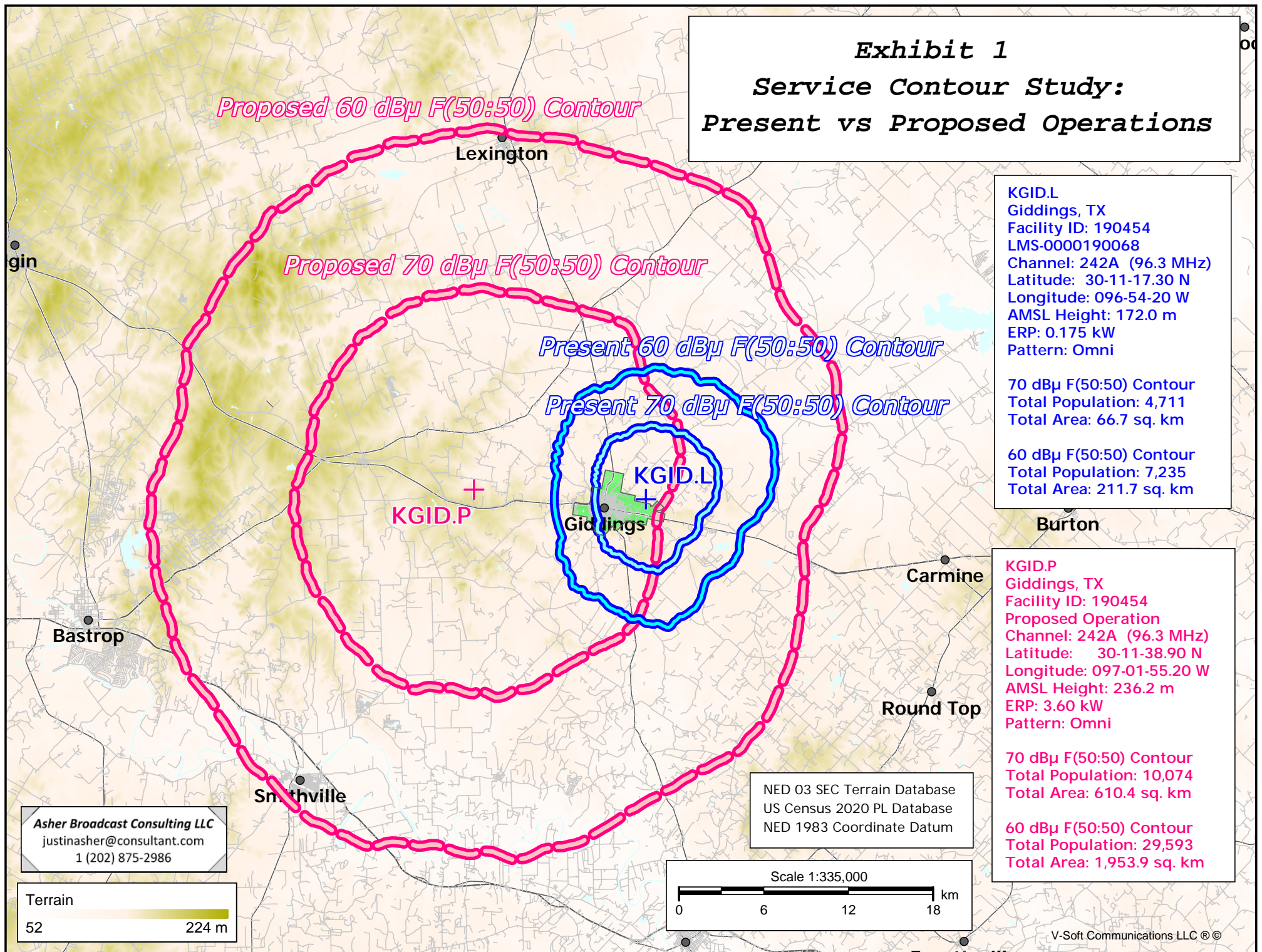
Regarding compliance with the NEPA, Nationwide Programmatic Agreement and NHPA Section 106 for tower co-location, compliance with the Agreement is not required where no new tower construction is being proposed and the tower is not being substantially altered. Specifically, compliance is not necessary where only an existing antenna is being reused on 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-four 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
February 1, 2024

