



**STATEMENT OF WILLIAM J. GETZ  
IN SUPPORT OF AN APPLICATION  
FOR CONSTRUCTION PERMIT  
WXOT(FM) - CENTRE HALL, PENNSYLVANIA  
CHANNEL 258B1, 0.850 kW, 417 METERS HAAT  
FACILITY ID NUMBER 3956**

Applicant: Megahertz Licenses, LLC

I am a Radio Engineer in the firm of Carl T. Jones Corporation with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission.

This office has been authorized by Megahertz Licenses, LLC, the licensee of FM broadcast station WXOT(FM) [formerly WXMJ(FM)], Mount Union, Pennsylvania, to prepare this statement and the associated exhibits in support of a minor change Application for Construction Permit. This application is contingent upon the grant of a concurrently filed application for a minor change at co-owned, third-adjacent channel station WWOT(FM), Altoona, Pennsylvania.

Radio station WXOT(FM) is presently licensed (FCC File No BLH-900328KB) to operate on Channel 258A. This minor change application is filed in response to the Commission's Report and Order in MB Docket 03-231, Adopted January 5, 2005, Released January 10, 2005 ("Report and Order"). The Report and Order, required

WXOT(FM) to file a minor change application for construction permit to change community of license to Centre Hall, Pennsylvania. Accordingly, the instant application requests authority to relocate WXOT(FM) to an existing tower and change community of license to Centre Hall. Further, this application requests a one-step upgrade for WXOT(FM) to a Class B1 facility.

### **ONE-STEP APPLICATION**

This "one-step" application is filed pursuant to Section 73.203(b) of the FCC Rules. The "one-step" process authorizes licensees to request, by application, changes on an intermediate frequency, a first or second adjacent channel, or their present channel of operation. To accomplish the proposed upgrade, the applicant herein requests authority to operate WXOT(FM) from a new transmitter site with an Effective Radiated Power (ERP) of 850 watts at the height above average terrain ("HAAT") of 417 meters.

The WXOT(FM) Channel 258B1 allocation reference site required by the note contained in Section 73.203 of the FCC Rules is: 40° 45' 08" N.L. and 77° 55' 16" W.L (NAD-27). The proposed allocation reference site satisfies the minimum distance spacing requirements contained in Section 73.207 of the FCC Rules to all pertinent assignments, allotments and applications with the exception of a 1.64 kilometer short-spacing to WWOT(FM), Altoona, PA (Channel 261B1). As discussed below, WWOT(FM) proposes a downgrade to a Class A facility and a transmitter site change in a contingent application.

The WWOT(FM) contingent application decreases the required spacing between the WXOT(FM) Class B1 and WWOT(FM) from 50 kilometers to 48 kilometers. The WXOT(FM) Class B1 allotment reference site is separated from the WWOT(FM) Class A proposal by 48.64 kilometers. As a result, the WXOT(FM) Class B1 allotment reference site satisfies the minimum distance spacing requirements contained in Section 73.207 of the FCC Rules to all pertinent assignments, allotments and applications.

Further, the WXOT(FM) Class B1 allotment reference site would provide the requisite city-grade service coverage to all of Centre Hall, Pennsylvania. Attached is a terrain profile, using a 3-second terrain database, which demonstrates line-of-sight to the community of Centre Hall from the WXOT(FM) Class B1 reference site. As shown on the Exhibit, an antenna height of 830 feet (253 meters) above ground level would be necessary to achieve line-of-sight to Centre Hall, Pennsylvania. This is a realistic tower height for a full-service broadcast station. According to the FCC's Antenna Structure Registration database, there are 32 existing towers in Pennsylvania and 1,077 existing towers nationwide which are 830 feet above ground level or greater in height.

### **CONTINGENT APPLICATION**

Pursuant to Section 73.3517(e) of the FCC Rules, this application is contingent with a concurrently filed application for co-owned, third-adjacent channel station WWOT(FM), Altoona, PA (Facility ID 47090). A copy of the agreement to undertake coordinated facility modifications is included elsewhere in this application.

## **ALLOCATION CONSIDERATIONS**

The proposed WXOT(FM) transmitter site is 4.75 km short-spaced to cochannel Class B station WIHT(FM), Washington, DC, and 11.54 km short-spaced to first-adjacent channel Class A station WZXR(FM), South Williamsport, PA. The applicant requests Section 73.215 processing with respect to both WIHT(FM) and WZXR(FM). The proposed WXOT(FM) transmitter site satisfies the minimum distance separations specified in Section 73.215(e) with respect to both WIHT(FM) and WZXR(FM). Exhibit 1 depicts the proposed WXOT(FM) protected and interfering contours as well as the protected and interfering contours resulting from maximum Class A facilities at WIHT(FM) and WZXR(FM).<sup>1</sup> As shown in Exhibit 1, no overlap will be caused or received as a result of the instant proposal.

