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**EXHIBIT A****FCC FORM 307 APPLICATION****Lomas de Oro Broadcasting Corporation****K43DK Denver, Colorado****FCC License File 911112JW  
FCC Modification Grant 930121WC**

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Lomas de Oro Broadcasting Corporation ("Lomas") is currently the licensee of low power television station K43DK in Denver, Colorado. The license was granted on January 30, 1992 and expires on June 1, 1997. FCC License File 911112JW. Following grant of the license, Lomas filed a major modification to change the licensed facilities. A copy of the application is attached for reference. The Commission granted the modification application on January 21, 1993. FCC File 930121WC.

Lomas is an affiliated corporation of Golden Hills Broadcasting Corporation ("Golden Hills"), licensee of full power UHF television station KCEC in Denver, Colorado. For various accounting, tax and related reasons, Lomas has, during 1993, been going through the process of dissolution. Contemporaneously with this filing, a FCC Form 345 application has been filed to transfer the license, and the pending major modification authorization for K43DK, to Golden Hills.

Construction of K43DK in accordance with the modification

in licensed facilities granted on January 21, 1993 has been delayed because of the corporate financial and structural reorganization that will result in the dissolution of Lomas. Golden Hills is, however, prepared, upon grant of the FCC Form 345 application to transfer to it the K43DK license and major modification authority, to implement promptly the construction required to bring the station into compliance with the modification in licensed facilities granted by the Commission on January 21, 1993.

The construction will involve considerable expense and time to complete. Under such circumstances, Golden Hills, through Lomas, requests that the modified construction permit be issued for a twelve month period as is specified for permits issued following an assignment of the underlying authorization. 47 C.F.R. Section 73.3534 (f).

This FCC Form 307 Exhibit A certifies that neither Lomas de Oro Broadcasting Corporation, nor any other party to the application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

Federal Communications Commission  
Washington, D.C. 20584

**DUPLICATE**

Approved by:  
3000-0018  
Expires 12/93

**APPLICATION FOR AUTHORITY TO CONSTRUCT OR  
MAKE CHANGES IN A LOW POWER TV, TV TRANSLATOR OR TV BOOSTER STATION**  
(Carefully read instructions before filling out form - RETURN ONLY FORM TO FCC)

For <u>Commission</u> Fee Use Only	FEE NO:	For <u>Applicant</u> Fee Use Only Is a fee submitted with this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> If No, indicate reason therefor (check one box) <input type="checkbox"/> Nonfeasible application Fee Exempt (See 47 C.F.R. Section 1.111): <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity
	FEE TYPE:	
	FEE AMT:	
	ID SEQ:	

For Commission Use Only  
File No. \_\_\_\_\_

**SECTION I - GENERAL INFORMATION**

1. Name of Applicant  Lomas De Oro Broadcasting Corporation	Address 1111 8th Ave. Suite 101		
	City Lakewood	State CO	Zip Code 80215
	Telephone No. (include area code) 303-235-0049		

2. This application is for (check one box)

- Low Power Television       TV Translator       TV Booster

(a) Proposed Channel No. 43	(b) Community to be served: City Denver	State CO
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(c) Check one of the following boxes:

- Application for NEW station
- MAJOR change in licensed facilities; call sign \_\_\_\_\_
- MINOR change in licensed facilities; call sign \_\_\_\_\_
- MAJOR modification of construction permit; call sign K43DK  
File No. of Construction Permit: BPTTL9004061A
- MINOR modification of construction permit; call sign \_\_\_\_\_  
File No. of Construction Permit: \_\_\_\_\_
- AMENDMENT to pending application; Application file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Sections I and VII and those other portions of the form that contain the amended information.

*From Byron St. Clair  
6 pages*

360077

SECTION II - ENGINEERING DATA AND ANTENNA AND SITE INFORMATION

1. Facilities requested:

Output Channel No.	Transmitter Rated Power Output	Proposed Community(ies) to be served	
43	1.0 kilowatts	City Denver	State CO

Frequency Offset (check one)

No offset       Zero offset       Plus offset       Minus offset

Transmitter Input Channel No. \_\_\_\_\_

2. Proposed transmitting antenna location:

City _____	State _____	County _____	NO CHANGE
Address or other description of location		Geographical coordinates of transmitting antenna to nearest second	
		North Latitude	West Longitude

Attach as an Exhibit a map or maps (preferably topographic, if obtainable, such as Geological Survey quadrangles) of the area of the proposed transmitting antenna location shown drawn thereon the following data

Exhibit No. \_\_\_\_\_

- a. Scales of all meters
- b. Proposed transmitting antenna location accurately plotted.

