

Section 74.1204 - Statement of Compliance
W234BH, West Hazleton to Berwick, PA
LMS File No. 0000153564
FM Translator Facility ID. 141502
November, 2022

As demonstrated elsewhere in this Application, the Applicant proposes a minor change to the above-referenced, non-reserved band, pre-AM Revitalization, FM translator authorization. Specifically, the Applicant proposes herein to rotate the licensed directional antenna and slightly reduce power. In connection with the proposed technical facility change, the instant application also specifies an administrative change in the translator's "community of license" and changes the translator's primary station. No further changes are proposed herein. 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 cochannel (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

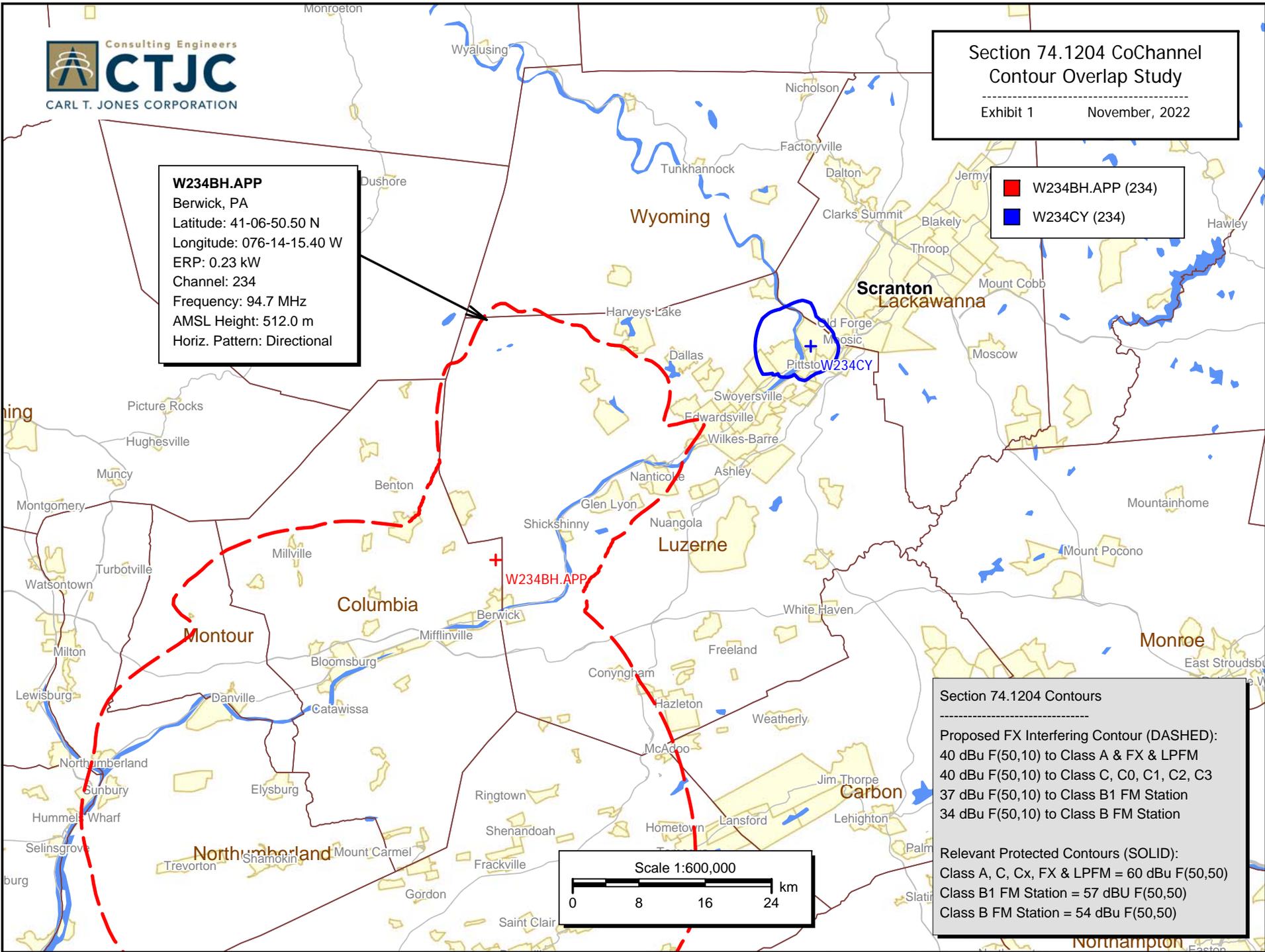
As shown in Exhibit 3, the proposed technical facility complies with the contour overlap provisions of Section 74.1204(a) of the FCC Rules with respect third-adjacent channel stations WBLJ-FM, Shamokin, PA (Channel 237A) and W237DP, Mountaintop, PA (Channel 237D). The required protection to third-adjacent channel station WQKX(FM), Sunbury, PA (Channel 231B) 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 WQKX(FM) protected contour resulting in contour overlap as defined in Section 74.1204 of the FCC Rules. At the translator's proposed transmitter site, WQKX(FM) is predicted to produce a F(50,50) signal strength of 59 dBu. Therefore, in the vicinity of the second-adjacent channel translator station, the translator's relevant interfering contour is the 99 dBu contour relative to WQKX(FM). As shown on Exhibit 4, there are no buildings, residences or major roadways within the predicted worst-case interfering contour. Therefore, the instant proposal will cause no interference to any population served by WQKX(FM).

