

TECHNICAL EXHIBIT

APPLICATION FOR
CONSTRUCTION PERMIT
FOR RESERVED BAND TRANSLATOR
K220AY

HEBER CITY, UTAH
CH 220 250 WATTS -305 M

JULY 20, 2012

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SALT LAKE CITY, UT

Technical Narrative

This engineering report has been prepared on behalf of Community Wireless of Park City, Inc., in support of an application for reserved band translator K220AY.

It is believed that this proposal conforms to all applicable rules and regulations of the FCC.

Proposed Station Data

Frequency: 91.9 MHz.

Channel: 220

ERP: 250 watts

Proposed Antenna Location

The geographic coordinates (NAD 27) of the proposed site are as follows:

North Latitude: 40-30-21.7

West Longitude: 111-24-51.5

Figure 1 shows the proposed station on a USGS quadrangle map, indicating the altitude above mean sea level to be 5595 feet or 1706 meters at the proposed coordinates.

Figure 2 shows the predicted F(50,50) 60 dBu contour of the proposed STA station in relationship to the currently licensed K220AY.

Transmitting Antenna

ANTENNA: Scala FMV, vertically polarized folded dipole.

Interference

Table 1 shows the pertinent first, second, third adjacent, and IF channel stations spaced with proposed Station. Figure 3 shows the pertinent contours of the proposed station and KOHS.

Environmental Considerations

The station will operate with an effective radiated power of 250 watts from a non-directional, vertically polarized antenna.

Figure 4 shows the predicted power density versus distance emitted by the proposed facility. This figure is based on the parameters of the proposed station, using the FCC FM Model computer program.

The proposed maximum power density at the base of the tower is calculated to be 0.090 mW/cm², which is 45 percent of the recommended limit of 0.2 mW/cm² for general population/uncontrolled exposure areas.

Access to the transmitting site is restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radio-frequency radiation will not exceed the FCC guidelines.

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Clr
KOHS	UT	OREM	91.7	219	1750	A	LIC	-8.67 dB
KUFR	UT	SALT LAKE CITY	91.7	219	220	A	LIC	25.52 dB
KTCE	UT	PAYSON	92.1	221	125	A	LIC	-0.14 dB
KUUU	UT	SOUTH JORDAN	92.5	223	500	C2	LIC	4.36 dB
KSL-FM	UT	MIDVALE	102.7	274	25000	C	LIC	33.4
KUUU	UT	TOOELE	92.1	221	35	C3	LIC	10.93 dB
KUUU	UT	SOUTH JORDAN	92.5	223	400	C2	LIC	5.43 dB
KAWA	UT	SPANISH FORK	91.3	217	2000	C2	CP	10.05 dB
NEW	UT	MOUNT PLEASANT	92.5	223	250	D	APP	39.58 dB
KEYP	UT	PRICE	91.9	220	100	A	LIC	13.21 dB
KEYV	UT	VERNAL	91.7	219	910	C3	LIC	31.05 dB
KUSU-FM	UT	LOGAN	91.5	218	90000	C	LIC	27.64 dB
KFRZ	WY	GREEN RIVER	92.1	221	90000	C	LIC	31.48 dB

TABLE 1: Pertinent first, second, third adjacent, and IF channel stations spaced with proposed Station.