3. Transmitter:	Make	Type No.	Output Power P
	TTC	XL1000MU	1.0 kilowatts
4. Transmission line:	NO CHANGE	Length	Rated efficiency E for length given (decimal fraction)
			0.767

5. Transmitting antenna

Directional "off-the-shelf"       Directional Composite (Multiple Antennas)       Non-Directional

Manufacturer		Model	Description <sup>1</sup>
Antenna Concepts		ACS24B	24 Bay Slot
Orientation of main lobe <sup>2</sup>	Overall antenna structure height above ground <sup>3</sup>	Elevation of Site <sup>4</sup>	Power gain G (multiplier) in the horizontal lobe of maximum radiation relative to a halfwave dipole <sup>5</sup>
065.0°T	NO CHANGE meters	meters	33.4

Effective radiated power (ERP)

(ERP=P X E X G) 25.6 kilowatts

Height of antenna radiation center above ground \_\_\_\_\_ meters

Height of antenna radiation center above above mean sea level 2229.8 meters<sup>6</sup>

1 Give basic type using general descriptive terms such as half-wave dipole, "bow-tie" with screen, corner reflector, 10 element Yagi, 4 element in-phase array, two stacked 5 element Yagis, etc.

2 For directional antennas in the horizontal plane show the direction of the main radiation lobe(s) in degrees with respect to true north in a 360 degree horizontal azimuth, numbered clockwise, with true north as zero azimuth.

3 Show overall height above ground in meters to topmost portion of structure, including highest top mounted antenna and beacon if any.

4 Show the ground elevation above mean sea level in meters at the base of the transmitting antenna supporting structure.

5 Give the actual power gain toward the radio horizon.

6 This is equal to the sum of the site elevation and the height of the antenna radiation center above ground. 360078

ACS 24B MAX G = 66.3

66.3 x .767 = 50.85 kW

Section II (Page 2)

NO CHANGE

6. Attach as an Exhibit a vertical plan sketch for the proposed total antenna structure, including supporting structure, giving overall height of structure in meters above ground, including lighting beacon (if any).

Exhibit No.

7. Will the proposed antenna supporting structure be shared with an AM radio station?

Yes  No

If yes, list the call sign of that station. \_\_\_\_\_

8. Attach as an Exhibit a polar diagram of the radiation pattern (relative field) in the horizontal plane of the transmitting antenna showing clearly the correct relationship between the major lobe or lobes and the minor lobes of radiation and a tabulation of the pattern at every ten degrees and all maxima and minima. Applicants proposing use of multiple transmitting antennas shall submit a composite radiation pattern. If a non-directional transmitting antenna will be employed, i.e., an antenna with an approximately circular radiation pattern, check here  and omit polar diagram and tabulation. If the antenna manufacturer and model number are on the Commission's list of common "off-the-shelf" directional antennas, check here  and omit polar diagram and tabulation.

Exhibit No.

9. Has FAA been notified of proposed construction?

Yes  No

If Yes, give date and office where notice was filed: \_\_\_\_\_

10. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within 47 C.F.R. 1.1307, such that it may have a significant environmental impact, including exposure to workers or the general public to harmful nonionizing radiation levels?

Yes  No

If you answer Yes, submit as an Exhibit an Environmental Assessment as required by Section 1.1311. If no, explain briefly why not.

Exhibit No.

This is an antenna upgrade. No construction is involved. Non-ionizing radiation at ground level is below OST BUL 65 Guidelines.

11. Unattended operation:

Is unattended operation proposed?

NO CHANGE

Yes  No

If Yes, and this application is for authority to construct a new station or to make changes in the facilities of an authorized station which proposes unattended operation for the first time, applicant will comply with the requirements of 47 C.F.R. Section 74.734 concerning unattended operation.

Yes  No

12. Is type approved broadcast equipment being specified?

If No, indicate date equipment was submitted to FCC Laboratory for approval. \_\_\_\_\_

Yes  No

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

February 13, 1992

Date

Signature	
Typed or Printed Name	B. W. St. Clair
Telephone No. (include area code)	303-422-0164

Technical Director

Registered Professional Engineer

Consulting Engineer

Chief Operator

Other (specify) Engineering Consultant

**SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM**

NO CHANGE

1. For Low Power TV applicants, will this station employ on a full-time basis five or more persons?  Yes

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Report (FCC Form 398-A).

**SECTION VII - CERTIFICATIONS**

1. For new station and major change applicants only, the applicant certifies that it has or will comply with the public notice requirement of 47 C.F.R. Section 73.3580(c).  Yes

2. For applicants proposing translator rebroadcasts who are not the licensee of the primary station, the applicant certifies that written authority has been obtained from the licensee of the station whose programs are to be retransmitted. N/A  Yes

Primary station proposed to be rebroadcast:

Call Sign	City	State	Channel No.
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3. The applicant certifies that it has contacted an authorized spokesperson for the owner of the rights to the proposed transmitter site and has obtained reasonable assurance that the site will be available for its use if this application is granted.  Yes

NO CHANGE

That person can be contacted at the following address and telephone number:

Name		Mailing Address or Identification	
City	State	ZIP Code	Telephone No. (include area code)

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.85, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.  
U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true, complete and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant Lomas De Oro Broadcasting Corporation	Signature <i>[Signature]</i>
Title President	Date 2/13/92

360080

## EXHIBIT 1

## Request for Waivers:

When K43DK made a displacement channel change from CH 49 to CH 43, two waivers were necessary. This application is to improve the coverage of the station and the same waivers will be required.

