

Carl Watkins
Application for Modification of Translator License
Translator Station K237FA
Pocatello, Idaho

I. Purpose.

Carl Watkins, licensee of Translator Station K237FA, Pocatello, Idaho, seeks to modify the license by changing the orientation of the transmit antenna from 77° to 84° True.

The change is requested so that the 60 dBu contour of the translator will not exceed the 25 mile radius of the proposed new primary station, KBLI (AM).

HAAT vs. ERP in any direction is no longer a consideration as the translator will now be a "Fill-In" translator.

II. Interference caused and received,

a. Co-Channel. Interference computed in accordance with §73.313 of the FCC Rules shows no interference will be caused to co-channel station KZJH, Jackson, WY. The same method of computation implies that the translator receives interference from KZJH. No interference is actually received, and will not be received after the change proposed herein, because of terrain shielding, as shown on the terrain profile graphs on the following pages.

The terrain profile in the graphs is colored red where the 70 dBu signal computed in accordance with NBS Tech Note 101 is exceeded, blue where the signal is computed to exceed 60 dBu but not exceed 70 dBu, and green when the computed signal will exceed 40 dBu but not exceed 60 dBu, and black where the signal is calculated to be less than 40 dBu.

Graphs are calculated and presented for three sample directions from KZJH toward the translator service area. It will be noted that the translator will not receive actual interference within the 60 dBu contour calculated per §73.313.

The licensee of K237FA will continue to accept the "theoretical" interference from KZJH.

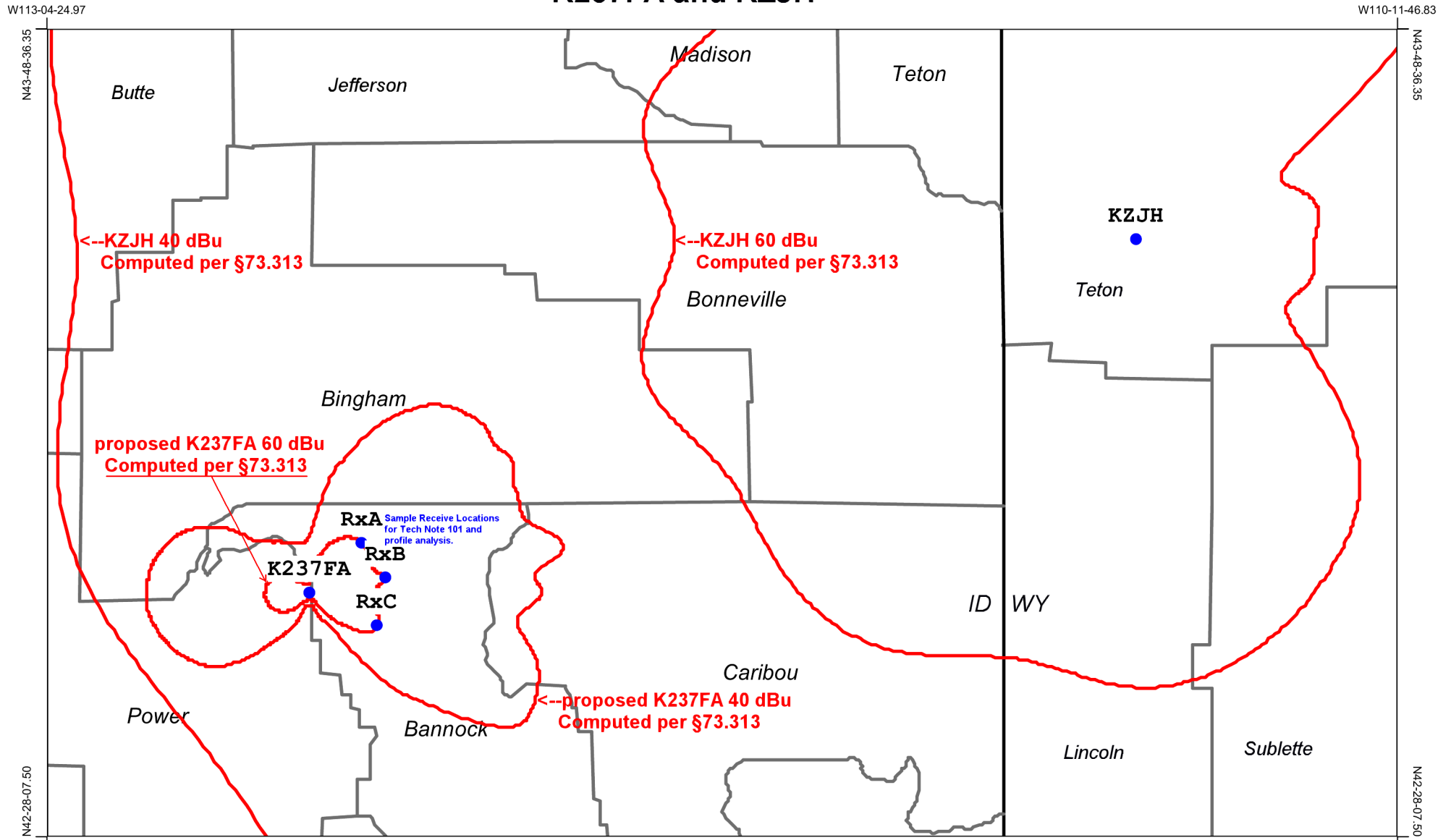
b. First Adjacent Channel. There is no overlap of the 54 dBu contours between First Adjacent Stations or Applications and the translator contours.

