

**MINOR CHANGE APPLICATION**  
**AMENDMENT TO BNPFT-20030317AFG**  
**GLORY COMMUNICATIONS, INC.**  
**NEW FM TRANSLATOR STATION**  
**CH 286D - 105.1 MHZ - 0.099 KW ND**  
**COLUMBIA, SOUTH CAROLINA**  
**July 2013**

**EXHIBIT D**

As indicated on Exhibit D1, the proposed new FM translator will operate with an effective radiated power of 0.099 kilowatt at 121.9 meters (400 feet) above ground level and will not cause interference to any existing, applied for, or proposed facility, with the exception of the application by Augusta Radio Fellowship Institute, Inc. (BNPFT-20030310ACV). The proposed facility is within the 60 dBu contour of 2<sup>nd</sup> adjacent channel station WNOK, Channel 284C1, Columbia, South Carolina. A settlement agreement between Glory and Augusta Radio Fellowship Institute, Inc., has been reached and is included elsewhere in this application.

As noted on Exhibit D2, the proposed new translator is within the predicted 60 dBu contour of second adjacent station WNOK, Channel 284C1, Columbia, South Carolina. Due to the relationship between the proposed new translator and WNOK, a 40 db ratio of the protected and interfering contours applies.

We have, therefore, calculated the level of signal of WNOK at the proposed new translator's site. A map showing the WNOK contour at the proposed new translator site is attached as Exhibit D2. The WNOK contour at the proposed new translator site is 96.6 dBu (50/50), and the corresponding interfering contour for the new translator is 136.6 dBu (50/10). By using a Shively 6812-1 single bay antenna, the 136.6 dBu interfering contour of the proposed

new translator is limited and does not reach ground level or any building structure. As such, WNOK will not receive interference from the proposed translator. Exhibit D2 is a tabulation of the proposed new translator 136.6 mV/m (50/10) signal.

Based on the foregoing, it is believed that the proposed new FM translator is in compliance with §74.1204(d) of the Commission's rules.

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**EXHIBIT D1**

**Interference Study for New FM Translator**  
**Using Proposed Site as Reference**

Glory Communications, Inc.											
CH# 286D - 105.1 MHz, Pwr= 0.099 kW, HAAT= 163.1 M, COR= 246.8 M DISPLAY DATES											
34 03 23.0 N. Average Protected F(50-50)= 13.1 km DATA 07-19-13											
80 58 50.0 W. Omni-directional SEARCH 07-19-13											
CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
284C1 WNOK Columbia		LIC DCX SC		31.7 211.8	12.34 BLH20031030AAR	34 09 03.0 80 54 36.0	90.000 315	10.2 419	73.0 Capstar Tx Llc	-10.2*<	-61.4*<
287D 628626 Columbia		APP C SC		284.4 104.4	8.08 BNPFT20030310ACV	34 04 28.0 81 03 56.0	0.010 132	9.5 215	6.7 Augusta Radio Fellowship I	-14.9*<	-18.9<
286C3 WPDT Coward		LIC CX SC		98.2 278.8	106.44 BLH20100709AHP	33 54 54.0 79 50 19.0	18.000 117	108.0 142	38.1 Glory Communications, Inc.	-13.7*<	27.4
288D 640268 Columbia		APP C SC		207.7 27.7	6.27 BNPFT20030317AFG	34 00 23.0 81 00 44.0	0.250 33	1.1 104	7.1 Glory Communications, Inc.	-8.8*	-1.5*
287C3 WGFG Branchville		LIC ZCX SC		166.5 346.6	70.10 BLH20091216ACT	33 26 35.0 80 48 16.0	12.500 141	55.8 194	36.8 Miller Communications, Inc	0.0<	11.7
287C1 WOSF Gaffney		LIC CX SC		352.7 172.5	146.61 BLH20100429ADK	35 21 51.0 81 11 13.0	51.000 395	109.3 644	74.2 Gaffney Broadcasting, Inco	25.1	54.3
289C0 WEKL Augusta		LIC CN GA		228.6 48.1	106.19 BMLH20090107AGS	33 25 17.0 81 50 19.0	100.000 371	10.7 454	75.1 Capstar Tx Llc	82.1	30.4
289C0 WEKL Augusta		CP CX GA		228.6 48.1	106.19 BPH20130514AAA	33 25 17.0 81 50 19.0	100.000 371	10.7 454	75.1 Capstar Tx Llc	82.1	30.4
286D W286CG Aiken		CP C SC		231.2 50.8	85.83 BNPFT20130312ADH	33 34 15.0 81 42 11.0	0.016	24.4 245	7.3 Edgewater Broadcasting, In	48.1	34.6