## Para 74.705(b)(4)

1. This CH 43 LPTV station is colocated with full service station KCEC. There is overlapping ownership and management of the two stations. There are no known instances of interference and it is not anticipated that any will result from this upgrade. Note that the increased coverage will result from approximately doubling the azimuth range but not reaching further out. The useful viewing area of K43DK will still be within the very strong signal area of KCEC.

A "No Objection Statement" from Golden Hills Broadcasting Corp, licensee of KCEC is attached.

## Para 74.705(b)(5)

2. K43DK currently operates shortspaced to KWBI TV, CH 41. In the previously filed displacement application an intermodulation study was presented showing that if any intermodulation products developed they would fall in unused and unusable channels. There are no known problems from the short spaced operation. K43DK proposes to transmit over a wider horizontal angle and all of the increased area is in a direction further away from KWBI. Accordingly it appears the requested increase in coverage would not increase the likelihood of intermodulation caused interference.

360081

STATEMENT REGARDING THE APPLICATION OF K49CE  
TO INCREASE ITS COVERAGE

Golden Hills Broadcasting Corporation holds the construction permit for and operates CH 50 in Denver (EPCT860212KO).

Without waiving its rights to require Lomas De Oro to correct any interference problems arising from the proposed increase in coverage or even to require it to cease such operation if there is interference which is uncorrectable, Golden Hills hereby consents to the waiver of Para 74.705(b)(4) requested by Lomas De Oro.

Signed this 13th day of February 1992.

By: *Thomas E. Long*  
Title: President

360082



FEDERAL COMMUNICATIONS COMMISSION

LOW POWER TELEVISION / TELEVISION TRANSLATOR  
BROADCAST STATION CONSTRUCTION PERMIT

Official Mailing Address:

LOMAS DE ORO BROADCASTING CORP.  
11111 W. 8TH STREET, #C  
LAKEWOOD, CO 80215

Authorizing Official:

*M.M.F.*  
Mary M. Fitzgerald  
Supervisory Attorney, LPTV Branch  
Video Services Division  
Mass Media Bureau

Grant Date: September 30, 1993

Call sign: K43DK

This permit expires 3:00 am.  
local time: March 30, 1994

Permit File No.: BMPTTL-930922IG

This permit modifies Permit No.: 920214WC

MODIFICATION OF CONSTRUCTION PERMIT  
TO EXTEND COMPLETION DATE.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission's Rules.

Name of permittee:

LOMAS DE ORO BROADCASTING CORPORATION

Station Location:

CO-DENVER

360114

*10-1-93*

Frequency (MHz): 644.0 - 650.0      Offset: Plus

Channel: 43

Hours of Operation: Unlimited

Transmitter location (address or description):

    KWGN-TV TRANS. BUFFALO BILL HIWAY LOCKOUT MTN., GOLDEN, CO.

Transmitter: Type accepted. See Section 74.750 of the Commission's Rules.

Antenna type: (directional or non-directional): Directional

    Desc: ANTENNA CONCEPTS, ACS24B MOUNTED ON TOWER

    Major lobe directions (degrees true): 65.0

Antenna coordinates: North Latitude: 39 43 59.0  
  West Longitude: 105 14 12.0

Transmitter output power (Visual) . . . . : 1.0 kW

Maximum effective radiated power (Visual) : 25.6 kW

Height of radiation center above ground . . . . : 13.0 Meters

Height of radiation center above mean sea level : 2230.0 Meters

Overall height of antenna structure above ground (including obstruction  
lighting, if any) . . . . . : 18.0 meters

Obstruction marking and lighting specifications for antenna  
structure:

It is to be expressly understood that the issuance of these specifications  
is in no way to be considered as precluding additional or modified marking  
or lighting as may hereafter be required under the provisions of Section  
303(q) of the Communications Act of 1934, as amended.

None Required

**360115**

## Special operating conditions or restrictions:

1. The grant of this application is conditioned upon the acceptance of interference which may be caused to the permittee by the facilities proposed by the application on the channel referenced below.

BPTT-910503EN, K57BT, DENVER, CO

2. The authorization of a license to operate this station is conditioned upon the use of a transmitter that has been type accepted or meets Commission type acceptance requirements at a visual carrier frequency tolerance of plus/minus 1 kHz. In the event the transmitter has not been type accepted at this tolerance, the permittee shall, in the license application, provide full engineering data that demonstrates compliance with Section 74.750 (c) (3) (iii) of the Commission's Rules.

