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Communications

★ Amigo.Net

All Year
P. O. Box 1263, Alamosa, CO 81101
719-589-6100

kens@amigo.net ~ www.amigo.net

Communications: Providing Internet service for Creede & Mineral County.

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★ Blair Street Productions

All Year
224 Starlight Circle, PO Box 848, Creede, CO 81130
719-658-2765 ~ FAX: 888-608-4738

johnc@blairstreet.com ~ www.blairstreet.com

Software Development: Programming services and software development for small businesses.

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★ CenturyTel

All Year
18 So Main, PO Box 466, Creede, CO 81130
800-201-4009 (residential) ~ 800-201-4102 (business)
800-809-1410 (Internet help)
centurytel.com or centurytel.net

Telecommunications/Phones: Serving Mineral County, CenturyTel offers local telephone, Internet access, long distance and high-speed data services to customers in 22 states. Headquartered in Monroe, LA.

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cyber.stop/pan y vino

Seasonal
128 N Main (Pappy's Place), Creede, CO 81130
Communications/Food & Wine Bar

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Computer & Marketing Services

★ Blair Street Productions

All Year
224 Starlight Circle, PO Box 848, Creede, CO 81130
719-658-2765 ~ FAX: 888-608-4738

johnc@blairstreet.com ~ www.blairstreet.com

Software Development: Programming services and software development for small businesses.

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★ Debbie Whitmore Computer & Consulting Service

All Year (9 AM-4PM, M-F)
103 W. Wall St, PO Box 411, Creede, CO 81130
719-658-0888 ~ FAX: (same #)

Business Services: Helping Mineral County businesses to grow through timely bookkeeping, desktop publishing and clerical services, Debbie Whitmore Computer & Consulting has served the community since 1991.

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★ **Gilmer Design**

All Year (M-F, 9 AM-5 PM)
PO Box 609, Creede, CO 81130
719-658-0710 ~ FAX: 719-658-0144
gilmer2@fone.net ~ www.gilmerdesign.net

Design/Marketing/Photography: We provide our clients with a full range of services in Graphic Art and Creative Design, Promotion Print, Advertising, and Photography—since 1977.

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Shawnodese Studio

All Year (by appt)
303 S Loma, PO Box 266, Creede, CO 81130
719-658-2706 ~ FAX: (Same #)
deniseu@vanion.com
Studio/Photography

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★ **Wagnon Webscapes**

All Year (9 AM-5 PM, M-F)
PO Box 495, Creede, CO 81130
719-658-2128
sdwagnon@fone.net

Web Design/Computer Services: Website design, redesign, & maintenance services for businesses/individuals looking for an effective Internet presence. PC training, troubleshooting, software installation, virus protection/removal—since 1981.

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Groceries & Supplies

★ **Beaver Liquors & Spirits**

All Year (11 AM-6 PM, M-Sat)
223 S Main, PO Box 423, Creede, CO 81130
719-658-2532

Retail Liquor: The place to go for good spirits; where all Mountain Men trade their plews.

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★ **Kentucky Belle Market**

All Year (8 AM-6 PM, M-Sat; 10-6, Sun)
Corner of 2nd & Main (across from Bob Ford Mall)
PO Box 819, Creede, CO 81130
719-658-2526 ~ FAX: (same #)
crittercreekoutdoors@yahoo.com ~ www.kentuckybelle.com

Groceries/Sundries: Full service grocery store offering the best in fresh meats & produce. Full selection of groceries & sundries at competitive prices. Come see the new K-Belle.

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Other Grocery/Supply Listings

The following establishments also offer limited groceries and supplies. Please see their individual listings in the Business Directory for more information.

- Freemon's Guest Ranch & General Store
- ★ Goodnight's Lonesome Dove Cabins & RV Park
- ★ Lake City Auto & Sports
- ★ Tomkins Gifts & Gas
- ★ Wolf Creek Ranch Ski Lodge

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Health Care

★ The Chiropractic Office

All Year (9 AM-8 PM, W-F, 9-1 Sat, M by appt.)
101 E Third St, PO Box 123, Creede, CO 81130
719-658-0526 ~ FAX: 719-658-3016
madams@parkercc.edu

Health Services: Dr. Michelle R. Adams, BS, BS, MS, DC, is a chiropractor, certified in Applied Kinesiology, who is dedicated to finding the true underlying cause of disease by focusing on the structural, biochemical and emotional components of health.

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Health Associates

All Year
PO Box 32, Creede, CO 81130
719-658-2036
By appointment.

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★ Indigo Bodyworks

All Year
493 S. Main St, PO Box 684, Creede, CO 81130
719-658-2579
jlhomshe@yahoo.com

Day Spa: Offering massage, facials, manicures, pedicures, and waxing. We also carry homeopathics, natural body products, oils and books. Victorian mansion across from Blessings Inn. Ask about packages.

Turning Aspen Massage

All Year (by appt) ~ Jo Lee
118 S. Main St (Bob Ford Mini-Mall), Creede, CO 81130
719-658-2558
Health Care

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Insurance

★ Deacon's Insurance Agency, Inc.

All Year (8:30 AM-Noon & 1-5, M-F)

729 First Ave., PO Box 272, Monte Vista, CO 81144
719-852-5142 ~ FAX: 719-852-5141
Insurance Agency: :Family owned insurance agency since 1963. We specialize in commercial and personal lines.

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Publishing

★ B&B Printers

All Year (8 AM-5 PM, M-F)
220 Spencer Ave, Gunnison, CO 81230
888-500-PRINT ~ 970-641-2672 ~ FAX: 970-641-4329
print@bbprinters.com ~ www.bbprinters.com
Commercial Printer: B&B Printers, Gunnison, is a quality four color printer established in 1957. B&B has been serving the Western Slope's printing needs for nearly 50 years.