Exhibit 1
Service Contour Study:
Present vs Proposed Operations



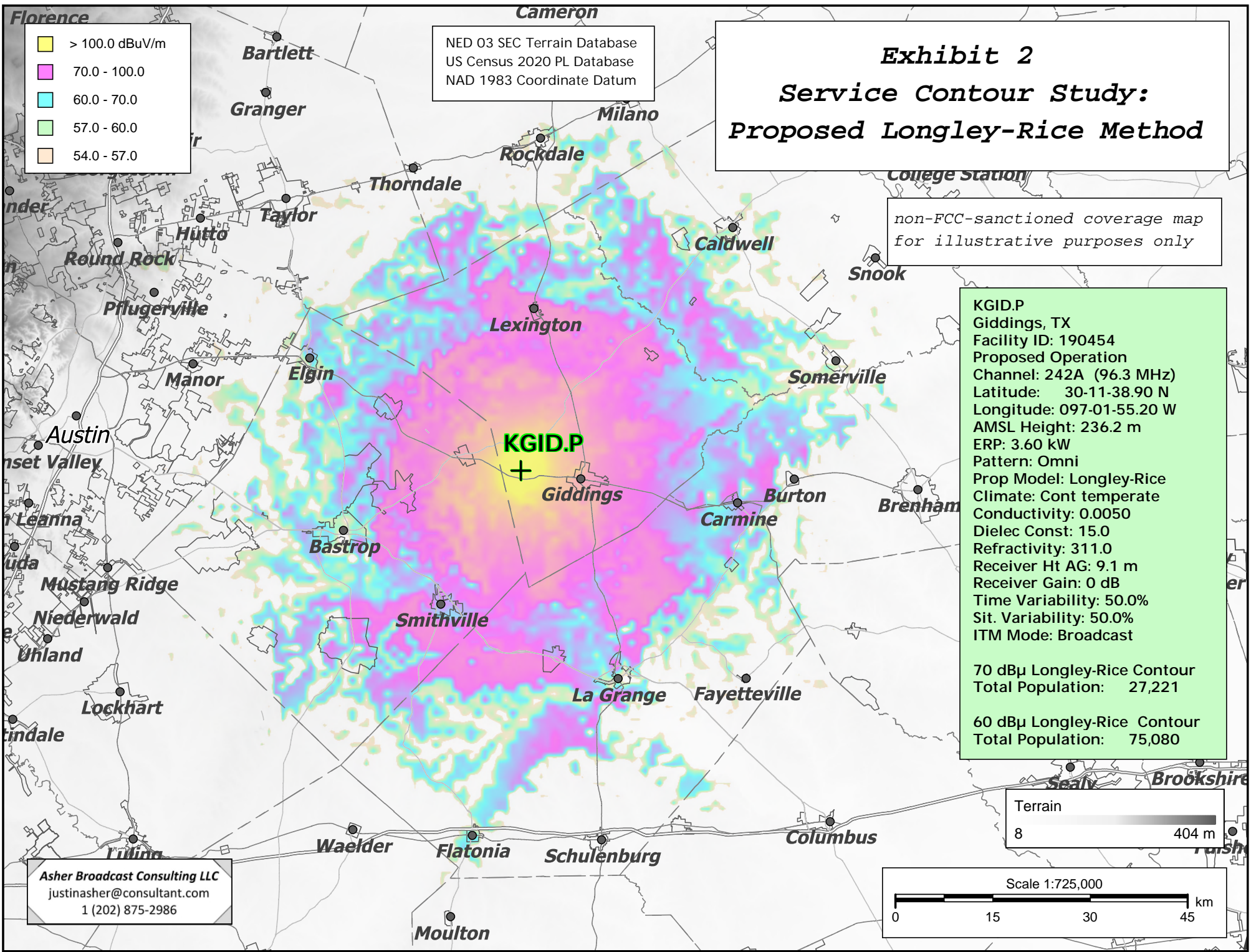


Exhibit 3

Copy of Existing Antenna Structure Registration

(public record copy)

Registration Detail

Reg Number	1299540	Status	Constructed
File Number	A1086291	Constructed	01/29/2017
EMI	No	Dismantled	
NEPA			

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	30-11-38.9 N 097-01-55.2 W	Address	1745 CR 103
City, State	Hills , TX		
Zip	78942	County	LEE
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
150.9	103.6
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
254.5	103.6

Painting and Lighting Specifications

FAA Chapters 4, 8, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1L

FAA Notification

FAA Study	2016-ASW-1505-OE	FAA Issue Date	03/08/2016
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Owner & Contact Information

FRN	0012348777	Owner Entity Type	Corporation
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Owner

RF Services Inc.
Attention To: Greg
7301 Ranch Road 620 North Ste 155
Austin , TX 78726

P: (512)366-3050
F:
E: Greg@towerz.com

Contact

Attention To: Greg
7301 Ranch Road 620 North Ste 155
Austin , TX 78726

P: (512)366-3050
F:
E: Greg@towerz.com

Last Action Status

Status	Constructed	Received	08/03/2017
Purpose	Notification	Entered	08/03/2017
Mode	Interactive		

Related Applications

08/03/2017	A1086291 - Notification (NT)
06/14/2016	A1004760 - Amendment (AM)

Comments

Comments

None

History

Date

08/03/2017
06/20/2017
06/15/2016

Event

Construction Notification Received
Construction Reminder Letter Sent
Registration Printed

