

Fountain Inn SC Ch289 spacing report  
EXHIBIT 12  
Channel Search Fountain Inn SC  
Ted A McCall

ComStudy 2.2 search of channel 289 (105.7 MHz Class D) at 34-42-28.0 N, 82-13-46.0 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
WAGI-FM	GAFFNEY	SC	287	C	89.01	0.00	27.5	38.81 dB
	GLENVILLE	NC	289	A	95.97	0.00	301.9	30.83 dB
WZNY	AUGUSTA	GA	289	C	143.70	0.00	169.6	39.14 dB
WGVC*	SIMPSONVILLE	SC	292	C3	11.84	0.00	122.2	11.42 dB
NEW	TOCCOA	GA	288	D	104.92	0.00	264.5	36.08 dB
NEW	BLACK MOUNTAIN	NC	289	D	102.74	0.00	354.1	30.27 dB
NEW	CASHIERS	NC	289	D	92.38	0.00	301.2	14.16 dB
NEW	MAULDIN	SC	235	D	14.51	0.00	336.0	14.5
NEW	ARIAL	SC	289	D	40.28	0.00	291.5	7.84 dB
NEW	FOUNTAIN INN	SC	289	D	0.15	0.00	90.0	-20.85 dB
NEW	ANDERSON	SC	289	D	43.16	0.00	240.3	9.86 dB
NEW	EASLEY	SC	235	D	34.66	0.00	289.1	34.7
NEW	JOHNSON CITY	TN	289	D	179.62	0.00	356.8	39.82 dB
W290AE	LAURENS	SC	290	D	32.73	0.00	136.8	16.89 dB
WZKQ-LP	HODGES	SC	287	LP100	48.07	6.00	180.5	33.91 dB
WFBP-LP	TAYLORS	SC	288	LP100	25.14	13.00	333.6	15.83 dB
NEW	RUTHERFORDTON	NC	291	LP100	69.44	6.00	22.9	26.95 dB
WFBP-LP	TAYLORS	SC	291	LP100	25.14	6.00	333.6	22.93 dB
WFBP-LP	TAYLORS	SC	291	LP100	25.13	6.00	333.7	23.26 dB
NEW	COLUMBIA	SC	288	D	136.36	0.00	124.6	39.89 dB
NEW	FRANKLIN	NC	289	D	116.87	0.00	302.3	17.65 dB
NEW	BRISTOL	TN	289	D	209.57	0.00	1.7	35.38 dB
NEW	BRISTOL	TN	289	D	191.40	0.00	2.5	23.12 dB
W249AK	BRISTOL	TN	289	D	209.57	0.00	1.7	35.38 dB
WHEL	HELEN	GA	286	A	137.39	0.00	272.3	39.75 dB
WHEL	HELEN	GA	286	A	137.39	0.00	272.3	39.71 dB
WEHR	ELBERTON	GA	286	A	80.21	0.00	215.6	37.02 dB
WEHR	ELBERTON	GA	286	A	80.21	0.00	215.6	37.02 dB
WEHR	ELBERTON	GA	286	A	94.08	0.00	212.2	30.90 dB
WGVC	SIMPSONVILLE	SC	292	C3	16.02	0.00	21.0	-17.45 dB
WNMX-FM	WAXHAW	NC	291	C2	132.84	0.00	81.1	32.36 dB
WAGI-FM	GAFFNEY	SC	287	C	88.66	0.00	27.6	0.70 dB
WAGI-FM	GAFFNEY	SC	287	C	88.67	0.00	27.6	0.71 dB
WAGI-FM	GAFFNEY	SC	287	C	88.67	0.00	27.6	3.11 dB
WAGI-FM	GAFFNEY	SC	287	C	89.01	0.00	27.5	3.48 dB
WAGI-FM	GAFFNEY	SC	287	C	88.66	0.00	27.6	3.10 dB
WFMX	STATESVILLE	NC	289	C	186.63	0.00	47.5	26.60 dB
WZNY	AUGUSTA	GA	289	C	147.24	0.00	165.8	19.48 dB
WNGC	TOCCOA	GA	291	C1	136.05	0.00	254.7	21.71 dB
WNGC	TOCCOA	GA	291	C1	136.05	0.00	254.7	21.71 dB