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★ Creede Magazine

All Year (10 AM-5 PM, M-F; 12-5 PM, Sat)
PO Box 840, Creede, CO 81130
719-658-2624 ~ FAX: (Call same #)
creedemag@msn.com
Newspaper/Media: Creede Magazine provides reliable and accurate coverage of local, regional and national news, features, and sports. Special sections offer information on local events. Readers nationwide.

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★ Mineral County Miner

All year (8 AM-5 PM, M-Sat)
San Luis Valley Publishing, 229 Adams, Monte Vista, CO 81144
719-852-3531 ~ FAX: 719-852-3387
valleypubs@amigo.net ~ www.mineralcountyminer.com
Newspaper: *The Mineral County Miner* provides local, hometown news, features, and classifieds weekly. Supplements provide information on special local/SLV events. Call for more information.

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★ O&V Printing

All Year (8 AM-5 PM, M-F)
623 4th St, Alamosa, CO 81101
719-589-9228 ~ FAX: 719-589-0319
oandv@fone.net
Commercial Printer: 4-color process printing; digital pre-press; perfect bound books; design & layout; laminating.
Books•Brochures•Forms•Business Cards•Newsletters.

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Salons

★ Blue Creek Lodge

All Year (7 AM - 8 PM daily, summer; 11 AM – 7 PM, M-Sat, winter)
11682 Hwy 149 at Wagon Wheel Gap, South Fork, CO 81154
719-658-2479 ~ 800-326-6408
www.coloradodirectory.com/bluecreeklodge

Lodging/Restaurant/Beauty Salon: Nestled in the heart of the Rio Grande National Forest, Blue Creek Lodge offers the utmost in fine vacationing. Cabins & rooms with private baths and soft mountain water. RV Park, Gift Shop, & Thressia's Beauty Salon. Enjoy our restaurant's delicious home cooked food. All this for the best vacation ever.

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Jane's Beauty Quest
All Year (by appointment)

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Storage

★ Bear Paw Self-Storage

All Year

P.O. Box 588, Creede, CO 81130

719-658-3029 ~ freedle815@aol.com

Storage Rentals: 52 units in three sizes: [5' x 10'] [10' x 10'] and [10' x 15].

Instructions at rental sites.

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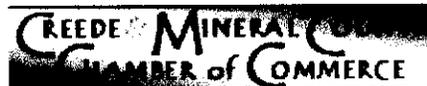
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From Ute Hunting Ground...

To Silver Mining Boom Town

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Sketch of Creede's old barns by Michael Capozzola

Original Inhabitants

A variety of Native American peoples frequented the Upper Rio Grande Valley long before western Europeans knew of its existence. Archeological evidence reveals that Paleo-hunters camped in the high country. A later hunting-gathering group, known today as the Utes, also migrated through the San Juan Mountains according to the seasons—pushing into the high country in the summer and returning to lower, protected valleys in the winter. However, the cold mountain winters were not favorable to permanent native settlements.

Native people gave special significance to the formations in the Wheeler Geologic Area. The hot springs at Wagon Wheel Gap also were a favored site. In the mid-1800s an influx of settlers, including New Mexicans from the south and Homesteaders from the East, curtailed the Utes' nomadic life. After the discovery of gold in the San Juan Mountains, troops at Fort Garland moved the San Luis Valley's Ute people off their traditional lands onto reservations in the Four Corners region. Ouray, who had married an Uncompahgre maiden, Chipeta, became influential in helping guide the southern Ute bands through their 19th century transitions.

Pioneers and Tourists

Ranching and tourism are well-established



traditions in the Upper Rio Grande Valley.

Kit Carson's brother-in-law, Tom Boggs, and several other settlers began farming at Wagon Wheel Gap as early as 1840. M.V.B. Wason homesteaded the Wason Ranch in 1871. Hay became a major commodity for the mining camps at Summitville and Lake City. Prospectors and other travelers, lured by the wealth of the San Juan's mineral fields, coursed toll roads linking Lake City with supply towns in the San Luis Valley. Barlow and Sanderson stages made several runs daily.

By the mid-1870s, tourist activities also began to thrive along the Rio Grande. Books such as Crofutt's *Gripsack Guide* or Ingersoll's *Crest of the Continent* enticed Easterners and Europeans to experience the American West. The pioneering name of Soward became associated with the Upper Rio Grande Valley in 1876 with the purchase of the Antelope Springs Stage Station and Halfway House. James Workman bought the Texas Club, now the location of Freemon's Ranch, at the stage-stop settlement of San Juan. Nearly 15 years before there was a town called Creede, a hotel opened at Wagon Wheel Gap.

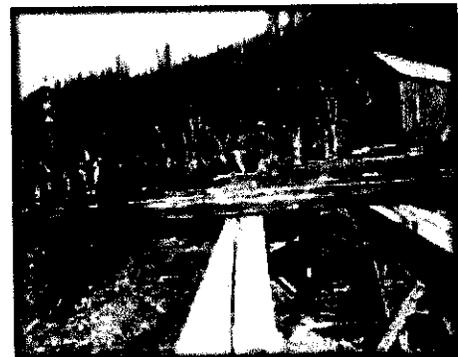


The Denver & Rio Grande Railroad began transporting eager tourists into the area as early as 1883 with the opening of the depot at Wagon Wheel Gap. Fishermen would ride the train to a favorite "hole," disembark to fish for the day, and then catch a ride on a returning train. The Utes' favored hot springs soon became a popular spa with tourists coming in droves to "take the waters." Praise for the curative and restorative benefits, both by drinking from the bubbling hot springs as well as bathing in the soothing flow, spread

through publications promoted by the railroad. A lavish bathhouse sheltered guests as they luxuriated in the therapeutic springs. The historic bathhouse still stands at the 4UR Ranch as a poignant reminder of those early tourism heydays.

Fortunes Made and Lost

In 1890, the Upper Rio Grande Valley's destiny changed dramatically. Nicholas Creede discovered a high-grade silver vein on Willow Creek, a tributary of the Rio Grande. The great rush was on! The boom camp's population quickly swelled to 10,000. (There are about 850 full-time residents in Mineral County today). Slab cities and tent towns like North Creede, East Creede, String Town, Jimtown, and Amethyst seemed to appear overnight. Fortunes were extracted from mines with colorful names such as Amethyst, Holy Moses, Commodore, Last Chance, and Kentucky Belle.