Accordingly, the proposed facility satisfies Section 74.1204(d) of the FCC Rules with respect to WQKX(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”.

W234BH.APP
 Berwick, PA
 Latitude: 41-06-50.50 N
 Longitude: 076-14-15.40 W
 ERP: 0.23 kW
 Channel: 234
 Frequency: 94.7 MHz
 AMSL Height: 512.0 m
 Horiz. Pattern: Directional

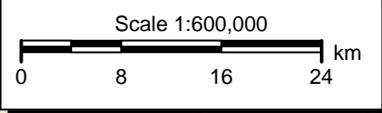
■ W234BH.APP (234)
■ W234CY (234)



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)

Section 74.1204 First-Adjacent Channel Contour Overlap Study

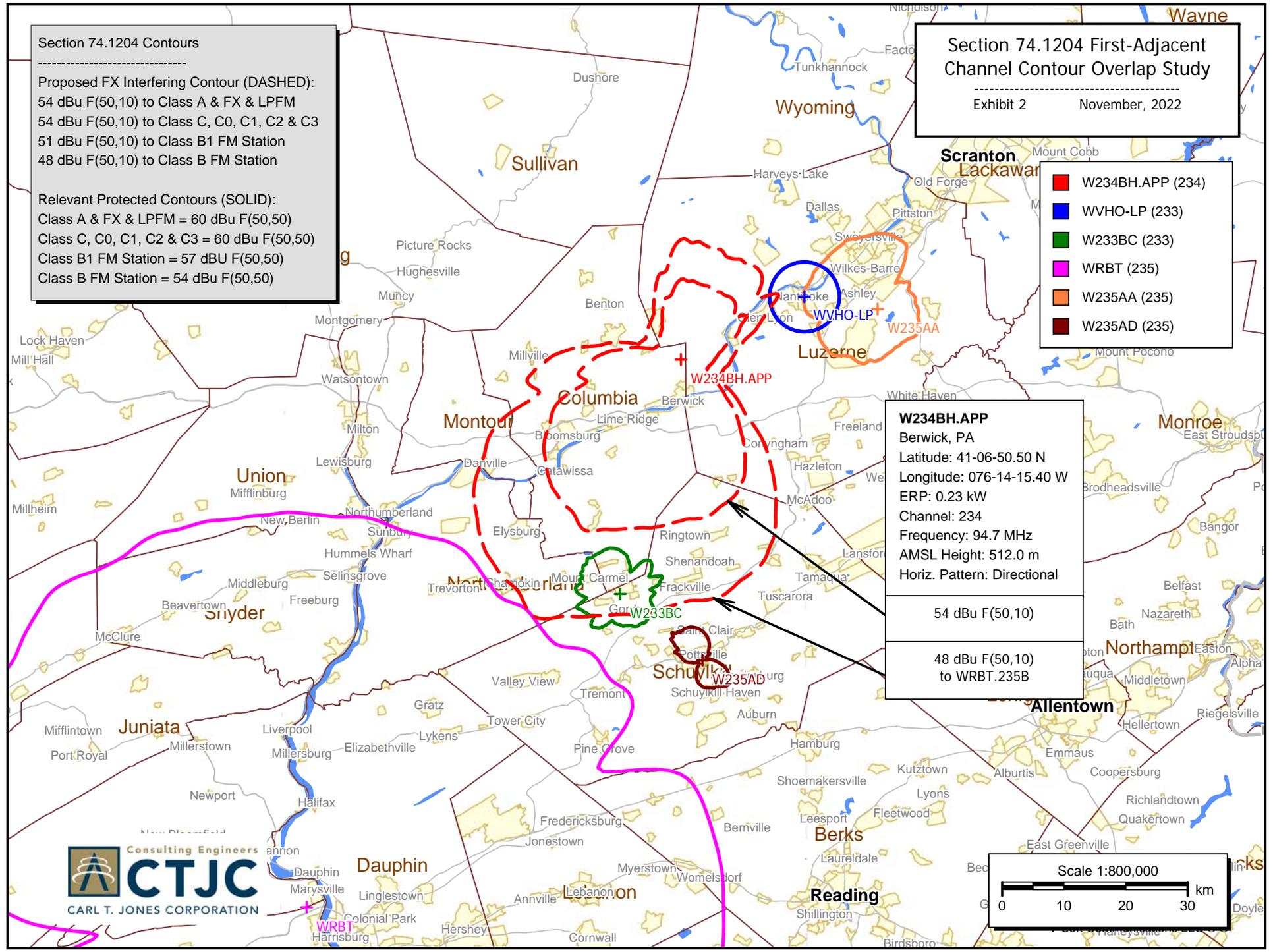
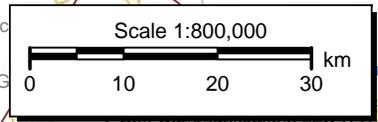
Exhibit 2 November, 2022

- W234BH.APP (234)
- WVHO-LP (233)
- W233BC (233)
- WRBT (235)
- W235AA (235)
- W235AD (235)

W234BH.APP
 Berwick, PA
 Latitude: 41-06-50.50 N
 Longitude: 076-14-15.40 W
 ERP: 0.23 kW
 Channel: 234
 Frequency: 94.7 MHz
 AMSL Height: 512.0 m
 Horiz. Pattern: Directional

54 dBu F(50,10)

48 dBu F(50,10)
 to WRBT.235B



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

Exhibit 3 November, 2022

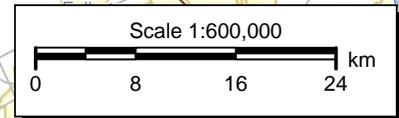
- W234BH.APP (234)
- WBLJ-FM (237)
- W237DP (237)