CALL FORMAT LATITUDE	ST ARN LONGITUDE	CITY OWNERS HAAT:m AMSL:m	FREQ CHN	CL	ERP	STAT
NEW Unknown or 34-42-28.0	SC New CP N 82-13-46.0 W	FOUNTAIN INN BNPFT20030317GNO TED A MCCALL 74.972 319.000	105.70000	D	13.00	APP
WAGI-FM Unknown or 35-25-05.0	SC New CP N 81-46-32.0 W	GAFFNEY GAFFNEY BROADCASTING, INC. 198.403 520.000	105.30000	C	0.00	USE
Unknown or 35-09-38.0	NC New CP N 83-07-28.0 W	GLENVILLE RM10602 -9.028 1070.000	105.70000	A	0.00	APP
WZNY Unknown or 33-26-00.0	GA New CP N 81-57-00.0 W	AUGUSTA CAPSTAR TX LIMITED PARTNERSHIP -26.029 40.000	105.70000	C	0.00	USE
WGVC* Unknown or 34-39-04.0	SC New CP N 82-07-12.0 W	SIMPSONVILLE FM ALLOTMENT 23.542 240.000	106.30000	C3	0.00	RSV
NEW Unknown or 34-36-43.6	GA New CP N 83-22-05.4 W	TOCCOA BNPFT20030317DOJ RADIO ASSIST MINISTRY INC. 237.028 593.000	105.50000	D	10.00	APP
NEW Unknown or 35-37-44.0	NC New CP N 82-20-46.0 W	BLACK MOUNTAIN BNPFT20030317GOI WESTERN NORTH CAROLINA PUBLIC RADIO, INC. 60.625 1010.000	105.70000	D	10.00	APP
NEW Unknown or 35-08-06.0	NC New CP N 83-05-50.0 W	CASHIERS BNPFT20030317ERJ GEORGIA-CAROLINA RADIOCASTING COMPANY, LLC 365.861 1441.000	105.70000	D	10.00	APP
NEW Unknown or 34-49-38.0	SC New CP N 82-17-39.0 W	MAULDIN BNPFT20030317GYF TED A MCCALL 101.903 376.000	94.90000	D	13.00	APP
NEW Unknown or 34-50-23.0	SC New CP N 82-38-22.0 W	ARIAL BNPFT20030317GYT TED A MCCALL 102.431 405.000	105.70000	D	13.00	APP
NEW Unknown or 34-30-53.0	SC New CP N 82-38-17.0 W	ANDERSON BNPFT20030317GQY TED A MCCALL 80.056 307.000	105.70000	D	27.00	APP
NEW Unknown or 34-48-33.0	SC New CP N 82-35-15.0 W	EASLEY BNPFT20030317GWW TED A MCCALL 45.833 335.000	94.90000	D	30.00	APP
NEW Unknown or 36-19-27.0	TN New CP N 82-20-30.0 W	JOHNSON CITY BNPFT20030317LOA JILL SHORT 67.653 613.000	105.70000	D	55.00	APP
W290AE Unknown or 34-29-35.0	SC New CP N 81-59-05.0 W	LAURENS BLFT19991214ACN BIBLE BROADCASTING NETWORK, INC. 63.556 253.000	105.90000	D	80.00	LIC
WZKQ-LP Unknown or 34-16-28.0	SC New CP N 82-14-02.0 W	HODGES BMPL20030610ADX HODGES WOMEN IN BROADCASTING CLUB 48.706 224.000	105.30000	LP100	100.00	CP MOD

