

TECHNICAL EXHIBIT

APPLICATION FOR CONSTRUCTION PERMIT
FOR RESERVED CHANNEL
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

SALT LAKE CITY, UTAH
CH 202A 2,000 WATTS -163 M

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Technical Narrative

This engineering report has been prepared on behalf of Community Wireless of Park City at Park City, UT, in support of an application for a construction permit for relocation of an existing non-commercial educational class station.

This application is an amendment to the application to change the transmitter site of KCPW-FM, filed September 7, 2007, an application that was dismissed by the Commission.

This application modifies the aforementioned application by reducing the effective radiated power from 3000 watts to 2000 watts.

The proposal would not be subject to environmental processing in accordance with Section 1.1306. It is believed that this proposal conforms to all applicable rules and regulations of the FCC.

Proposed Station Data

Frequency: 88.3 MHz.

Channel: 202

ERP: 2,000 watts

Class: A

Proposed Antenna Location

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

North Latitude: 40-44-17

West Longitude: 105-57-17

Transmitting Antenna

ANTENNA: Shively 6812, 2-bay, 0.5 wavelength spacing, configured for a directional pattern.

ORIENTATION: 194 degrees. See Figure 1.

Main Studio

The main studio will be located at 210 East 400 South, Suite 10, Salt Lake City, Utah.

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Community Coverage

This application complies with 47 CFR § 73.515 in that the proposed station will cover at least 50% of the principal community with a 60 dBu signal or better, as indicated in Figure 2.

Contour Overlap

This application complies with 47 CFR § 73.509 in that proposed station does not overlap the pertinent contours of any first, second, third adjacent channel stations, as shown in Table 1 and Figure 3 and Figure 4. The contours were calculated and drawn by RadioSoft ComStudy 2 software.

Spacing Requirements

This application complies with 47 CFR § 73.207 in that proposed station is properly spaced with any pertinent first, second, third adjacent and IF channels, as shown in Table 1.

TV Channel 6 Protection

The proposed station complies with 47 CFR § 73.525 in that there are no channel 6 TV stations within 174 km.

International Borders

The proposed antenna location is 918 kilometers of the common border between the United States and Canada, and is in compliance with international agreements.

Environmental Considerations

The station will operate with an effective radiated power of 2 kilowatts into a Shively 6812, 2-bay, 0.5 wavelength spaced antenna. The non-ionizing RFR analysis was conducted utilizing the FCC FM Model software program. Results of this analysis are shown in Figure 5.

The worst-case, predicted power density for the proposed station at two meters above ground level is estimated to be $78.3 \mu\text{W}/\text{cm}^2$, which will occur at a horizontal distance of 22 meters from the base of the tower.

Since the permitted power density for general-population/uncontrolled exposure (GPE) in the FM band is $200 \mu\text{W}/\text{cm}^2$, the predicted power density of the proposed site is 38.2% of the GPE.

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	Distance_km
KPGR	UT	PLEASANT GROVE	88.1	201	115	A	LIC	42.25
KWCR-FM	UT	OGDEN	88.1	201	2000	A	LIC	51.22
KNKL	UT	NORTH OGDEN	88.7	204	73000	C1	LIC	101.66

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