

**MINOR CHANGE APPLICATION**  
**WWGP BROADCASTING CORPORATION**  
**WFJA (FM) RADIO STATION**  
**CH 288A - 105.5 MHZ - 2.55 KW**  
**SANFORD, NORTH CAROLINA**  
**July 2007**

**EXHIBIT A**

**Compliance with §73.207, §73.213(a) and §73.215**

**Present Licensed Site**

The licensed WFJA antenna location is shortspaced to three other FM broadcast facilities: WDCG, Channel 286C0, Durham, North Carolina<sup>1</sup>; WDAR-FM, Channel 288C3, Darlington, North Carolina; and a construction permit for station WGQR, Channel 289C3, Elizabethtown, North Carolina, as noted on Exhibit A1.

WFJA was originally authorized on Channel 288A in 1950. WDCG was originally authorized to operate on Channel 286C in Durham, North Carolina in February 1948. The stations have remained shortspaced since that time. As such, the shortages are considered pre-1964 grandfathered shortspaced facilities. Pursuant to §73.213(a)(4) of the rules, pre-1964 grandfathered stations operating on second or third adjacent channels have no minimum distance separation requirements or interference issues that must be addressed. Therefore, WDCG has no impact on the proposed WFJA facility.

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1) WDCG has an outstanding permit to relocate and downgrade to Channel 286C1 at Durham, North Carolina.

The shortages between WFJA, at its licensed site, to both WDAR-FM and WGQR were created by the licensees of WDAR-FM and WGQR, when processing pursuant to §73.215 of the rules was requested, protecting WFJA at its licensed site as a 6.0 kilowatt Class A facility. As such, WFJA is a fully spaced station with respect to WDAR-FM and the pending WGQR facility.

### **Proposed Site**

As indicated on Exhibit A2, WFJA, at its new site, will remain shortspaced to only two of these same stations, since at the proposed new site, the shortage to WGQR is eliminated.<sup>2</sup> The shortage to WDCG, both licensed and authorized, is a second adjacent grandfathered pre-1964 shortage, and is compliant with §73.213(a)(4) of the rules. Therefore, WDCG need not be considered.

The increased shortage to WDAR-FM is a result of the change of site. Since WFJA is moving closer to WDAR-FM, WBC seeks processing pursuant to §73.215 of the rules. The shortage between these stations complies with §73.215(e) of the Commission's rules.

Exhibit A3 specifically demonstrates that there will be no prohibited overlap between the proposed WFJA and authorized WDAR-FM. The contours of WDAR-FM are based on its licensed values, since it was authorized pursuant to §73.215. Attached as Exhibits A4 and A5 are the tabulated distances to the protected and interfering contours, along the pertinent arcs,

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2) The minor shortage to the proposed application for WRDU on Channel 291C1 at Knightsdale, North Carolina, which is being filed contingently with the WFJA application, is less than 0.49 kilometer and, therefore, rounds to zero.

of the proposed WFJA and authorized WDAR-FM. Further, attached as Exhibit A6 are the tabulated and protected contours of the proposed facility, in ten degree increments. Again, there is no prohibited overlap between the facilities.

Based on the foregoing, WFJA is believed to be in compliance with §73.213(a), §73.215 and §73.207, as applicable, towards all other FM stations.

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**EXHIBIT A1**

Clearance Study for WFJA Sanford, North Carolina  
Using Present Site as Reference

REFERENCE	CLASS = A	DISPLAY DATES
35 26 28.0 N.	Current	DATA 07-24-07
79 12 54.0 W.	Spacings	SEARCH 07-24-07
----- Channel 288 - 105.5 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
	Lat.	Lng.	Ant	Power	HAAT		
WFJA	LIC 288A	Sanford		NC 0.0	0.00	115.0	-115.00
	35 26 28	79 12 54	CN	2.250 kW	115 M		
	WWGP Broadcasting Corporation			BLH-19850320KT			
WDCG	LIC 286C0	Durham		NC 6.1	48.10	86.0	-37.90
	35 52 20	79 09 29	CN	100.000 kW	317 M		
	Capstar TX Limited Partnership			BLH-19880721KD			
WDCG.C	CP -N 286C1	Durham		NC 49.7	47.03	75.0	-27.97
	35 42 50	78 49 04	NCX	78.000 kW	321 M		
	Capstar TX Limited Partnership			BPH-20020808AAB			
WDARFM	LIC-N 288C3	Darlington		SC 206.3	139.14	142.0	-2.86
	34 18 58	79 53 17	NCN	17.000 kW	122 M		
	Qantum Of Florence License			BLH-199601115K			
WGQR.C	CP-N 289C3	Elizabethtown		NC 153.7	87.41	89.0	-1.59
	34 44 05	78 47 25	NCX	7.700 kW	178 M		
	Christian Listening Network			BPH-20060411AAL			
WRDU	CP 291C1	Knightdale		NC 49.9	86.62	75.0	11.62
	35 45 36	78 11 04	CX	100.000 kW	416 M		
	Capstar TX Limited Partnership			BPH-20060818ABE			
WRDU	LIC 291C0	Wilson		NC 68.9	99.86	86.0	13.86
	35 45 36	78 11 04	CX	100.000 kW	416 M		
	Capstar TX Limited Partnership			BLH-20020607AAR			
WFMX	LIC-N 289C1	Clemmons		NC 315.1	147.29	133.0	14.29
	36 22 28	80 22 31	NCX	34.000 kW	443 M		
	Clear Channel Broadcasting			BLH-20060724AEQ			

