

Section 74.1204 - Statement of Compliance
W272DS-CP (formerly W267BW), Miami, FL
Modification of FCC Construction Permit
FCC File No. BPFT-20160729ALK
FM Translator Facility ID. 90508
August, 2017

The Applicant proposes a minor modification to the above-referenced, non-reserved band, FM translator authorization. Specifically, the applicant proposes herein to utilize a different antenna make and model at a lower height on the currently authorized tower structure. No further changes are proposed herein.

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

The required protection to second-adjacent channel stations W270CV, Miami, FL (Channel 270D) and WMXJ(FM), Pompano Beach, FL (Channel 274C0) 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 on the same tower and just below W270CV which is authorized to operate with an ERP of 250 watts (DA-MAX). The proposed translator facility will operate with an ERP of 170 watts (DA-MAX) which is 1.7 dB below the maximum W270CV operating power.

Because the FM translator stations will be collocated on a second-adjacent channel basis with an operating difference of only 1.7 dB, which is well below the 40 dB U/D protection ratio for which second-adjacent channel interference is predicted to occur, no interference is predicted to any population within either translator's protected service areas.

With respect to WMXJ(FM), at the translator's proposed transmitter site, WMXJ(FM) is predicted to produce an F(50,50) signal strength of 87. Therefore, in the vicinity of WMXJ(FM), the translator's relevant interfering contour is the 127 dBu contour relative to WMXJ(FM). According to free space calculations, the translator's predicted interfering contour will extend only 42 meters from the proposed transmit antenna. Because the proposed transmit antenna will be located 158 meters above ground

level, the predicted interference area will neither reach ground level nor will the predicted interference area reach any buildings within a 42 meter horizontal distance from the proposed antenna location (See Exhibit 3). Therefore, the proposed minor change will cause no interference to any population served by WMXJ(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

August, 2017

Key to Stations on Map

- W272DS.MOD.CP.APP.FAC.ID.90508
- WEXI.LP.272L1.FAC.ID.194827

W272DS.MOD.CP.APP.FAC.ID.90508

Miami, FL

Latitude: 25-46-24 N

Longitude: 080-11-18 W

ERP: 0.17 kW

Channel: 272

Frequency: 102.3 MHz

AMSL Height: 162.0 m

Horiz. Pattern: Directional

Section 74.1204 Contours

Proposed FX Interfering Contour (DASHED):

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

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 & 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)

Scale 1:634,317



Section 74.1204 First-Adjacent Channel Contour Overlap Study

Exhibit 2

August, 2017

Section 74.1204 Contours

Proposed FX Interfering Contour (DASHED):

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

Relevant Protected Contours (SOLID):

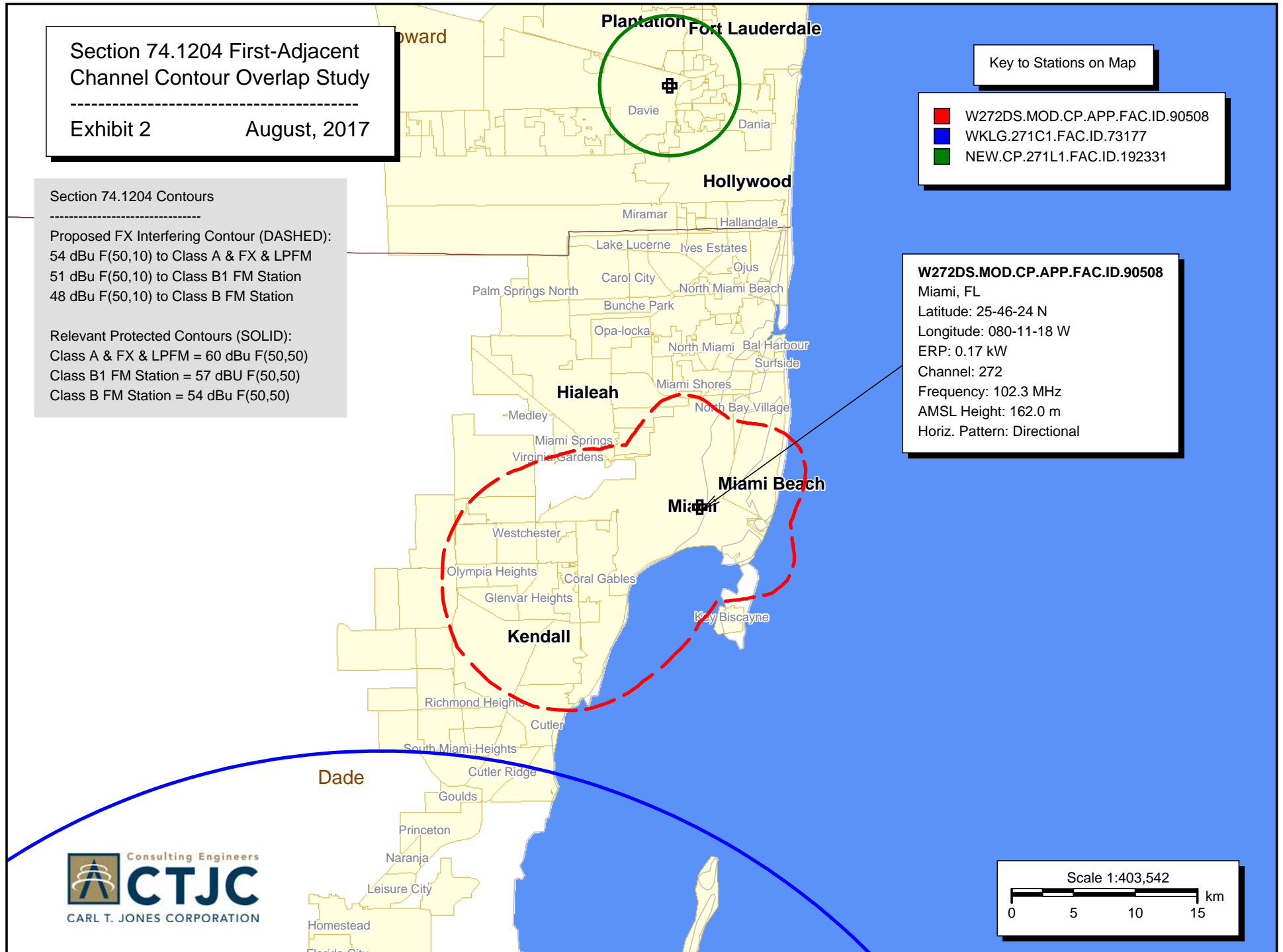
Class A & FX & LPFM = 60 dBu F(50,50)
Class B1 FM Station = 57 dBu F(50,50)
Class B FM Station = 54 dBu F(50,50)

