

K265CI, Prescott, AZ
74.1204 Interference Analysis
October, 2015

FM translator station K265CI is presently authorized under FCC Construction Permit FCC File No. BPFT-20140613AAC to operate on FM channel 280D with an effective radiated power of 250 watts (DA-MAX). The instant proposal seeks authority to change the polarization, decrease power and specify an alternate “off-the-shelf” directional antenna for FM translator station K265CI. No further changes are proposed herein.

The translator’s present transmitter site remains within the protected contour of second-adjacent channel, full service station KAJM(FM), Camp Verde, AZ (Channel 282C). Consequently, the translator’s proposed interfering contour is located with KAJM protected contour resulting in contour overlap as defined in Section 74.1204 of the FCC Rules. The only other protection considerations which require closer study for compliance with the contour overlap provisions of Section 74.1204 are is second-adjacent channel full-service station KLNZ(FM), Glendale, AZ (Channel 278C) and co-channel FM translator station K280FS, Nothing, AZ (Channel 280).

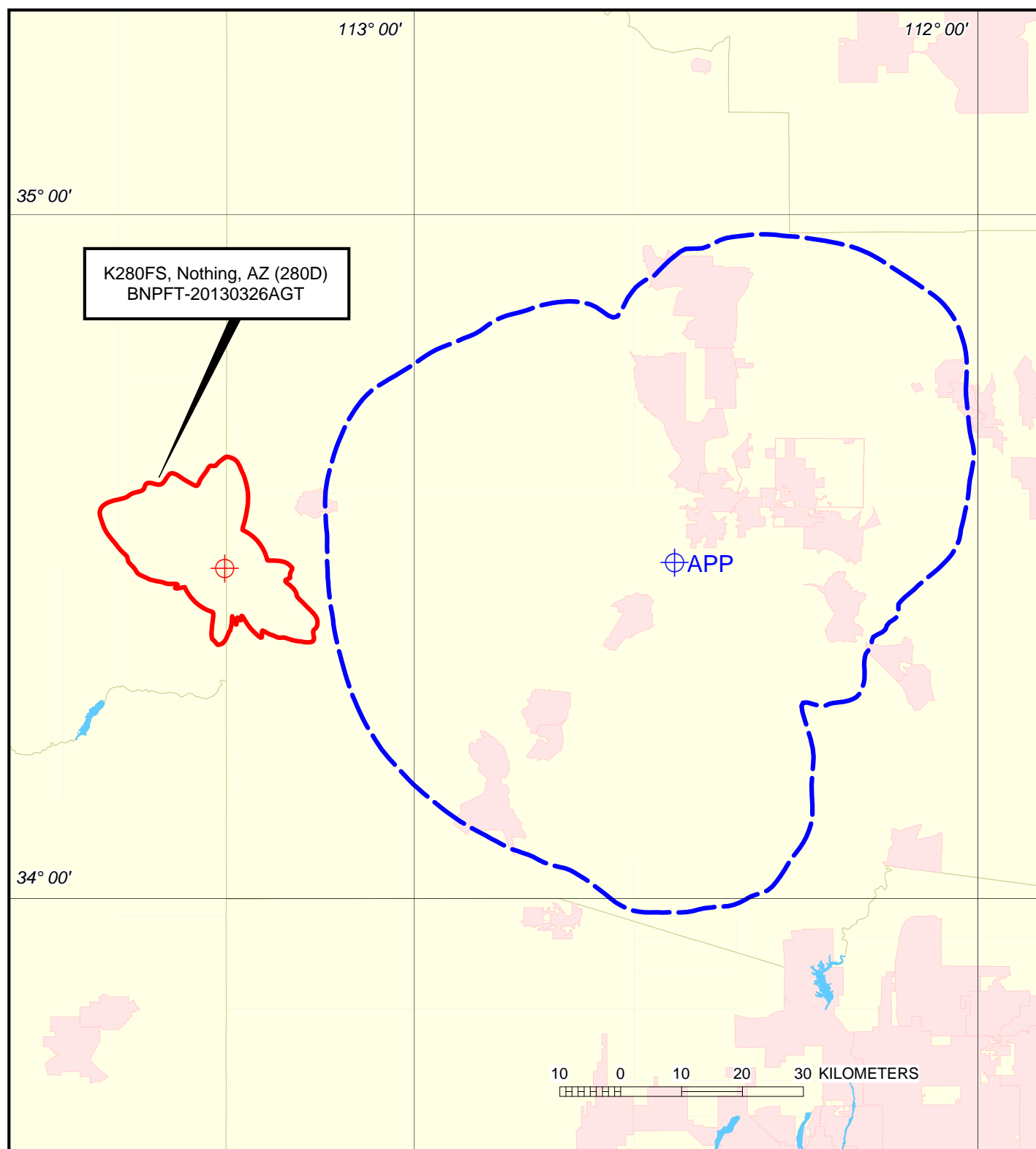
As shown on Exhibit 1, the proposed K265CI (Channel 280) interfering contour does not overlap the K280FS protected contour in accordance with Section 74.1204 of the FCC Rules. Similarly, Exhibit 2 shows that the proposed K265CI (Channel 280) interfering contour does not overlap KLNZ(FM) protected contour in accordance with Section 74.1204 of the FCC Rules. The proposed translator facility would cause no overlap to any other authorized or proposed facility not specifically referenced herein.