Pleadings

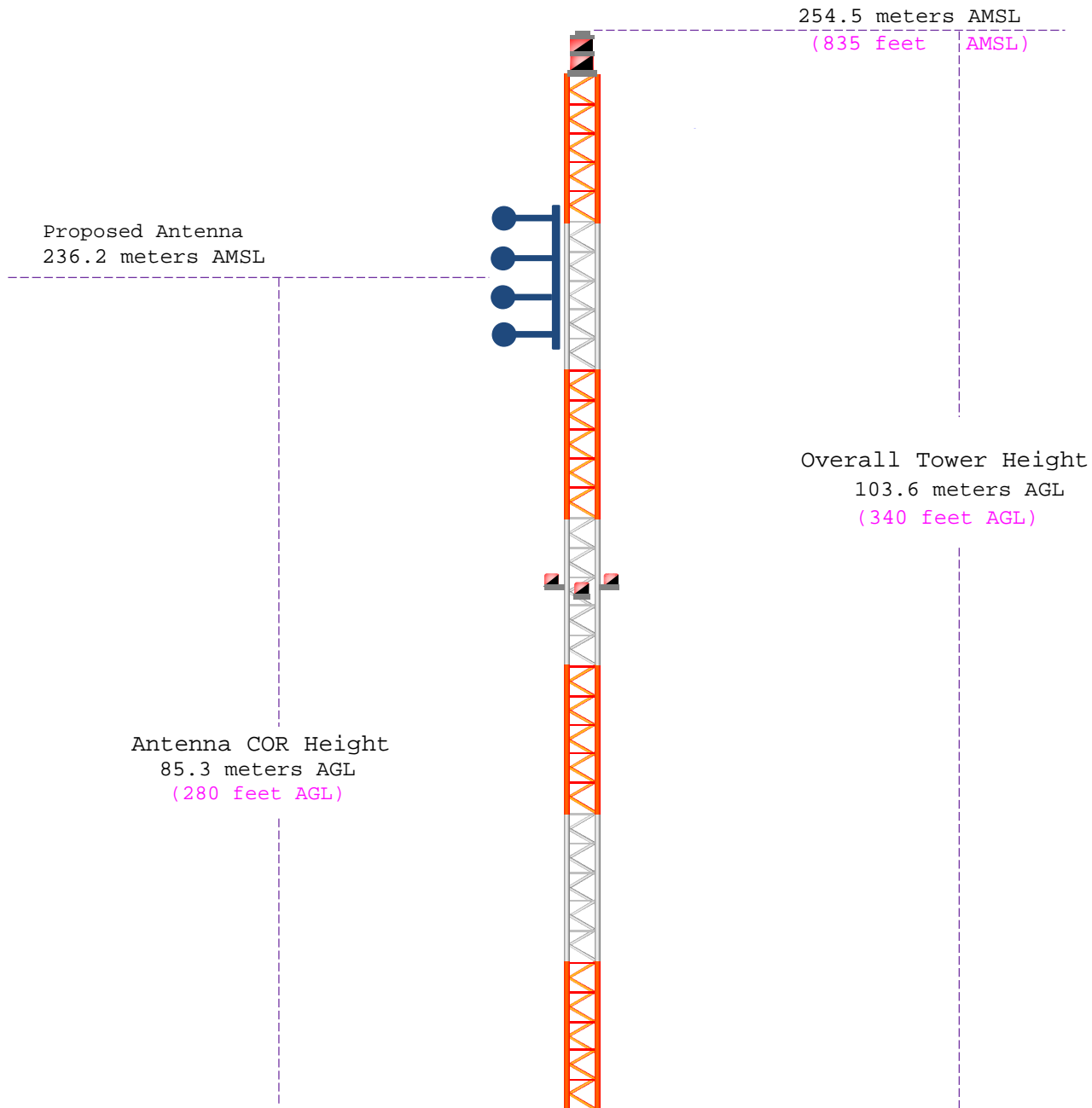
Pleading Type	Filer Name	Description	Date Entered
None			

Automated Letters

06/20/2017	Construction Reminder, Reference 954432
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Exhibit 4

Vertical Plan of Antenna System and Support Tower



Ground Elevation: 150.9 meters AMSL (495 feet AMSL)		
Address: 1745 CR 103 City: Hills County: Lee State: Texas	Latitude (D M S) Longitude (D M S) --- (NAD 1927)	
	Lat/Long: 30-11-38.9 N 097-01-55.2 W (NAD 1983)	
Antenna Structure Registration 1299540	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 (NAD 1983):

N. Lat. = 301138.9 W. Lng. = 970155.2
 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	134.6	101.6	3.6000	5.56	1.000	25.43
045	112.1	124.1	3.6000	5.56	1.000	27.74
090	137.6	98.6	3.6000	5.56	1.000	25.07
135	127.1	109.1	3.6000	5.56	1.000	26.27
180	131.3	104.9	3.6000	5.56	1.000	25.81
225	143.7	92.5	3.6000	5.56	1.000	24.32
270	155.2	81.0	3.6000	5.56	1.000	22.82
315	151.1	85.1	3.6000	5.56	1.000	23.36

Ave El= 136.58 M HAAT= 99.62 M AMSL= 236.2 M

NAD 1983 to NAD 1927 Conversion:

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	30.1941389°, -097.0320000°
Degrees Minutes	30°11.64833', -097°01.92000'
Degrees Minutes Seconds	30°11'38.9000", -097°01'55.2000"
UTM	14R 689457mE 3341934mN
UTM centimeter	14R 689457.05mE 3341934.64mN
MGRS	14RPU8945741934
Grid North	1.0°
GARS	166LA43
Maidenhead	EM10LE66DO82
GEOREF	FJHA58081164
Plus Code	86245XV9+M6
Plus Code Extended	86245XV9+M62CJRC
what3words	bands.shine.spiders

Exhibit 6

Tabulation of Proposed Commercial Spacings

Yellow highlighted text denotes a 47 C.F.R. Section 73.215 Short-Spaced processing request toward KHM(X)FM - Houston, TX. As KHM(X)FM is presently notified as a fully spaced §73.207 station, KHM(X)FM has been protected at its maximum class operating parameters; see protection studies in **Exhibit 7a**.

