

**Section 74.1204 - Statement of Compliance**  
**W232DE, Potomac, MD to Channel 268D**  
**FM Translator Facility ID. 141566**  
**September, 2022**

As demonstrated elsewhere in this Application, the Applicant proposes a minor modification to the above-referenced, non-reserved band, FM translator station. As discussed below, the instant proposal complies with the protection requirements set forth in Section 74.1204 of the FCC Rules.

Section 74.1204(a) Contour Overlap Protection Criteria

Attached is a map which demonstrates that proposed technical facility complies with the contour overlap provisions of Section 74.1204(a) of the FCC Rules with respect to all pertinent co-channel (See Exhibit 1) and first-adjacent channel (See Exhibit 2) assignments, authorizations and applications. The instant proposal is well clear of all other relevant co-channel and first-adjacent channel protection considerations not represented herein.

Section 74.1204(d) Second/Third-Adjacent Channel Protection

As shown in Exhibit 3, the proposed technical facility complies with the contour overlap provisions of Section 74.1204(a) of the FCC Rules with respect second-adjacent channel station WLIF(FM), Baltimore, MD (Channel 270B). The required protection to second-adjacent channel station WWDC(FM), Washington, DC (Channel 266B) is discussed below. The instant proposal is well clear of all other relevant second and third-adjacent channel protection considerations not represented herein.

The proposed transmitting antenna will be located within the WWDC(FM) protected contour resulting in contour overlap as defined in Section 74.1204 of the FCC Rules. However, at the translator's proposed transmitter site, WWDC(FM) is predicted to produce a F(50,50) signal strength of 86 dBu and the translator's corresponding interfering contour is the 126 dBu contour relative to WWDC(FM). According to free space calculations, the translator's predicted interfering contour will extend only 35.2 meters from the proposed transmit antenna. Because the proposed transmit antenna will be located 56 meters above ground level, the predicted interference area will neither reach ground level nor reach any people within a horizontal distance of 35.2 meters of the antenna. Therefore, the instant proposal will cause no interference to any population served WWDC(FM).

Accordingly, the proposed facility satisfies Section 74.1204(d) of the FCC Rules with respect to WWDC(FM) because it has been "demonstrated that no actual interference will occur due to lack of population or such other factors as may be applicable".



# Section 74.1204 CoChannel Contour Overlap Study

Exhibit 1

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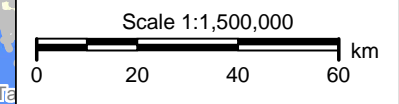
- W232DE.APP (268)
- WBQB (268)
- WBHB-FM (268)
- W268BA (268)

**W232DE.APP**  
Potomac, MD  
Latitude: 39-02-12.40 N  
Longitude: 077-12-07.90 W  
ERP: 0.10 kW  
Channel: 268  
Frequency: 101.5 MHz  
AMSL Height: 163.0 m  
Horiz. Pattern: Directional

## Section 74.1204 Contours

Proposed FX Interfering Contour (DASHED):  
40 dBu F(50,10) to Class A & FX & LPFM  
40 dBu F(50,10) to Class C, C0, C1, C2, C3  
37 dBu F(50,10) to Class B1 FM Station  
34 dBu F(50,10) to Class B FM Station

Relevant Protected Contours (SOLID):  
Class A, C, Cx, FX & LPFM = 60 dBu F(50,50)  
Class B1 FM Station = 57 dBu F(50,50)  
Class B FM Station = 54 dBu F(50,50)



#### Section 74.1204 Contours

##### Proposed FX Interfering Contour (DASHED):

54 dBu F(50,10) to Class A & FX & LPFM  
54 dBu F(50,10) to Class C, C0, C1, C2 & C3  
51 dBu F(50,10) to Class B1 FM Station  
48 dBu F(50,10) to Class B FM Station

##### Relevant Protected Contours (SOLID):

Class A & FX & LPFM = 60 dBu F(50,50)  
Class C, C0, C1, C2 & C3 = 60 dBu F(50,50)  
Class B1 FM Station = 57 dBu F(50,50)  
Class B FM Station = 54 dBu F(50,50)

■ W232DE.APP (268)

■ W269DH (269)

#### Section 74.1204 First-Adjacent Channel Contour Overlap Study

Exhibit 2

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#### W232DE.APP

Potomac, MD  
Latitude: 39-02-12.40 N  
Longitude: 077-12-07.90 W  
ERP: 0.10 kW  
Channel: 268  
Frequency: 101.5 MHz  
AMSL Height: 163.0 m  
Horiz. Pattern: Directional

Scale 1:450,000

0 6 12 18 km



# Section 74.1204 2nd & 3rd Adjacent Channel Contour Overlap Study

Exhibit 3

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W232DE.APP (268)

WLIF (270)

## W232DE.APP

Potomac, MD

Latitude: 39-02-12.40 N

Longitude: 077-12-07.90 W

ERP: 0.10 kW

Channel: 268

Frequency: 101.5 MHz

AMSL Height: 163.0 m

Horiz. Pattern: Directional

## Section 74.1204 Contours

Proposed FX Interfering Contour (SMALL):

100 dBu F(50,10) to Class A & FX & LPFM

100 dBu F(50,10) to Class C, C0, C1, C2 & C3

97 dBu F(50,10) to Class B1 FM Station

94 dBu F(50,10) to Class B FM Station

Relevant Protected Contours (SOLID):

Class A & FX & LPFM = 60 dBu F(50,50)

Class C, C0, C1, C2 & C3 = 60 dBu F(50,50)

Class B1 FM Station = 57 dBu F(50,50)

Class B FM Station = 54 dBu F(50,50)

Scale 1:500,000

