

**Application for Authority to Construct or Make Changes
in an FM Translator or FM Booster Station**

Exhibit 12

WPSU – Dubois Translator

The Pennsylvania State University

October, 2006

EXHIBIT 12

Attached to this Exhibit is a list of potential interfering stations (pages 3 through 7) with a map (page 8) generated showing each station with associated contour in relation to the proposed new translator location. Effective radiated power of the translator will be reduced from 50 watts at the current location to 27 watts at the new location because of a change in HAAT on the 210 degree radial per table on page 2. In order to demonstrate qualification for minor modification of existing license, a coverage map (page 9) is also provided to show overlap of coverage areas between the old and new location. Software, station and terrain databases were provided by V-Soft Communications.

EXHIBIT 12

Aaa-dubois 60.txt

Call Letters: WPSU-DuBois Translator

Latitude: 41-06-11 N

Longitude: 078-45-38 W

ERP: 0.05 kw

Channel: 221

Frequency: 92.1 MHz

AMSL Height: 518.37 m

Elevation: 484.92 m

Horiz. Antenna Pattern: Omni

Vert. Elevation Pattern: No

Type of contour: FCC

Location Variability: 50.0 %

Time Variability: 50.0 %

of Radials Calculated: 360

Field Strength: 60.00 dBuV/m

Primary Terrain: V-Soft 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	4.71	21.7
30.0	4.71	-14.9
60.0	7.12	68.6
90.0	4.71	-8.1
120.0	4.71	-7.0
150.0	4.71	-42.2
180.0	4.71	7.6
210.0	8.25	90.8
240.0	5.67	43.2
270.0	6.25	52.2
300.0	4.71	27.3
330.0	4.71	22.2

Average HAAT for radials shown: 21.8 m

EXHIBIT 12

aaa duBois STUDY INFO1.txt

STUDY INFOStudy Information:

FM Interference Study
Protected: Circle: R = 100 km
Interference considered within 100 km.
Signal Resolution: 1.25 km
Land cover attenuation was used.

Study Date: 5-23-2006
FM Database Date: 05-19-06

Land Cover Attenuations
Database: Global 1km Land Cover Data

Unknown: 0.0 dB
Open Land: 2.0 dB
Agricultural: 2.5 dB
Water Body: 0.0 dB
Forest: 5.5 dB
Wetland: 2.0 dB
Urban: 10.0 dB
Snow/Ice: 0.0 dB

Primary Terrain: V-Soft 3 Second US Terrain

Transmitters:

Transmitter Information:

Call Letters: WPSU-DuBois Translator
Latitude: 41-06-11 N
Longitude: 078-45-38 W
ERP: 0.05 kw
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 518.37 m
Elevation: 484.92 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 50.0%

Transmitter Information:

Call Letters: WPSU
File Number: BLED19940725KC
Latitude: 40-55-11 N
Longitude: 077-58-28 W
ERP: 1.70 kw
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 847.0 m
Elevation: 744.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

EXHIBIT 12

aaa dubOIS STUDY INFO1.txt

Transmitter Information:

Call Letters: W218AP
File Number: BLFT19960111TR
Latitude: 41-36-03 N
Longitude: 079-39-29 W
ERP: 0.013 kw
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 549.0 m
Elevation: 518.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: W218BF
File Number: BLFT19990222TE
Latitude: 41-49-20 N
Longitude: 079-09-18 W
ERP: 0.013 kw
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 515.0 m
Elevation: 506.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WCUCFM
File Number: BLED19960919KB
Latitude: 41-12-35 N
Longitude: 079-22-39 W
ERP: 3.20 kw
Channel: 219
Frequency: 91.7 MHz
AMSL Height: 525.0 m
Elevation: 472.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: W216AF.A

EXHIBIT 12

aaa dubois STUDY INFO1.txt

File Number: BPFT20060509AAI
Latitude: 40-22-17 N
Longitude: 078-58-58 W
ERP: 0.022 kw
Channel: 219
Frequency: 91.7 MHz
AMSL Height: 854.0 m
Elevation: 823.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: W220BU
File Number: BLFT20001208ADQ
Latitude: 41-23-43 N
Longitude: 078-33-20 W
ERP: 0.027 kw
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 592.0 m
Elevation: 579.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: W220BA
File Number: BLFT19970528TB
Latitude: 41-25-47 N
Longitude: 079-40-59 W
ERP: 0.01 kw
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 468.0 m
Elevation: 451.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WYOT
File Number: BMLH19991018ABR
Latitude: 40-22-15 N
Longitude: 078-59-02 W
ERP: 0.58 kw
Channel: 221
Frequency: 92.1 MHz

EXHIBIT 12

aaa dubois STUDY INFO1.txt

AMSL Height: 846.0 m
Elevation: 816.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WKVRFM
File Number: BLE19890324KA
Latitude: 40-30-00 N
Longitude: 078-00-52 W
ERP: 0.013 kw
Channel: 222
Frequency: 92.3 MHz
AMSL Height: 225.0 m
Elevation: 207.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WRRN
File Number: BLH19820127AE
Latitude: 41-48-50 N
Longitude: 079-10-04 W
ERP: 50.00 kw
Channel: 222
Frequency: 92.3 MHz
AMSL Height: 628.0 m
Elevation: 568.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WQMU
File Number: BMLH19980918KB
Latitude: 40-38-17 N
Longitude: 079-08-47 W
ERP: 3.00 kw
Channel: 223
Frequency: 92.5 MHz
AMSL Height: 505.0 m
Elevation: 476.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%

EXHIBIT 12

aaa dubois STUDY INFO1.txt

Time Variability: 10.0%

Transmitter Information:

Call Letters: WJSMFM
File Number: BLH19970117KA
Latitude: 40-17-37 N
Longitude: 078-15-38 W
ERP: 0.64 kw
Channel: 224
Frequency: 92.7 MHz
AMSL Height: 697.0 m
Elevation: 669.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WJSMFM.C
File Number: BPH20050610AGZ
Latitude: 40-20-50 N
Longitude: 078-24-57 W
ERP: 1.90 kw
Channel: 224
Frequency: 92.7 MHz
AMSL Height: 643.0 m
Elevation: 593.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%

Transmitter Information:

Call Letters: WCCR
File Number: BLH19850712KA
Latitude: 41-14-41 N
Longitude: 079-15-42 W
ERP: 3.00 kw
Channel: 224
Frequency: 92.7 MHz
AMSL Height: 540.0 m
Elevation: 494.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 10.0%