## SHORT SPACING CONDITION:

THIS AUTHORIZATION INCLUDES A WAIVER OF SECTIONS 74.705(B)(4) AND 74.705(B)(5) OF THE COMMISSION'S RULES TO PERMIT STATION CONSTRUCTION WITHIN 100 KILOMETERS AND 32 KILOMETERS, RESPECTIVELY, OF THE FULL-SERVICE TELEVISION STATIONS SPECIFIED BELOW. THIS WAIVER WILL CONVEY FOR MINOR CHANGES TO THE FACILITY, EXCEPT FOR THOSE RELATED TO CHANNEL DISPLACEMENT, AND FOR ASSIGNMENT OR TRANSFER OF THE AUTHORIZATION. THE PERMITTEE OR LICENSEE IS RESPONSIBLE TO ELIMINATE ANY OBJECTIONABLE INTERFERENCE TO THE OFF-AIR RECEPTION OF THESE FULL SERVICE TELEVISION STATIONS RESULTING FROM THE OPERATION OF THIS STATION.

KCEC-TV, CH-50, DENVER, COLORADO

KWBI-TV, CH-41, DENVER, COLORADO

360116

Call Sign: K43DK

Permit No.: BPTTL-920214WC

This authorization includes a waiver of Sections 74.705(b)(4) and 74.705(b)(5) of the Commission's Rules to permit station construction within 100 kilometers and 32 kilometers, respectively, of the full-service television stations specified below. This waiver will convey for minor changes to the facility, except for those related to channel displacement, and for assignment or transfer of the authorization. The permittee or licensee is responsible to eliminate any objectionable interference to the off-air reception of these full service television stations resulting from the operation of this station.

KCEC-TV, Channel 50, Denver, Colorado

KWBI-TV, Channel 41, Denver, Colorado

360148

Call Sign: K43DK

Permit No.: BPTTL-920214WC

This authorization includes a waiver of Sections 74.705(b)(4) and 74.705(b)(5) of the Commission's Rules to permit station construction within 100 kilometers and 32 kilometers, respectively, of the full-service television stations specified below. This waiver will convey for minor changes to the facility, except for those related to channel displacement, and for assignment or transfer of the authorization. The permittee or licensee is responsible to eliminate any objectionable interference to the off-air reception of these full service television stations resulting from the operation of this station.

KCEC-TV, Channel 50, Denver, Colorado

KWBI-TV, Channel 41, Denver, Colorado

360148

THOMPSON  
HINE & FLORY LLP

*Attorneys at Law*

**DUPLICATE**

June 1, 1998

**RECEIVED**

JUN - 1 1998

Ms. Magalie Roman Salas  
Secretary  
Federal Communications Commission  
1919 M Street, NW  
Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Re: LPTV Station K43DK  
Denver, Colorado  
Application for Minor Change  
Stop Code 1800E2

Dear Sir:

Transmitted herewith, in triplicate, on behalf of Entravision Holdings, LLC, the licensee of LPTV Station K43DK, Denver, Colorado, is an application on FCC Form 346.

The application requests that the Commission consent to a minor change to the Station's license, by changing the output channel from 43 to 36. This is a displacement relief application filed pursuant to the provisions of the Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order in MM Docket No. 87-268, FCC 98-24, released February 23, 1998 (¶116, et seq.). The displacement relief is being sought due to the DTV allotment of Channel 43 for Station KUBD(TV), Denver, Colorado.

No filing fee is required for an application of this nature.

Should there be any questions concerning this matter, please communicate with the undersigned.

Very truly yours,



Barry A. Friedman

Enclosure  
cc: Mr. Walter F. Ulloa

**360178**

1920 N Street, N.W. Washington, D.C. 20036-1601 202-331-8800 fax 331-8330

BRUSSELS, BELGIUM CINCINNATI CLEVELAND COLUMBUS DAYTON PALM BEACH WASHINGTON, D.C.

FOR  
FCC  
USE  
ONLY

**DUPLICATE**

FCC 346

**APPLICATION FOR AUTHORITY TO CONSTRUCT OR  
MAKE CHANGES IN A LOW POWER TV, TV TRANSLATOR  
OR TV BOOSTER STATION**

FOR COMMISSION USE ONLY

FILE NO. **BPTL-JG0001ZG**

**RECEIVED**

JUN - 1 1998

<b>SECTION I - GENERAL INFORMATION</b>			
1. APPLICANT NAME (Last, First, Middle Initial)		FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY	
Entravision Holdings, LLC			
MAILING ADDRESS (Line 1) (Maximum 35 characters)		11900 Olympic Blvd., Suite 590	
MAILING ADDRESS (Line 2) (Maximum 35 characters)			
CITY	Los Angeles	STATE OR COUNTRY (if foreign address)	CA ZIP CODE 90064
TELEPHONE NUMBER (include area code)	(310)820-5355	CALL LETTERS OR OTHER FCC IDENTIFIER (IF APPLICABLE)	K43DK
2. A. Is a fee submitted with this application?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
B. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1112).			
<input type="checkbox"/> Governmental Entity		<input type="checkbox"/> Noncommercial educational licensee	
		<input checked="" type="checkbox"/> Other (Please explain): Displacement Application	
C. If Yes, provide the following information:			
Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number listed in Column (B).			
(A)	(B)	(C)	FOR FCC USE ONLY
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	
	0 0 0 1	\$	