c. Second and Third Adjacent Channels. The translator is within the 60 dBu contours of co-located KPKY, Pocatello; and of translator application BNPFT-20030317LXS. In both cases there is no population within the K237FA 100 dBu interfering contour either before or after the antenna reorientation proposed herein, and the area within the 100 dBu interfering contour will remain unchanged. The translator licensee will continue to accept the interference within the KPKY 100 dBu Contour.

The service and interfering contours of the proposed translator change and translator Application BNPFT-20030317EQK do not overlap.

d. I.F. Spacing. There are no Full-Service stations on channels 290 or 291 within 29 km of the translator. As K237FA and translator station applications BNPFT-20030317JVO [co-located] and BNPFT-20030317HXQ are all less than 0.1 kW (authorized or proposed), the I.F. Spacing rule does not apply with respect to these proposals.

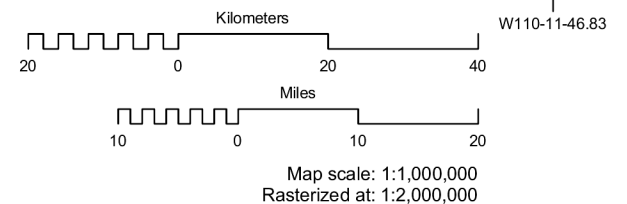
K237FA and KZJH



The Translator K237FA does not and will not receive actual interference from KZJH due to terrain shielding.

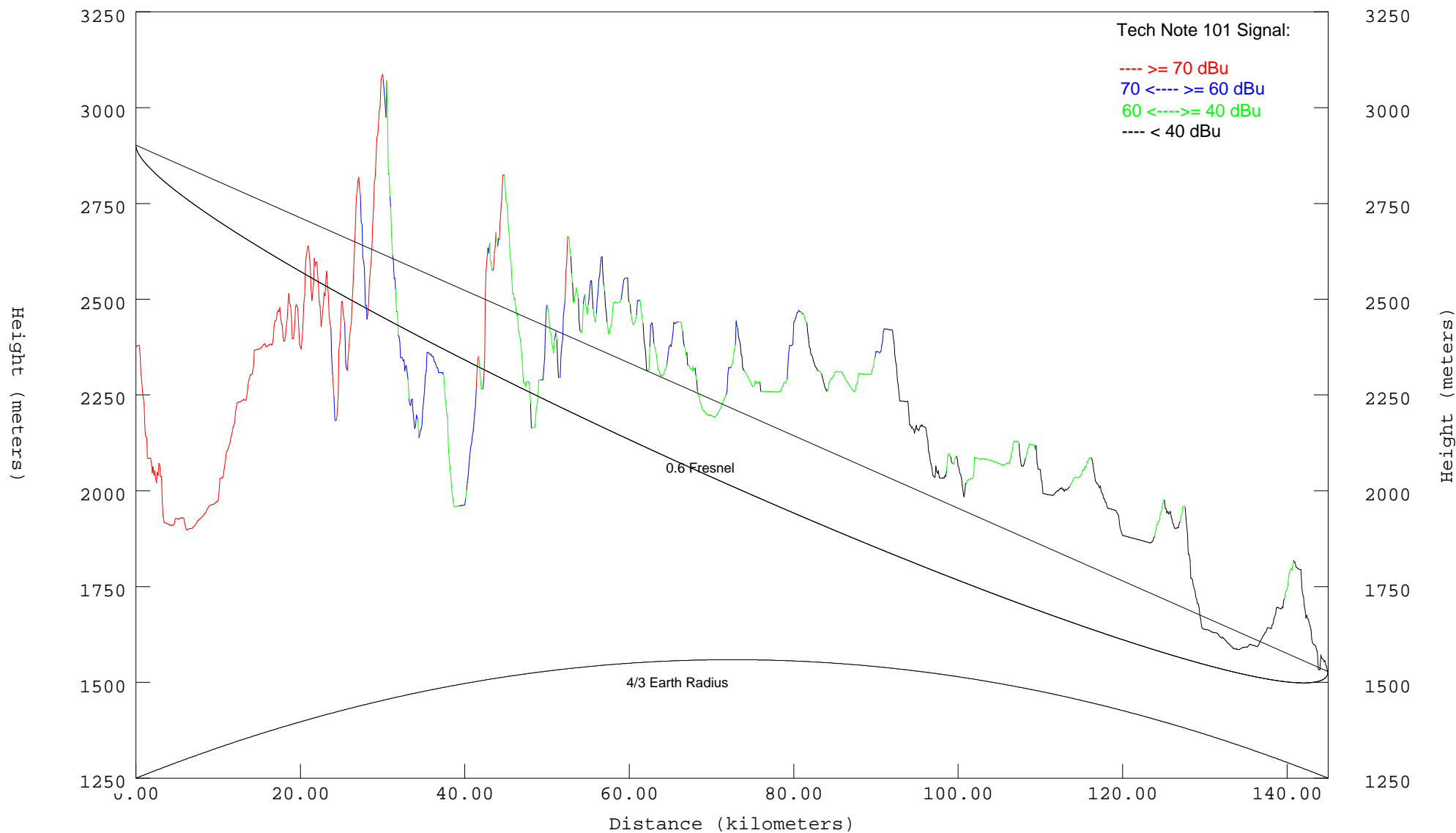
See the following three pages for terrain analysis and Tech Note 101 calculated levels.