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WFBP-LP	SC	TAYLORS	105.50000	LP100	100.00	APP
Unknown or	New	CP BMPL20030205AAC	TAYLORS	PUBLIC RADIO, INC.		
34-54-38.0	N	82-21-08.0 W	35.806	329.000		
NEW	NC	RUTHERFORDTON	106.10000	LP100	100.00	APP
Unknown or	New	CP BNPL20010611ADR	SALT RADIO			
35-17-01.0	N	81-55-53.0 W	359.556	629.000		
WFBP-LP	SC	TAYLORS	106.10000	LP100	100.00	CP MOD
Unknown or	New	CP BMPL20020215ABO	TAYLORS	PUBLIC RADIO, INC.		
34-54-38.0	N	82-21-08.0 W	35.806	329.000		
WFBP-LP	SC	TAYLORS	106.10000	LP100	100.00	CP
Unknown or	New	CP BNPL20010117ABY	TAYLORS	PUBLIC RADIO, INC.		
34-54-38.0	N	82-21-07.0 W	35.806	329.000		
NEW	SC	COLUMBIA	105.50000	D	250.00	APP
Unknown or	New	CP BNPFT20030317AFG	GLORY COMMUNICATIONS, INC.			
34-00-23.0	N	81-00-44.0 W	36.721	104.000		
NEW	NC	FRANKLIN	105.70000	D	250.00	APP
Unknown or	New	CP BNPFT20030317EMT	GEORGIA-CAROLINA RADIOCASTING COMPANY, LLC			
35-15-52.0	N	83-18-58.0 W	425.458	1259.000		
NEW	TN	BRISTOL	105.70000	D	250.00	APP
Unknown or	New	CP BNPFT20030317LHO	HOLSTON VALLEY BROADCASTING CORPORATION			
36-35-45.0	N	82-09-42.0 W	84.347	639.000		
NEW	TN	BRISTOL	105.70000	D	250.00	APP
Unknown or	New	CP BNPFT20030317FIW	MURRAY COMMUNICATIONS			
36-25-52.6	N	82-08-15.5 W	659.639	1287.000		
W249AK	TN	BRISTOL	105.70000	D	250.00	APP
Unknown or	New	CP BPFT20030731AXE	HOLSTON VALLEY BROADCASTING CORP.			
36-35-45.0	N	82-09-42.0 W	84.347	639.000		
WHEL	GA	HELEN	105.10000	A	1700.00	LIC
Unknown or	New	CP BLH19931210KB	CITICASTERS LICENSES, L.P.			
34-44-55.0	N	83-43-43.0 W	187.069	857.000		
WHEL	GA	HELEN	105.10000	A	1700.00	APP
Unknown or	New	CP BPH20030609ADM	CITICASTERS LICENSES, L.P.			
34-44-55.0	N	83-43-43.0 W	187.069	857.000		
WEHR	GA	ELBERTON	105.10000	A	5200.00	APP
Unknown or	New	CP BPH20021206AAT	GEORGIA-CAROLINA RADIOCASTING COMPANY, LLC			
34-07-10.0	N	82-44-12.0 W	104.265	260.000		
WEHR	GA	ELBERTON	105.10000	A	5200.00	APP
Unknown or	New	CP BPH20021206AAT	GEORGIA-CAROLINA RADIOCASTING COMPANY, LLC			
34-07-10.0	N	82-44-12.0 W	104.265	260.000		
WEHR	GA	ELBERTON	105.10000	A	6000.00	LIC
Unknown or	New	CP BLH19980521KC	GEORGIA-CAROLINA RADIOCASTING COMPANY, LLC			
33-59-22.0	N	82-46-23.0 W	101.191	242.000		
WGVC	SC	SIMPSONVILLE	106.30000	C3	25000.00	LIC
Unknown or	New	CP BLH20021202AAG	SIMPSONVILLE BROADCASTING LLC			
34-50-33.0	N	82-09-59.0 W	101.417	346.000		
WNMX-FM	NC	WAXHAW	106.10000	C2	32000.00	LIC
Unknown or	New	CP BLH20000314ABS	GHB OF WAXHAW, INC			
34-53-01.0	N	80-47-37.0 W	110.861	281.000		

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WAGI-FM	SC	GAFFNEY	105.30000	C	100000.00	APP
Unknown or	New	CP BPH20030320ABF	GAFFNEY	BROADCASTING, INC.		
35-24-52.0	N	81-46-32.0 W	451.931	772.000		
WAGI-FM	SC	GAFFNEY	105.30000	C	100000.00	APP
Unknown or	New	CP BPH20030320ABF	GAFFNEY	BROADCASTING, INC.		
35-24-52.0	N	81-46-31.0 W	452.139	772.000		
WAGI-FM	SC	GAFFNEY	105.30000	C	100000.00	APP
Unknown or	New	CP BPH20030320ABG	GAFFNEY	BROADCASTING, INC.		
35-24-52.0	N	81-46-31.0 W	373.139	693.000		
WAGI-FM	SC	GAFFNEY	105.30000	C	100000.00	LIC
Unknown or	New	CP BLH19790123AD	GAFFNEY	BROADCASTING, INC.		
35-25-05.0	N	81-46-32.0 W	361.403	683.000		
WAGI-FM	SC	GAFFNEY	105.30000	C	100000.00	APP
Unknown or	New	CP BPH20030320ABG	GAFFNEY	BROADCASTING, INC.		
35-24-52.0	N	81-46-32.0 W	372.931	693.000		
WFMX	NC	STATESVILLE	105.70000	C	100000.00	LIC
Unknown or	New	CP BLH19871007KA	MERCURY	BROADCASTING COMPANY, INC.		
35-49-55.0	N	80-42-13.0 W	465.639	703.000		
WZNY	GA	AUGUSTA	105.70000	C	100000.00	LIC
Unknown or	New	CP BLH19981209KA	CAPSTAR	TX LIMITED PARTNERSHIP		
33-25-15.0	N	81-50-19.0 W	373.191	454.000		
WNGC	GA	TOCCOA	106.10000	C1	100000.00	CP
Unknown or	New	CP BPH20000911AAR	SOUTHERN	BROADCASTING OF PENSACOLA, INC		
34-22-40.0	N	83-39-25.0 W	298.653	619.000		
WNGC	GA	TOCCOA	106.10000	C1	100000.00	LIC
Unknown or	New	CP BLH20000911ACX	SOUTHERN	BROADCASTING OF PENSACOLA, INC		
34-22-40.0	N	83-39-25.0 W	298.653	619.000		

