

COMPREHENSIVE ENGINEERING EXHIBIT  
CAPSTAR TX LIMITED PARTNERSHIP  
ROCKY FORD, CO  
KJQY (FM)  
23 JANUARY 2004

By this minor change application Capstar TX Limited Partnership (Capstar) proposes a new antenna location for station KJQY (FM) Rocky Ford Colorado.

**Location and Structure**

This location will be upon a new tower for which Capstar is awaiting the F.A.A air study to become final, at which time Capstar will file for Antenna Structure Registration, the number of which will be supplied to the Commission.

The proposed location is: 37-54-08.3N 104-15-59.7W (NAD27) with a radiation center height above ground level of 227 meters at 100 kW.

**Interference**

The proposed location is fully spaced utilizing 73.207. A spacing study is attached as *Table 1* below.

**Community Coverage**

As depicted in the maps of *Figure 1 and 2* attached below, this application is in substantial compliance with 73.315 with more than 90% of the community of license being within the proposed 70 dBu contour using the standard 73.313 methodology.

**Radio Frequency Radiation Study and Statement**

The proposed facilities were evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation."

The proposed antenna system will consist of an ERI roto-tiller style antenna, EPA Type 3, of at least 10 sections, mounted with its center of radiation 227 meters above ground level and will operate with an effective radiated power of 100 kilowatts in both the horizontal and vertical planes. At two meters, the height of an average person, at the base of the tower, this proposal will contribute 3.89 microwatts per square centimeter, or 0.39 percent of the allowable ANSI limit for controlled exposure, and 1.94 percent of the allowable limit for uncontrolled exposure.

It is therefore believed that regardless of the contribution of other users of the tower, this proposal is in compliance with OST Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will post warning signs in the vicinity of the tower, warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce power of the facility, switch to an Auxiliary antenna, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Principal Community Contour

Community of License Civil Boundary

Rocky Ford

KJQY-mod

KJQY Proposed 70 dBu F50:50

km

Figure 2

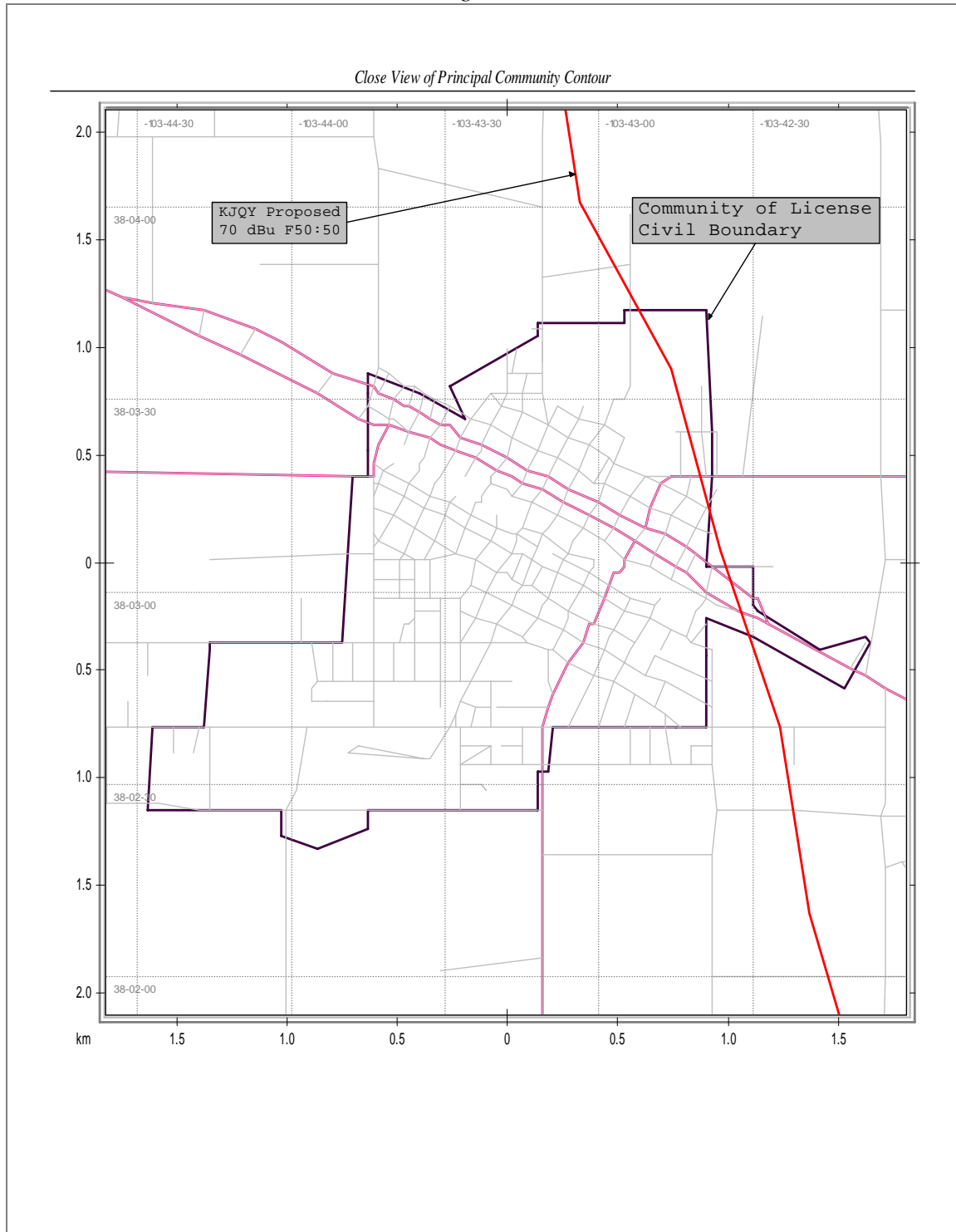


Table 1

Spacing Study

ComStudy 2.2 search of channel 238 (95.5 MHz Class C1) at 37-54-08.0 N, 104-16-00.0 W.									
Call sign	State	City	Chnl	ERP_w	Class	Status	Dist._km	Sep	Clr
KJQY	CO	ROCKY FORD	238	0	C1	USE	50.21	245	-194.8
KJQY	CO	ROCKY FORD	238	51000	C1	LIC	60.95	245	-184
KRDO-FM	CO	COLORADO SPRINGS	236	56000	C	LIC	107.08	105	2.1
KRDO-FM*	CO	COLORADO SPRINGS	236	0	C	USE	107.12	105	2.1
KFMD	CO	DENVER	239	100000	C	LIC	219.99	209	11
KFMD	CO	DENVER	239	100000	C	APP	219.99	209	11
KFMD	CO	DENVER	239	100000	C	APP	219.99	209	11
KFMD	CO	DENVER	239	0	C	USE	219.99	209	11