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**July 2007**

**EXHIBIT A2**

Clearance Study for WFJA Sanford, North Carolina  
Using Proposed Site as Reference

REFERENCE	CLASS = A	DISPLAY DATES
35 26 40.0 N.	Current	DATA 07-24-07
79 18 31.0 W.	Spacings	SEARCH 07-24-07
----- Channel 288 - 105.5 MHz -----		

Call	Channel Lat.	Location Lng.	Ant	Azi Power	Dist HAAT	FCC	Margin
<b>WFJA</b>	<b>LIC 288A</b>	<b>Sanford</b>	<b>NC</b>	<b>92.5</b>	<b>8.50</b>	<b>115.0</b>	<b>-106.50</b>
	<b>35 26 28.0</b>	<b>79 12 54.0</b>	<b>CN</b>	<b>2.250 kW</b>	<b>115 M</b>		
	<b>WWGP Broadcasting Corporation</b>			<b>BLH-19850320KT</b>			
1 WDCG	LIC 286C0	Durham	NC	15.9	49.38	86.0	-36.62
	35 52 20.0	79 09 29.0	CN	100.000 kW	317 M		
	Capstar TX Limited Partnership			BLH-19880721KD			
1 WDCG	CP -N 286C1	Durham	NC	55.8	53.60	75.0	-21.40
	35 42 50.0	78 49 04.0	NCX	78.000 kW	321 M		
	Capstar TX Limited Partnership			BPH-20020808AAB			
2 WDAR-FM	LIC-N 288C3	Darlington	SC	203.0	135.92	142.0	-6.08
	34 18 58.0	79 53 17.0	NCN	17.000 kW	122 M		
	Qantum Of Florence License			BLH-199601115K			
3 WRDU	APP 291C1	Knightdale	NC	69.5	74.66	75.0	-0.34
	35 40 35.0	78 32 08.0	C	27.500 kW	488 M		
	Capstar TX Limited Partnership						
	> contingent application						
WGQR	CP -N 289C3	Elizabethtown	NC	149.0	91.83	89.0	2.83
	34 44 05.0	78 47 25.0	NCX	7.700 kW	178 M		
	Christian Listening Network			BPH-20060411AAL			
WMKS	LIC-N 289C1	Clemmons	NC	317.4	141.13	133.0	8.13
	36 22 28.0	80 22 31.0	NCX	34.000 kW	443 M		
	Clear Channel Broadcasting			BLH-20060724AEQ			
WRDU	CP 291C1	Knightdale	NC	53.4	93.07	75.0	18.07
	35 56 25.0	78 28 45.0	CX	80.000 kW	330 M		
	Capstar TX Limited Partnership			BPH-20060818ABE			
WRDU	LIC 291C0	Wilson	NC	70.6	107.71	86.0	21.71
	35 45 36.0	78 11 04.0	CX	100.000 kW	416 M		
	Capstar TX Limited Partnership			BLH-20020607AAR			
WNOW-FM	APP-N 287C0	Bessemer City	NC	263.0	180.43	152.0	28.43
	35 13 57.0	81 16 35.0	NCX	100.000 kW	308 M		
	Gaffney Broadcasting, Inc.			BMPH-20070119ACY			

Note 1: This shortage is a pre-1964 grandfathered shortspace and, therefore, is not considered, see Exhibit A.

Note 2: This shortage is addressed under §73.215 of the rules, see Exhibit A.

Note 3: This shortage is less than 0.49 kilometers and, therefore, rounds to zero.



