

**Goldman Engineering Management
Auburn, CA**

W295CF

LICENSE MODIFICATION APPLICATION

This application is being filed on behalf of Beasley Media Group, LLC (“Beasley”) and requests a minor modification to the license for W295CF, BLFT-20161121AAG.

The purpose of this application is to relocate to a new tower (ASR 1302089), 1.2km from the currently licensed site, change AGL height and change antenna pattern to reflect changes in nearby allotments. The primary station will remain WYUU (FM), facility ID 18512.

Facilities Proposed

Location (NAD27)	27° 51’ 23” N Latitude, 82° 37’ 26” W Longitude
Channel	295D (106.9MHz)
Tower Overall AGL Height-	152m
Tower ASR	1302089 (EXHIBIT D)
Proposed Antenna	ERI LPX-4-HW
Antenna AGL Height-	137m
Site AMSL Height-	1m
COR AMSL Height	138m
ERP	250w DIRECTIONAL (SEE EXHIBIT A)

ALLOCATION

A channel study is included as E1 demonstrating compliance with 74.1204 with the exception of 2nd adjacent channels WXGL on 297C1 and WRUB on 293C2 and is contained within the WYUU 60 dBu contour for use as a fill-in translator.

WXGL, WRUB analysis

The proposed channel 295 facility will be located inside the protected contour of 2nd adjacent channel of stations WXGL and WRUB. Therefore, an interference analysis has been conducted based on the D/U ratio of +40 dB at the proposed site. An ERI 4-bay, 1/2 wave spaced antenna will be used to mitigate the interfering contour to keep it well above ground level.

The WXGL contour at that site is 84.65 dBu and the proposed interference contour is 124.65 dBu (50,10). Exhibit E1A demonstrates that the interference contour will clear the ground level by at least 152.7 meters AGL. The WRUB contour at the site is 63.9 dBu and the resulting (50,10) interference contour is 103.9 dBu. Exhibit E1B demonstrates that the interference

contour will clear ground level by at least 21.5 meters. There are no multi-story buildings in the vicinity of the tower.

RF Exposure Calculations

The proposed facility will utilize a three bay 1/2 wave spaced ERI LP-4-HW circularly polarized antenna at 137 meters AGL. The RF contribution of the proposed translator was calculated using the formula included below to be 0.025 $\mu\text{Watts/cm}^2$ or 0.013% of the maximum permissible 200 $\mu\text{Watts/cm}^2$ exposure for general population/uncontrolled exposure, and far less than the 5% requiring further consideration.

EXHIBIT E1 CHANNEL STUDY

ComStudy 2.2 search of channel 295 (106.9 MHz Class D) at 27-51-23.0 N, 82-37-26.0 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE	
WXGL	ST. PETERSBURG	FL	297	C1	0.00	0.00	90.0	-66.93 Db	EXHIBIT E1A
WRUB	SARASOTA	FL	293	C2	34.85	0.00	171.9	-5.14 Db	EXHIBIT E1B
WQTA-LP	TAMPA	FL	295	LP100	36.00	24.00	96.5	0.03 Db	EXHIBIT B
W295BH	SARASOTA	FL	295	D	60.34	0.00	167.9	1.45 Db	EXHIBIT B
WBPU-LP	ST. PETERSBURG	FL	242	LP100	11.90	7.00	193.5	4.9	
WZZS	ZOLFO SPRINGS	FL	295	A	97.97	0.00	123.6	8.56 dB	
WPCQ-LP	CLEARWATER	FL	242	LP100	16.48	7.00	322.2	9.5	
WURK-LP	TAMPA	FL	242	LP100	20.28	7.00	52.1	13.3	
WXXL	TAVARES	FL	294	C1	127.60	0.00	52.0	15.01 dB	
WGHR	SPRING HILL	FL	292	C3	74.83	0.00	5.8	16.26 dB	
910502MF	ZOLFO SPRINGS	FL	295	A	97.77	0.00	123.7	17.72 dB	
W296CS	LAKELAND	FL	296	D	70.73	0.00	82.0	20.52 dB	
WPLL	CROSS CITY	FL	295	C1	195.39	0.00	353.6	23.43 dB	