REFERENCE	CLASS = A Int = AA	DISPLAY DATES
30 11 38.90 N.		DATA 01-22-24
97 01 55.20 W.	Current Spacings to 3rd Adj.	SEARCH 01-22-24
----- Channel 242 - 96.3 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power		HAAT		
KGID	LIC-N 242A	Giddings		TX 93.1	12.19	114.5	-102.3
30 11 17.3	96 54 20.0	NCN	0.175 kW		46 M		
	Recharge Media Pbc		0000190068				
KHM(X)	LIC 243C	Houston		TX 114.7	162.17	164.5	-2.3
29 34 34.8	95 30 36.8	CN	100.000 kW		585 M		
	Audacy License, LLC		BMLH20090814AAR				
KHFI-FM	LIC 244C1	Georgetown		TX 281.1	75.37	74.5	0.9
30 19 20.7	97 48 04.0	CN	100.000 kW		290 M		
	Ihm Licenses, LLC		BLH19891227KB				
KAGG	LIC 241C2	Madisonville		TX 52.2	110.63	105.5	5.1
30 48 02.7	96 07 00.8	CN	40.000 kW		164 M		
	Ihm Licenses, LLC		BMLH20040617AFP				
KGGB	LIC-N 242A	Yorktown		TX 195.9	132.38	114.5	17.9
29 02 43.9	97 24 24.0	NCN	6.000 kW		100 M		
			BLH20090206AAL				
KXXM	LIC 241C1	San Antonio		TX 248.4	166.52	132.5	34.0
29 38 01.8	98 37 55.1	CN	100.000 kW		182 M		
	Ihm Licenses, LLC		BLH20100510AVZ				
KLZT	LIC 296C2	Bastrop		TX 261.4	53.38	14.5	38.9
30 07 17.8	97 34 47.5	CN	49.000 kW		152 M		
	Waterloo Media Group, L.P.		BMLH20140326AEI				
KSCS	LIC 242C	Fort Worth		TX 1.1	264.76	225.5	39.3
32 34 54.0	96 58 33.0	CN	100.000 kW		478 M		
	Cumulus Licensing Holding		0000119954				
KJFK-FM	CP 242C3	Llano		TX 299.3	181.12	141.5	39.6
30 58 50.4	98 41 13.7	CN	25.000 kW		94 M		
	Recharge Media Pbc		0000217225				
KJFK-FM	LIC 242C3	Llano		TX 299.3	181.12	141.5	39.6
30 58 50.4	98 41 13.7	CN	8.000 kW		94 M		
	Recharge Media Pbc		0000190064				
KIOX-FM	LIC 241C3	Edna		TX 155.2	133.34	88.5	44.8
29 06 05.9	96 27 19.9	CN	13.000 kW		139 M		
	Bay And Beyond Broadcastin		BLH19980923KB				
KKHH	LIC 239C	Houston		TX 114.7	162.17	94.5	67.7
29 34 34.8	95 30 36.7	CN	100.000 kW		585 M		
	Audacy License, LLC		BMLH20060127AFY				
KXBJ	LIC 245C0	El Campo		TX 150.3	177.72	85.5	92.2
28 48 01.1	96 07 33.8	CN	100.000 kW		450 M		
	Hope Media Group		BMLE20130717AIL				

All separation margins include rounding

Exhibit 7a

47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies Toward KHMx(FM) - Houston, TX (Max Class Operating Parameters)

FMCommander Single Allocation Study - 01-22-2024 - NED 03 SEC
KGID.P's Overlaps (In= 0.03 km, Out= 31.64 km)

KGID.P CH 242 A 73.215 N
Lat= 30 11 38.90, Lng= 97 01 55.20
3.6 kW 99.6 m HAAT, 236.2 m COR
Prot.= 60 dBu, Intef.= 54 dBu

KHMx^ CH 243 C BMLH20090814AAR
Lat= 29 34 34.80, Lng= 95 30 36.80
Max Cls: 100.0 kW 600 m HAAT, 620 m COR
Prot.= 60 dBu, Intef.= 54 dBu

