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B. W. St. Clair

ENGINEERING STATEMENT IN SUPPORT OF TV TRANSLATOR
APPLICATION BNPTTV-20000828BDR, PARK CITY, UT

Discussion

The August 2000 filing window was restricted to applications designed to provide service to rural areas which did not receive direct coverage from primary TV stations. The subject Application serves two rural communities in a valley well isolated from the Salt Lake City primary stations.

The area to be served by Application BNPTTV-20000828BDR is separated from the Salt Lake City area by the Wasatch Range. The isolation is demonstrated by two plots.

The first plot shows that the predicted coverage associated with the proposed translator is confined to a rural valley well outside the Salt Lake City area. The area with a minimum signal of 64 dBμ , equivalent to the full service Grade B value is shown. This area is greater than the 74 dBμ protected contour value but more accurately illustrates the actual useful coverage.

The second plot shows the predicted coverage of KUED , a typical Salt Lake City primary station. The signal of this and other Salt Lake City stations may be found east of the Wasatch Range only on high ground. They are not available in the valleys where the population is found.

Conclusion

The proposed translator will serve an isolated rural area, and will not provide any signal in the Salt Lake City area. It is entirely within the provisions of the filing window rule that allows applications designed to serve such rural areas.

Request

A waiver of the 121 km restriction is requested based on terrain shielding.

Basis for Engineering Statement

This statement is based on the engineering parameters in the application and other CDBS records. The coverages were determined using the Longley-Rice Terrain Dependent Propagation Algorithm in accordance with OET Bulletin 69. The results are true and correct to the best of my knowledge and belief.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "B. W. St. Clair". The signature is fluid and cursive, with a small dot at the end.

B. W. St. Clair
Engineering Consultant

September 01, 2007

Park City, UT

BNPTT20000828BDR

Latitude: 40-40-59 N

Longitude: 111-31-22 W

ERP: 0.28 kW

Channel: 29N

Frequency: 563.0 MHz

AMSL Height: 2323.81 m

Elevation: 2304.0 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.0

Prop Model: Longley/Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0

Receiver Ht AG: 10.0 m

Receiver Gain: 0 dB

Time Variability: 50.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

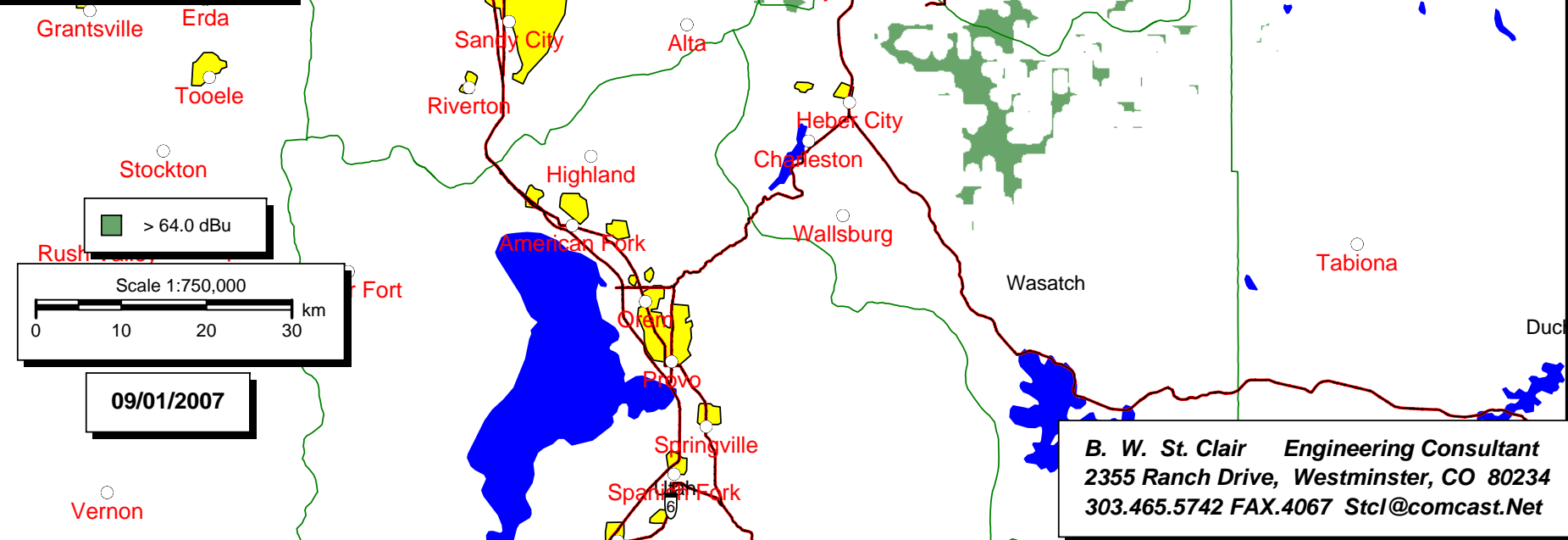
Application BNPTTL-20000828BDR

Channel 29, Park City, UT

Longley-Rice Terrain Dependent Coverage

Calculated in Accordance with OET Bulletin 69

Plot of Equivalent Grade B signal strength



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ITM Mode: Broadcast

KUED, Channel 07, Salt Lake City
Longley-Rice Terrain Dependent Coverage
Calculated in Accordance with OET Bulletin 69
PLOT OF AREAS RECEIVING AT
LEAST A GRADE B SIGNAL LEVEL

