

Name of Licensee: RADIO LICENSE HOLDINGS LLC

Station Location: WASHINGTON, DC

Frequency (kHz): 630

Station Class: B

Antenna Coordinates:

Day

Latitude: N 39 Deg 00 Min 55 Sec

Longitude: W 77 Deg 08 Min 30 Sec

Night

Latitude: N 39 Deg 00 Min 55 Sec

Longitude: W 77 Deg 08 Min 30 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 10.0 Night: 5.0

Antenna Input Power (kW): Day: 10.5 Night: 5.4

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 14.51 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1036928	
2	1036929	
3	1036930	
4	1036931	

Night:

Tower No.	ASRN	Overall Height (m)
1	1036928	
2	1036929	
3	1036930	
4	1036931	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 1022 Night: 630.86

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 1131 Night: 664.36

Q Factor: Day: 38.51 Night: 22.83

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	90.0
2	0.5330	155.300	60.0000	3.000	0	90.0
3	0.9010	237.300	90.0000	183.000	0	90.0
4	0.1280	180.200	243.5000	111.000	0	90.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	195.0	64.2	2095.00
2	225.0	40.0	1539.00

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	90.0
2	0.9200	119.500	60.0000	3.000	0	90.0
3	0.6100	163.600	90.0000	183.000	0	90.0
4	1.0000	137.000	243.5000	111.000	0	90.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	55.4	10.0	83.69
2	188.0	20.0	273.59

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
3	271.3	14.0	104.61
4	312.6	14.0	82.08
5	335.0	10.0	531.08

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 153.5	0.521
3 -125.5	0.85
4 -174.5	0.085

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 129.5	0.655
3 178	0.505
4 136.5	0.8

Antenna Monitor: POTOMAC INSTRUMENT AM-19D (210)

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
76	4.73	44.59
334	3.9	48.47

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
55.4	4.3	23.2
190.5	4.01	44.67
271.3	7.89	4
312.6	6.76	5.21

*** END OF AUTHORIZATION ***