**Graham Brock, Inc. - Broadcast Technical Consultants**

**WFJA**

Latitude: 35-26-40 N  
Longitude: 079-18-31 W  
ERP: 2.55 kW  
Channel: 288A  
Frequency: 105.5 MHz  
AMS L Height: 248.4 m

**WDAR-FM**

BLH-199601115K  
Latitude: 34-18-58 N  
Longitude: 079-53-17 W  
ERP: 17.00 kW  
Channel: 288C3  
Frequency: 105.5 MHz  
AMS L Height: 166.0 m

WFJA 40 dBu (50/10)

WFJA 60 dBu (50/50)

WDAR-FM 60 dBu (50/50)

WDAR-FM 40 dBu (50/10)

**EXHIBIT A3**

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Scale 1:1,500,000

0 20 40 60 km



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**July 2007**

**EXHIBIT A4**

WFJA - Proposed  
Channel = 288A  
Max ERP = 2.55 kW  
RCAMSL = 248.4 M  
N. Lat = 35 26 40  
W. Lng = 79 18 31

WDAR-FM - BLH-199601115K  
Channel = 288C3  
Max ERP = 17 kW  
RCAMSL = 166 M  
N. Lat = 34 18 58  
W. Lng = 79 53 17

Protected  
60 dBu

Interfering  
40 dBu

**30 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
177.0	002.5500	0129.7	026.2	028.5	017.0000	0125.8	113.0	39.3
178.0	002.5500	0129.7	026.2	028.3	017.0000	0125.8	112.8	39.3
179.0	002.5500	0129.8	026.2	028.1	017.0000	0125.8	112.5	39.3
180.0	002.5500	0129.9	026.2	027.9	017.0000	0125.8	112.3	39.4
181.0	002.5500	0130.4	026.2	027.7	017.0000	0125.8	112.1	39.4
182.0	002.5500	0130.9	026.3	027.5	017.0000	0125.8	111.8	39.5
183.0	002.5500	0131.5	026.3	027.3	017.0000	0125.8	111.6	39.5
184.0	002.5500	0131.8	026.3	027.1	017.0000	0125.8	111.4	39.6
185.0	002.5500	0131.2	026.3	026.9	017.0000	0125.8	111.2	39.6
186.0	002.5500	0130.7	026.2	026.7	017.0000	0125.8	111.1	39.6
187.0	002.5500	0130.3	026.2	026.4	017.0000	0125.6	111.0	39.6
188.0	002.5500	0129.9	026.2	026.2	017.0000	0125.6	110.9	39.7
189.0	002.5500	0130.2	026.2	026.0	017.0000	0125.6	110.7	39.7
190.0	002.5500	0131.0	026.3	025.8	017.0000	0125.6	110.5	39.7
191.0	002.5500	0132.5	026.4	025.6	017.0000	0125.6	110.3	39.8
192.0	002.5500	0134.5	026.6	025.4	017.0000	0125.2	110.0	39.8
193.0	002.5500	0136.5	026.7	025.1	017.0000	0125.2	109.7	39.9
194.0	002.5500	0138.1	026.9	024.9	017.0000	0125.2	109.5	39.9
195.0	002.5500	0139.2	026.9	024.7	017.0000	0125.2	109.3	40.0
196.0	002.5500	0139.8	027.0	024.4	017.0000	0124.7	109.2	40.0
197.0	002.5500	0139.7	027.0	024.2	017.0000	0124.7	109.1	40.0
198.0	002.5500	0139.0	026.9	024.0	017.0000	0124.7	109.1	40.0
199.0	002.5500	0137.8	026.8	023.7	017.0000	0124.7	109.2	40.0
200.0	002.5500	0136.5	026.7	023.5	017.0000	0124.3	109.3	39.9
201.0	002.5500	0135.3	026.6	023.2	017.0000	0124.3	109.3	39.9
202.0	002.5500	0134.2	026.5	023.0	017.0000	0124.3	109.4	39.9
203.0	002.5500	0133.3	026.4	022.7	017.0000	0124.3	109.5	39.9
204.0	002.5500	0132.3	026.4	022.5	017.0000	0123.9	109.6	39.9
205.0	002.5500	0131.4	026.3	022.3	017.0000	0123.9	109.7	39.8
206.0	002.5500	0130.9	026.3	022.0	017.0000	0123.9	109.7	39.8
207.0	002.5500	0130.7	026.2	021.8	017.0000	0123.9	109.8	39.8
208.0	002.5500	0130.5	026.2	021.5	017.0000	0123.9	109.8	39.8
209.0	002.5500	0130.5	026.2	021.3	017.0000	0123.4	109.9	39.8
210.0	002.5500	0130.5	026.2	021.1	017.0000	0123.4	110.0	39.8
211.0	002.5500	0130.4	026.2	020.8	017.0000	0123.4	110.1	39.8
212.0	002.5500	0130.4	026.2	020.6	017.0000	0123.4	110.1	39.7
213.0	002.5500	0130.6	026.2	020.4	017.0000	0123.0	110.2	39.7
214.0	002.5500	0131.1	026.3	020.1	017.0000	0123.0	110.3	39.7
215.0	002.5500	0132.0	026.3	019.9	017.0000	0123.0	110.3	39.7
216.0	002.5500	0133.1	026.4	019.7	017.0000	0123.0	110.3	39.7
217.0	002.5500	0134.5	026.6	019.4	017.0000	0122.7	110.4	39.7