With respect to KAJM(FM), at the translator’s existing transmitter site, KAJM is predicted to produce an F(50,50) signal strength of 82 dBu. Therefore, in the vicinity of the second-adjacent channel translator station, the translator’s relevant interfering contour is the 122 dBu contour. According to free space calculations, the translator’s predicted 122 dBu contour will extend only 41.8 meters from the translator’s transmitter site. Exhibit 3 (attached) is a satellite map which depicts the translator’s transmitter site and the surrounding vicinity.

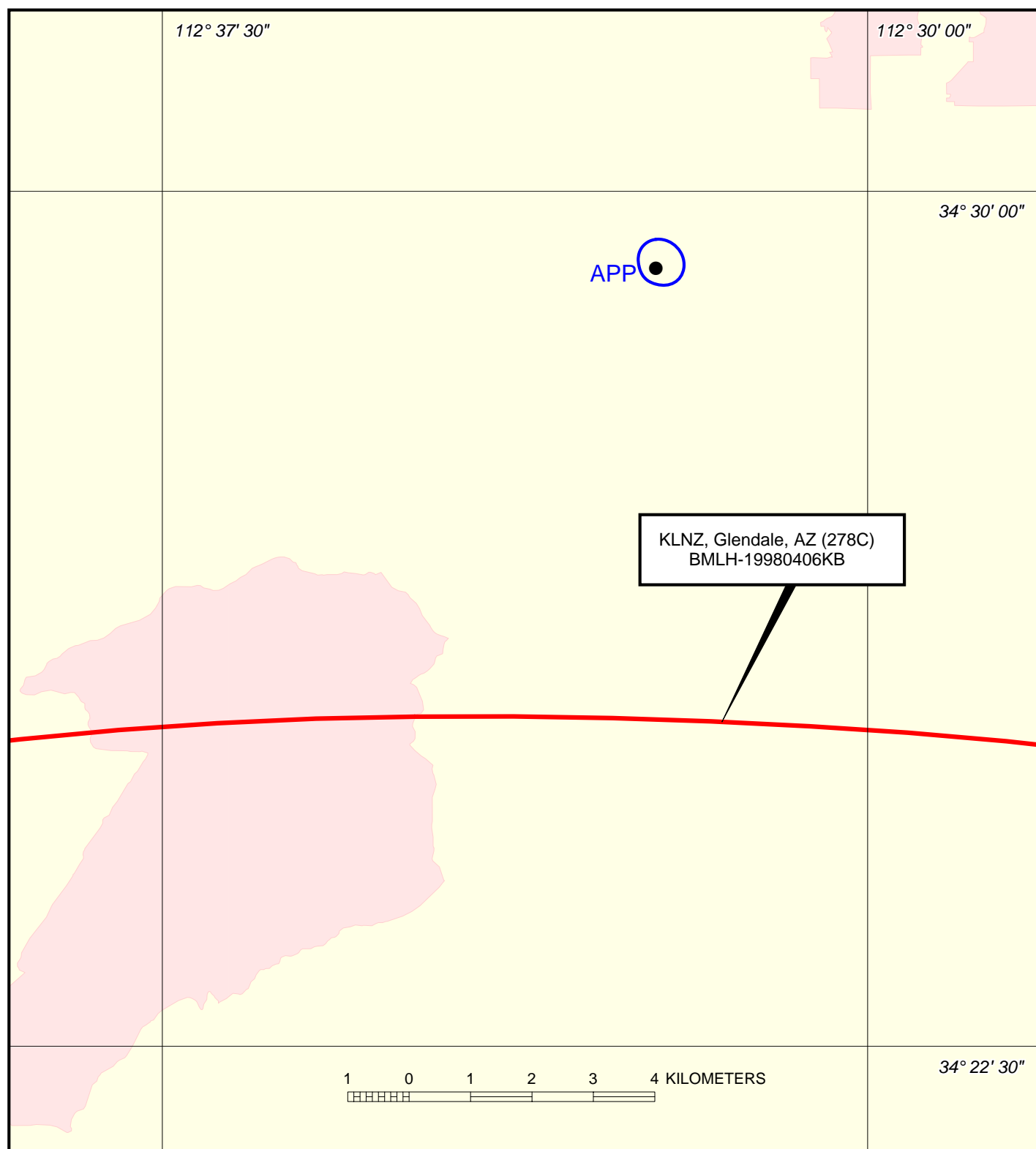
As demonstrated on Exhibit 3, the translator station is located atop Mt. Francis in a remote area southwest of Prescott. There are no housing units and no population in the vicinity of the transmitter site or within the worst-case 122 dBu interfering contour depicted on Exhibit 3. Therefore, the proposed channel change will cause no interference to any population presently served by KAJM.

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”.

