

Technical Exhibit
Monroe City, MO 274D
269.5m RC-AMSL 74.3m Highest Radial
47m AGL
250 Watts

TABLE OF CONTENTS

	Technical Statement
Figure 1	Interference Study Table
Figure 2	HAAT

Interference Compliance

Contour protection, as required by C.F.R. Section 74.1204 to co-channel and first, second and third adjacent channels is demonstrated herein by Figure 1.

Height Above Average Terrain

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated along 12 radials using the NED 03 Sec terrain database.

Figure 2 shows the HAAT of the 12 radials. The highest radial is 74.3m above average terrain.

RF Electromagnetic Exposure Analysis

Using a worst case assumption of maximum downward radiation ($F=1.0$) the RF exposure at 2m above ground level is $8.21283 \mu\text{W}/\text{cm}^2$ or 0.8% of the controlled standard. This is inconsequential when added to existing RF on the tower.

The site is fenced and RF warning signs are posted. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1

Monroe City, MO 274D

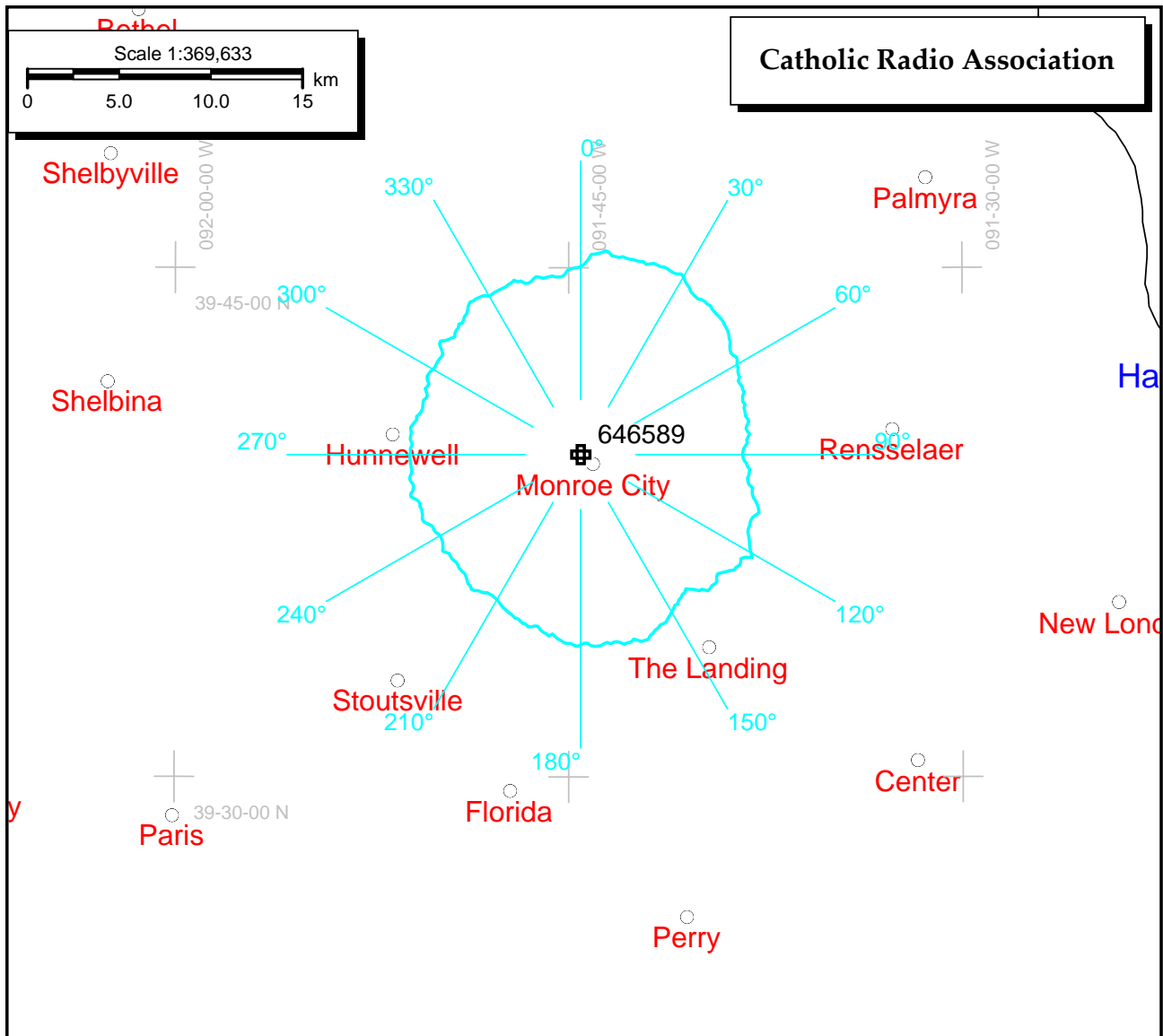
REFERENCE CH# 274D - 102.7 MHz, Pwr= 0.25 kW, HAAT= 56.4 M, COR= 269.5 M
 39 39 29.8 N. Average Protected F(50-50)= 9.88 km
 91 44 32.4 W. Omni-directional