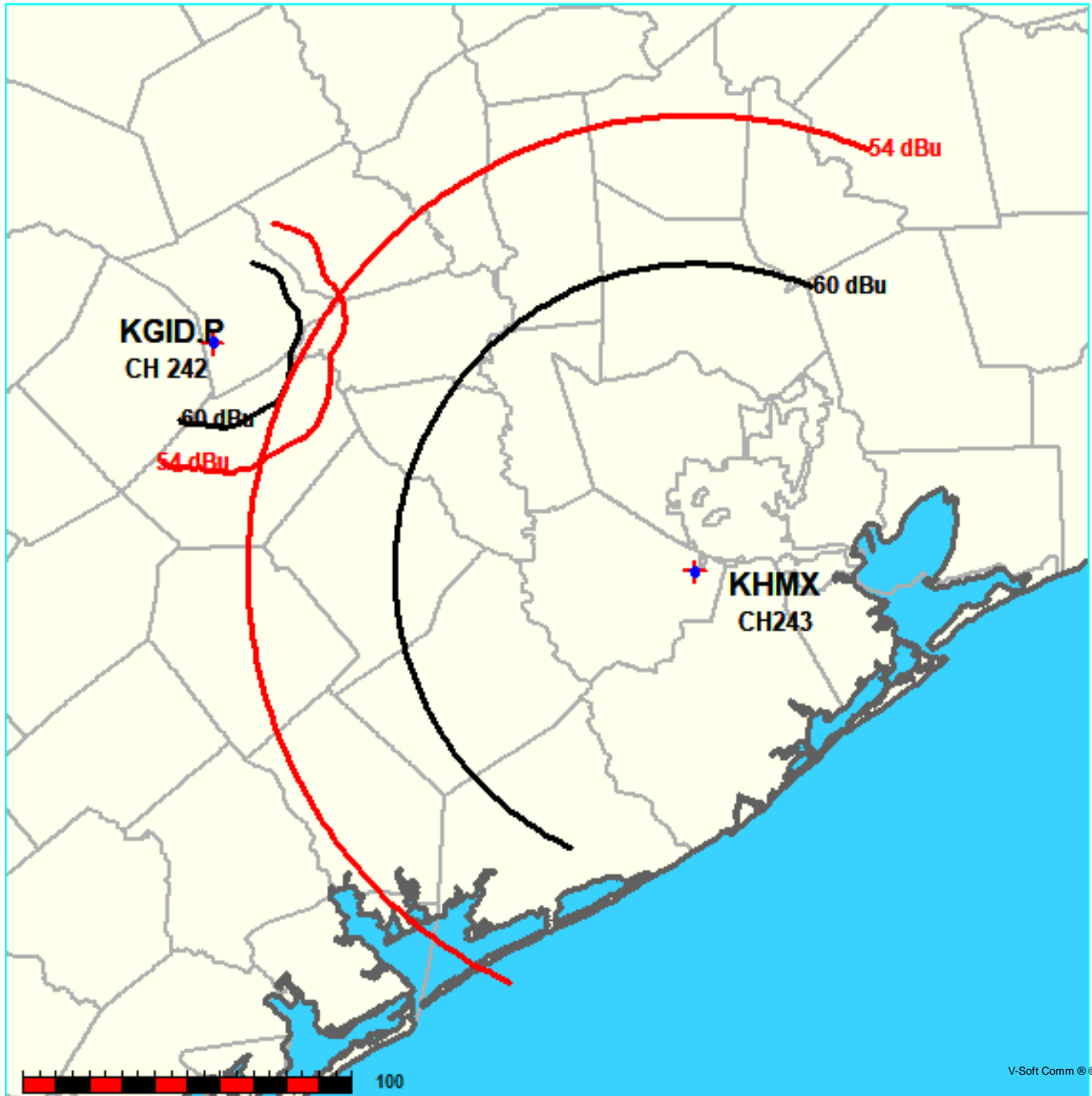


Exhibit 7a

47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies Toward KHMJ(FM) - Houston, TX (Max Class Operating Parameters)

01-22-2024

Terrain Data: NED 03 SEC

FMOver Analysis

KGID.P

Channel = 242A
Max ERP = 3.6 kW
RCAMSL = 236.2 m
N. Lat. 30 11 38.90
W. Lng. 97 01 55.20
Protected
60 dBu