To reach the ore field and camps, the hordes of miners and camp tag-alongs had to cross Wason's ranch. The crafty homesteader opened a toll road, but the hefty fee caused disgruntled travelers to proclaim that Wason must have been a pirate on the high seas before settling on the Rio Grande. The uproar brought results with the State of Colorado buying the toll road right-of-way from Wason.

In 1891, Colorado Springs railroad tycoon William Palmer extended the rail line from its terminus from Wagon Wheel Gap into Willow Creek Canyon just above

present day Creede. During the ensuing boom years, two trains arrived and departed Creede daily. By 1892 over a million dollars in silver had shipped down-valley. Creede made Colorado a "boom" state once more.



Along with the prospectors and miners came gamblers, saloonkeepers and ladies of the evening. Bob Ford, reputed slayer of Jesse James, opened a dance hall and saloon. Soapy Smith, owner of the Orleans Club, soon declared himself boss of Creede. Bat Masterson, of Dodge City-Wyatt Earp fame, operated another saloon for a Denver firm. Poker Lulu Swain, the Mormon Queen, and Timberline plied their trade in "the House." Although the Creede Candle lamented: "Creede is unfortunate in getting more of the flotsam of the state

than usually falls to the lot of a mining camp," its editor, Cy Warman, also caught the spirit and hopes of the lively community with his famous lines: "It's day all day in the day time, And there is no night in Creede."

Spar City, Stumptown, and Bachelor evolved into thriving communities. Bachelor even boasted a school. Today, Spar City is a private resort. Only nostalgic relics mark the sites of Stumptown, Weaver, and Bachelor (see [Bachelor Historic Tour Loop](#)). A series of floods and fires destroyed the original buildings in East Willow Creek Canyon. Many inhabitants moved to neighboring camps, but for only as long as it took to rebuild. The silver panic of 1893 also threatened to bring an end to Nicholas Creede's bonanza. Fortunately, the high assay of the ores in the Creede District in other valuable minerals carried the miners through the Depression of the 1890s. Creede became the silver camp that would not die.



Eventually Jimtown appropriated the name "Creede." Prospectors and families alike abandoned the other camps and moved to the little town at the mouth of Willow Creek Canyon with its brick stores and electric streetlights. Following the example of Telluride, which was the first electrified community in the world, the Creede miners installed their own electric system just one week before Cy Warman penned his literary legacy about there being no night in Creede.

Hard rock mining continued as the dominant economic factor in Creede for nearly a century. In 1985, when the price of silver dropped again, the last mine, the Homestake, closed permanently. Today Mineral County is returning to its tourism roots. And Creede, the little mining camp that refused to die, shares not only its beautiful natural setting, but also its colorful heritage with thousands of visitors every year.

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Creede's historic Catholic church still stands as sentinel on the mountain in front of the Creede Cemetery overlooking the downtown area.

Unlike the old days, visitors and locals alike can now choose from several churches and houses of worship.



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Church of Christ
Airport Rd.
Creede, CO 81130

Phone: 719-658-2300
E-mail:
Web:

Open: ALL YEAR

Sunday School	10:00 a.m.
Church	11:00 a.m.
Sunday Worship	2:00 p.m.
Wednesday Worship	

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**Church of Jesus Christ of
Latter Day Saints**
100 San Francisco Creek Rd.

Del Norte, CO 81132

Phone: 719-657-2853

E-mail:

Web:

Open: ALL YEAR

Sacrament Meeting	9:30 a.m.
Sunday School	10:35 a.m.
Primary, Relief Society and Priesthood	11:15 a.m.

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Creede Baptist Church

Creede, CO 81130

Phone: 719-658-2312

E-mail:

Web:

Open: ALL YEAR

Sunday School	9:30 a.m.
Fellowship	10:30 a.m.
Worship	11:00 a.m.
Sunday Evening Worship	6:00 p.m.
Wednesday Evening Worship and Bible Study	6:00 p.m.

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Creede Community Church

Creede, CO 81130

Phone: 719-658-2209

E-mail:

Web:

Open: ALL YEAR

Sunday School	10:00 a.m.
Sunday Worship	11:00 a.m.

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Creede Lutheran Church

Creede, CO 81130

Phone:

E-mail:

Web:

Open: Summer only (Meets at Episcopal Church)

Saturday (June-mid September	9:00 a.m.
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Immaculate Conception Catholic Mission
Creede, CO 81130

Phone: 719-657-3147 (Holy Mary, Del Norte)

E-mail:

Web:

Open: ALL YEAR

Mass Sunday (summer)	10:00 a.m.
Mass Saturday (winter)	4:00 p.m.

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St. Augustine Episcopal Church
Creede, CO 81130

Phone:

E-mail:

Web:

Open: ALL YEAR

Sunday (summer)	2:00 p.m.
Alternate Sundays (rest of year)	2:00 p.m.

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EXHIBIT E

Exhibit E

Technical Narrative

Guide to Counterproposal Exhibits

Introduction

This Counterproposal seeks consideration as an alternative to the proposal put forth by Tsunami Communications. The Tsunami proposal seeks to reallocate KTCL from Fort Collins, Colorado to Wheat Ridge, Colorado at a new site.

To accomplish this change, Tsunami proposes a channel substitution at Westcliffe, Colorado, replacing the co-channel 227A there with a new channel 249A at a different site. Tsunami has determined that 249A can be allotted as a replacement for 227A at Westcliffe.

Technical Comments on the Tsunami Proposal

The Proposed New KTCL Site

As can be seen from the attached map exhibit entitled "Proposed KTCL Site Topographic Map Showing Governmental Boundaries" [E1] the proposed site is in an area of Unincorporated Jefferson County, Colorado. The town of Lakewood, Colorado surrounds this unincorporated area. A tower suitable for C-zero operation of KTCL at this location would require, at minimum, a 400 meter (1,300 feet) structure.

