



MINOR MOD FOR WESU (FM)

Exhibit 16 for Section VII / 15.a

09/01/2007

This exhibit is to demonstrate that this application meets the requirements of 47 CFR Section 73.509.

Facility Summary

The proposed WESU facility is at the same frequency, location and height above average terrain (HAAT) as the existing WESU facility. Frequency is 88.1 MHz (Channel 201), location is 41-33-16 N / 72-39-30 W, HAAT is 12m.

This application's purpose is to increase effective radiated power from 1500 watts to 6000 watts and to change the antenna pattern from non-directional to directional.

Relevant Surrounding Broadcast Facilities

See contour maps at the end of this exhibit for a visual reference for contour separations. The proposed WESU facility has to protect the following facilities:

Co-channel (88.1 MHz)

- WMNR Monroe, CT (existing license, construction permit & auxiliary facility) **
- WKIV Westerly, RI (existing license & construction permit) **
- WCHC Worcester, MA
- WXBA Brentwood, NY
- WCWP Brookville, NY

First-adjacent (88.3 MHz)

- WVCR Loudonville, NY
- WLIU Southampton, NY **
- WBKW Beekman, NY
- WBGO Newark, NY
- WGAO Franklin, MA
- WIQH Concord, MA
- WQRI Bristol, RI
- WEVS Nashua, NH

Second-adjacent (88.5 MHz)

- WFCR Amherst, MA
- WVOF Fairfield, CT

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**Third-adjacent (88.7 MHz)**

- WFNP Rosendale, NY
- WRHV Poughkeepsie, NY
- WNHU West Haven, CT
- WPKM Montauk, NY

I.F. Protection (98.7 and 98.9 MHz)

- WNLC 98.7 East Lyme, CT

Those stations marked with a ** have the most relevance to this application. See Exhibit 19 for TV Channel 6 protection information.

Contour Separation Standards

As defined in 47 CFR 73.509 (a), the following standards are used in this application:

(a) An application for a new or modified NCE-FM station other than a Class D (secondary) station will not be accepted if the proposed operation would involve overlap of signal strength contours with any other station licensed by the Commission and operating in the reserved band (Channels 200-220, inclusive) as set forth below:

Frequency separation	Contour of proposed station	Contour of other station
Co-channel	0.1mV/m (40 dBu)	1 mV/m (60 dBu)
200 kHz (1 st adjacent)	0.5 mV/m (54 dBu)	1 mV/m (60 dBu)
400 kHz/600 kHz (2 nd & 3 rd adjacent)	100 mV/m (100 dBu)	1 mV/m (60 dBu)