## **Exhibit 12 (Compliance with CFR 74.1204)**

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station WGVC channel 292, Simpsonville, SC. The predicted F(50-50) field strength of WGVC at the proposed translator site is 76.5 dBu; see Exhibit 12 d. Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 116.5 dBu. This interfering contour extends less than 40 meters from the proposed transmit antenna in the horizontal plane.

To reduce the possibility of this translator causing interference to WGVC, Ted A McCall proposes to use a Dielectric DCRL-2C75 two bay .75 wave spaced antenna to reduce signal levels in areas near our transmitter site. The attached table shows the predicted signal levels under the antenna and that the area of overlap does not reach the ground and is unpopulated.

On August 23, 2003 I, Ted A McCall, visited the proposed transmitter site for this application. The tower is the non-directional transmit tower of WFIS AM. The nearest building is the single story transmitter and studio building of WFIS about 30 meters from tower. The next close building is a one-story office for the local newspaper 52 meters from tower. The area is mostly undeveloped with no buildings over 2 stories tall within 200 meters of tower. Attached is a photo of the tower and surrounding area.

Therefore, Ted A McCall respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

# Ted A McCall

## Exhibit 12

Ted A McCall proposes to use a Dielectric DCRL-2C75 antenna to reduce signal levels on ground near the tower.

This work sheet shows expected signal levels on the ground and at a safety plane "X" meters AGL

Distances and signal levels are computed for every 5 degrees below horizontal at antenna center of radiation.

This safety plane is based on the highest likely receiver elevation AGL. Distance from Antenna is also computed to the intercept of the safety plane or ground level and a line from the antenna center of radiation.

**0.013 Kilowatts ERP**

**Antenna Make: Dielectric**

**44 Meters AGL to Radiation Center**

**Antenna Model: DCRL2-75**

**9 Meters AGL of Highest Receiver ( Safety Plane)**

**116.5 dbu Interfering contour**

Angle	Antenna	ERP	ERP	Distance from	Dist.From Ant.	Field Strength	Dist.From Ant.	Field Strength
Below Horizoi	Rel. Field	Kwatts	DbK	Antenna to Interfering	toSafety Plane	In dbu at	to Ground Level	In Dbu at
						Safety Plane		Ground Level
0	1.000	0.0130	-18.86	38 m	INF		INF	
5	0.975	0.0124	-19.08	37 m	401.6 m	95.8 dbu	504.8 m	93.8 dbu
10	0.902	0.0106	-19.76	34 m	201.6 m	101.1 dbu	253.4 m	99.1 dbu
15	0.788	0.0081	-20.93	30 m	135.2 m	103.4 dbu	170.0 m	101.4 dbu
20	0.645	0.0054	-22.67	24 m	102.3 m	104.1 dbu	128.6 m	102.1 dbu
25	0.486	0.0031	-25.13	18 m	82.8 m	103.4 dbu	104.1 m	101.4 dbu
30	0.325	0.0014	-28.62	12 m	70.0 m	101.4 dbu	88.0 m	99.4 dbu
35	0.174	0.0004	-34.05	7 m	61.0 m	97.2 dbu	76.7 m	95.2 dbu
40	0.042	0.0000	-46.40	2 m	54.5 m	85.8 dbu	68.5 m	83.8 dbu
45	0.065	0.0001	-42.60	2 m	49.5 m	90.4 dbu	62.2 m	88.4 dbu
50	0.149	0.0003	-35.40	6 m	45.7 m	98.3 dbu	57.4 m	96.3 dbu
55	0.196	0.0005	-33.02	7 m	42.7 m	101.3 dbu	53.7 m	99.3 dbu
60	0.216	0.0006	-32.17	8 m	40.4 m	102.6 dbu	50.8 m	100.6 dbu
65	0.218	0.0006	-32.09	8 m	38.6 m	103.1 dbu	48.5 m	101.1 dbu
70	0.203	0.0005	-32.71	8 m	37.2 m	102.8 dbu	46.8 m	100.8 dbu
75	0.176	0.0004	-33.95	7 m	36.2 m	101.8 dbu	45.6 m	99.8 dbu
80	0.143	0.0003	-35.75	5 m	35.5 m	100.2 dbu	44.7 m	98.2 dbu
85	0.110	0.0002	-38.03	4 m	35.1 m	98.0 dbu	44.2 m	96.0 dbu
90	0.100	0.0001	-38.86	4 m	35.0 m	97.2 dbu	44.0 m	95.2 dbu