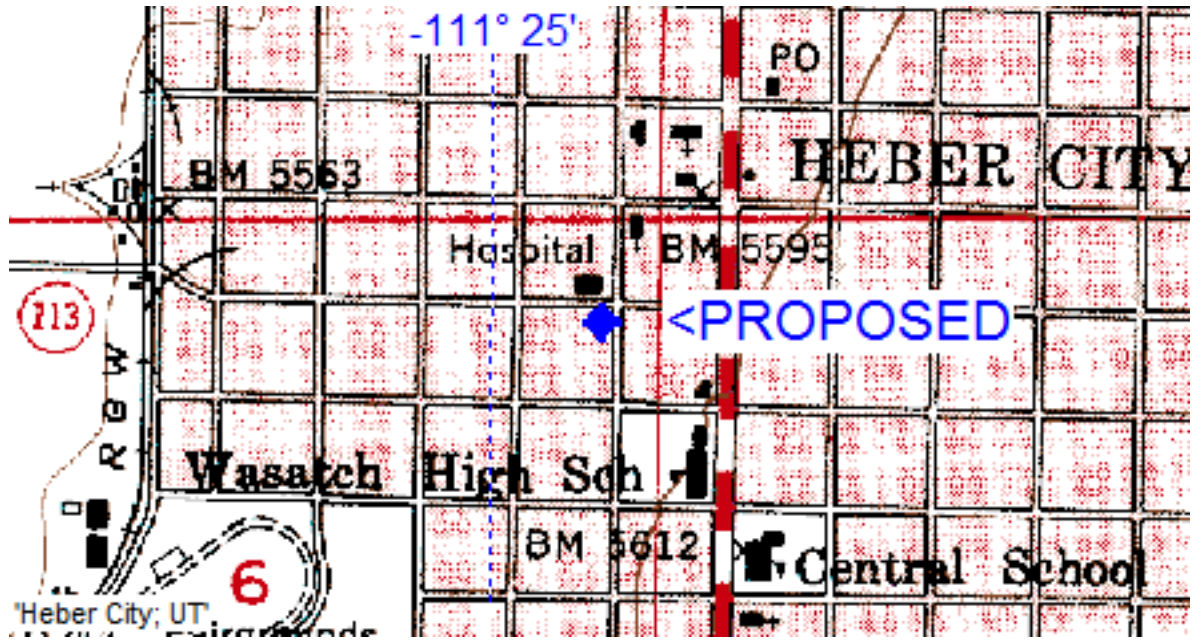


FIGURE 1: USGS map of the proposed translator location.

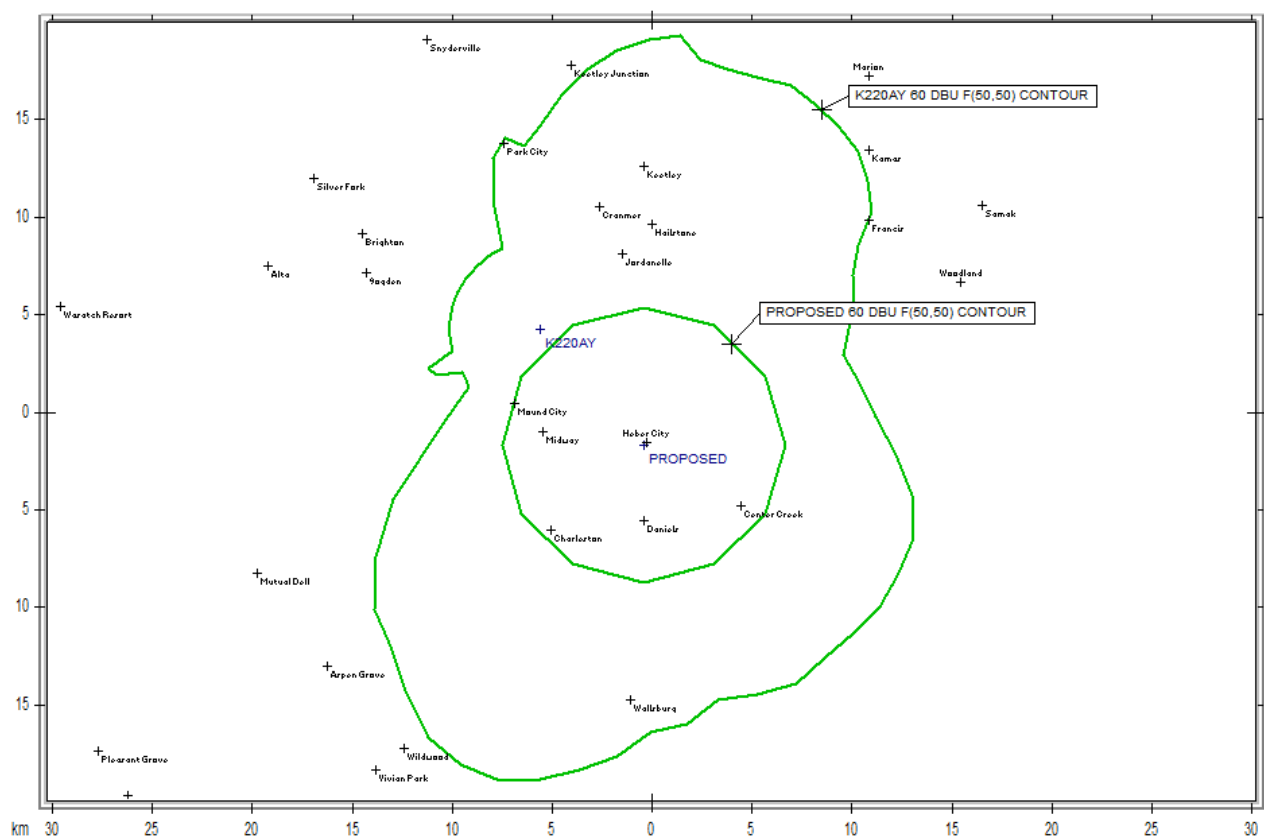


FIGURE 2: Proposed translator F(50,50) 60 dBu contour compared to K220AY F(50,50) 60 dBu contour.

