

NED 03 SEC Terrain Database
US Census 2010 PL Database

Columbus, OH - WLWQ(FM) (Auxiliary FM)

Service Contour Study:

Proposed Auxiliary vs Primary

47 C.F.R. Section 73.1675(a)(1)(ii) Study

Primary 1.0 mV/m (60 dBμ) Contour

Proposed Auxiliary 1.0 mV/m (60 dBμ) Contour

WLWQ(FM).aux +

WLWQ(FM).L

Upper Arlington
Columbus

WLWQ(FM).L
Columbus, OH
BLH19830404AN
Facility ID: 11277
Latitude: 39-58-16 N
Longitude: 083-01-40 W
ERP: 18.00 kW
Channel: 242B (96.3 MHz)
AMSL Height: 475.0 m
Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 1,714,098
Total Area: 7,935.0 sq. km

WLWQ(FM).aux
Columbus, OH
Proposed Aux Operation
Facility ID: 11277
Latitude: 40-02-50 N
Longitude: 083-03-43 W
ERP: 46.00 kW
Channel: 242B (96.3 MHz)
AMSL Height: 327.0 m
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 1,504,275
Total Area: 4,290.2 sq. km

Asher Broadcast Consulting LLC
justinasher@consultant.com
1 (202) 875-2986

Terrain
164 468 m

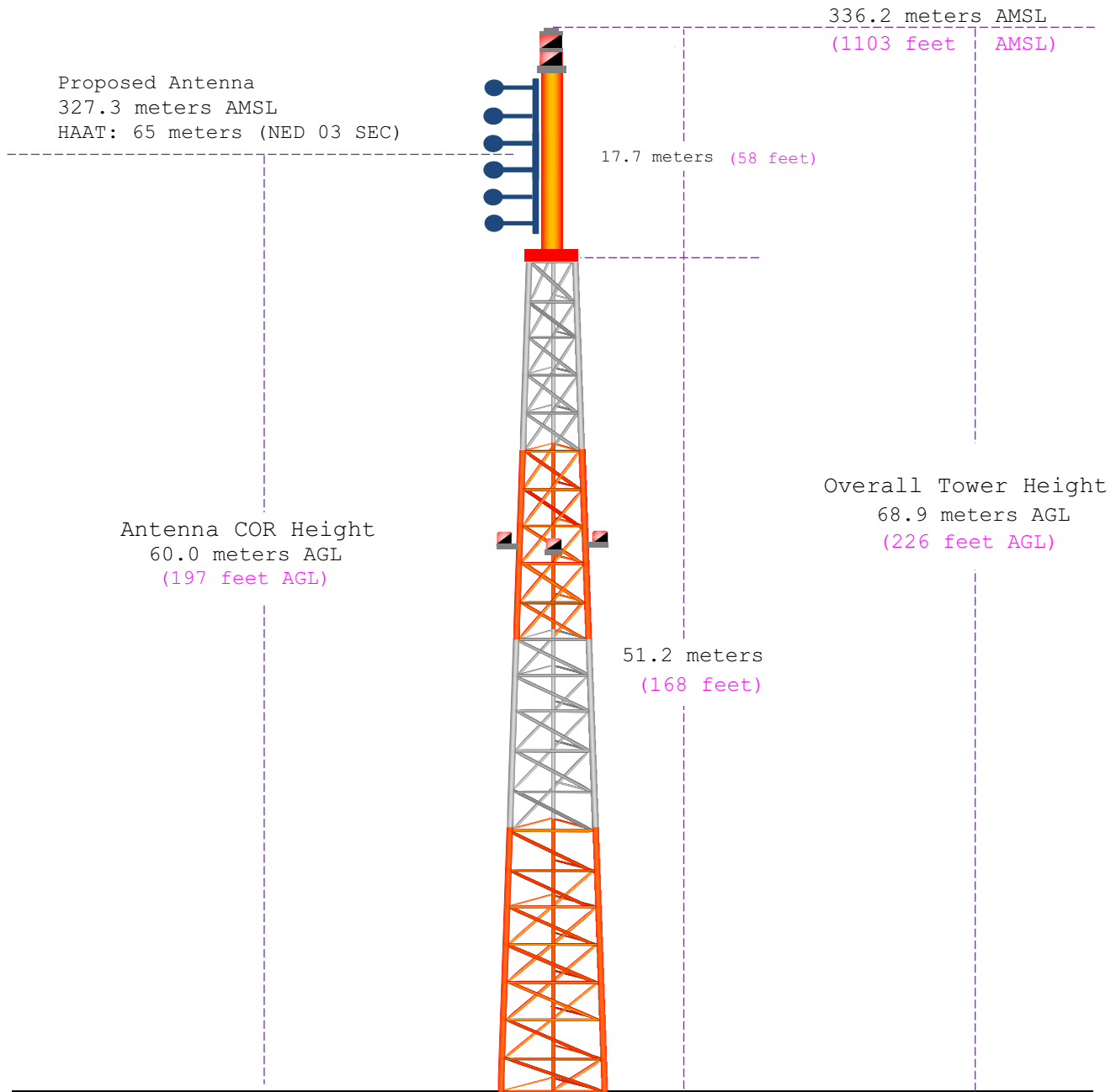
Scale 1:750,000
0 10 20 30 km

§73.1675(a)(1)(ii) Auxiliary antennas.