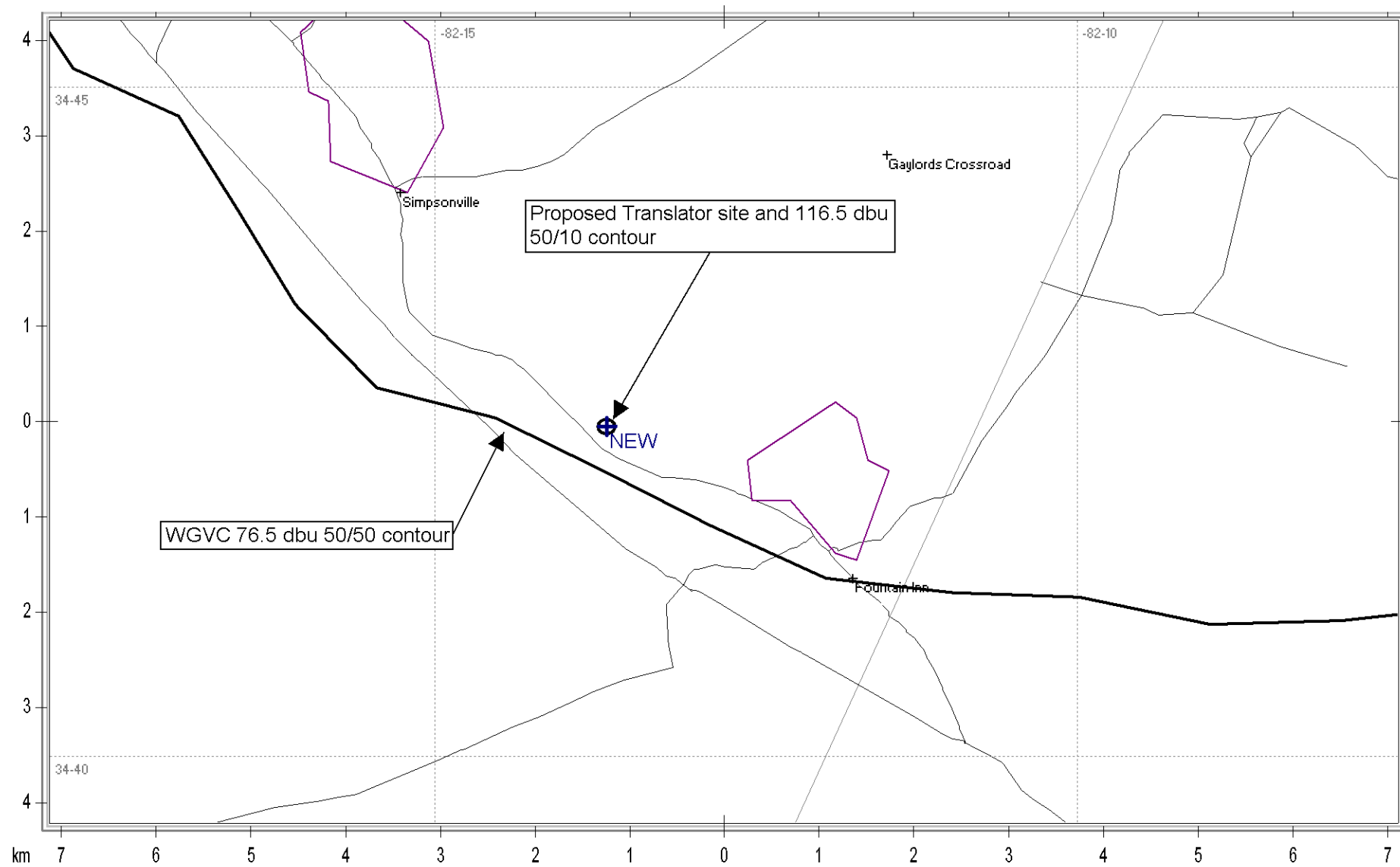
Formulas used

Distance to Contour =

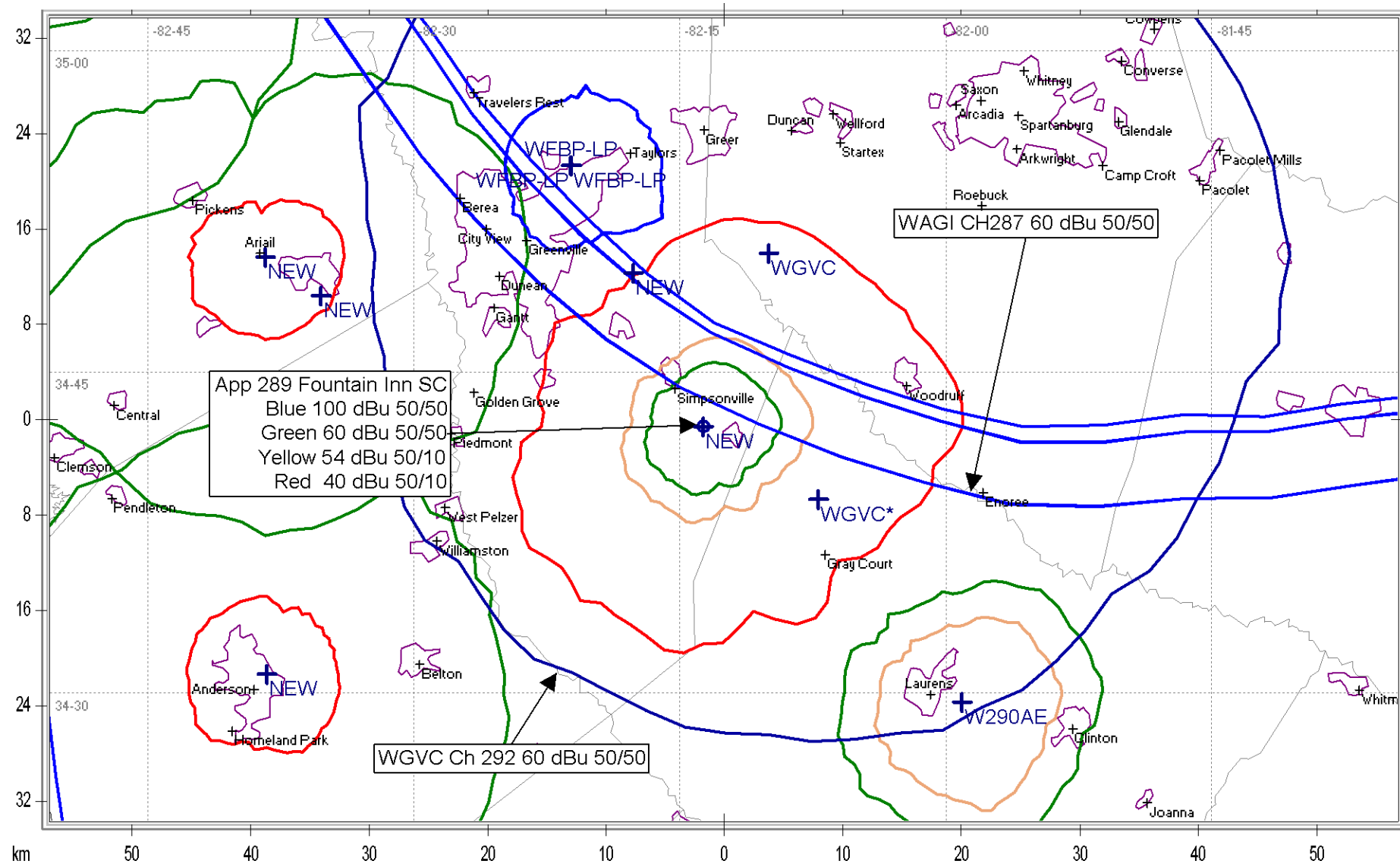
Field Strength=

$(10^{((106.92 - [\text{desiredDbu}] + [\text{ERPInDbK}]) / 20)) * 1000}$   
 $106.92 - (20 * (\text{LOG}([\text{DistKm}] / 1000))) + ([\text{ERPInDbK}])$

Fountain Inn ch289 105.7 FM Ted McCall



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Fountain Inn SC tower site