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**EXHIBIT A5**

WDAR-FM - BLH-199601115K  
Channel = 288C3  
Max ERP = 17 kW  
RCAMSL = 166 M  
N. Lat = 34 18 58  
W. Lng = 79 53 17

WFJA - Proposed  
Channel = 288A  
Max ERP = 2.55 kW  
RCAMSL = 248.4 M  
N. Lat = 35 26 40  
W. Lng = 79 18 31

Protected  
60 dBu

Interfering  
40 dBu

**30 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
010.0	017.0000	0123.8	039.4	208.1	002.5500	0130.5	097.9	34.6
011.0	017.0000	0123.8	039.4	207.7	002.5500	0130.5	097.7	34.6
012.0	017.0000	0123.5	039.3	207.3	002.5500	0130.7	097.5	34.7
013.0	017.0000	0123.0	039.3	206.9	002.5500	0130.7	097.4	34.7
014.0	017.0000	0122.3	039.2	206.5	002.5500	0130.9	097.4	34.7
015.0	017.0000	0121.8	039.1	206.1	002.5500	0130.9	097.3	34.7
016.0	017.0000	0121.6	039.1	205.7	002.5500	0130.9	097.2	34.8
017.0	017.0000	0121.9	039.1	205.3	002.5500	0131.4	097.0	34.8
018.0	017.0000	0122.3	039.2	204.9	002.5500	0131.4	096.9	34.9
019.0	017.0000	0122.7	039.2	204.5	002.5500	0131.4	096.8	34.9
020.0	017.0000	0123.0	039.3	204.1	002.5500	0132.3	096.7	34.9
021.0	017.0000	0123.4	039.3	203.7	002.5500	0132.3	096.6	35.0
022.0	017.0000	0123.9	039.4	203.3	002.5500	0133.3	096.5	35.0
023.0	017.0000	0124.3	039.4	202.9	002.5500	0133.3	096.5	35.0
024.0	017.0000	0124.7	039.5	202.5	002.5500	0134.2	096.4	35.1
025.0	017.0000	0125.2	039.5	202.1	002.5500	0134.2	096.4	35.1
026.0	017.0000	0125.6	039.6	201.6	002.5500	0134.2	096.4	35.1
027.0	017.0000	0125.8	039.6	201.2	002.5500	0135.3	096.4	35.1
028.0	017.0000	0125.8	039.6	200.8	002.5500	0135.3	096.5	35.1
029.0	017.0000	0125.8	039.6	200.4	002.5500	0136.5	096.6	35.1
030.0	017.0000	0125.6	039.6	200.0	002.5500	0136.5	096.7	35.1
031.0	017.0000	0125.5	039.6	199.6	002.5500	0136.5	096.9	35.1
032.0	017.0000	0125.4	039.6	199.2	002.5500	0137.8	097.0	35.1
033.0	017.0000	0125.4	039.6	198.8	002.5500	0137.8	097.2	35.0
034.0	017.0000	0125.5	039.6	198.4	002.5500	0139.0	097.3	35.0
035.0	017.0000	0125.6	039.6	198.0	002.5500	0139.0	097.5	35.0
036.0	017.0000	0125.6	039.6	197.7	002.5500	0139.0	097.7	34.9
037.0	017.0000	0125.5	039.6	197.3	002.5500	0139.7	098.0	34.9
038.0	017.0000	0125.4	039.6	196.9	002.5500	0139.7	098.2	34.8
039.0	017.0000	0125.6	039.6	196.5	002.5500	0139.7	098.5	34.8
040.0	017.0000	0126.0	039.6	196.1	002.5500	0139.8	098.7	34.7
041.0	017.0000	0126.2	039.7	195.8	002.5500	0139.8	099.0	34.6
042.0	017.0000	0126.3	039.7	195.4	002.5500	0139.2	099.3	34.5
043.0	017.0000	0126.3	039.7	195.1	002.5500	0139.2	099.6	34.5
044.0	017.0000	0126.2	039.7	194.7	002.5500	0139.2	099.9	34.4
045.0	017.0000	0126.2	039.7	194.4	002.5500	0138.1	100.3	34.2
046.0	017.0000	0126.3	039.7	194.0	002.5500	0138.1	100.6	34.2
047.0	017.0000	0126.3	039.7	193.7	002.5500	0138.1	101.0	34.1
048.0	017.0000	0126.3	039.7	193.4	002.5500	0136.5	101.4	33.9
049.0	017.0000	0126.3	039.7	193.1	002.5500	0136.5	101.8	33.8
050.0	017.0000	0126.4	039.7	192.7	002.5500	0136.5	102.2	33.7