Broadcast Signal Lab

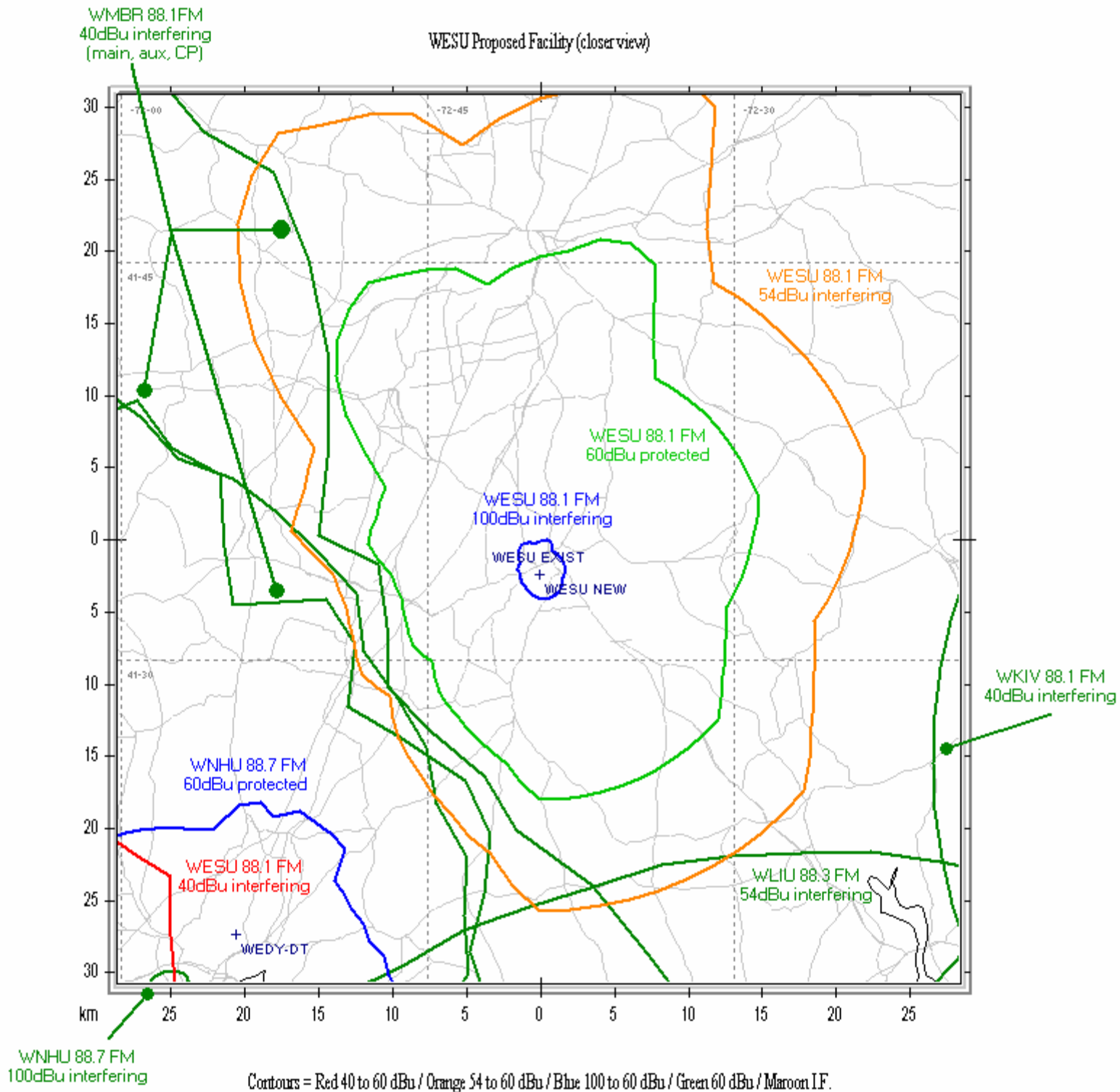
In the supplied contour maps, the colors are as follows:

WESU	Red	40 dBu F(50,10) interfering
WESU	Orange	54 dBu F(50,10) interfering
WESU	Blue	100 dBu F(50,10) interfering
WESU	Green	60 dBu F(50,50) protected/service
All co-channels	Red	60 dBu F(50,50) protected/service
All co-channels	Green	40 dBu F(50,10) interfering
All 1 st adjacents	Orange	60 dBu F(50,50) protected/service
All 1 st adjacents	Green	54 dBu F(50,10) interfering
All 2 nd adjacents	Blue	60 dBu F(50,50) protected/service
All 2 nd adjacents	Green	100 dBu F(50,10) interfering
All 3 rd adjacents	Blue	60 dBu F(50,50) protected/service
All 3 rd adjacents	Green	100 dBu F(50,10) interfering
I.F. Protection	Maroon	

The maps can be read as “contours of the same colors cannot cross”.

In conclusion: this exhibit demonstrates that the proposed WESU facility meets the requirements of 47 CFR Section 73.509 and there is no prohibited contour overlap.

WESU Proposed Facility (closer view)



Colored bars indicate needed gaps between protected and interfering contours of surrounding stations.
Interfering: Red for co-channel, Orange for 1st-adjacent, Blue for 2nd and 3rd adjacent.
Protected: Green for protection of WESU's 60dBu

 State Borders
 Highways
 Lat/Lon Grid

[illegible]

Map Scale: 1:1559440 1 cm = 15.59 km V/H Size: 246.68 x 228.28 km