DISPLAY DATES
 DATA 03-05-13
 SEARCH 03-20-13

CH CITY	CALL	TYPE ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
274D Monroe City	646589	APP _C_ MO	140.1 320.1	1.20 BNPFT20030317BCB	39 39 00.0 91 44 00.0	0.250 65	35.2 276	10.4 Covenant Network	-43.6*	-41.1*
274B1 Macomb	WJEQ	LIC _CN IL	48.3 229.0	127.97 BLH19980508KH	40 25 03.0 90 36 51.0	10.000 156	104.4 352	45.5 Prestige Communications In	12.9	39.2
274D Cairo	K274CE	LIC _C_ MO	255.5 75.1	62.13 BLFT20121120ADT	39 31 01.0 92 26 32.0	0.250	36.9 310	10.6 Best Broadcasting, Inc	16.7	19.5
276D Hannibal	636145	APP _C_ MO	79.6 259.9	32.43 BNPFT20030314CJJ	39 42 36.0 91 22 13.0	0.250 94	1.1 268	9.8 Covenant Network	22.0	21.0
275L1 Quincy	WQIN-LP	LIC _ IL	41.1 221.3	43.21 BLL20021219AAK	39 57 02.0 91 24 33.0	0.060 35	9.3 205	6.5 3 Angels Broadcasting Mess	23.1	21.3
273D La Belle	650186	APP _C_ MO	343.5 163.4	53.16 BNPFT20030317IYW	40 07 02.0 91 55 11.0	0.250 67	15.9 274	10.4 Covenant Network	27.2	27.9
271A Louisiana	KJFM	LIC _CX MO	111.6 292.0	65.10 BMLH20041210ABK	39 26 29.0 91 02 19.0	3.700 118	2.6 295	27.8 Foxfire Communications, In	51.8	34.7
272D Canton	636162	APP _C_ MO	18.9 199.0	54.81 BNPFT20030314CKB	40 07 30.0 91 32 00.0	0.250 81	1.1 247	10.9 Covenant Network	42.6	42.8
272C3 Columbia	KBXR	LIC _NC_ MO	212.8 32.5	84.98 BLH20000208ABM	39 00 52.0 92 16 32.0	3.500 261	3.2 498	37.2 Cumulus Licensing LIc	72.4	46.7
275C1 Marshall	KMMO-FM	LIC _CN MO	245.8 64.9	140.11 BLH19931213KB	39 08 03.0 93 13 19.0	100.000 116	81.1 337	51.8 Missouri Valley Broadcasti	49.7	75.3

Terrain database is NED 03 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding.
 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.

HAAT Calculation



646589

Latitude: 39-39-29.80 N

Longitude: 091-44-32.40 W

ERP: 0.25 kW

Channel: 274

Frequency: 102.7 MHz

AMSL Height: 269.5 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

Terrain: NED 03 Sec

Primary Terrain: NED 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
0.0	10.26	61.1
30.0	11.19	74.3
60.0	9.83	55.8
90.0	8.83	45.8
120.0	10.73	67.6
150.0	9.91	56.7
180.0	10.38	62.8
210.0	9.13	48.6
240.0	8.85	46.0
270.0	9.30	50.3
300.0	9.30	50.3
330.0	9.96	57.3

Average HAAT for radials shown: 56.4 m