3. This application is for: (check one box)



Low Power Television



TV Translator



TV Booster

(a) Proposed Channel No.	(b) Community to be served:	
36	City Denver	State CO

Displaced by Digital TV assignment, Channel 43 Denver, CO

Terrain Shielding Waiver with respect to KXRM (CP) is requested. See Exhibit 3.

360179

(c) Check one of the following boxes:

- Application for NEW station
- MAJOR change in licensed facilities, call sign: \_\_\_\_\_
- MINOR change in licensed facilities; call sign: \_\_\_\_\_ K43DK
- MAJOR modification of construction permit; call sign: \_\_\_\_\_
- File No. of Construction Permit: \_\_\_\_\_
- MINOR modification of construction permit; call sign: \_\_\_\_\_
- File No. of Construction Permit: \_\_\_\_\_
- AMENDMENT to pending application: Application file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Sections I and VII and those other portions of the form that contain the amended information.

SECTION II - ENGINEERING DATA AND ANTENNA AND SITE INFORMATION

1. Facilities requested:

Output Channel No.	Transmitter Rated Power Output	Proposed Community(ies) to be served	
36	1.0 kilowatts	City Denver	State CO

Frequency Offset (check one)

No offset       Zero offset       Plus offset       Minus offset

Translator Input Channel No. N/A

2. Proposed transmitting antenna locations

City Lookout Mountain, Golden	State CO	County Jefferson
Address or other description of location: East of Hwy 68		Geographical coordinates of transmitting antenna to nearest second North Latitude      West Longitude  39° 43' 59"      105° 14' 12"

Attach as an Exhibit a map or maps (preferably topographic, if obtainable, such as Geological Survey quadrangles) of the area of the proposed transmitting antenna location shown drawn thereon the following data:

Exhibit No. No Change

- a. Scale of kilometers
- b. Proposed transmitting antenna location accurately plotted.

3. Transmitter:	Make Larcen-TTC	Type No. XLS-1000MU	Output Power P 1.0 kilowatts
4. Transmission line:	Andrew	LDF7-50A	Length 30 m Rated efficiency E for length given (decimal fraction) 0.871

5. Transmitting antenna:       Directional "off-the-shelf"       Directional Composite (Multiple Antennas)       Non-Directional

Manufacturer Bogner	Model B16UC	Description <sup>1</sup> 16 Bay Slot
Orientation of main lobe <sup>2</sup> 090.0°T	Overall antenna structure height above ground <sup>3</sup> 18 m	Elevation of Site <sup>4</sup> 2217 m
Power gain G (multiplier) in the horizontal lobe of maximum radiation relative to a halfwave dipole <sup>5</sup> 36.1*		

Effective radiated power (ERP) (ERP = P X E X G) 31.4 kilowatts      Height of antenna radiation center above ground 13 meters

Height of antenna radiation center above mean sea level 2230 meters<sup>6</sup>

- 1 Give basic type using general descriptive terms such as half-wave dipole, "bow-tie" with screen, corner reflector, 10 element Yagi, 4 element in-phase array, two stacked 5 element Yagis, etc.
- 2 For directional antennas in the horizontal plan show the direction of the main radiation lobe(s) in degrees with respect to true north in a 360 degree horizontal azimuth, numbered clockwise, with true north as zero azimuth.
- 3 Show overall height above ground in meters to topmost portion of structure, including highest top mounted antenna and beacon if any.
- 4 Show the ground elevation above mean sea level in meters at the base of the transmitting antenna supporting structure.
- 5 Give the actual power gain toward the radio horizon.
- 6 This is equal to the sum of the site elevation and the height of the antenna radiation center above ground.

\*Gain on the horizon with 1 3/4° downtilt.

360181

SECTION II (Page 2)

6. Attach as an Exhibit a vertical plane sketch for the proposed total antenna structure, including supporting structure, giving overall height of structure in meters above ground, including lighting beacon (if any).

Exhibit No.  
1

7. Will the proposed antenna supporting structure be shared with an AM radio station?

Yes  No

If Yes, list the call sign of that station: \_\_\_\_\_

8. Attach as an Exhibit a polar diagram of the radiation pattern (relative field) in the horizontal plane of the transmitting antenna showing clearly the correct relationship between the major lobe or lobes and the minor lobes of radiation and a tabulation of the pattern at every ten degrees and all maxima and minima. Applicants proposing use of multiple transmitting antennas shall submit a composite radiation pattern. If a non-directional transmitting antenna will be employed, i.e., an antenna with an approximately circulated radiation pattern, check here  and omit polar diagram and tabulation. If the antenna manufacturer and model number are on the Commission's list of common "off-the-shelf" directional antennas, check here  and omit polar diagram and tabulation.

