

Community Wireless of Park City, Inc.
Proposed Addition of Vertical Polarization for
Translator Station K287AE

Coverage Requirements, Interference
and waiver request

The instant request seeks authority to add polarization to the signals radiated from the translator. Vertical radiation was not initially requested because there was not room for the antennas on the originally anticipated tower. The same class of antennas will be used for the vertically polarized signal as are presently installed for the present horizontal signal, which will remain unchanged. As then antennas have a wider pattern when mounted for vertical polarization, the heading and power input to the vertical radiators will be adjusted so that there will be no additional interference area to proposed translator application BNPFT-20030314BYI. This will result in some additional service in the area to the south of the area presently served by the translator, which is still within the theoretical service area of the primary station.

Service area:

Neither the present nor the proposed facilities of K287AE will provide a 60 dbu contour calculated in accordance with §73.313 to any area that does not also receive a 60 dbu contour from the primary station as calculated by §73.313. See the attachment [“Proposed Coverage is within Primary Station Contour.”](#)

Interference caused:

The proposed addition of vertical polarization will not cause new interference to any licensed primary or secondary station, or to any proposed primary or secondary station in any populated area. Some of these situations require closer study to clarify the no additional interference caused situation:

Proposed translator BNPFT-20030314BYI, Ogden, Utah will receive interference from the presently licensed horizontally polarized facilities of K287AE. The attachment [“K287AE and Co-Channel Stations”](#) on the second page shows in detail that the proposed vertically polarized facilities will not cause interference to any area not already receiving interference from the licensed horizontally polarized facilities. Note that the application for the Ogden Translator was tendered after the present facilities of K287AE were authorized, implying that the proposed Ogden Translator volunteered to receive the interference presently predicted.

The proposed additional vertically polarized signal will not cause interference to First Adjacent Channel station KNJQ, Manti, or its licensed or permitted on channel boosters. Note that there are several pending booster applications for KNJQ at or near the site of the presently licensed KNJQ-FM1 that may appear to receive some interference, but as these proposals also propose to extend the presently licensed 60 dbu Contour of KNJQ, the primary station, those applications will either be amended or dismissed. (Acceptable booster applications will not receive interference, as the 60 dbu Contour of KNJQ does not receive interference, and a booster cannot extend that contour.)

K287AE is located within the 60 dbu contour of second adjacent channel station KCPX. The 100 dbu interfering contour to KCPX both as presently licensed and as proposed is

confined to an unpopulated area to which public access is restricted by locked gates and security guards. A continued waiver of §74.1204(a)(3) in accordance with §74.1204(d) is hereby requested.

Interference received:

Co-Channel. K287AE, both as presently licensed and proposed, appears to receive interference from the construction permit facilities of co-channel station KDWY when calculated according to §73.313, but in fact will not because of terrain shielding. See the first page of the attachment [“K287AE and Co-Channel Stations.”](#)

First Adjacent Channel. K287AE, both as presently licensed and proposed, appears to receive interference from the licensed facilities of first adjacent station KNJQ when calculated according to §73.313, but in fact will not except in unpopulated or lightly populated areas because of terrain shielding. See the attachment [“K287AE and First Adjacent Channel Stations.”](#) Note particularly the second page of the attachment. K287AE will continue to accept this interference.

Second Adjacent Channel. The 100 dbu contour of second adjacent channel station KCPX overlaps the service contour of K287AE as licensed and as proposed. The is confined principally to area which is unpopulated and to which public access is restricted by locked gates and security guards. In the interference area that is not unpopulated, the KCPX signal does not now and will not exceed the K287AE signal by more than 40 db. See the attachment [“Interference between K287AE and Second & Third Adjacent Channel Stations.”](#) K287AE will continue to accept this interference.

The 100 dbu contour of second adjacent channel proposed translator station BNPFT-20030317MVH lies within the presently licensed horizontally polarized 60 dbu contour of K287AE, but is entirely outside of the proposed vertically polarized 60 dbu contour.