

Amended Section 74.1204 - Statement of Compliance
AM Revitalization 250-Mile Window Application
W240CO, Charlotte, MI to Detroit, MI, Channel 240
FM Translator Facility ID. 156770
February, 2016

The Applicant proposes to modify the above-referenced, non-reserved band, FM translator authorization pursuant to the announced “*First FM translator application modification window for AM stations to modify and/or relocate FM translator stations (First Modification Window)*”.¹ The FM translator will relocate, change frequency and rebroadcast Class C AM station WDTK(AM), Detroit, Michigan (Facility ID 68641). As discussed below, the instant proposal complies with the protection requirements set forth in Section 74.1204 of the FCC Rules. This technical amendment will resolve a conflict with a mutually-exclusive application which was also filed on the opening day of the First Modification Window.

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

The required protection to second-adjacent channel stations WKQI(FM), Detroit, MI (Channel 238B) and WDVD(FM), Detroit, MI (Channel 242B) 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 second-adjacent channel, full service stations listed above which results in contour overlap as defined in Section 74.1204 of the FCC Rules. However, at the translator’s proposed transmitter site, WDVD(FM) is predicted to produce an F(50,50) signal strength of 120 dBu while WKQI(FM) is predicted to produce an F(50,50) signal strength of only 111 dBu. Therefore, WKQI(FM) provides for a worst-case interference analysis.

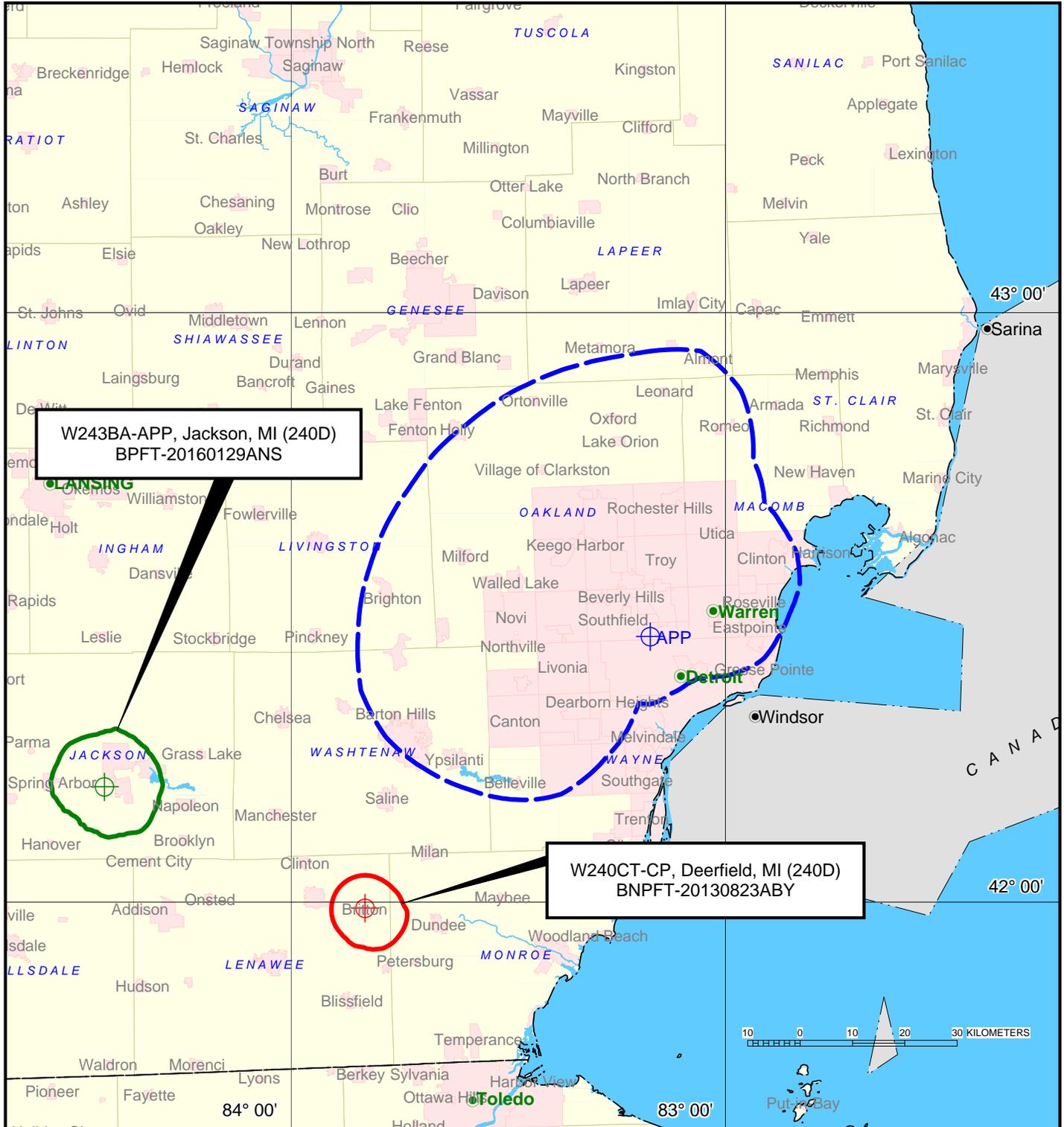
In the vicinity of the second-adjacent channel translator station, the translator’s relevant interfering contour is the 151 dBu contour relative to WKQI(FM). According to free space calculations, the translator’s predicted interfering contour will extend only 2.1

¹ See FCC Public Notice (DA 1491), *Media Bureau Announces Filing Dates and Procedures for AM Station Filing Window for FM Translator Modifications and Availability of FM Translator Technical Tools*, Released December 23, 2015.

meters from the proposed transmit antenna. Because the proposed transmit antenna will be located 276 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 presently served by WKQI(FM) or by WDVD(FM).