Dennis Silver, PE
West Valley City, UT



Study: KZJH to K237FA RxA Receive point on 60 dBu contour
TX Site: KZJH
RX Site: RxA Receive point on K237FA 60 dBu contour
TX --> RX: 144.97 km, 247.7 degrees

TX Latitude: N43-27-40.00
TX Longitude: W110-45-12.00
RX Latitude: N42-57-18.60
RX Longitude: W112-24-06.10
NAD '83 coordinates +/- 02"



Study: KZJH to K237FA RxB Receive point on 60 dBu contour

TX Site: KZJH

RX Site: RxB Receive point on 60 dBu contour

TX --> RX: 143.90 km, 244.7 degrees

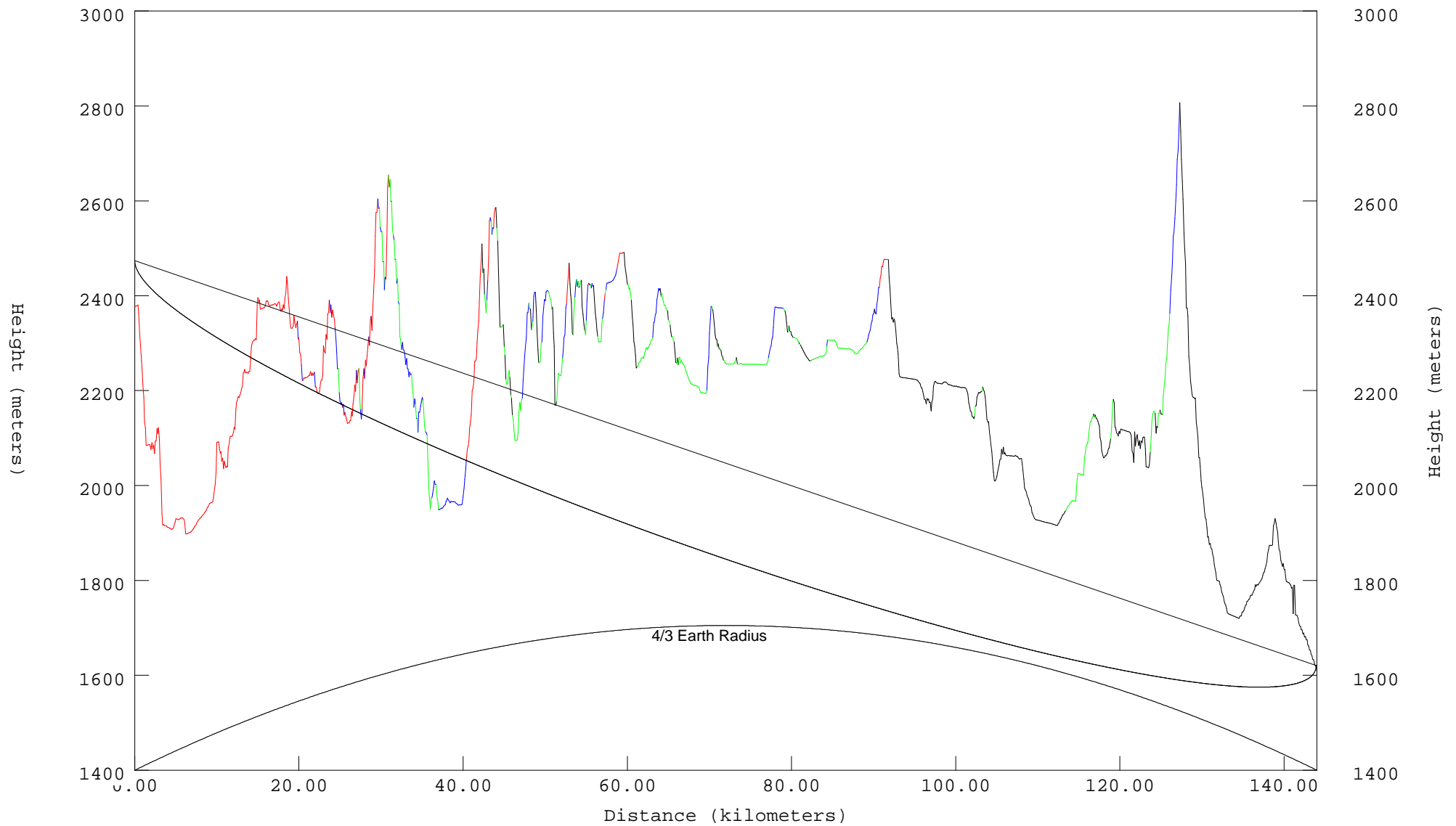
TX Latitude: N43-27-39.75

TX Longitude: W110-45-11.74

RX Latitude: N42-53-51.00

RX Longitude: W112-21-03.00

NAD '83 coordinates +/- 02"