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**EXHIBIT A6**

Predicted contour:

N. Lat. = 35 26 40 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 79 18 31 - WFJA Radio Station - Sanford, North Carolina

HAAT and Distance to Contour - FCC Method - NGDC 30 Second terrain database  
Azi. HAAT ERP kW dBk Field 60-F5 40-F1 54-F1 100-F1

000	155.3	2.5500	4.07	1.000	28.29	82.38	42.79	2.50
010	164.8	2.5500	4.07	1.000	29.08	83.70	43.89	2.56
020	166.7	2.5500	4.07	1.000	29.23	83.95	44.10	2.57
030	168.2	2.5500	4.07	1.000	29.35	84.16	44.28	2.58
040	162.2	2.5500	4.07	1.000	28.86	83.34	43.59	2.54
050	157.8	2.5500	4.07	1.000	28.49	82.73	43.08	2.51
060	148.6	2.5500	4.07	1.000	27.73	81.42	42.00	2.46
070	142.2	2.5500	4.07	1.000	27.19	80.47	41.23	2.42
080	136.5	2.5500	4.07	1.000	26.71	79.59	40.52	2.39
090	132.5	2.5500	4.07	1.000	26.39	78.97	40.03	2.37
100	136.1	2.5500	4.07	1.000	26.69	79.54	40.48	2.39
110	139.0	2.5500	4.07	1.000	26.93	79.99	40.85	2.41
120	134.5	2.5500	4.07	1.000	26.55	79.29	40.28	2.38
130	131.1	2.5500	4.07	1.000	26.27	78.75	39.85	2.36
140	121.4	2.5500	4.07	1.000	25.46	77.19	38.59	2.31
150	127.8	2.5500	4.07	1.000	25.99	78.23	39.43	2.35
160	123.3	2.5500	4.07	1.000	25.62	77.51	38.85	2.32
170	127.6	2.5500	4.07	1.000	25.98	78.20	39.41	2.34
180	129.9	2.5500	4.07	1.000	26.17	78.56	39.70	2.36
190	131.0	2.5500	4.07	1.000	26.26	78.73	39.84	2.36
200	136.5	2.5500	4.07	1.000	26.72	79.60	40.53	2.39
210	130.5	2.5500	4.07	1.000	26.22	78.66	39.77	2.36
220	138.3	2.5500	4.07	1.000	26.87	79.87	40.75	2.40
230	148.7	2.5500	4.07	1.000	27.73	81.42	42.01	2.46
240	159.5	2.5500	4.07	1.000	28.64	82.97	43.28	2.53
250	165.4	2.5500	4.07	1.000	29.12	83.78	43.96	2.56
260	163.9	2.5500	4.07	1.000	29.00	83.58	43.79	2.55
270	157.2	2.5500	4.07	1.000	28.44	82.64	43.01	2.51
280	157.0	2.5500	4.07	1.000	28.43	82.62	42.99	2.51
290	162.5	2.5500	4.07	1.000	28.89	83.39	43.63	2.54
300	154.3	2.5500	4.07	1.000	28.20	82.24	42.68	2.49
310	145.3	2.5500	4.07	1.000	27.45	80.93	41.61	2.44
320	141.9	2.5500	4.07	1.000	27.17	80.42	41.20	2.42
330	148.9	2.5500	4.07	1.000	27.76	81.46	42.04	2.46
340	154.4	2.5500	4.07	1.000	28.21	82.26	42.69	2.49
350	150.2	2.5500	4.07	1.000	27.86	81.64	42.19	2.47

AMSL= 248.4 M