In light of the fact that the Jefferson County Zoning Regulations generally preclude structures above 70 feet in height and, in any event, require such taller structures to be some distance from and out of view of residential areas, Tsunami would do well to provide details as to how this will be accomplished and what Tsunami feels is the likelihood of success.

The Proposed New Westcliffe, Colorado Site

The present Westcliffe, Colorado 227A allotment and the proposed replacement allotment reference sites are in the same general area and each would provide the requisite city coverage of Westcliffe and good coverage of adjoining Silver Cliff. It is worth noting, however, that the new proposed reference site for 249A at Westcliffe is at about 100 meters lower elevation (AMSL) than the present allotment. So a future Westcliffe 249A permittee would have to undertake a taller tower than a permittee for the 227A present allotment to achieve similar coverage. The alternative would be to move to a site further from the population center, generally an undesirable outcome when it can be prevented.

KTCL Can Be Allotted to Wheat Ridge At The Current Licensed Site

KTCL presently holds a Class C license and employs facilities that are consistent with C-zero coverage. These facilities are sufficient to provide service to Wheat Ridge without a site change. This can be seen from the map entitled "Hypothetical City Coverage From Existing KTCL Site." [E2]

Further, line of sight exists from the present KTCL facility. A terrain profile is attached, entitled "Link Study: KTCL Licensed Site to Wheat Ridge, Colorado." [E3] While there are some parts of the community that may experience slight shadowing, a Longley-Rice prediction of expected Wheat Ridge coverage shows 100% of the community receives a 70 dBu or greater signal from KTCL right now, without any changes. In fact the minimum signal level is approximately 77 dBu, ranging to a maximum of 87.8 dBu. The Commission has granted such reallocations where slight shadowing is predicted in mountainous areas, particularly where it can be shown that the shadowing is insignificant or that the community is close enough to the allotment site that even slight shadowing still results in adequate coverage. City-wide analysis, dividing the community into two halves for better detail presentation, is shown in the map exhibits "Longley-Rice Signal Levels for..." [E4, E5]

Finally, KTCL is fully spaced at the present licensed site, even if KTCL chooses to upgrade facilities and remain a Class C. The present facility of KTCL is licensed pursuant to 47 CFR 73.215 but the facility that gave rise to the short spacing, 228A at Leadville, CO, has apparently either moved or changed channel. Thus, KTCL can be reallocated to Wheat Ridge as desired by Tsunami without the bother of a change to Westcliffe or any other operating or proposed facility.

Technical Discussion of Counterproposal

Introduction

This counterproposal seeks to allot a new, wide area coverage class C FM station to the community of Creede, CO. The proposal requires channel changes to three vacant allotments and to one issued construction permit which is believed unbuilt. The changes are detailed below.

Creede, Colorado 248C

248C can be allotted in compliance with 47 CFR 73.207 and 47 CFR 73.315 at coordinates 37-55-51 North Latitude 106-56-03 West Longitude. Please refer to the included channel study and map of the hypothetical city coverage from the proposed allotment site. [E6, E7] This site is a geophysical prominence near the Continental Divide. [E8] In addition to providing a first local service to the community of Creede, the new allotment will provide interference free service to 50,177 persons in an area of approximately 27,000 square kilometers.

Of particular interest is an area located partly in Saugache, Rio Grande and Mineral Counties of Colorado. This is an area which receives no aural service whatsoever (so-called "white area") encompassing 1,803 square kilometers. According to the 2000 US Census, this area encompasses 137 persons. This area, along with the US Census Blocks within it, are shown on the map exhibit entitled "US Census Blocks Shown Within the White Area..." [E9, E9A] The associated US Census Blocks are tabulated by FIPS identification numbers in the table entitled "White Area FIPS." [E10] Similarly, some 2,285 persons in an area of 4,716 square kilometers would receive a second aural service (so-called "gray area"). Please refer to exhibits E15 and E16. The contours of services depicted are identified in Exhibit 9B.

The channel study exhibit entitled “NEW Creede, CO” [E6] indicates short spacings to a vacant allotment 247A at Lake City, CO; to a vacant allotment 248A at Poncha Springs, CO; to a proposed channel substitution in RM-10565 of 249A at Westcliffe, CO; and a shortspace to a granted CP for 248C1 at Raton, NM.

Each of these short spacings can be eliminated with simple channel changes.

Lake City, Colorado

The short spacing to the vacant allotment 247A at Lake City Colorado can be eliminated by substituting 257A at the existing reference site for 247A. This substitution can be accomplished in compliance with 47 CFR 73.207. Please refer to the accompanying channel study for 257A Lake City, CO. [E11]

Poncha Springs, Colorado

Similarly, the short spacing at Poncha Springs, Colorado can be eliminated by substituting 277A at the reference site for the present 248A. This substitution can be accomplished in compliance with 47 CFR 73.207, provided KRFX 278C Denver, Colorado is reclassified as C0 at the present site. Please refer to the accompanying channel study for 277A at Poncha Springs, CO. [E12]

KRFX is under an order to “Show Cause” in another proceeding, RM-10630, which seeks this reclassification. This issue is discussed at length elsewhere in this pleading.

Raton and Clayton, New Mexico

Finally, an issued construction permit for 248C1 at Raton, NM [BMPH-20001103ABS] held by Joseph Rateau, if built, would require a change in channel at the construction permit site. This CP site is also the allotment site for 248C1 Raton, NM. 248 has several apparently mutually exclusive proposals under consideration. There is an application on form 301 to downgrade KGOY to 248A [BPH-20011217AAI] and also a petition tendered by Clayton Community Broadcasters, not yet on public notice, seeking to reallocate channel 248 from Raton to Clayton, NM. Any of these plans is compatible with the technical changes proposed herein. Only in the event a C1 is built at Raton as specified in the construction permit will any change be required. Please refer to the included channel study [E13]. 248A at Raton or 248C1 at Clayton are not mutually exclusive with any part of this proposal.