CDBS data as of 5/15/2017

EXHIBIT E1A- WXGL 2ND ADJACENT INTERFERENCE CALCULATION

W295CF Clearwater , FL
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.25
 Translator or LPFM Antenna Height AG = 137 Meters
 W295CF Antenna Model = SHPX4H

Protected Station's Contour = 83.60284 dBu
 Translator's or LPFM's full Interference contour 123.60284

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
 Distance between stations = 20.6 km
 Protected Station= WXGL, 100 kW, 186 M Meters COR AMSL

Depression Angle From Horizon(Deg) (m)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground
00.00	1.0	1.0	0.2500	073.2534	073.2534	137.000
05.00	0.951	1.0	0.2261	069.6640	069.3989	130.928
10.00	0.814	1.0	0.1656	059.6283	058.7224	126.646
15.00	0.615	1.0	0.0946	045.0509	043.5158	125.340
20.00	0.391	1.0	0.0382	028.6421	026.9148	127.204
25.00	0.178	1.0	0.0079	013.0391	011.8174	131.489
30.00	0.004	1.0	0.0000	000.2930	000.2538	136.853
35.00	0.117	1.0	0.0034	008.5707	007.0207	132.084
40.00	0.182	1.0	0.0083	013.3321	010.2130	128.430
45.00	0.2	1.0	0.0100	014.6507	010.3596	126.640
50.00	0.184	1.0	0.0085	013.4786	008.6639	126.675
55.00	0.15	1.0	0.0056	010.9880	006.3025	127.999
60.00	0.11	1.0	0.0030	008.0579	004.0289	130.022
65.00	0.072	1.0	0.0013	005.2742	002.2290	132.220
70.00	0.042	1.0	0.0004	003.0766	001.0523	134.109
75.00	0.021	1.0	0.0001	001.5383	000.3981	135.514
80.00	0.008	1.0	0.0000	000.5860	000.1018	136.423
85.00	0.002	1.0	0.0000	000.1465	000.0128	136.854
90.00	0.001	1.0	0.0000	000.0733	000.0000	136.927

EXHIBIT E1B- WRUB 2ND ADJACENT INTERFERENCE CALCULATION

W295CF Clearwater , FL
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.25
 Translator or LPFM Antenna Height AG = 137 Meters
 W295CF Antenna Model = SHPX4H

Protected Station's Contour = 64.53715 dBu
 Translator's or LPFM's full Interference contour 104.53715

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
 Distance between stations = 35.0 km
 Protected Station= WRUB, 13 kW, 180 M Meters COR AMSL

Depression Angle From Horizon(Deg) (m)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground
00.00	1.0	1.0	0.2500	657.8282	657.8282	137.000
05.00	0.951	1.0	0.2261	625.5946	623.2141	082.476
10.00	0.814	1.0	0.1656	535.4722	527.3372	044.016
15.00	0.615	1.0	0.0946	404.5644	390.7792	032.291
20.00	0.391	1.0	0.0382	257.2108	241.6991	049.029
25.00	0.178	1.0	0.0079	117.0934	106.1227	087.514
30.00	0.004	1.0	0.0000	002.6313	002.2788	135.684
35.00	0.117	1.0	0.0034	076.9659	063.0468	092.854
40.00	0.182	1.0	0.0083	119.7247	091.7145	060.042
45.00	0.2	1.0	0.0100	131.5656	093.0310	043.969
50.00	0.184	1.0	0.0085	121.0404	077.8033	044.278
55.00	0.15	1.0	0.0056	098.6742	056.5972	056.171
60.00	0.11	1.0	0.0030	072.3611	036.1806	074.333
65.00	0.072	1.0	0.0013	047.3636	020.0167	094.074
70.00	0.042	1.0	0.0004	027.6288	009.4496	111.037
75.00	0.021	1.0	0.0001	013.8144	003.5754	123.656
80.00	0.008	1.0	0.0000	005.2626	000.9138	131.817
85.00	0.002	1.0	0.0000	001.3157	000.1147	135.689
90.00	0.001	1.0	0.0000	000.6578	000.0000	136.342

CERTIFICATION

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direct supervision, and that they are true and correct to the best of his knowledge and belief.