Exhibit No.

9. Has FAA been notified of proposed construction?

Yes  No

If Yes, give date and office where notice was filed: \_\_\_\_\_

10. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding identified health and safety guidelines issued by the American National Standards Institute?

Yes  No

If Yes, attach as an Exhibit an environmental Assessment required by 47 C.F.R. Section 1.1311.

Exhibit No.

If No, explain briefly why not.

Antenna will be mounted on an existing tower. No construction.

Non-ionizing radiation levels at ground level below OST bulletin 65 guidelines.

11. Unattended operation:

Is unattended operation proposed?

Yes  No

If Yes, and this application is for authority to construct a new station or to make changes in the facilities of an authorized station which proposes unattended operation for the first time, applicant will comply with the requirements of 47 C.F.R. Section 74.734 concerning unattended operation.

Yes  No

12. Is type approved broadcast equipment being specified?

Yes  No

If No, indicate date equipment was submitted to FCC Laboratory for approval:

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Date: May 23, 1998

Signature	<i>B. W. St. Clair</i>
Typed or Printed Name	B. W. St. Clair
Telephone No. (include area code)	303-465-5742

- Technical Director     
  Registered Professional Engineer     
  Consulting Engineer  
 Chief Operator     
  Other (specify) Engineering Consultant

**SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM**

For Low Power TV applicants, will this station employ on a full-time basis five or more persons?

Yes  No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Report (FCC Form 396-A).

**SECTION VII - CERTIFICATIONS**

1. For new station and major change applicants only, the applicant certifies that it has or will comply with the public notice requirement of 47 C.F.R. Section 73.3580(g).

N/A  Yes  No

2. For applicants proposing translator rebroadcasts who are not the licensee of the primary station, the applicant certifies that written authority has been obtained from the licensee of the station whose programs are to be retransmitted.

N/A  Yes  No

Primary station proposed to be rebroadcast:

Call Sign	City	State	Channel No.
-----------	------	-------	-------------

3. The applicant certifies that it has contacted an authorized representative for the owner of the rights to the proposed transmitter site and has obtained reasonable assurance that the site will be available for its use if this application is granted.

Yes  No

That person can be contacted at the following address and telephone number:

Station currently operating at this site: No change.

Name	Mailing Address or Identification		
City	State	ZIP Code	Telephone No. (include area code)

4. By checking Yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of "party" for these purposes, see 47 C.F.R. Section 1.200(a)(b).

Yes  No

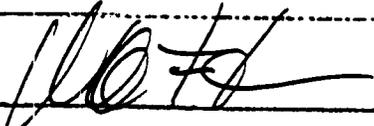
The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the operation of the station, whether in license or otherwise, and requests its authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

**WITFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSES OR PERMITS (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).**

I certify that the statements in this application are true, complete and correct to the best of my knowledge and belief, and I am not in legal duress.

Name of Applicant Entravision Holdings, LLC	Signature 
Title Chairman of the Board, Chief Executive Officer and Managing Member	Date May 28, 1998

