

NED 03 SEC Terrain Database
US Census 2010 PL Database
NAD 1983 Coordinate Datum

Terrain
-7 66 m

Norfolk, VA - WNOR(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

WNOR(FM).L
Norfolk, VA
BLH20040517ADR
Facility ID: 67080
Latitude: 36-50-04.50 N
Longitude: 076-16-09.80 W
ERP: 46.00 kW
Channel: 254B (98.7 MHz)
AMSL Height: 158.0 m
Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 1,532,511
Total Area: 8,523.9 sq. km

WNOR(FM).aux
Norfolk, VA
Proposed Aux Operation
Facility ID: 67080
Latitude: 36-50-04.90 N
Longitude: 076-16-09.30 W
ERP: 50.00 kW
Channel: 254B (98.7 MHz)
AMSL Height: 126.1 m
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 1,510,536
Total Area: 7,364.3 sq. km

WNOR(FM).L
WNOR(FM).aux

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

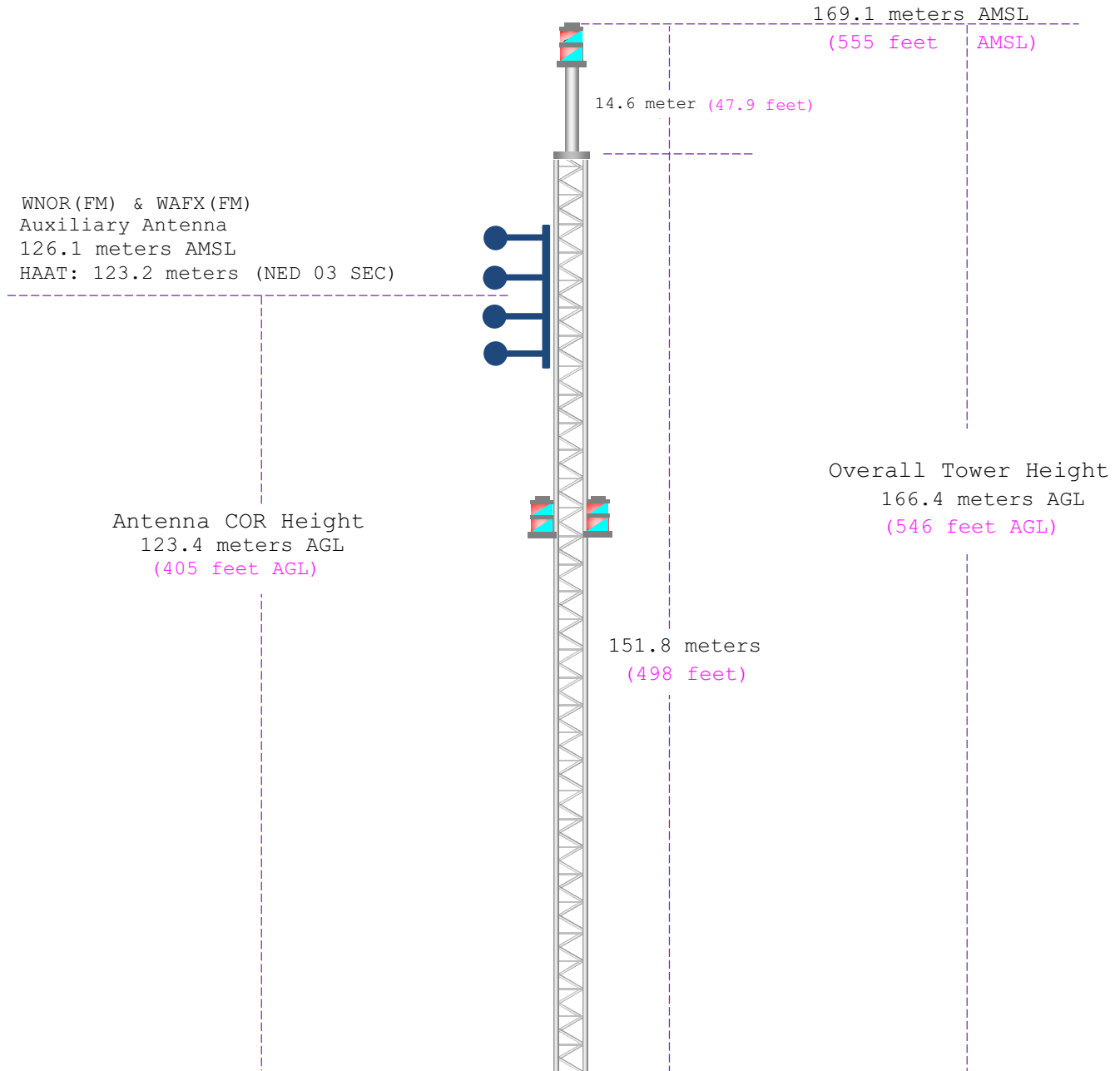
Scale 1:750,000
0 12 24 36 km

§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.