Summary

This counterproposal seeks a technically accurate assessment of the present and proposed facilities of KRFX, consistent with the definitions of classes applied to commercial FM stations. With this assessment will come a reclassification to C-zero. This change in the FM database, which has no effect on the power or coverage of KRFX, and the proposed other channel changes which also impose no changes in power or coverage to any operating or proposed facility, permit the creation of a badly needed wide area service in southwest Colorado.

Best of all, this allotment proposal and the one put forth by Tsunami to serve Wheat Ridge can both be granted. By reallocating KTCL to Wheat Ridge at the present KTCL site, an unnecessary reference site change at Westcliffe, CO can also be avoided.

The community of Creede, CO will gain a first local service.

Finally, a substantial area with no interference-free aural service whatsoever and only one interference free service can be served with the attendant benefits that come from such service.

For these and the other reasons presented herein, this counterproposal should be granted in its entirety.

Affidavit and Qualifications of Technical Consultant

State of Illinois)
Community of Forest Lake) ss:
County of Lake)

Frank G. McCoy, being duly sworn, deposes and says that he is an employee of American Media Services which firm has been engaged to provide technical and other consulting in connection with the preparation of the attached.

He attended Illinois Institute of Technology in Chicago and has been active in broadcast engineering for over 25 years as an employee of and consultant to numerous FCC licensees.

The attached Technical Narrative and the associated exhibits were either prepared by him or under his direction.

I, Frank McCoy, declare under penalty of the laws of perjury that the foregoing is true and correct to the best of my knowledge.