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<sup>1</sup> The maximum Class B parameters for WIHT(FM) were calculated as follows:  
WIHT(FM) Licensed HAAT = 229 meters  
Maximum Class B HAAT = 150 meters  
Section 73.215 antenna height adjustment = -79 meters  
WIHT(FM) Licensed Radiation Centerline Height Above Mean Sea Level = 306 meters  
WIHT(FM) Maximum Class B adjusted RCAMSL = 227 meters  
WIHT(FM) Maximum Class B ERP = 50 kW.

The maximum Class A parameters for WZXR(FM) were calculated as follows:  
WZXR(FM) Licensed HAAT = 377 meters  
Maximum Class A HAAT = 100 meters  
Section 73.215 antenna height adjustment = -277 meters  
WZXR(FM) Licensed Radiation Centerline Height Above Mean Sea Level = 629 meters  
WZXR(FM) Maximum Class A adjusted RCAMSL = 352 meters  
WZXR(FM) Maximum Class A ERP = 6 kW.

### **INTERNATIONAL ALLOCATION CONSIDERATIONS**

The WXOT(FM) transmitter site is within 320 kilometers of the common border between the United States and Canada. As a result, the instant proposal is subject to the terms and conditions of the September, 1984, Working Agreement For Allotment and Assignment of FM Broadcasting Channels 201-300 Under the Canadian-U.S.A. FM Broadcasting Agreement of 1947 (hereinafter, "Agreement"). The WXOT(FM) transmitter site satisfies the minimum distance separations contained in Section 2.4 of the Agreement with all Canadian assignments, applications and allotments. The proposed Centre Hall, Pennsylvania, Channel 258 allocation reference site was accepted as a Class B1 by Canada by letter dated March 11, 2004.

### **PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.313 of the Rules utilizing the appropriate F(50,50) propagation curves from the Rules (Section 73.333, Figure 1), effective radiated power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3.2 kilometers to 16.1 kilometers from the proposed site was obtained from a National Geophysical Data Center Thirty Second Point Topographic Database (TGP-0050).

The 3.16 mV/m (70 dBu) city-grade contour completely encompasses the principal community to be served, as required by Section 73.315(a) of the Commission's Rules.

### **BLANKETING AND INTERMODULATION INTERFERENCE**

In the event that blanketing interference occurs, the applicant will take appropriate steps to minimize the interference within the blanketing contour. Further, the applicant accepts the responsibility to alleviate any new intermodulation interference, including receiver induced, resulting from the instant proposal combined with a broadcast facility located within 10 kilometers of the proposed site as required by FCC rules.

In accordance with Commission precedent (See WKLX, Inc., 6 FCC Rcd 225 (1991)), the applicant will exclude both mobile and battery-powered receivers from Receiver Induced Third Order Intermodulation and Blanketing Interference Resolution Requirements. In the event any type of intermodulation interference occurs with any other facilities which have not been identified, the applicant will take appropriate steps (i.e., install and maintain traps or filters) to minimize the interference in fixed receivers. The applicant will respond to complaints of blanketing interference for a period of one year in compliance with Section 73.318(b) of the Commission's Rules.

### **FAA NOTIFICATION AND TOWER REGISTRATION**

No new tower construction is proposed herein. The WXOT(FM) antenna will be side-mounted on an existing tower structure such that the overall height of the tower is not altered. The FCC tower registration number for the existing support structure is 1217870.

### **RADIOFREQUENCY IMPACT**

Effective October 15, 1997, the FCC adopted its current guidelines and procedures for evaluating environmental effects of radiofrequency emissions. The current guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986), and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, Inc. (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The FCC guidelines provide a maximum permissible exposure (MPE) level for occupational or "controlled" situations, as well as "uncontrolled" situations that apply in cases that affect the general public. The FCC's Office of Engineering and Technology (OET) Commission issued a technical bulletin (OET Bulletin No. 65) entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" (Edition 97-01, August 1997), to aid in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency electromagnetic fields as adopted by the Commission in 1996. The Bulletin contains updated and additional technical information for evaluating compliance with the current FCC policies and guidelines.

The current FCC MPE level for “uncontrolled” environments is 0.2 milliwatt per centimeter squared ( $\text{mW}/\text{cm}^2$ ) or  $200 \mu\text{W}/\text{cm}^2$  for FM facilities. The MPE level for FM facilities in a “controlled” environment is  $1.0 \text{mW}/\text{cm}^2$ .

