

## **WBCF-LP – Interference Free Study**

Study created: 2017.11.17 15:01:16

Study build station data: LMS TV 2017-11-12 (20)

Proposal: WBCF-LD D34 LD LIC FLORENCE, AL  
File number: BLDTL20110525AEX  
Facility ID: 167889  
Station data: User record  
Record ID: 29  
Country: U.S.

Build options:  
Protect records not on baseline channel

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
W46DF-D	D34	LD	APP	HAMILTON, AL	BLANK0000029731	88.7 km
W17DJ-D	D34	DC	CP	HUNTSVILLE, AL	BLANK0000024495	104.1
W17DJ-D	D34	DC	APP	HUNTSVILLE, AL	BLANK0000033621	104.1
WHVD-LD	D34	LD	LIC	HUNTSVILLE, AL	BLDTL20121213AIM	104.1
W34DV-D	D34	DC	LIC	BOONEVILLE, MS	BLANK0000001528	83.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34  
Mask: Simple  
Latitude: 34 48 11.00 N (NAD83)  
Longitude: 87 40 14.00 W  
Height AMSL: 234.6 m  
HAAT: 0.0 m  
Peak ERP: 10.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 1.25

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	10.0 kW	41.9 m	31.1 km
45.0	10.0	47.6	32.7
90.0	10.0	69.3	36.9
135.0	10.0	73.3	37.5
180.0	10.0	81.3	38.7
225.0	10.0	89.2	39.8
270.0	10.0	71.7	37.2
315.0	10.0	72.6	37.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 68 m

Distance to Canadian border: 879.1 km

Distance to Mexican border: 1321.5 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 110.3 degrees Distance: 290.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 296.1 degrees Distance: 1654.1 km

## **WBCF-LP – Interference Free Study**

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

\*\*MX with BLANK0000029731 APP, 4.93% interference, scenario 1  
\*\*MX with scenario 2, receives 5.78% interference