KHMJ BMLH20090814AAR
(^ Max Class Parameters)
Channel = 243C
Max ERP = 100 kW
RCAMSL = 620 m
N. Lat. 29 34 34.80
W. Lng. 95 30 36.80
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
074.0	003.6000	0113.0	026.7	302.5	100.0000	0594.8	142.8	52.32	
075.0	003.6000	0111.8	026.6	302.3	100.0000	0594.8	142.6	52.39	
076.0	003.6000	0111.0	026.5	302.2	100.0000	0594.8	142.3	52.46	
077.0	003.6000	0111.1	026.5	302.0	100.0000	0594.9	141.9	52.54	
078.0	003.6000	0111.1	026.5	301.9	100.0000	0594.9	141.6	52.63	
079.0	003.6000	0110.8	026.5	301.7	100.0000	0594.9	141.3	52.70	
080.0	003.6000	0111.1	026.5	301.6	100.0000	0594.9	141.0	52.78	
081.0	003.6000	0110.5	026.4	301.5	100.0000	0594.9	140.8	52.85	
082.0	003.6000	0109.2	026.3	301.3	100.0000	0594.9	140.6	52.90	
083.0	003.6000	0107.4	026.1	301.1	100.0000	0595.0	140.5	52.93	
084.0	003.6000	0106.4	026.0	300.9	100.0000	0595.0	140.3	52.98	
085.0	003.6000	0105.5	025.9	300.7	100.0000	0595.0	140.1	53.02	
086.0	003.6000	0104.2	025.7	300.5	100.0000	0595.1	140.0	53.06	
087.0	003.6000	0103.1	025.6	300.4	100.0000	0595.1	139.8	53.09	
088.0	003.6000	0101.4	025.4	300.2	100.0000	0595.2	139.8	53.11	
089.0	003.6000	0099.7	025.2	300.0	100.0000	0595.2	139.7	53.13	
090.0	003.6000	0098.6	025.1	299.8	100.0000	0595.3	139.6	53.16	
091.0	003.6000	0097.6	024.9	299.6	100.0000	0595.3	139.5	53.18	
092.0	003.6000	0095.7	024.7	299.4	100.0000	0595.3	139.5	53.18	
093.0	003.6000	0093.9	024.5	299.2	100.0000	0595.3	139.5	53.17	
094.0	003.6000	0092.1	024.3	299.0	100.0000	0595.4	139.5	53.17	
095.0	003.6000	0090.3	024.0	298.8	100.0000	0595.4	139.6	53.16	
096.0	003.6000	0087.9	023.7	298.6	100.0000	0595.5	139.7	53.13	
097.0	003.6000	0087.2	023.6	298.4	100.0000	0595.5	139.6	53.14	
098.0	003.6000	0086.8	023.6	298.3	100.0000	0595.6	139.5	53.17	
099.0	003.6000	0087.0	023.6	298.1	100.0000	0595.6	139.4	53.21	
100.0	003.6000	0087.0	023.6	297.9	100.0000	0595.6	139.3	53.25	
101.0	003.6000	0087.9	023.7	297.8	100.0000	0595.7	139.0	53.30	
102.0	003.6000	0089.2	023.9	297.6	100.0000	0595.7	138.8	53.37	
103.0	003.6000	0089.9	024.0	297.5	100.0000	0595.8	138.6	53.43	
104.0	003.6000	0091.0	024.1	297.3	100.0000	0595.8	138.3	53.49	
105.0	003.6000	0092.0	024.3	297.2	100.0000	0595.9	138.1	53.54	

Exhibit 7a

47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies Toward KHMx(FM) - Houston, TX (Max Class Operating Parameters)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
106.0	003.6000	0092.2	024.3	297.0	100.0000	0596.0	138.0	53.57
107.0	003.6000	0093.0	024.4	296.8	100.0000	0596.1	137.9	53.61
108.0	003.6000	0093.8	024.5	296.7	100.0000	0596.1	137.7	53.66
109.0	003.6000	0094.8	024.6	296.5	100.0000	0596.2	137.5	53.70
110.0	003.6000	0095.3	024.7	296.3	100.0000	0596.3	137.4	53.74
111.0	003.6000	0095.8	024.7	296.1	100.0000	0596.5	137.3	53.76
112.0	003.6000	0096.4	024.8	296.0	100.0000	0596.6	137.2	53.79
113.0	003.6000	0097.6	024.9	295.8	100.0000	0596.7	137.0	53.83
114.0	003.6000	0098.3	025.0	295.6	100.0000	0596.7	136.9	53.86
115.0	003.6000	0099.3	025.2	295.4	100.0000	0596.7	136.8	53.89
116.0	003.6000	0100.3	025.3	295.2	100.0000	0596.8	136.7	53.92
117.0	003.6000	0101.1	025.4	295.0	100.0000	0596.8	136.6	53.94
118.0	003.6000	0102.1	025.5	294.9	100.0000	0596.9	136.5	53.97
119.0	003.6000	0102.8	025.6	294.7	100.0000	0596.9	136.5	53.98
120.0	003.6000	0103.5	025.6	294.5	100.0000	0596.9	136.5	53.99
121.0	003.6000	0103.7	025.7	294.3	100.0000	0596.9	136.5	53.98
122.0	003.6000	0104.4	025.8	294.1	100.0000	0596.9	136.5	53.99
123.0	003.6000	0104.8	025.8	293.9	100.0000	0597.0	136.5	53.98
124.0	003.6000	0105.6	025.9	293.7	100.0000	0597.0	136.5	53.98
125.0	003.6000	0106.3	026.0	293.5	100.0000	0597.1	136.5	53.98
126.0	003.6000	0107.6	026.1	293.3	100.0000	0597.2	136.5	53.99
127.0	003.6000	0108.3	026.2	293.1	100.0000	0597.3	136.5	53.98
128.0	003.6000	0108.8	026.2	292.9	100.0000	0597.3	136.6	53.96
129.0	003.6000	0108.9	026.3	292.8	100.0000	0597.3	136.7	53.93
130.0	003.6000	0109.3	026.3	292.6	100.0000	0597.3	136.8	53.91
131.0	003.6000	0109.0	026.3	292.4	100.0000	0597.3	137.0	53.86
132.0	003.6000	0108.3	026.2	292.2	100.0000	0597.3	137.2	53.80
133.0	003.6000	0109.0	026.3	292.0	100.0000	0597.3	137.3	53.78
134.0	003.6000	0110.0	026.4	291.8	100.0000	0597.3	137.4	53.76
135.0	003.6000	0109.1	026.3	291.7	100.0000	0597.3	137.6	53.69
136.0	003.6000	0107.8	026.1	291.5	100.0000	0597.3	138.0	53.61
137.0	003.6000	0107.1	026.1	291.4	100.0000	0597.4	138.2	53.54
138.0	003.6000	0105.5	025.9	291.2	100.0000	0597.4	138.6	53.44
139.0	003.6000	0104.7	025.8	291.1	100.0000	0597.4	138.9	53.37
140.0	003.6000	0104.1	025.7	290.9	100.0000	0597.4	139.2	53.29
141.0	003.6000	0102.4	025.5	290.8	100.0000	0597.4	139.5	53.19
142.0	003.6000	0101.5	025.4	290.7	100.0000	0597.4	139.9	53.11
143.0	003.6000	0101.6	025.4	290.5	100.0000	0597.4	140.1	53.05
144.0	003.6000	0100.9	025.3	290.4	100.0000	0597.4	140.4	52.97
145.0	003.6000	0100.8	025.3	290.3	100.0000	0597.4	140.7	52.90
146.0	003.6000	0101.1	025.4	290.1	100.0000	0597.4	140.9	52.84
147.0	003.6000	0100.4	025.3	290.0	100.0000	0597.3	141.2	52.76
148.0	003.6000	0099.8	025.2	289.9	100.0000	0597.3	141.6	52.67
149.0	003.6000	0100.3	025.3	289.7	100.0000	0597.3	141.8	52.61