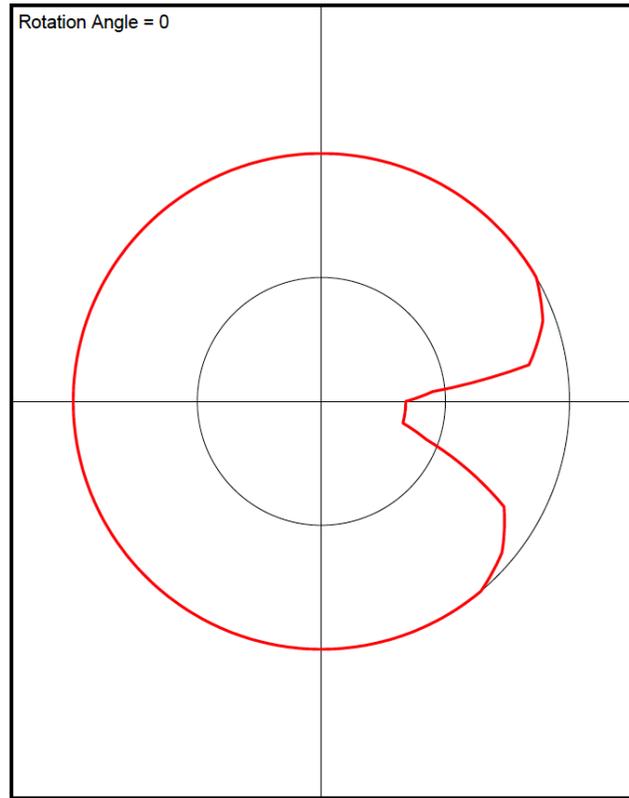
A handwritten signature in cursive script, appearing to read "Bertram S. Goldman". The signature is written in dark ink and has a fluid, connected style.

Bertram S. Goldman

EXHIBIT A- ANTENNA PATTERN

W295CF PROP PAT
Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	1.0
5.0	1.0
10.0	1.0
15.0	1.0
20.0	1.0
25.0	1.0
30.0	1.0
35.0	1.0
40.0	1.0
45.0	1.0
50.0	1.0
55.0	1.0
60.0	1.0
65.0	0.975
70.0	0.95
75.0	0.9
80.0	0.85
85.0	0.45
90.0	0.34
95.0	0.34
100.0	0.34
105.0	0.34
110.0	0.45
115.0	0.65
120.0	0.85
125.0	0.9
130.0	0.95
135.0	0.975
140.0	1.0
145.0	1.0
150.0	1.0
155.0	1.0
160.0	1.0
165.0	1.0
170.0	1.0
175.0	1.0
180.0	1.0
185.0	1.0
190.0	1.0
195.0	1.0
200.0	1.0
205.0	1.0
210.0	1.0
215.0	1.0
220.0	1.0
225.0	1.0
230.0	1.0
235.0	1.0
240.0	1.0
245.0	1.0
250.0	1.0
255.0	1.0
260.0	1.0
265.0	1.0
270.0	1.0
275.0	1.0
280.0	1.0
285.0	1.0
290.0	1.0
295.0	1.0
300.0	1.0
305.0	1.0
310.0	1.0
315.0	1.0