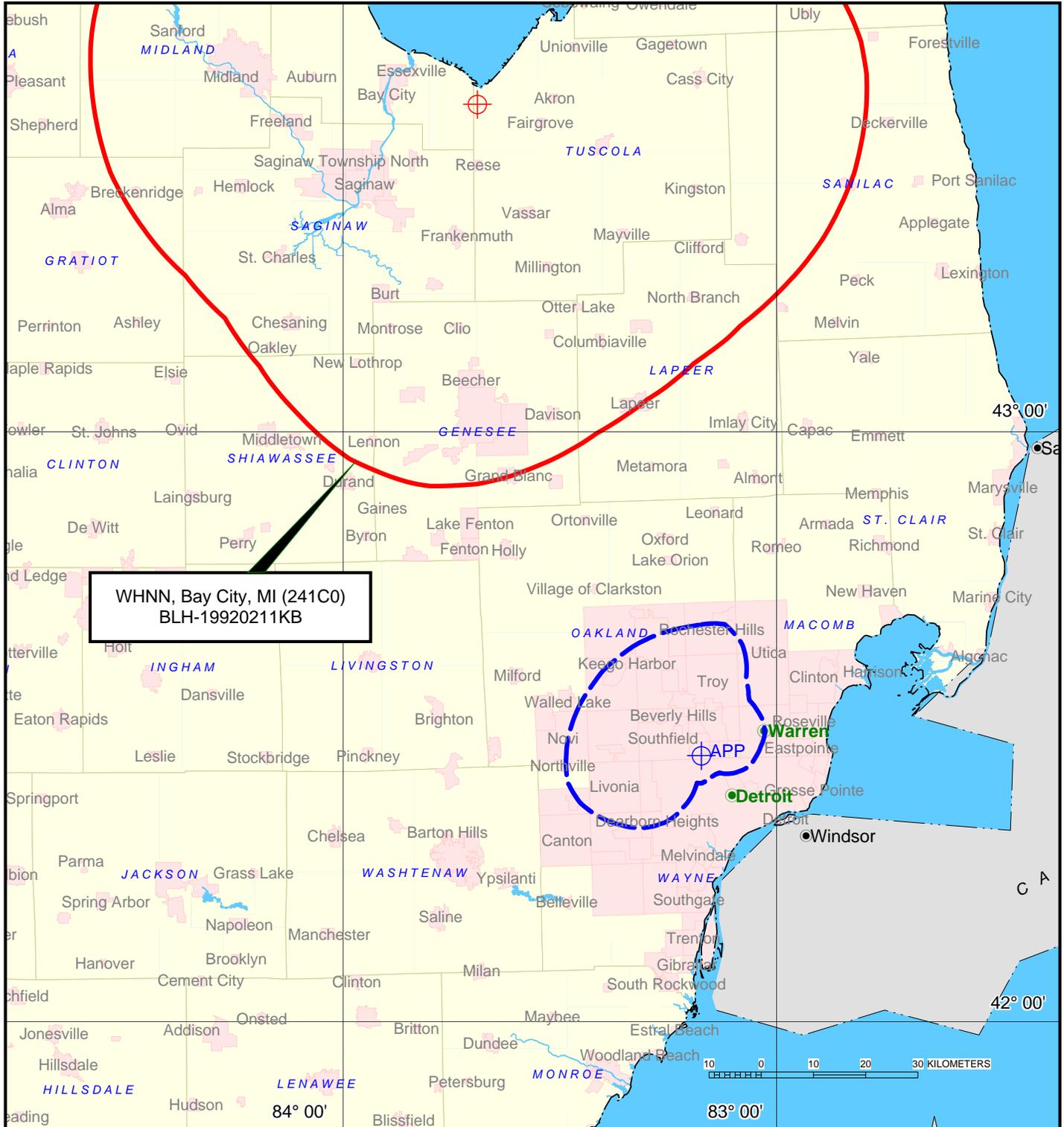
Accordingly, the proposed facility satisfies Section 74.1204(d) of the FCC Rules because it has been “demonstrated that no actual interference will occur due to lack of population or such other factors as may be applicable”.

Cochannel FM Translator Protected Contours: 60 dBu F(50,50) - Solid Contours
Proposed Translator Interfering Contour: 40 dBu F(50,10) - Dashed Contour



CO-CHANNEL SECTION 74.1204
CONTOUR OVERLAP STUDY
TRANSLATOR FACILITY ID 156770
LIC: W240CO, CHARLOTTE, MI
AMEND: DETROIT, MI, CH. 240D, 99 watts (DA-MAX), 478 m RCAMSL
FEBRUARY, 2016

First-Adjacent Channel FM Protected Contours: 60 dBu F(50,50) - Solid Contours
Proposed Translator Interfering Contour: 54 dBu F(50,10) - Dashed Contour



FIRST-ADJACENT CHANNEL SECTION 74.1204
CONTOUR OVERLAP STUDY
TRANSLATOR FACILITY ID 156770
LIC: W240CO, CHARLOTTE, MI
AMEND: DETROIT, MI, CH. 240D, 99 watts (DA-MAX), 478 m RCAMSL
FEBRUARY, 2016