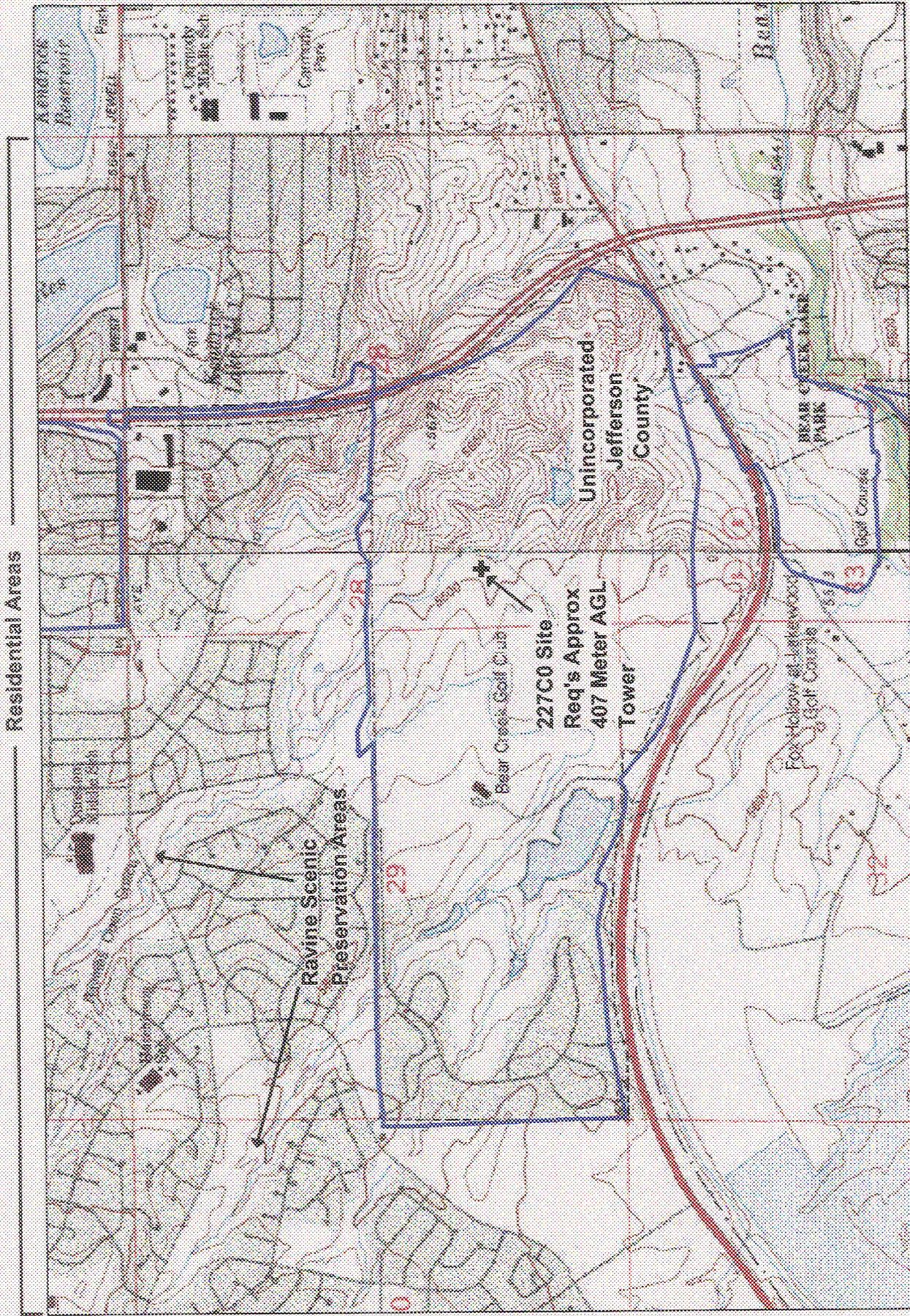
Dated: April 28, 2003



Frank G. McCoy
Affiant

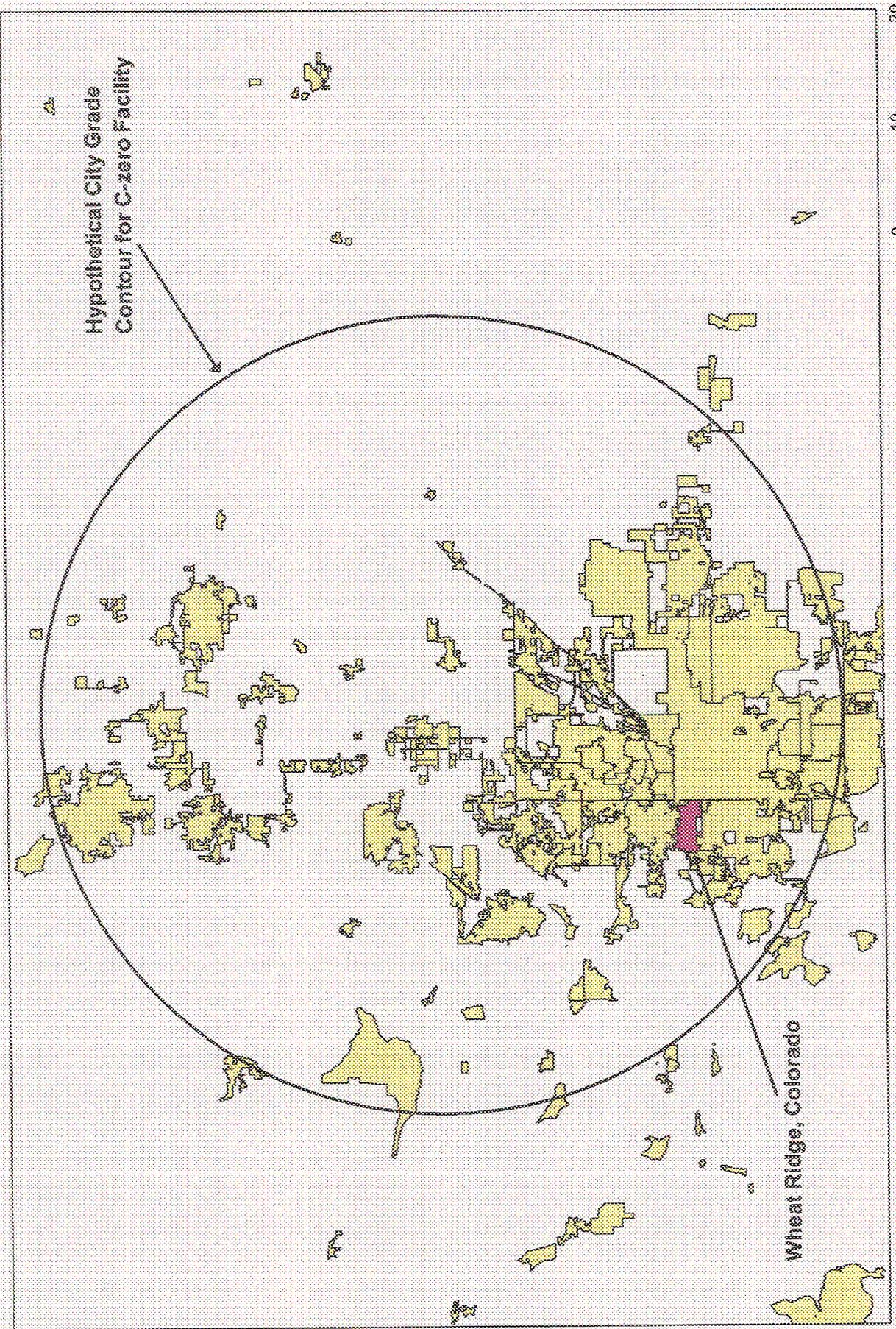


Seal



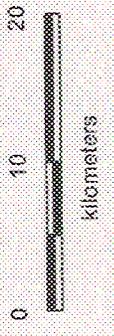
Topographic Map Showing Governmental Boundaries
And Land Use at Proposed KTCL C0 Site
Lakewood, Colorado Surrounds the Proposed Site