The proposed WXOT(FM) facility will operate with a circularly polarized ERP of 0.850 kW using a nondirectional transmitting antenna with its center of radiation 104 meters AGL. WXOT will be colocated with full-service stations WBUS(FM), Boalsburg, PA, and WJHT(FM), State College, PA.

As shown on the attached Table entitled “Summary of Radiofrequency Radiation Study”, based on worst-case considerations, the maximum cumulative predicted power density at the shared site represents only 5.7% of the FCC guideline value for “uncontrolled” environments.

### **OCCUPATIONAL SAFETY**

Based on the calculations discussed above, the maximum cumulative predicted power density at the shared site is 1.13% of the FCC guideline value for “controlled” environments. The applicant will insure the protection of station personnel or tower contractors working in the vicinity of the proposed transmitting antenna. The applicant will reduce power and/or cease operation in cooperation with other site users during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel.

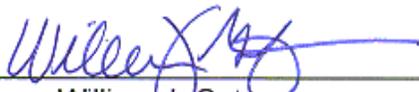
In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

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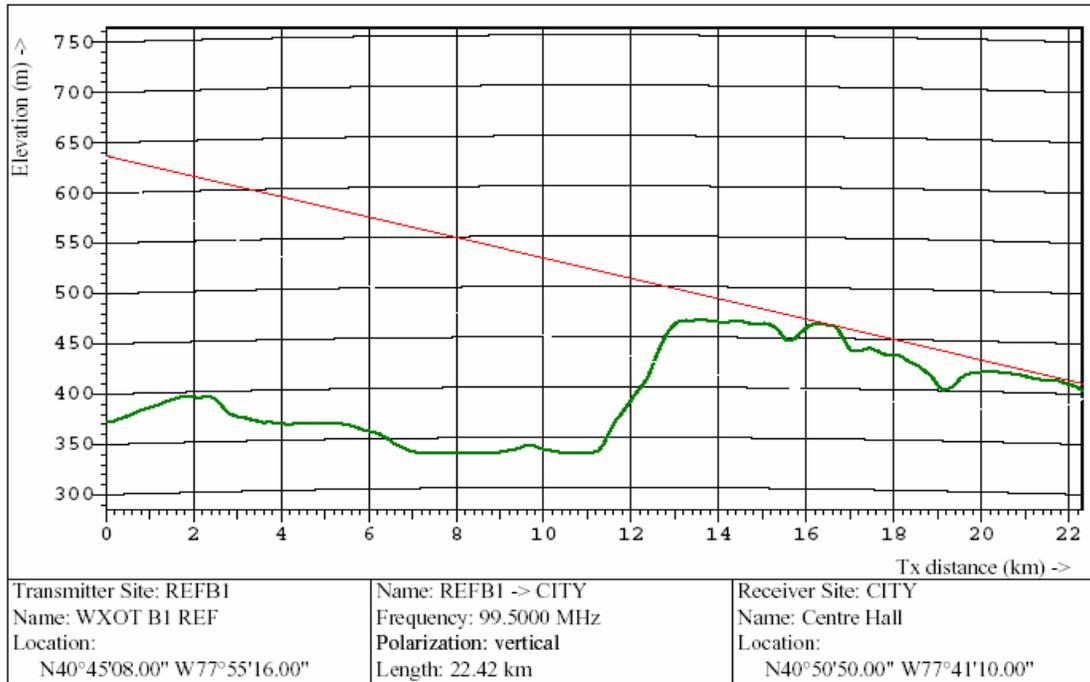
**SUMMARY**

This statement, FCC Form 301, Section III-B, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct.

DATED: September 1, 2005

  
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William J. Getz

**Terrain Profile from WXOT Class B1 Reference Site  
Toward Centre Hall, Pennsylvania  
Pointing Azimuth = 61.8 degrees  
September, 2005**