320.0	1.0
325.0	1.0
330.0	1.0
335.0	1.0
340.0	1.0
345.0	1.0
350.0	1.0
355.0	1.0

EXHIBIT B- ALLOCATION

W295CF 250w @ 137m AGL From ASR 1302069- Allocation

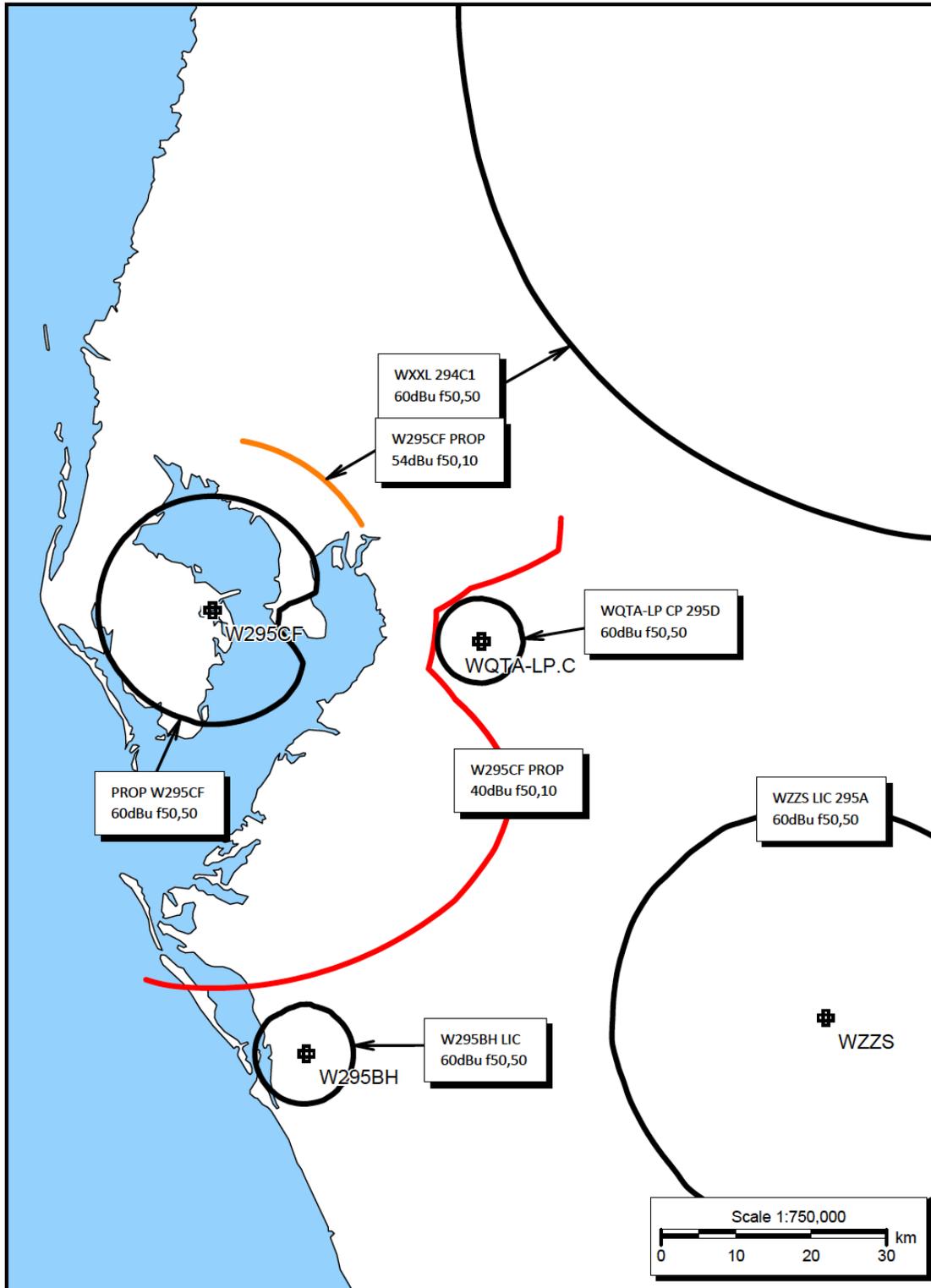


EXHIBIT C- 74.1201(g) Compliance

W295CF 74.1201(g) Compliance

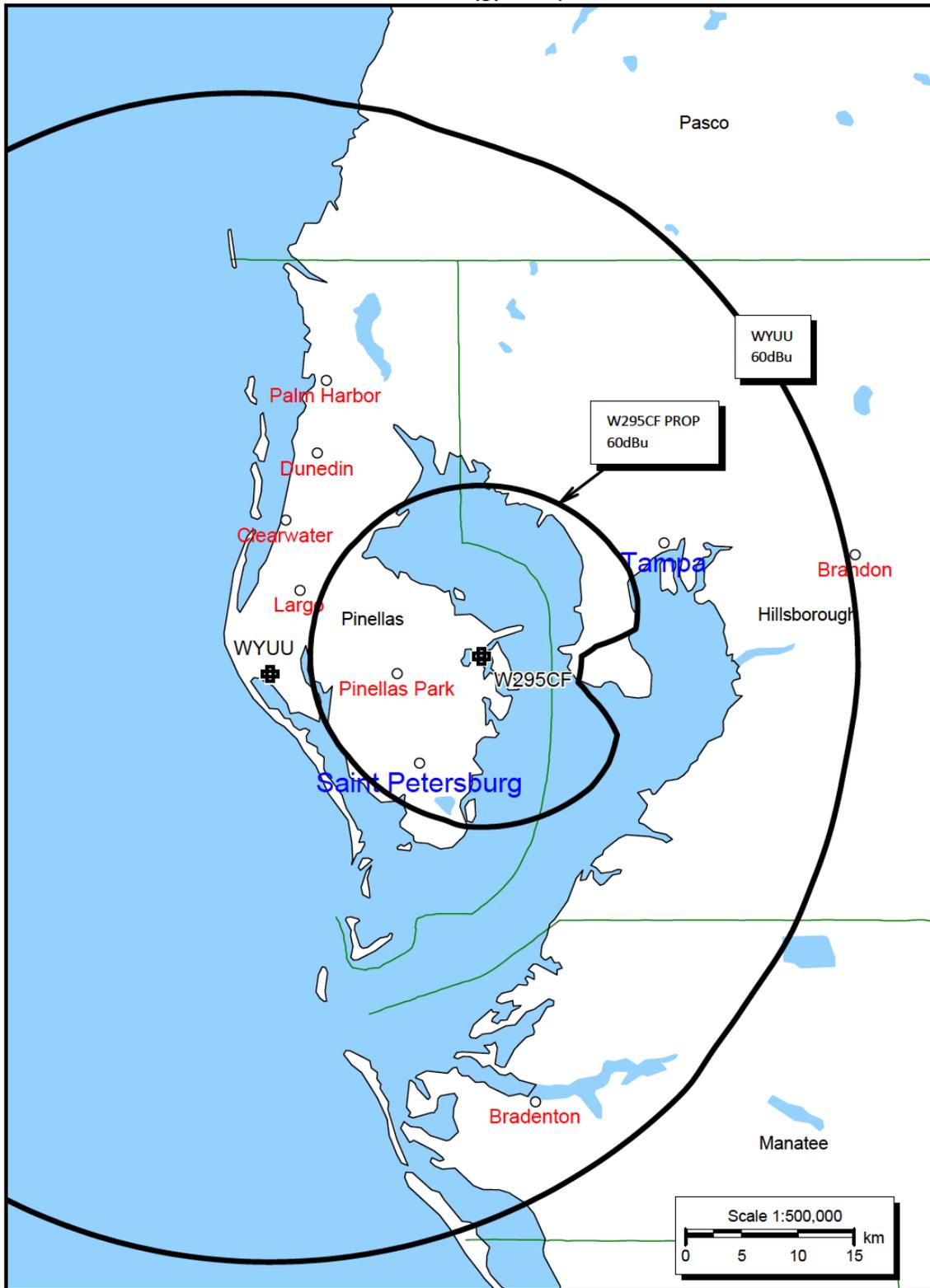


EXHIBIT D- ANTENNA STRUCTURE REGISTRATION

Registration 1302089

[Map Registration](#)

Registration Detail

Reg Number	1302089	Status	Granted
File Number	A1066826	Constructed	
EMI	No	Dismantled	
NEPA			

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	27-51-23.9 N 082-37-25.9 W	Address	9290 San Martin Blvd NE
City, State	St. Petersburg , FL		
Zip	33702	County	PINELLAS
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	0.9	Overall Height Above Ground (AGL)	151.5
Overall Height Above Mean Sea Level	152.4	Overall Height Above Ground w/o Appurtenances	151.5

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1L

FAA Notification

FAA Study	2015-ASO-13555-OE	FAA Issue Date	06/20/2016
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Owner & Contact Information

FRN	0012585485	Owner Entity Type	Corporation
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Owner

Beasley Media Group
Attention To: Michael Cooney
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Contact

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Last Action Status

Status	Granted	Received	04/27/2017
Purpose	Amendment	Entered	04/27/2017
Mode	Interactive		