Study: KZJH to K237FA Rx C Receive point on 60 dBu contour

TX Site: KZJH

RX Site: K237FA Rx C Receive point on 60 dBu contour

TX --> RX: 149.30 km, 242.0 degrees

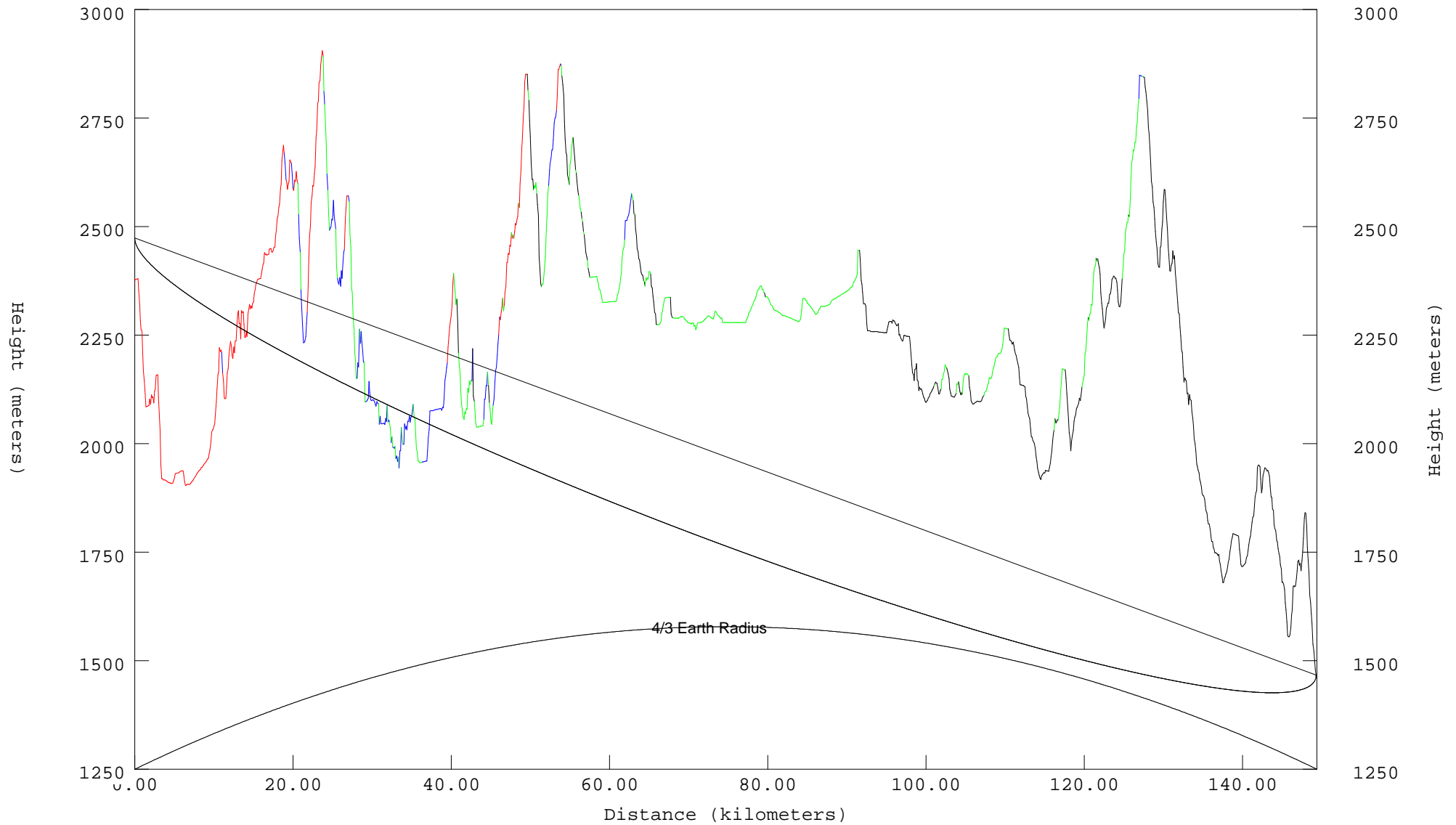
TX Latitude: N43-27-39.75

TX Longitude: W110-45-11.74

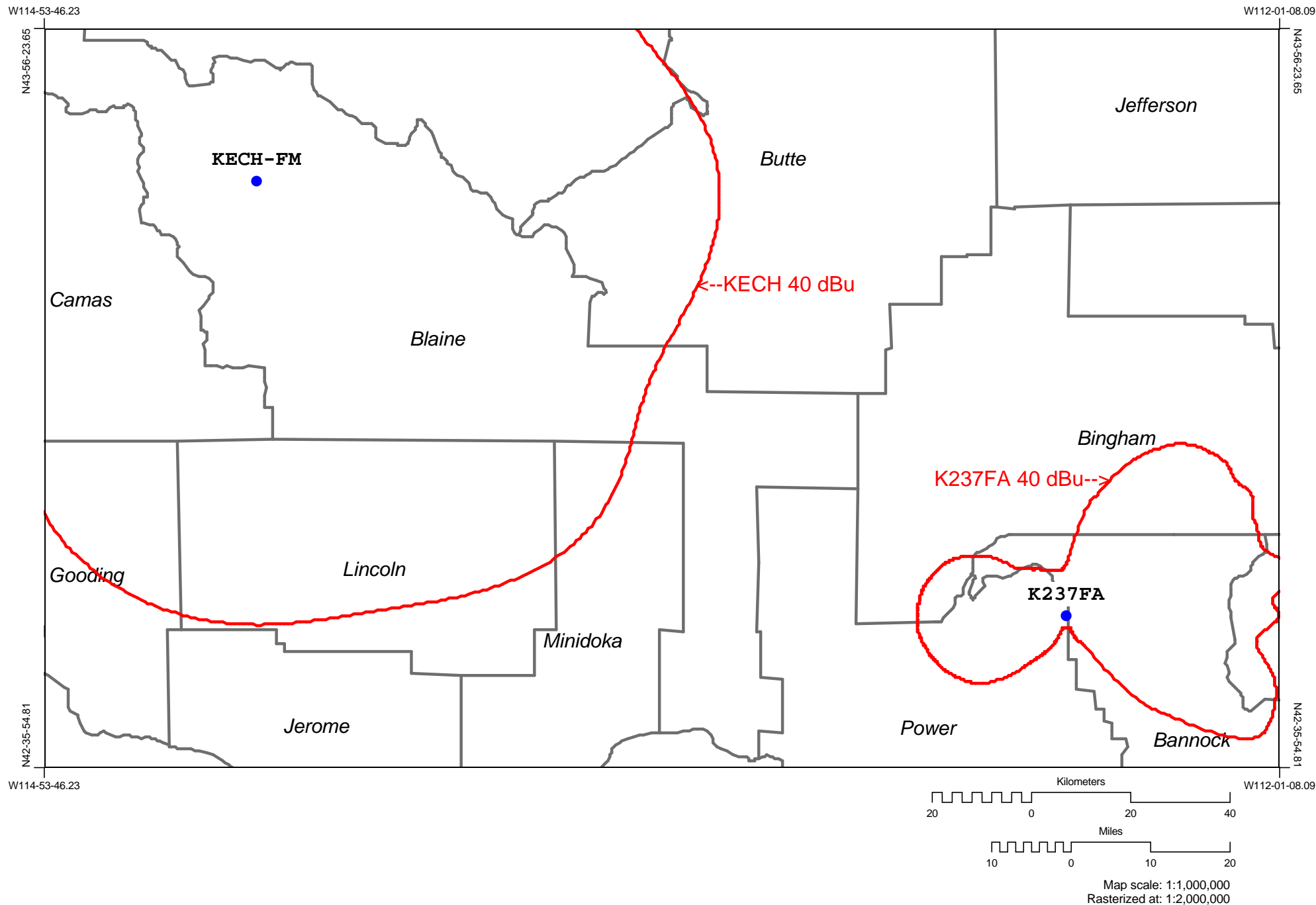