Exhibit 7a

47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies Toward KHMx(FM) - Houston, TX (Max Class Operating Parameters)

01-22-2024

Terrain Data: NED 03 SEC

FMOver Analysis

KHMx BMLH20090814AAR
(^ Max Class Parameters)
Channel = 243C
Max ERP = 100 kW
RCAMSL = 620 m
N. Lat. 29 34 34.80
W. Lng. 95 30 36.80
Protected
60 dBu

KGID.P
Channel = 242A
Max ERP = 3.6 kW
RCAMSL = 236.2 m
N. Lat. 30 11 38.90
W. Lng. 97 01 55.20
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
252.0	100.0000	0599.7	091.8	148.2	003.6000	0099.9	114.4	31.45	
253.0	100.0000	0599.5	091.8	148.0	003.6000	0099.8	112.8	31.73	
254.0	100.0000	0599.4	091.8	147.8	003.6000	0099.8	111.3	32.02	
255.0	100.0000	0599.8	091.8	147.6	003.6000	0100.0	109.7	32.31	
256.0	100.0000	0600.1	091.8	147.4	003.6000	0100.1	108.2	32.62	
257.0	100.0000	0599.9	091.8	147.1	003.6000	0100.4	106.7	32.93	
258.0	100.0000	0599.7	091.8	146.8	003.6000	0100.6	105.2	33.25	
259.0	100.0000	0599.6	091.8	146.5	003.6000	0100.8	103.7	33.58	
260.0	100.0000	0599.7	091.8	146.1	003.6000	0101.0	102.2	33.91	
261.0	100.0000	0599.8	091.8	145.8	003.6000	0101.2	100.7	34.24	
262.0	100.0000	0599.7	091.8	145.4	003.6000	0101.2	099.3	34.58	
263.0	100.0000	0599.7	091.8	145.0	003.6000	0100.8	097.8	34.90	
264.0	100.0000	0599.8	091.8	144.5	003.6000	0100.6	096.4	35.24	
265.0	100.0000	0600.0	091.8	144.0	003.6000	0100.8	095.0	35.60	
266.0	100.0000	0599.3	091.8	143.5	003.6000	0101.3	093.7	35.96	
267.0	100.0000	0599.2	091.8	143.0	003.6000	0101.6	092.3	36.33	
268.0	100.0000	0599.3	091.8	142.4	003.6000	0101.5	091.0	36.68	
269.0	100.0000	0599.3	091.8	141.9	003.6000	0101.5	089.7	37.03	
270.0	100.0000	0599.0	091.8	141.2	003.6000	0101.9	088.4	37.39	
271.0	100.0000	0599.2	091.8	140.6	003.6000	0103.3	087.2	37.80	
272.0	100.0000	0598.8	091.8	139.9	003.6000	0104.1	085.9	38.17	
273.0	100.0000	0598.7	091.8	139.2	003.6000	0104.7	084.8	38.53	
274.0	100.0000	0598.7	091.8	138.4	003.6000	0104.9	083.6	38.86	
275.0	100.0000	0598.6	091.8	137.6	003.6000	0106.4	082.5	39.25	
276.0	100.0000	0598.5	091.8	136.8	003.6000	0107.3	081.4	39.60	
277.0	100.0000	0598.4	091.8	135.9	003.6000	0107.9	080.4	39.92	
278.0	100.0000	0598.4	091.8	135.0	003.6000	0109.1	079.4	40.26	
279.0	100.0000	0598.3	091.8	134.1	003.6000	0110.0	078.4	40.58	
280.0	100.0000	0598.1	091.7	133.1	003.6000	0109.1	077.5	40.80	
281.0	100.0000	0598.1	091.7	132.1	003.6000	0108.3	076.6	41.01	
282.0	100.0000	0598.0	091.7	131.1	003.6000	0108.9	075.8	41.28	