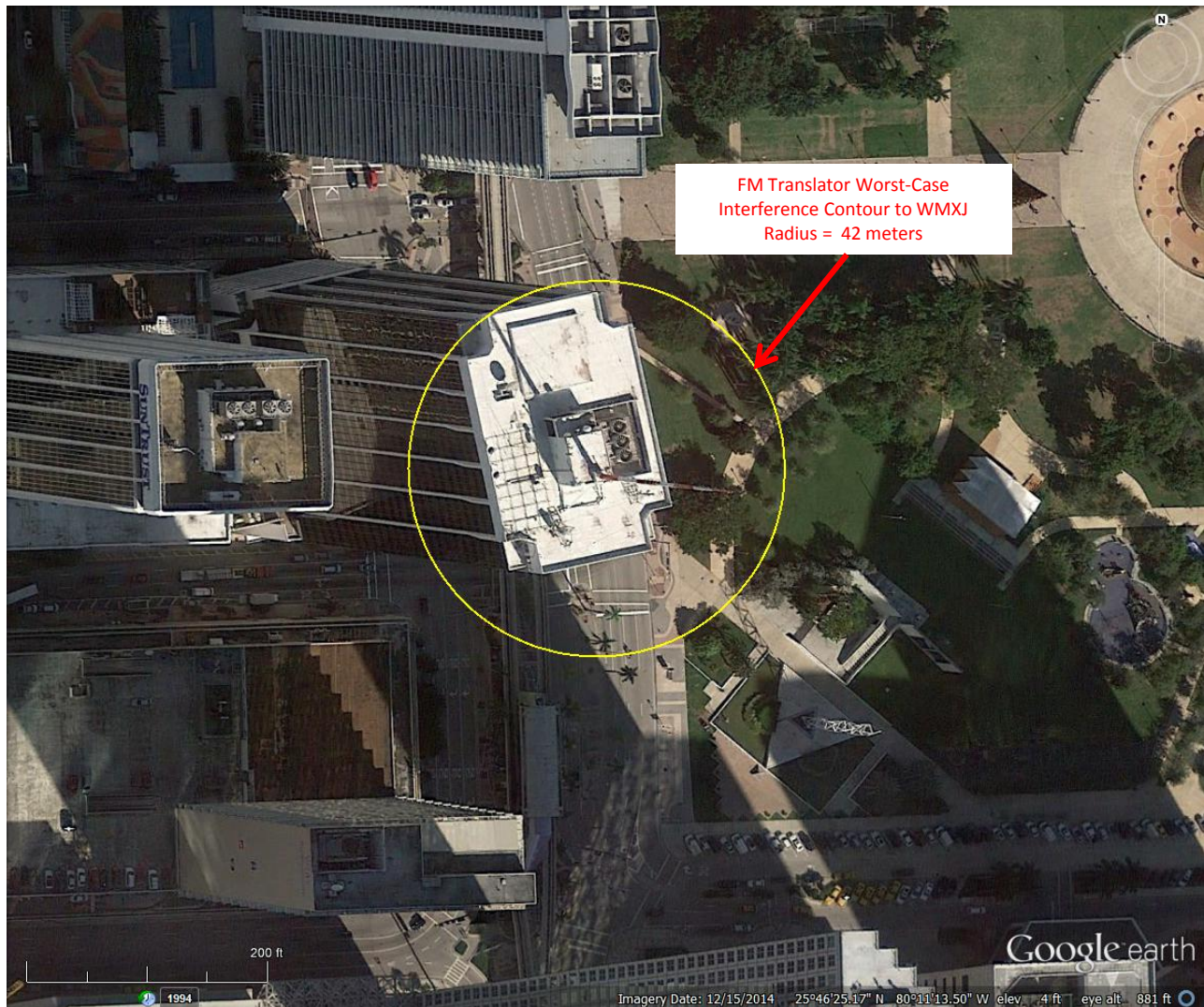
Key to Stations on Map

- W272DS.MOD.CP.APP.FAC.ID.90508
- WKLG.271C1.FAC.ID.73177
- NEW.CP.271L1.FAC.ID.192331

W272DS.MOD.CP.APP.FAC.ID.90508

Miami, FL
Latitude: 25-46-24 N
Longitude: 080-11-18 W
ERP: 0.17 kW
Channel: 272
Frequency: 102.3 MHz
AMSL Height: 162.0 m
Horiz. Pattern: Directional





WMXJ, Pompano Beach, FL
Ch. 274C0, 100 kW ERP, 307 m HAAT
FCC File No. BLH-20050225AAL



Worst-Case Channel 272 Interfering Contour
to Second-Adjacent Channel Station WMXJ
W272DS-CP, Miami, FL (Facility ID 90508)
ERP: 170 watts (DA-MAX) , 162 m RCMSL
August, 2017