Exhibit E2



Hypothetical City Grade Contour for C-zero Facility

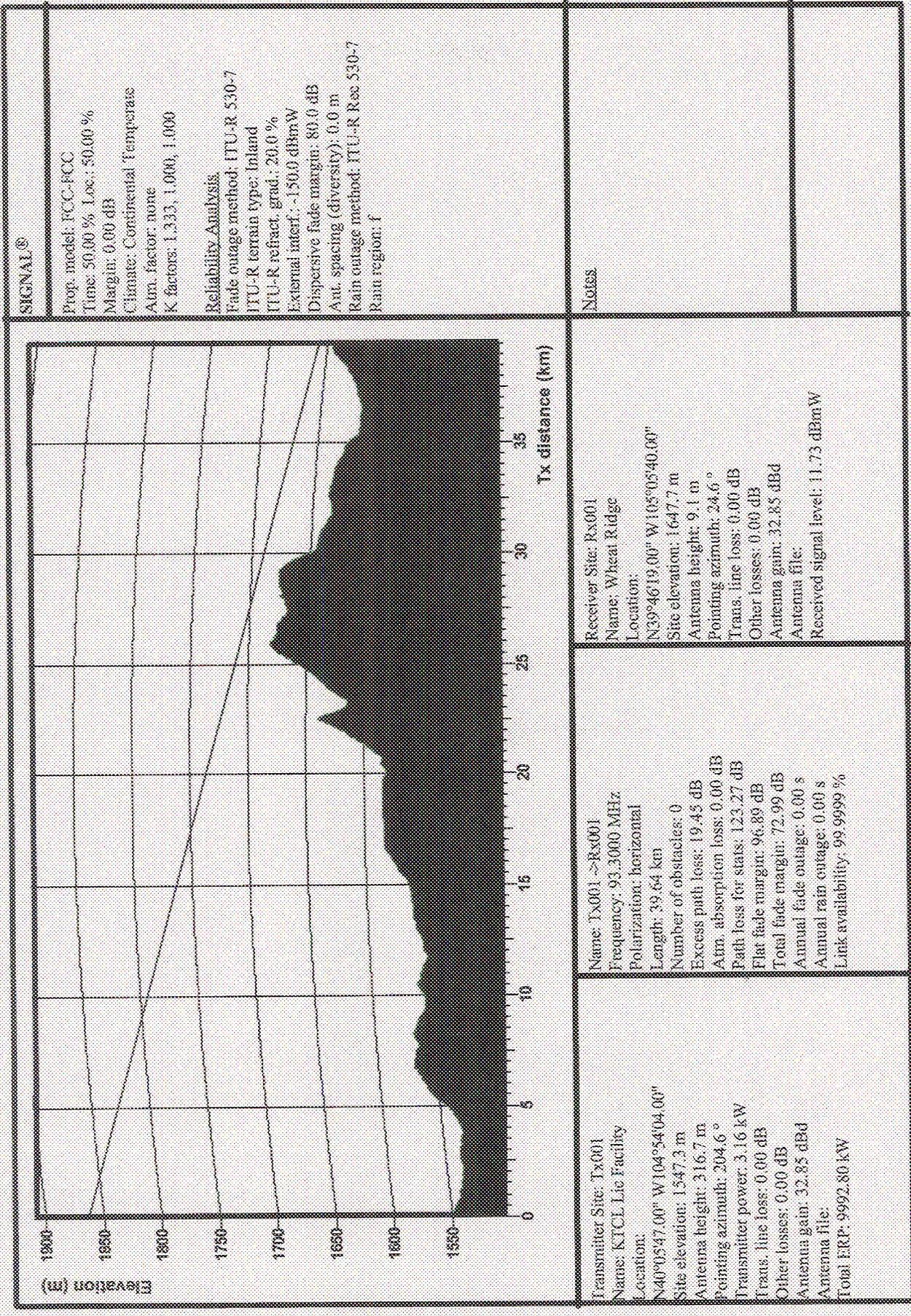
Wheat Ridge, Colorado



Hypothetical City Coverage From Existing KTCL Site

Exhibit E3

Link Study: KTCL Licensed Site to Wheat Ridge, Colorado



SIGNAL®

Prop. model: FCC-FCC
 Time: 50.00 % Loss: 50.00 %
 Margin: 0.00 dB
 Climate: Continental Temperature
 Atm. factor: none
 K factors: 1.333, 1.000, 1.000

Reliability Analysis
 Fade outage method: ITU-R 530-7
 ITU-R terrain type: Inland
 ITU-R refract. grad.: 20.0 %
 External interf.: -150.0 dBmW
 Dispersive fade margin: 80.0 dB
 Ant. spacing (diversity): 0.0 m
 Rain outage method: ITU-R Rec 530-7
 Rain region: f

Receiver Site: Rx001

Name: Wheat Ridge
 Location:
 N39°46'19.00" W105°05'40.00"
 Site elevation: 1647.7 m
 Antenna height: 9.1 m
 Pointing azimuth: 24.6 °
 Trans. line loss: 0.00 dB
 Other losses: 0.00 dB
 Antenna gain: 32.85 dBd
 Antenna file:
 Received signal level: 11.73 dBmW

Name: Tx001 -> Rx001

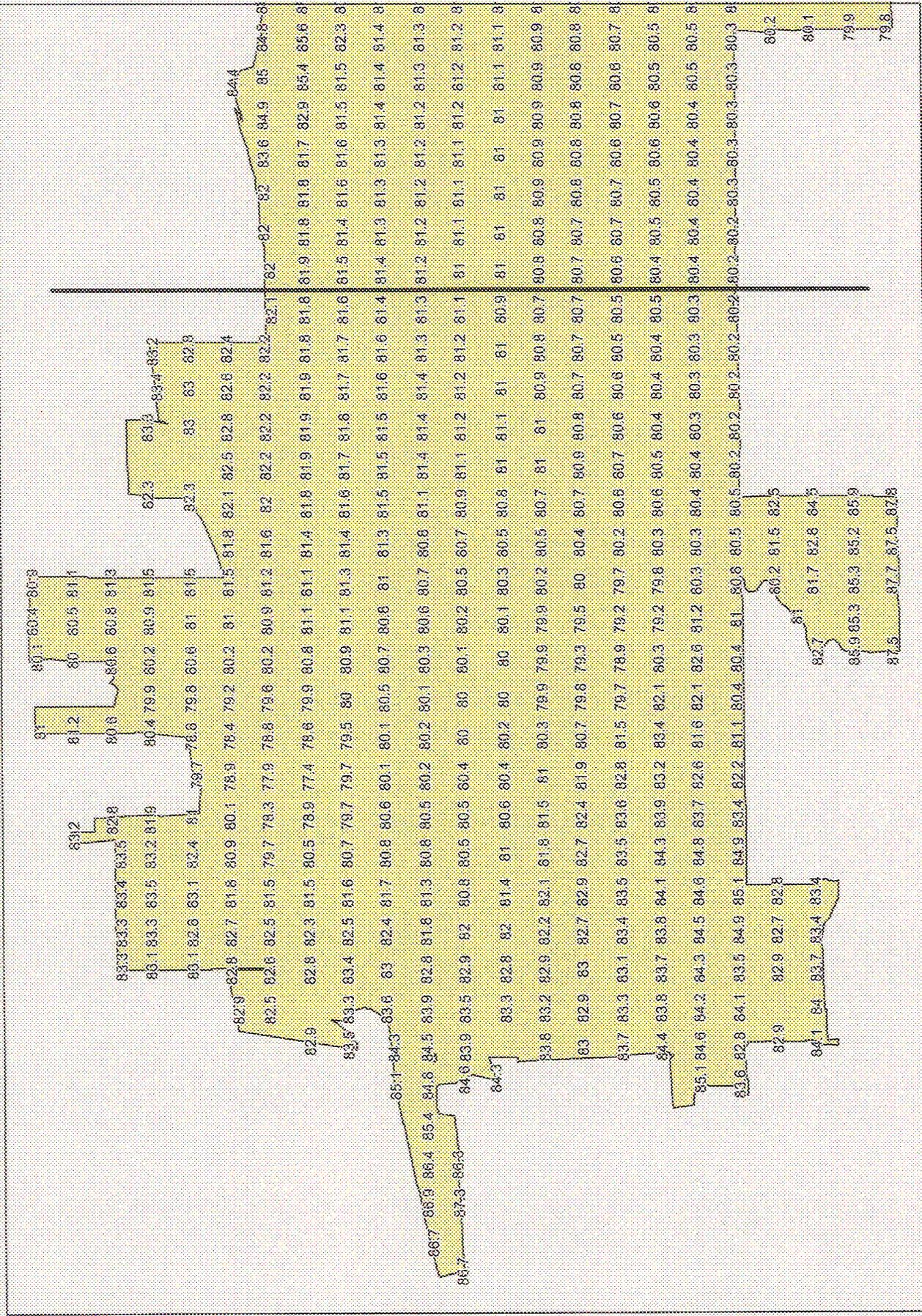
Frequency: 93.3000 MHz
 Polarization: horizontal
 Length: 39.64 km
 Number of obstacles: 0
 Excess path loss: 19.45 dB
 Atm. absorption loss: 0.00 dB
 Path loss for stats: 123.27 dB
 Flat fade margin: 96.89 dB
 Total fade margin: 72.99 dB
 Annual fade outage: 0.00 s
 Annual rain outage: 0.00 s
 Link availability: 99.9999 %