Section 74.1204 Contours

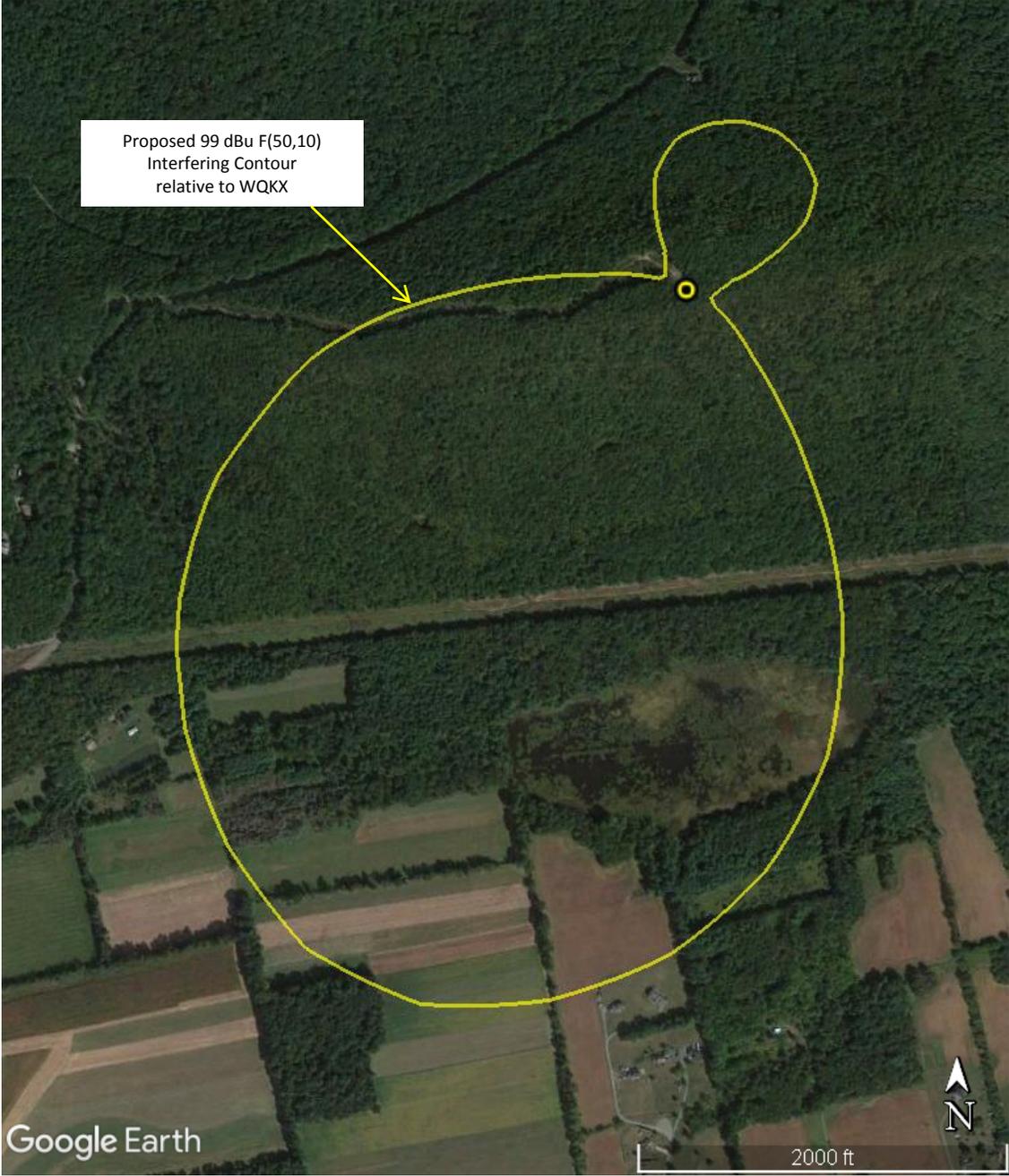
Proposed FX Interfering Contour (SMALL):
100 dBu F(50,10) to Class A & FX & LPFM
100 dBu F(50,10) to Class C, C0, C1, C2 & C3
97 dBu F(50,10) to Class B1 FM Station
94 dBu F(50,10) to Class B FM Station

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)

W234BH.APP
Berwick, PA
Latitude: 41-06-50.50 N
Longitude: 076-14-15.40 W
ERP: 0.23 kW
Channel: 234
Frequency: 94.7 MHz
AMSL Height: 512.0 m
Horiz. Pattern: Directional



WQKX(FM), Sunbury, PA
Channel 231B, 16.0 kW ERP, 268 m HAAT
FCC File No. BMLH-20050822AAE



Worst-Case Interfering Contour to WQKX
W234BH.MOD, Berwick, PA (Facility ID 141502)
Ch. 234D, 230 watts ERP (DA-MAX), 54 m RCAGL
November, 2022