

Section 74.1204 - Statement of Compliance
K266CK-CP, Colorado Springs, CO
FCC File No. BMPFT-20160729ALC
FM Translator Facility ID. 25634
January, 2017

The Applicant proposes a minor modification to the above-referenced, non-reserved band, FM translator authorization. Specifically, the applicant proposed herein to relocate and change its directional antenna. 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 are two maps which demonstrate 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 on 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 station KXCL(FM), Rock Creek Park, CO (Channel 269A). The required protection to second-adjacent channel station KGFT(FM), Pueblo, CO (Channel 264C) 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 protected contour of KGFT(FM) resulting in contour overlap as defined in Section 74.1204 of the FCC Rules. However, at the translator's proposed transmitter site, KGFT(FM) is predicted to produce an F(50,50) signal strength of 102 dBu. Therefore, in the vicinity of the second-adjacent channel translator station, the translator's relevant interfering contour is the 142 dBu contour relative to KGFT(FM). According to free space calculations, the translator's predicted interfering contour will extend only 5.4 meters from the proposed transmit antenna. Because the proposed transmit antenna will be located 9 meters above ground level, the predicted interference area will neither reach ground level nor reach any people. Therefore, the proposed minor change will cause no interference to any population served by KGFT(FM).

Accordingly, the proposed facility satisfies Section 74.1204(d) of the FCC Rules 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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Key to Stations on Map

- K266CK.MOD.CP.APP.FAC.ID.25634
- KOSI.266C.FAC.ID.67844

K266CK.MOD.CP.APP.FAC.ID.25634

Colorado Springs, CO
Latitude: 38-48-37 N
Longitude: 104-52-54 W
ERP: 0.099 kW
Channel: 266
Frequency: 101.1 MHz
AMSL Height: 2179.0 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 First-Adjacent Channel Contour Overlap Study

Exhibit 2

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Key to Stations on Map

- K266CK.MOD.CP.APP.FAC.ID.25634
- KFEZ.267.FAC.ID.164170
- K267BR.CP.267D.FAC.ID.139103

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)

K266CK.MOD.CP.APP.FAC.ID.25634

Colorado Springs, CO
Latitude: 38-48-37 N
Longitude: 104-52-54 W
ERP: 0.099 kW
Channel: 266
Frequency: 101.1 MHz
AMSL Height: 2179.0 m
Horiz. Pattern: Directional

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

Exhibit 3

January, 2017

K266CK.MOD.CP.APP.FAC.ID.25634

Colorado Springs, CO

Latitude: 38-48-37 N

Longitude: 104-52-54 W

ERP: 0.099 kW

Channel: 266

Frequency: 101.1 MHz

AMSL Height: 2179.0 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)

Colorado Springs

Key to Stations on Map

■ K266CK.MOD.CP.APP.FAC.ID.25634

■ KXCL.269A.FAC.ID.164277

Scale 1:141,200

0 2 4 6 km

Fountain