Protected Contours: 60 dBu F(50,50) - RED Contours
Proposed Translator Interfering Contour: 40 dBu F(50,10) - BLUE Contour

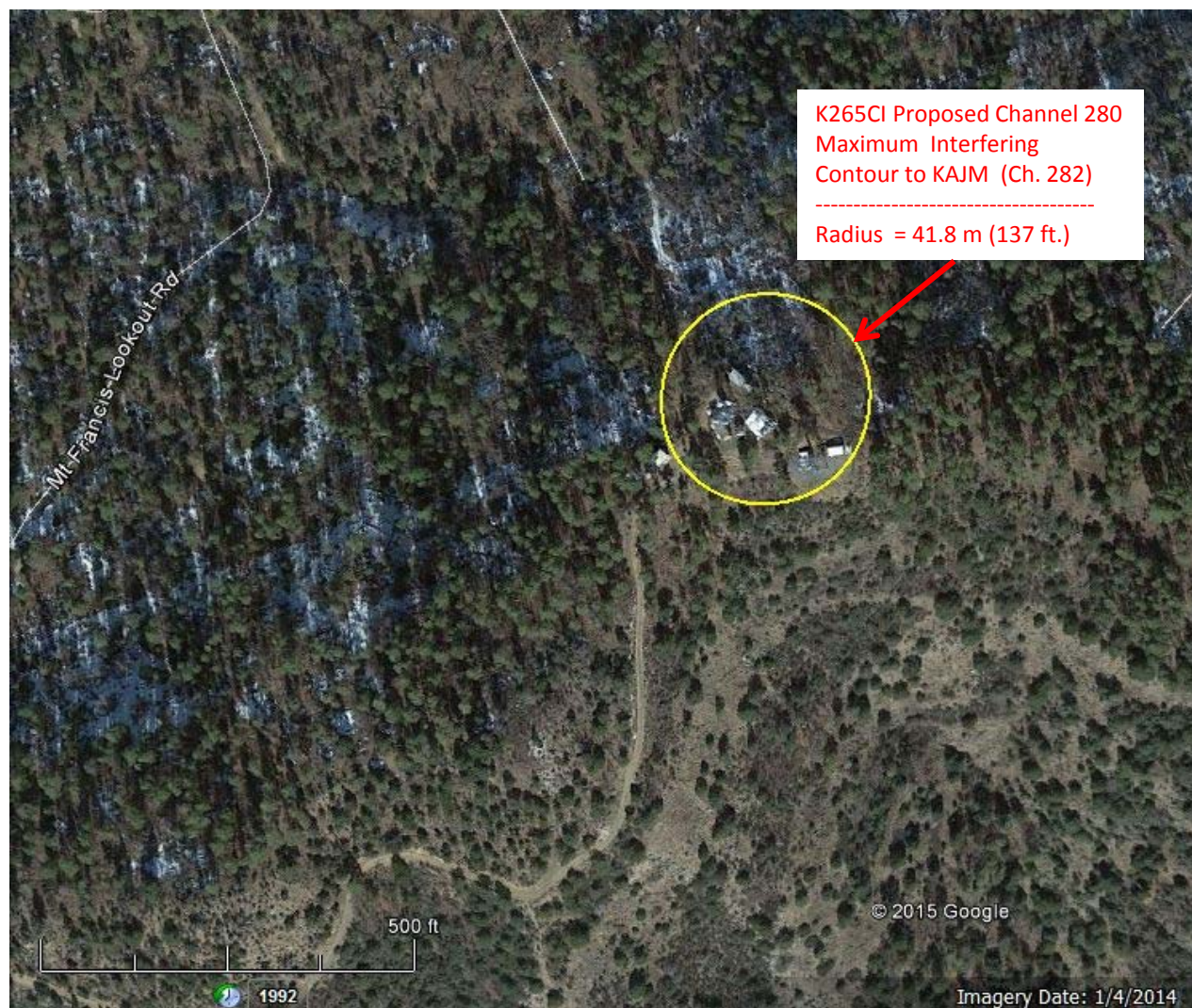


Full Service Protected Contours: 60 dBu F(50,50) - RED Contour
 Proposed Translator Interfering Contour: 100 dBu F(50,10) - BLUE Contour



SECOND/THIRD-ADJACENT CHANNEL SECTION 74.1204
 FM TRANSLATOR VS. FULL SERVICE FM
 CONTOUR OVERLAP STUDY
 K265CI, PRESCOTT, AZ
 CH. 280D, 45 watts (V, DA-MAX), 440 m HAAT
 OCTOBER, 2015

As demonstrated below, there are no inhabited buildings or major roadways within the predicted interference area.



KAJM(FM) Camp Verde, AZ
Ch. 282C, 40 kW ERP, 807 m HAAT
FCC File No. BMLH-20120321AES

Worst-Case K265CI Interfering Contour
to Second-Adjacent Channel Station KAJM(FM)
Fill-in FM Translator Station K265CI, Prescott, AZ
CP: Ch. 280D, 250 watts (DA-MAX), 440 m HAAT
APP: Ch. 280D, 45 watts (V, DA-MAX), 440 m HAAT
October, 2015