RX Latitude: N42-49-08.00

RX Longitude: W112-22-10.00

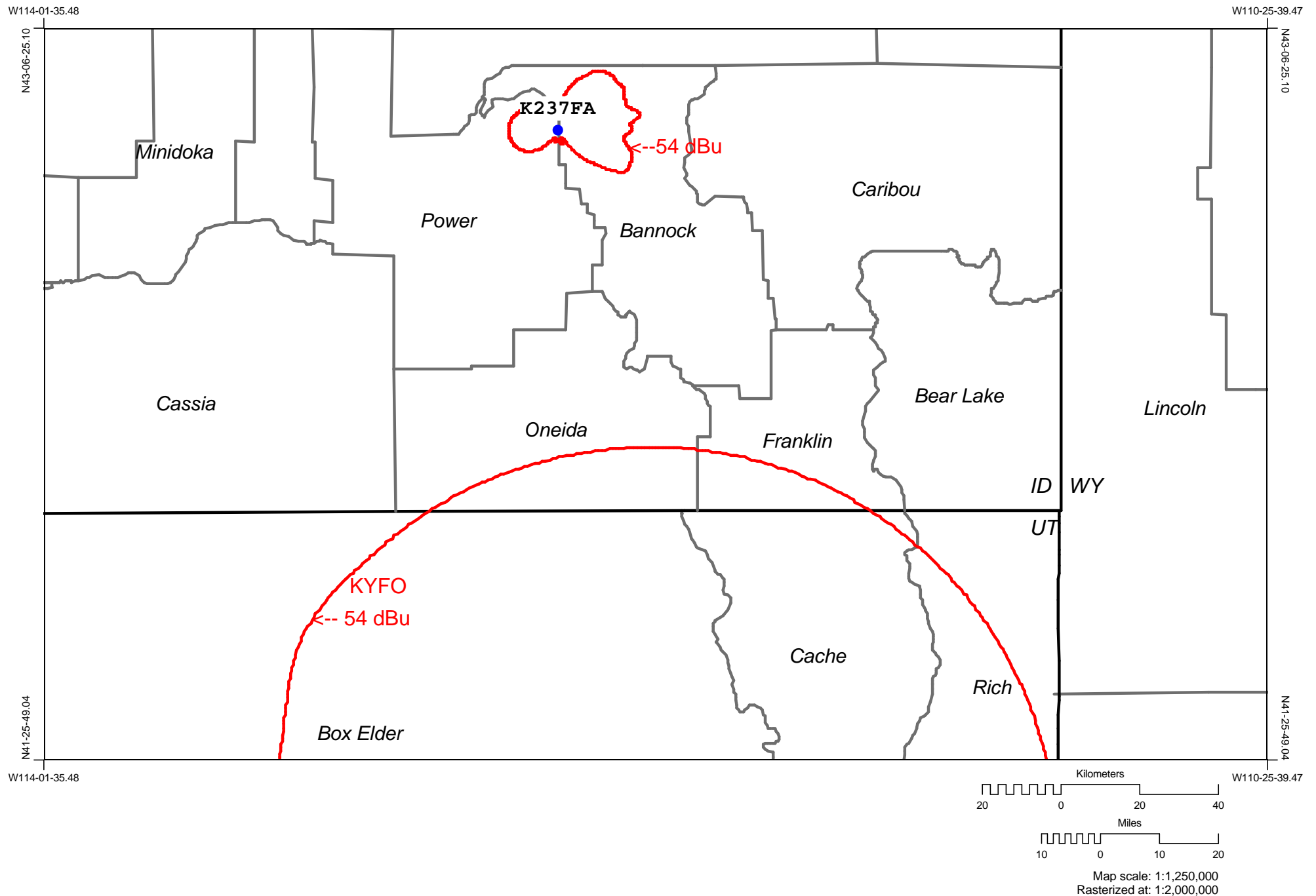
NAD '83 coordinates +/- 02"