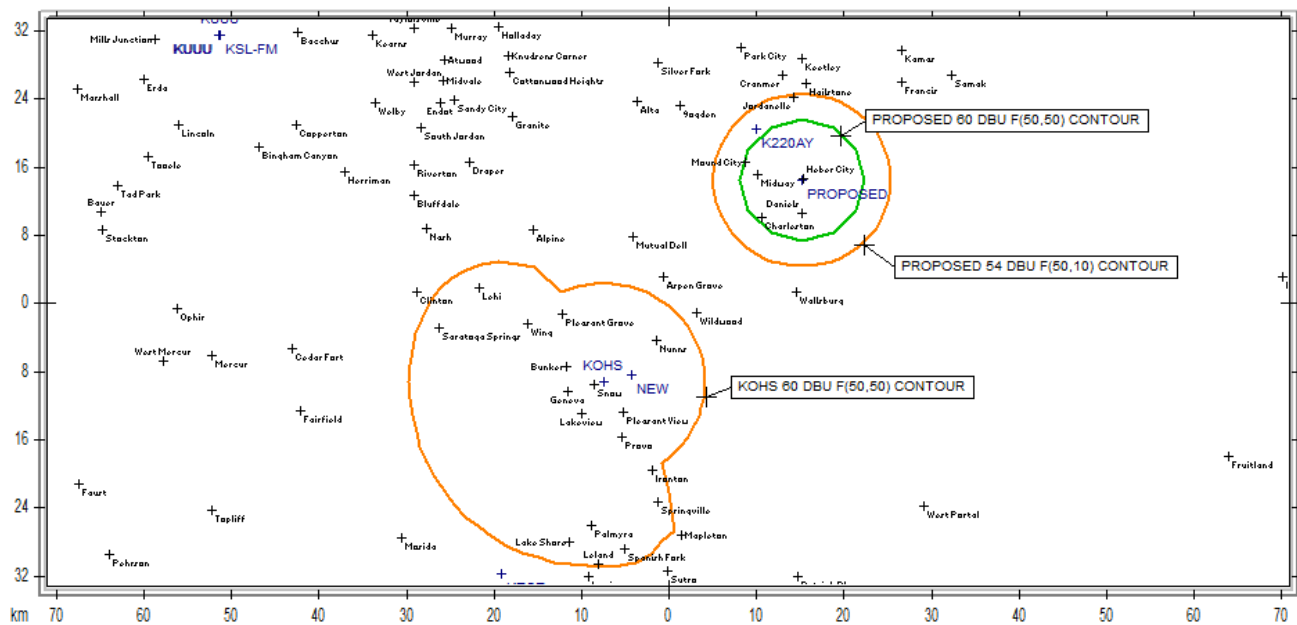


FIGURE 3: Proposed translator F(50,50) 54 dBu contour compared to KOHS F(50,10) 60 dBu contour.

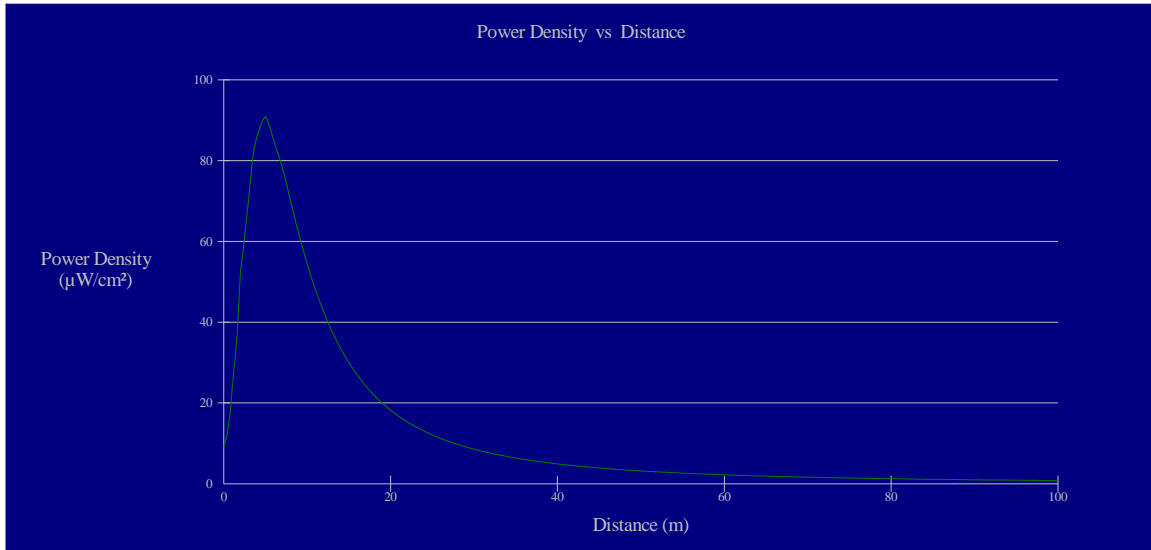


FIGURE 4: Power density of the proposed translator vs. distance.

In accordance with the laws of the State of Utah, this application is affixed with the seal of Mario Hieb, P.E.