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
Contour distances are on direct line to and from reference station. Reference Zone= East Zone, Co to 3<sup>rd</sup> adjacent.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
\*\*\*affixed to 'IN' or 'OUT' values = site inside protected contour.  
< = Contour Overlap

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**EXHIBIT D2**

Predicted contour:

N. Lat. = 34 03 23 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 80 58 50 - NEW FM Translator - Columbia, South Carolina

HAAT and Distance to Contour - FCC 30 Second Terrain Database										
Azi.	AV EL	HAAT	ERP kW	dBk	Field	136.6-F1	100-F1	60-F5	54-F1	70-F1
000	108.6	138.2	0.0990	-10.04	1.000	0.01	0.70	12.00	17.71	6.80
010	106.7	140.1	0.0990	-10.04	1.000	0.01	0.70	12.09	17.87	6.84
020	106.3	140.5	0.0990	-10.04	1.000	0.01	0.70	12.11	17.90	6.85
030	101.0	145.8	0.0990	-10.04	1.000	0.01	0.70	12.35	18.32	6.97
040	102.6	144.2	0.0990	-10.04	1.000	0.01	0.70	12.28	18.20	6.94
050	104.3	142.5	0.0990	-10.04	1.000	0.01	0.70	12.20	18.06	6.90
060	96.4	150.4	0.0990	-10.04	1.000	0.01	0.70	12.56	18.69	7.09
070	91.7	155.1	0.0990	-10.04	1.000	0.01	0.70	12.77	19.05	7.20
080	92.7	154.1	0.0990	-10.04	1.000	0.01	0.70	12.73	18.98	7.18
090	96.1	150.7	0.0990	-10.04	1.000	0.01	0.70	12.57	18.72	7.09
100	104.6	142.2	0.0990	-10.04	1.000	0.01	0.70	12.18	18.03	6.89
110	96.5	150.3	0.0990	-10.04	1.000	0.01	0.70	12.55	18.68	7.08
120	96.6	150.2	0.0990	-10.04	1.000	0.01	0.70	12.55	18.67	7.08
130	95.8	151.0	0.0990	-10.04	1.000	0.01	0.70	12.58	18.74	7.10
140	72.7	174.1	0.0990	-10.04	1.000	0.01	0.70	13.58	20.42	7.64
150	66.2	180.6	0.0990	-10.04	1.000	0.01	0.70	13.83	20.83	7.79
160	56.5	190.3	0.0990	-10.04	1.000	0.01	0.70	14.16	21.38	7.99
170	52.4	194.4	0.0990	-10.04	1.000	0.01	0.70	14.30	21.62	8.08
180	48.4	198.4	0.0990	-10.04	1.000	0.01	0.70	14.44	21.84	8.16
190	57.1	189.7	0.0990	-10.04	1.000	0.01	0.70	14.14	21.35	7.97
200	59.8	187.0	0.0990	-10.04	1.000	0.01	0.70	14.04	21.19	7.92
210	59.8	187.0	0.0990	-10.04	1.000	0.01	0.70	14.04	21.20	7.92
220	68.8	178.0	0.0990	-10.04	1.000	0.01	0.70	13.73	20.66	7.73
230	78.3	168.5	0.0990	-10.04	1.000	0.01	0.70	13.36	20.04	7.51
240	77.4	169.4	0.0990	-10.04	1.000	0.01	0.70	13.39	20.10	7.53
250	77.4	169.4	0.0990	-10.04	1.000	0.01	0.70	13.39	20.10	7.53
260	73.0	173.8	0.0990	-10.04	1.000	0.01	0.70	13.57	20.40	7.64
270	72.9	173.9	0.0990	-10.04	1.000	0.01	0.70	13.57	20.40	7.64
280	76.7	170.1	0.0990	-10.04	1.000	0.01	0.70	13.42	20.15	7.55
290	72.4	174.4	0.0990	-10.04	1.000	0.01	0.70	13.59	20.43	7.65
300	72.7	174.1	0.0990	-10.04	1.000	0.01	0.70	13.58	20.42	7.64
310	87.0	159.8	0.0990	-10.04	1.000	0.01	0.70	12.98	19.41	7.31
320	96.1	150.7	0.0990	-10.04	1.000	0.01	0.70	12.57	18.71	7.09
330	108.2	138.6	0.0990	-10.04	1.000	0.01	0.70	12.02	17.75	6.81
340	104.4	142.4	0.0990	-10.04	1.000	0.01	0.70	12.19	18.05	6.90
350	106.8	140.0	0.0990	-10.04	1.000	0.01	0.70	12.08	17.86	6.84

AMSL= 246.8 M