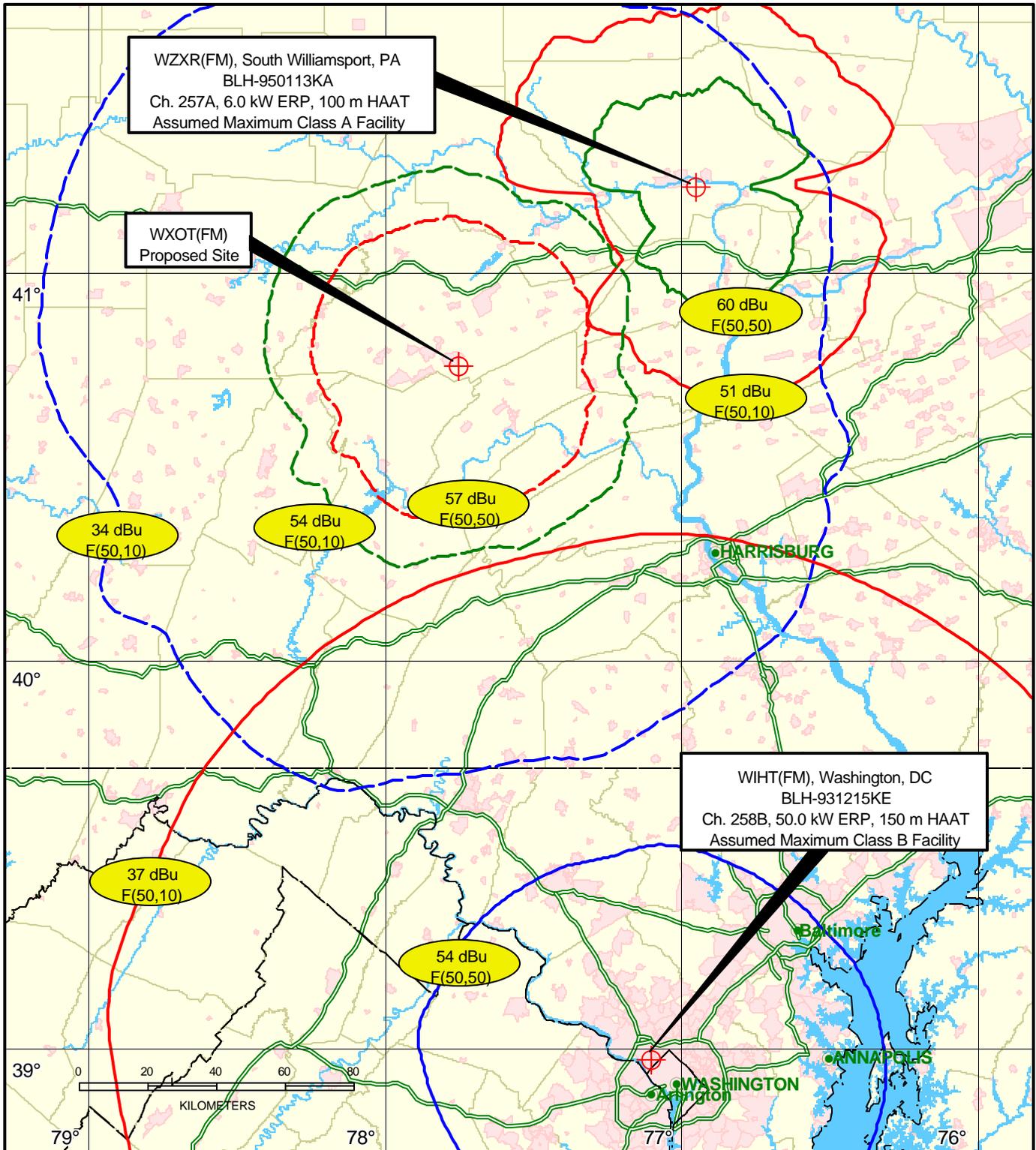


Ground Elevation at WXOT Class B1 Reference Site	1270 feet 387 meters
Antenna Height AMSL for Line-of-Sight to Community	2100 feet 640 meters
Antenna Height AGL for Line-of-Sight to Community	830 feet 253 meters

**SUMMARY OF RADIOFREQUENCY  
RADIATION STUDY**  
**WXOT(FM), CENTRE HALL, PENNSYLVANIA**  
**CHANNEL 258B1, 0.85 kW, 417 m HAAT**  
**SEPTEMBER, 2005**

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLARIZATION</u>	<u>ANTENNA HEIGHT **</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>WORST-CASE PREDICTED POWER DENSITY (mW/cm<sup>2</sup>)</u>	<u>FCC UNCONTROLLED LIMIT (mW/cm<sup>2</sup>)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WXOT	FM	258	99.5	H & V	102	0.850	1.000	0.00546	0.200	2.73%
WBUS	FM	229	93.7	H & V	98	0.330	1.000	0.00230	0.200	1.15%
WJHT	FM	276	103.1	H & V	83	0.370	1.000	0.00359	0.200	1.79%
<b>TOTAL PERCENTAGE OF ANSI VALUE=</b>										<b>5.67%</b>

*\*\* The antenna heights indicated above are 2 meters less than the actual antenna heights so that the predicted power densities consider the 2 meter human height allowance.*



SECTION 73.215 OVERLAP STUDY  
 WXOT(FM), CENTRE HALL, PA  
 CH. 258B1, 0.85 kW ERP, 417 m HAAT  
 SEPTEMBER, 2005