Transmitter Site: Tx001

Name: KTCL Lie Facility
 Location:
 N40°05'47.00" W104°54'04.00"
 Site elevation: 1547.3 m
 Antenna height: 316.7 m
 Pointing azimuth: 204.6 °
 Transmitter power: 3.16 kW
 Trans. line loss: 0.00 dB
 Other losses: 0.00 dB
 Antenna gain: 32.85 dBd
 Antenna file:
 Total ERP: 9992.80 kW

Notes

Exhibit E5



Longley-Rice Signal Levels (dBu) for
 The Western Portion of Wheat Ridge,
 Colorado From Licensed KTCL Facility

FM Study for: NEW FCC Database Date: 3/21/2003 37-55-51
 Location: CREEDE, CO Channel Class: C 106-56-03

[*] by HAAT indicates calculated as missing in database.

Call City, State Chan Class Freq kW Latitude Dist. Required
 Status Proponent File Number HAAT Longitude Azm. Clear (km)

>>>>>>> Study For Channel 248 97.5 MHz <<<<<<<<

ALLOC LAKE CITY, CO 247 A 97.3 38-01-47 35.2 165
 VAC RM-9938 0 107-18-52 288.3 -129.8 SHORT
Note: Propose change to 257A at the same reference site

ALLOC PONCHA SPRINGS, CO 248 A 97.5 38-30-42 98.9 226
 VAC Fac. No. 122030 Docket-1999-150 0 106-04-42 49.0 -127.1 SHORT
Note: Propose change to 277A at the same reference site

ALLOCR WESTCLIFFE, CO 249 A 97.7 38-03-21 126.7 165
 ADD RM-10565 0 105-30-02 83.3 -38.3 SHORT
Note: This counterproposal is mutually exclusive with the Tsunami proposal for
 Wheat Ridge, Colorado

ALLOC ASPEN, CO 249 C3 97.7 39-13-33 144.0 176
 VAC Fac. No. 43884 Docket-1989-198 0 106-50-00 3.5 -32.0 SHORT
Note: This allotment was deleted in Docket 00-6

KGOY RATON, NM 248 C1 97.5 100. 36-56-35 248.5 270
 CP Fac. No. 78978 BMPH-20001103ABS 257 104-24-52 115.4 -21.5 SHORT
Note: Propose change to 249C1 at the same reference site

KKSS SANTA FE, NM 247 C 97.3 94.0 35-46-50 241.38 241
 LIC Fac. No. 63928 BLH-19850926KA 572 106-31-35 171.2 +0.38 CLOSE

KZYR AVON, CO 249 C2 97.7 15.0 39-38-05 193.8 188 73.215
 LIC Fac. No. 57335 BLH-20010913AAK 134 106-26-47 12.5 +5.8 CLOSE

ALLOC LA JARA, CO 246 A 97.1 37-16-24 112.9 95
 VAC Fac. No. 122055 RM-9509 0 105-57-30 130.0 +17.9 CLEAR

KISZFM CORTEZ, CO 250 C 97.9 100. 37-21-48 124.4 105
 LIC Fac. No. 54005 BLH-19780921AG 399 108-09-00 240.0 +19.4 CLEAR

KBCOFM BOULDER, CO 247 C 97.3 94.0+ 39-54-48 262.1 241
 LIC Fac. No. 48966 BMLH-19960506KA 469 105-17-32 32.4 +21.1 CLEAR

ALLOCR RATON, NM 248 A 97.5 36-56-35 248.4 226
 DEL RM-vm120 0 104-24-52 115.4 +22.4 CLEAR

FM Study for: NEW FCC Database Date: 3/21/2003 37-55-51
 Location: CREEDE, CO Channel Class: C 106-56-03

[*] by HAAT indicates calculated as missing in database.

Call City, State Chan Class Freq kW Latitude Dist. Required
 Status Proponent File Number HAAT Longitude Azm. Clear (km)

>>>>>> Study For Channel 248 97.5 MHz <<<<<<<<

ALLOC	RATON, NM	248 A	97.5		36-56-35	248.5	226	
VAC	Fac. No. 78978	-		0	104-24-52	115.4	+22.5	CLEAR

KGoy	RATON, NM	248 A	97.5	.020	36-56-35	248.5	226	
APP	Fac. No. 78978	BPH-20011217AAI	224		104-24-52	115.4	+22.5	CLEAR

ALLOC	RATON, NM	249 C1	97.7		36-56-35	248.5	209	
ADD					104-24-52	115.4	+39.5	CLEAR

Notes: Propose change to 249C1 at the same reference site

