

### **Contour Protection To WGH-FM**

This application proposes contour protection (47 C.F.R. 73.215. 47 C.F.R. 73.215(e)) for WGH-FM.

The minimum separation requirement between a class B and a class C2 facility (WGH-FM and WKHC), which are first adjacent channels, is 145 km. Exhibit 17-B shows that WGH-FM is separated from the proposed facility by 168.1 km.

Therefore, the proposed facility is permitted to use contour protection toward the short-spaced facility. Exhibit 20-A shows compliance with contour protection requirements.

Educational Media Foundation

FMCommander Single Allocation Study - 07-09-2019 - FCC NGDC 30 Sec  
WKHC's Overlaps (In= 37.12 km, Out= 5.95 km)

WKHC CH 246 C2 73.215 N  
Lat= 35 29 06.4, Lng= 76 00 02.3  
29.0 kW 199.9 m HAAT, 200 m COR  
Prot.= 60 dBu, Intef.= 48 dBu

WGH-FM^ CH 247 B BMLH19960130KB  
Lat= 36 57 47.0, Lng= 76 24 42.0  
Max Cls: 50.0 kW 150 m HAAT, 123 m COR  
Prot.= 54 dBu, Intef.= 54 dBu