EXISTING TOWER  
Lookout Mt.  
Golden, CO

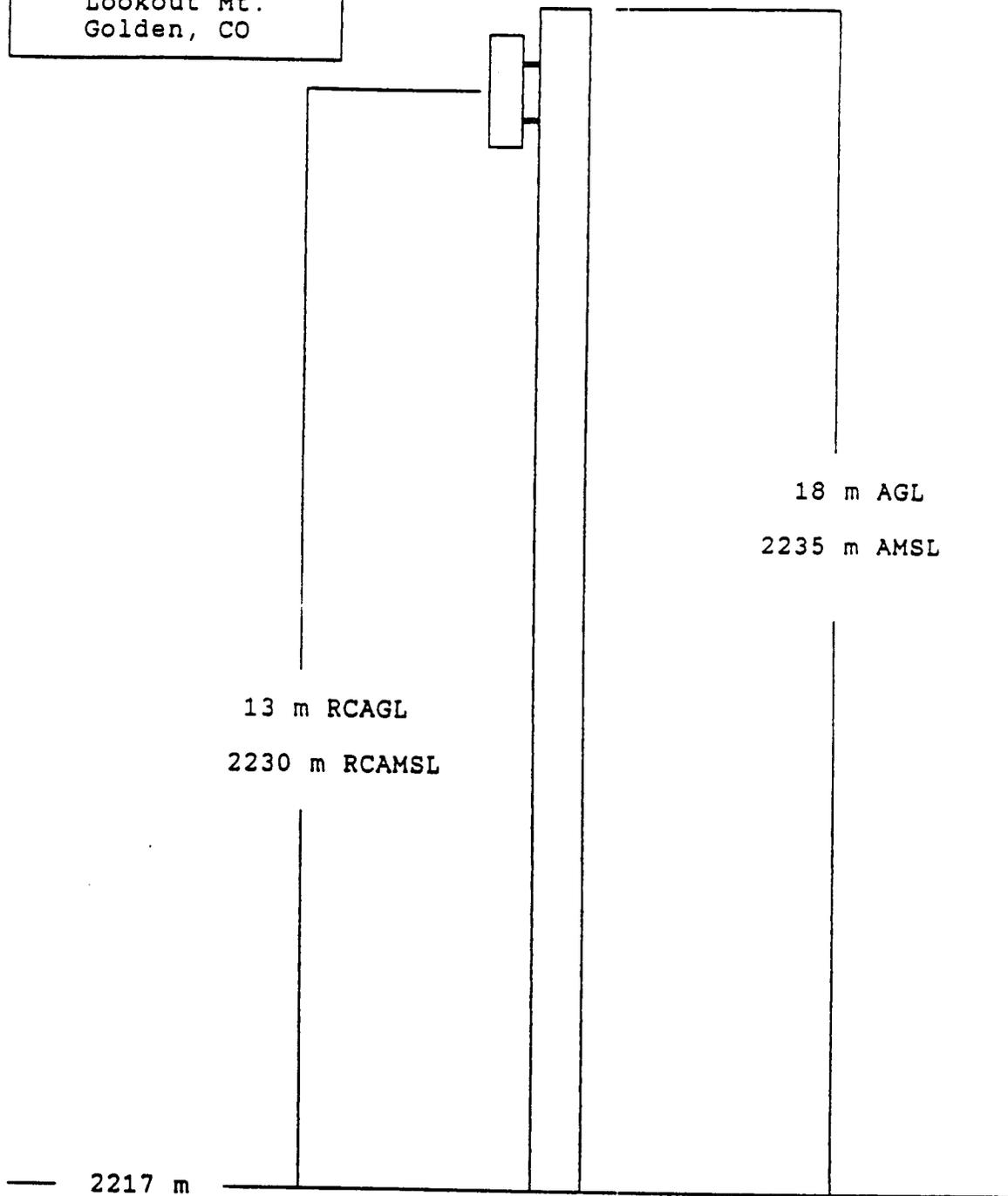


Exhibit 1 | Vertical Plan Sketch | 05/23/98

B. W. St. Clair - Engineering Consultant

2355 Ranch Drive, Westminster, CO 80234 \* 303-465-5742

360184

## EXHIBIT 2

### ENTRAVISION DENVER-CHANNEL 36

LPTV Station K43DK operates on Channel 43. Full service station KUBD has been assigned 43 for its digital station at a location 6.4 km from the LPTV Station location. Accordingly this application requests a displacement change and Channel 36 has been chosen.

This application is one of five in a coordinated plan in the Denver area to preserve all five LPTV/translator stations. It specifies a channel currently licensed to K36CP at a different location (Aurora, CO) but in the Denver metropolitan area. There is a DTV assignment on Channel 35 which is forcing K36CP to file a displacement application, as it is not co-located. However, by contrast K43DK is co-located with the Channel 35 DTV assignment, and it is believed that it can successfully operate on the channel adjacent to it.

The change proposed here preserves LPTV station K43DK and makes efficient use of this spectrum.

## EXHIBIT 3

### REQUEST FOR A TERRAIN SHIELDING WAIVER

It is necessary to request a "Terrain Shielding Waiver" with respect to KXRM (CP), Colorado Springs.

A terrain profile is included and it is anticipated a consent letter will be supplied as an amendment.