Exhibit 7a

47 C.F.R. Section 73.215 Short-Spaced Contour Protection Studies Toward KHMJ(FM) - Houston, TX (Max Class Operating Parameters)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
283.0	100.0000	0598.0	091.7	130.0	003.6000	0109.3	075.1	41.52
284.0	100.0000	0597.9	091.7	128.9	003.6000	0108.9	074.3	41.71
285.0	100.0000	0597.8	091.7	127.8	003.6000	0108.8	073.7	41.90
286.0	100.0000	0597.6	091.7	126.6	003.6000	0108.1	073.1	42.04
287.0	100.0000	0597.6	091.7	125.4	003.6000	0106.9	072.5	42.14
288.0	100.0000	0597.6	091.7	124.2	003.6000	0105.8	072.0	42.23
289.0	100.0000	0597.5	091.7	123.0	003.6000	0104.8	071.6	42.30
290.0	100.0000	0597.3	091.7	121.8	003.6000	0104.3	071.2	42.38
291.0	100.0000	0597.4	091.7	120.5	003.6000	0103.5	070.9	42.44
292.0	100.0000	0597.3	091.7	119.2	003.6000	0102.9	070.6	42.48
293.0	100.0000	0597.3	091.7	117.9	003.6000	0102.0	070.5	42.48
294.0	100.0000	0597.0	091.7	116.6	003.6000	0100.9	070.3	42.45
295.0	100.0000	0596.8	091.7	115.3	003.6000	0099.6	070.3	42.40
296.0	100.0000	0596.5	091.7	114.0	003.6000	0098.3	070.3	42.32
297.0	100.0000	0596.0	091.7	112.7	003.6000	0097.2	070.4	42.23
298.0	100.0000	0595.6	091.7	111.4	003.6000	0096.0	070.5	42.12
299.0	100.0000	0595.4	091.6	110.1	003.6000	0095.4	070.7	42.03
300.0	100.0000	0595.2	091.6	108.9	003.6000	0094.6	071.0	41.91
301.0	100.0000	0595.0	091.6	107.6	003.6000	0093.4	071.3	41.75
302.0	100.0000	0594.9	091.6	106.4	003.6000	0092.5	071.7	41.58
303.0	100.0000	0594.7	091.6	105.1	003.6000	0092.0	072.2	41.43
304.0	100.0000	0594.7	091.6	103.9	003.6000	0090.9	072.7	41.22
305.0	100.0000	0594.8	091.6	102.8	003.6000	0089.8	073.2	41.00
306.0	100.0000	0594.7	091.6	101.6	003.6000	0088.7	073.8	40.77
307.0	100.0000	0594.5	091.6	100.5	003.6000	0087.4	074.5	40.51
308.0	100.0000	0594.5	091.6	099.4	003.6000	0087.0	075.2	40.28
309.0	100.0000	0594.4	091.6	098.3	003.6000	0086.9	076.0	40.07
310.0	100.0000	0594.4	091.6	097.3	003.6000	0087.0	076.8	39.85
311.0	100.0000	0594.4	091.6	096.3	003.6000	0087.5	077.7	39.63
312.0	100.0000	0594.4	091.6	095.3	003.6000	0089.5	078.6	39.49
313.0	100.0000	0594.6	091.6	094.4	003.6000	0091.4	079.6	39.33
314.0	100.0000	0594.7	091.6	093.5	003.6000	0092.9	080.6	39.13
315.0	100.0000	0594.8	091.6	092.7	003.6000	0094.5	081.6	38.92
316.0	100.0000	0594.8	091.6	091.8	003.6000	0096.0	082.7	38.69
317.0	100.0000	0594.8	091.6	091.1	003.6000	0097.5	083.8	38.46
318.0	100.0000	0594.8	091.6	090.3	003.6000	0098.4	084.9	38.18
319.0	100.0000	0594.9	091.6	089.6	003.6000	0099.1	086.1	37.89
320.0	100.0000	0595.0	091.6	088.9	003.6000	0099.8	087.3	37.59
321.0	100.0000	0595.0	091.6	088.2	003.6000	0100.9	088.6	37.30
322.0	100.0000	0595.1	091.6	087.6	003.6000	0102.1	089.9	37.00
323.0	100.0000	0595.2	091.6	087.0	003.6000	0103.0	091.2	36.70
324.0	100.0000	0595.3	091.6	086.5	003.6000	0103.7	092.5	36.37
325.0	100.0000	0595.7	091.7	085.9	003.6000	0104.3	093.8	36.05
326.0	100.0000	0595.6	091.7	085.4	003.6000	0105.0	095.2	35.73