No Interference with KECH-FM

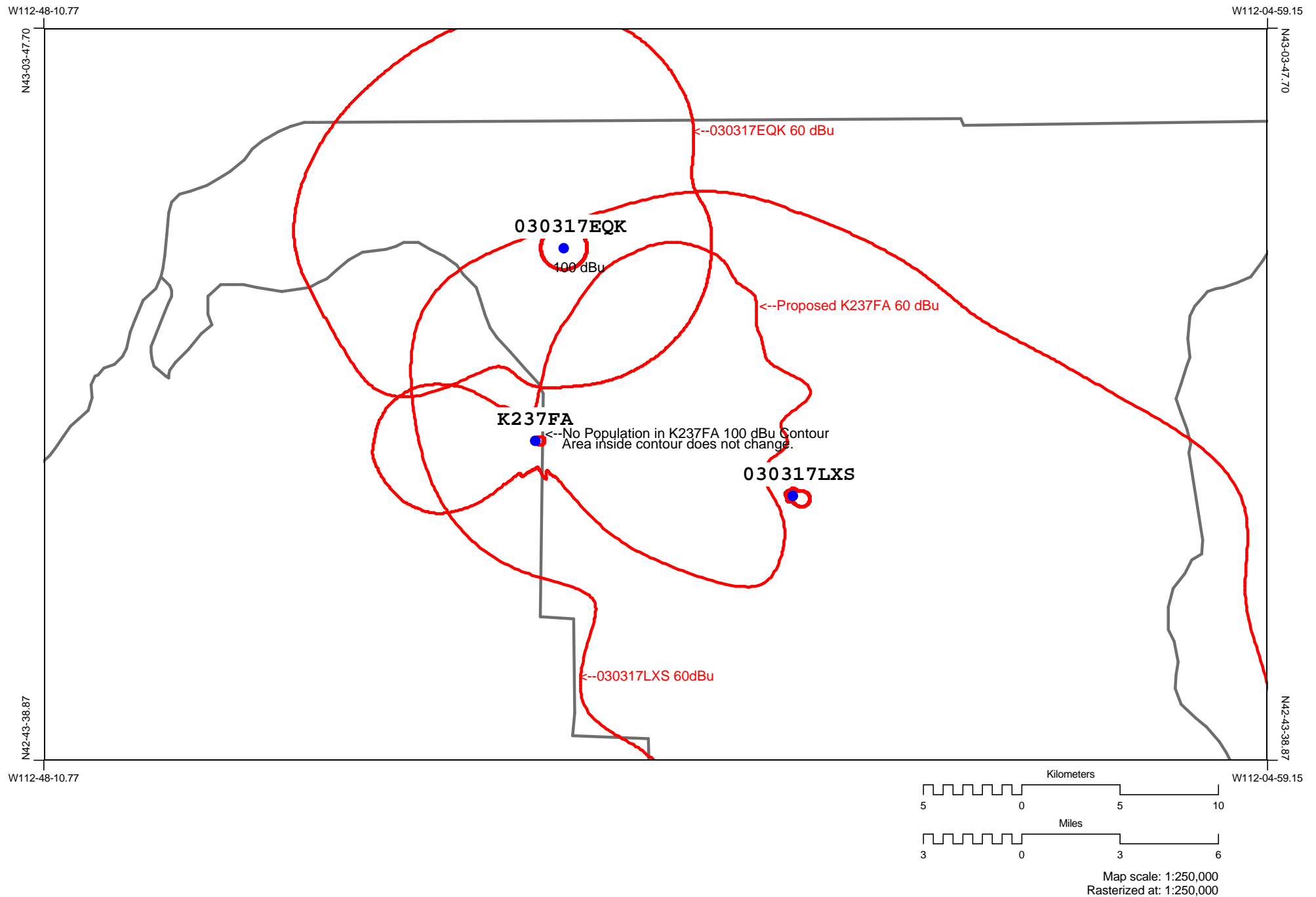


No interference with 1st Adjacent Channel Station KYFO-FM

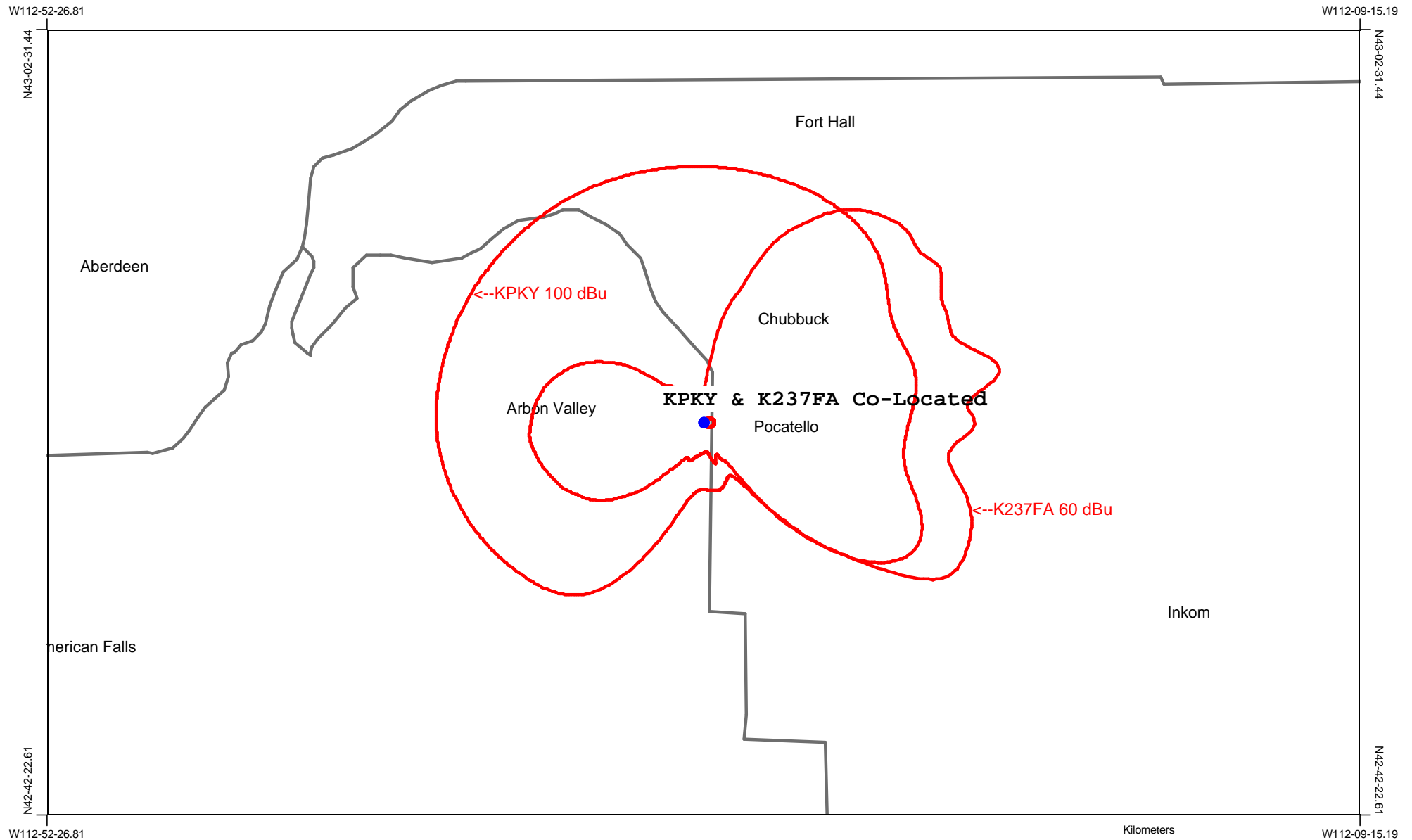


Second and Third Adjacent Channel Translators

60 dBu and 100 dBu Contours

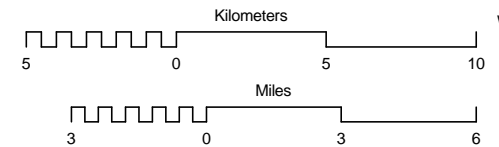


Interference between KPKA and K237FA



No population within K237FA 100 dBu Contour.
Area within K237FA 100 dBu Contour will remain unchanged.

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Map scale: 1:250,000
Rasterized at: 1:250,000