An auxiliary antenna is one that is permanently installed and available for use when the main antenna is out of service for repairs or replacement. An auxiliary antenna may be located at the same transmitter site as the station's main antenna or at a separate site. The service contour of the auxiliary antenna may not extend beyond the following corresponding contour for the main facility: (ii) FM stations: The 1.0 mV/m field strength contours.

Columbus, OH - WLWQ(FM) (Auxiliary FM)

Vertical Plan of Antenna System



Ground Elevation: 267.3 meters AMSL (877 feet AMSL)		
Address: 4401 Carriage Hill Lane		
City: Columbus	<u>Latitude (D M S)</u> <u>Longitude (D M S)</u>	
County: Franklin	NAD 27 datum values: 40 02 49.97107 83 03 42.63114	
State: Ohio	NAD 83 datum values: 40 02 50.20000 83 03 42.30000	
Antenna Structure Registration 1255800	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

Columbus, OH - WLVQ(FM) (Auxiliary FM)

Antenna Structure Registration

(public record copy)

Registration Detail

Reg Number	1255800	Status	Constructed
File Number	A0521280	Constructed	10/24/2006
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	40-02-50.2 N 083-03-42.3 W	Address	4401 Carriage Hill Lane
City, State	Columbus , OH		
Zip	43220	County	FRANKLIN
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
267.3	68.9
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
336.2	51.2

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12

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

FAA Notification

FAA Study	2006-AGL-3396-OE	FAA Issue Date	08/23/2006
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Owner & Contact Information

FRN	0003303344	Owner Entity Type
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Owner

Franklin Communications, Inc.
73 Kercheval Avenue, Suite 201
Grosse Pointe Farms , MI 48236

P: (313)886-7070
F:
E: gurbiel@sagacom.com

Contact

Smithwick , Gary S Esq
5028 Wisconsin Avenue, NW, Ste. 301
Washington , DC 20016

P: (202)363-4560
F:
E: gsmithwick@fccworld.com

Last Action Status

Status	Constructed	Received	10/24/2006
Purpose	Notification	Entered	10/24/2006
Mode	Interactive		

Related Applications

10/24/2006	A0521198 - New (NE)
10/24/2006	A0521280 - Notification (NT)

Comments**Comments**

None

History**Date**

10/25/2006
10/24/2006
10/24/2006

Event

Registration Printed
Construction Notification Received
New Application Received

Automated Letters

10/25/2006	Authorization, Reference 529924
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Columbus, OH - WLWQ(FM) (Auxiliary FM)
HAAT and Miscellaneous Coordinate Information

HAAT Calculation (1927):

N. Lat. = 400250.0 W. Lng. = 830343.0
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	272.2	54.8	46.0000	16.63	1.000	34.41
045	264.0	63.0	46.0000	16.63	1.000	36.54
090	257.2	69.8	46.0000	16.63	1.000	38.08
135	238.8	88.2	46.0000	16.63	1.000	41.90
180	238.3	88.7	46.0000	16.63	1.000	41.99
225	270.9	56.1	46.0000	16.63	1.000	34.79
270	278.2	48.8	46.0000	16.63	1.000	32.48
315	273.6	53.4	46.0000	16.63	1.000	33.99

Ave El= 261.66 M HAAT= 65.34 M AMSL= 327 M

NAD 1983 to NAD 1927 Conversion:

	<u>Latitude</u>	<u>Longitude</u>
NAD 27 datum values:	40 02 49.97107	83 03 42.63114
NAD 83 datum values:	40 02 50.20000	83 03 42.30000

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	40.0472778°, -083.0617500°
Degrees Minutes	40°02.83667', -083°03.70500'
Degrees Minutes Seconds	40°02'50.2000", -083°03'42.3000"
UTM	17T 324124mE 4435041mN
UTM centimeter	17T 324124.46mE 4435041.11mN
MGRS	17TLE2412435041
Grid North	-1.3°
GARS	194LW49
Maidenhead	EN80LB21OI13
GEOREF	GJGL56290283