

THIS APPLICATION COMPLIES WITH ALL REGULATIONS REGARDING NON-IONIZING RADIO FREQUENCY RADIATION AT THE QUARRY MOUNTAIN TRANSMISSION SITE.

THE SHIVELY 6813-2 DIRECTIONAL ANTENNA WILL CONSIST OF TWO-BAYS, SPACED AT  $\frac{1}{2}$  WAVELENGTH, AT A CENTER OF RADIATION 16 METERS ABOVE GROUND LEVEL.

FIGURE 1 SHOWS THE PREDICTED POWER DENSITY VERSUS DISTANCE EMITTED BY THE PROPOSED FACILITY. THIS FIGURE IS BASED ON THE STATION PARAMETERS OF PROPOSED KPCW-FM, USING THE FCC FM MODEL COMPUTER PROGRAM.

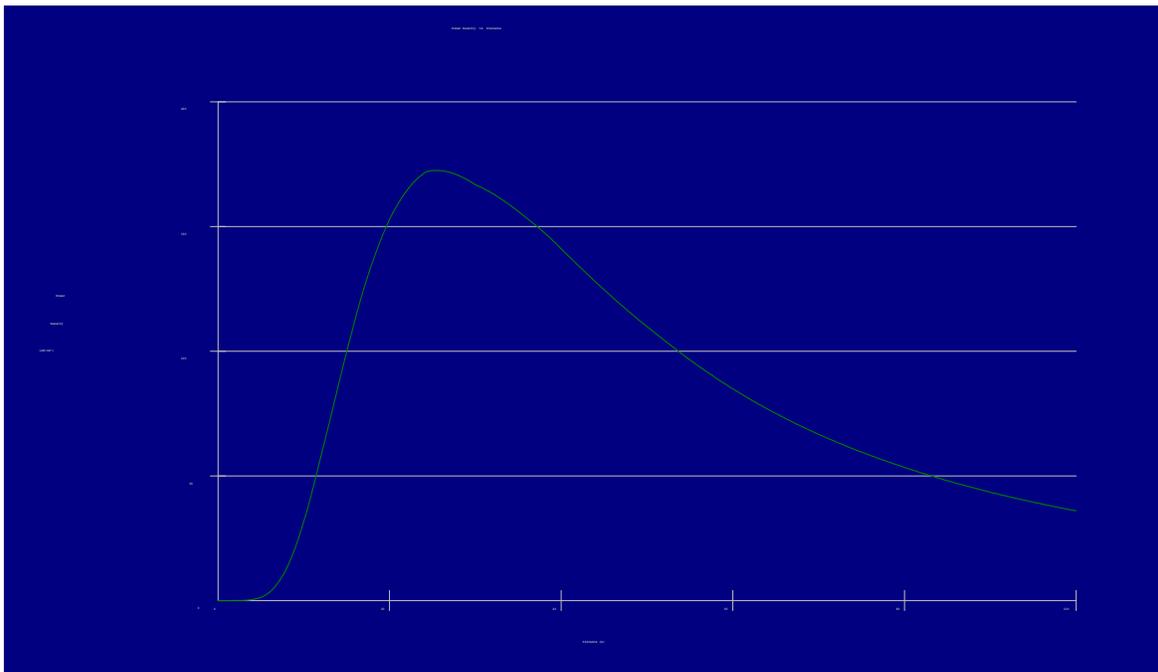


FIGURE 1: POWER DENSITY VS. DISTANCE FOR PROPOSED KPCW-FM

THE PROPOSED POWER DENSITY AT THE BASE OF THE STRUCTURE IS CALCULATED TO BE 0.1725 MW/CM<sup>2</sup>, WHICH IS 86 PERCENT OF THE RECOMMENDED LIMIT OF 0.2 MW/CM<sup>2</sup> FOR ALL FM CHANNELS APPLICABLE TO GENERAL POPULATION/UNCONTROLLED EXPOSURE AREAS.

IN ADDITION, THERE ARE SEVERAL FM TRANSLATORS CO-LOCATED AT THE SITE OF THE PROPOSED STATION, AS SHOWN IN TABLE 1.

CALL	GL	RC-ASL	RC-AGL	ERP	ERP (H+V) KW
K208AG	2262	2279	17	0.009	0.009
K224BR	2262	2266	4	0.016	0.016
K237AL	2262	2276	14	0.016	0.016
K297AT	2262	2273	11	0.011	0.011
K265BX	2262	2273	11	0.019	0.019
K252EH	2262	2270	8	0.034	0.01

0.081

TABLE 1: OTHER FM STATIONS COLOCATED WITH THE PROPOSED KPCW

THE DATA FOR TABLE 1 IS DERIVED FROM THE FCC DATABASE, AS FOUND IN RADIOSOFT COMSTUDY. THE TOTAL POWER OF THE TRANSLATORS IS LESS THAN 100 WATTS, THE MINIMUM REQUIRED FOR ENVIRONMENTAL PROCESSING AS STATED IN 47 C.F.R. 1.1307 (B)(4)(1).

TABLE 2 SHOWS THE PARAMETERS OF KSFI-FM1, A PROPOSED FM BOOSTER STATION. PRESENTLY, THE QUARRY MOUNTAIN SITE DOES NOT ALLOW FM BOOSTER STATIONS AT THIS POWER LEVEL.

CALL	GL	RC-ASL	RC-AGL	ERP	ERP (H+V) KW
KSFI-FM1	2262	2273	11	0.5	1

TABLE 2: PARAMETERS OF KSFI-FM1

DUE TO THE NOMINAL COMBINED POWER OF THE TRANSLATOR STATIONS, THE HEIGHT AT WHICH THE PROPOSED STATION WILL OPERATE, AND THE FENCE, WHICH COMPLETELY SURROUNDS THE TRANSMITTER AND TOWER COMPOUND, THE QUARRY MOUNTAIN SITE WILL BE IN COMPLIANCE WITH THE FCC MPE LIMIT FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE.

ACCESS TO THE TRANSMITTING SITE IS RESTRICTED AND APPROPRIATELY MARKED WITH WARNING SIGNS. IN THE EVENT THAT WORKERS OR OTHER AUTHORIZED PERSONNEL ENTER RESTRICTED AREAS OR CLIMB THE TOWER, APPROPRIATE MEASURES WILL BE TAKEN TO ASSURE WORKER SAFETY WITH RESPECT TO RADIO FREQUENCY RADIATION EXPOSURE. SUCH MEASURES INCLUDE REDUCING THE AVERAGE EXPOSURE BY SPREADING OUT THE WORK

OVER A LONGER PERIOD OF TIME, WEARING "ACCEPTED" RFR PROTECTIVE CLOTHING AND/OR RFR EXPOSURE MONITORS.