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Vertical Plan of Antenna System



Ground Elevation: 2.7 meters AMSL (9 feet AMSL)		
Address: 700 East Indian River Road		
City: Norfolk	Latitude (D M S) Longitude (D M S)	
County: Norfolk City	NAD 27 datum values: 36 50 4.36757 76 16 10.51688	
State: Virginia	NAD 83 datum values: 36 50 4.90000 76 16 9.30000	
Antenna Structure Registration 1024387	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

Norfolk, VA - WNOR(FM) (Auxiliary FM)

Antenna Structure Registration

(public record copy)

Registration Detail

Reg Number	1024387	Status	Constructed
File Number	A1148945	Constructed	11/29/2019
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	36-50-04.9 N 076-16-09.3 W	Address	700 EAST INDIAN RIVER ROAD
City, State	NORFOLK , VA		
Zip	23523	County	NORFOLK CITY
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
2.7	166.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
169.1	151.8

Painting and Lighting Specifications

FAA Chapters 4, 8, 12
 Paint and Light in Accordance with FAA Circular Number 70/7460-1L

FAA Notification

FAA Study	2018-AEA-13430-OE	FAA Issue Date	04/24/2019
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Owner & Contact Information

FRN	0009269473	Owner Entity Type	Limited Liability Company
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Owner

Tidewater Communications, LLC
 73 Kercheval Avenue
 Grosse Pointe Farms , MI 48236

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

Contact

Atkins , Tom
 73 Kercheval Avenue
 Grosse Pointe Farms , MI 48236

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

Last Action Status

Status	Constructed	Received	11/29/2019
Purpose	Notification	Entered	11/29/2019
Mode	Interactive		

Related Applications

11/29/2019	A1148945 - Notification (NT)
11/29/2019	A1148944 - Modification (MD)
06/24/2005	A0452971 - Admin Update (AU)

Related applications (7)

Comments**Comments**

None

History

Date	Event
11/29/2019	Construction Notification Received
11/29/2019	Modification Received
06/27/2006	Supersede - Internal Correction Applied
All History (13)	

Automated Letters

06/27/2005	Authorization, Reference 432650
04/18/2005	Construction Reminder, Reference 420189
04/15/2004	Ownership Change, Reference 326921

All letters (5)

Norfolk, VA - WNOR(FM) (Auxiliary FM)

HAAT and Miscellaneous Coordinate Information

HAAT Calculation (1927):

N. Lat. = 365004.9 W. Lng. = 761609.3
 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	2.3	123.8	50.0000	16.99	1.000	48.53
045	3.4	122.7	50.0000	16.99	1.000	48.37
090	3.1	123.0	50.0000	16.99	1.000	48.41
135	4.1	122.0	50.0000	16.99	1.000	48.27
180	3.2	122.9	50.0000	16.99	1.000	48.39
225	3.2	122.9	50.0000	16.99	1.000	48.40
270	3.1	123.0	50.0000	16.99	1.000	48.42
315	1.3	124.8	50.0000	16.99	1.000	48.67

Ave El= 2.94 M HAAT= 123.16 M AMSL= 126.1 M

NAD 1983 to NAD 1927 Conversion:

	<u>Latitude</u>	<u>Longitude</u>
NAD 27 datum values:	36 50 4.36757	76 16 10.51688
NAD 83 datum values:	36 50 4.90000	76 16 9.30000

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	36.8346944°, -076.2692500°
Degrees Minutes	36°50.08167', -076°16.15500'
Degrees Minutes Seconds	36°50'04.9000", -076°16'09.3000"
UTM	18S 386820mE 4077286mN
UTM centimeter	18S 386820.49mE 4077286.36mN
MGRS	18SUF8682077286
Grid North	-0.8°
GARS	208LP16
Maidenhead	FM16UU70QH58
GEOREF	GJPG43845008