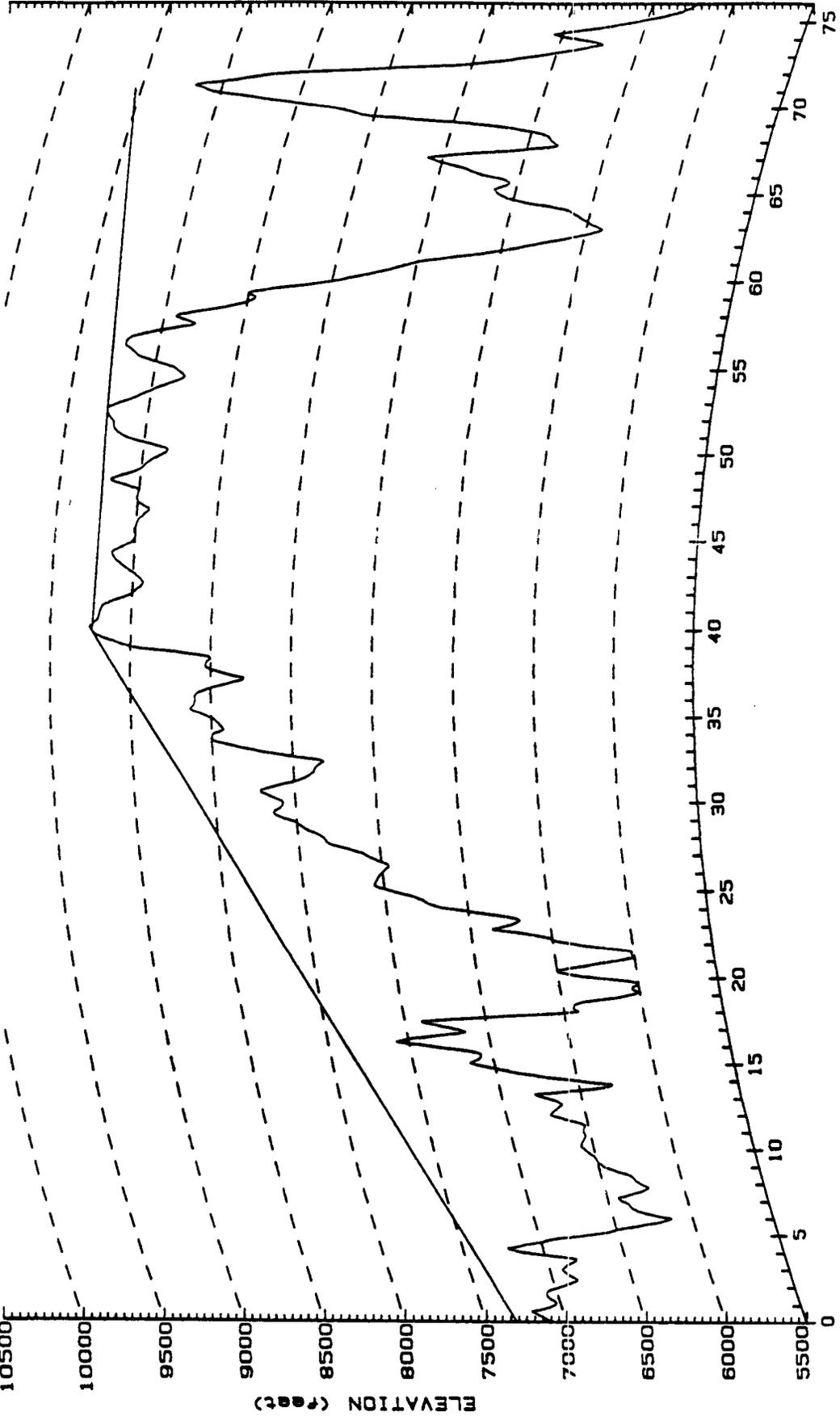
BWS  
5/28/98

360185

Site: Lookout Mt., CO  
 N 39 43 59 W 105 14 12  
 Ant. Elev. (AMSL): 7316.1 ft  
 Path azimuth: 163.67 degs.  
 10500

Frequency: 603.3 MHz  
 Path Length: 71.1 mi  
 Total Path Loss: 158.9 dB  
 Excess Path Loss: 29.7 dB

Site: Cheyenne Mt., CO  
 N 38 44 43 W 104 51 40  
 Ant. Elev. (AMSL): 9537.0 ft  
 Path azimuth: 343.92 degs.



K factor: 1.330

30 Second Database  
 Rain loss: .0 dB  
 Urban loss: .0 dB  
 Foliage loss: .0 dB

PATH PROFILE

B. V. St. Clair  
 Engineering Consultant  
 2355 Ranch Drive  
 Westminster, CO 80234  
 303-465-5742

Lookout Mt., CO to Colo. Spgs. CO  
 KXRM-TV Channel 21  
 28 May 98 Radial 163.7 deg.

51096

Channel 57

JOSEPH E. DUNNE III  
COLBY M. MAY

ALSO ADMITTED IN VIRGINIA

MAY & DUNNE  
CHARTERED  
ATTORNEYS AT LAW  
1000 THOMAS JEFFERSON STREET, N.W.  
SUITE 520  
WASHINGTON, D.C. 20007  
(202) 298-6345

RICHARD G. GAY  
OF COUNSEL  
TELECOPIER NO  
(202) 298-6375

May 3, 1991

HAND DELIVER

Federal Communications Commission  
c/o Mellon Bank  
Three Mellon Bank Center  
27th Floor, Room 153-2713  
525 William Penn Way  
Pittsburgh, Pennsylvania 15251

RE: Application of Trinity Broadcasting of Denver, Inc. for a  
Major Change of TV Translator K57BT, Denver, Colorado

Dear Sir or Madam:

Filed herewith, in triplicate, on behalf of Trinity Broadcasting of Denver, Inc., is a major change application submitted on FCC Form 346 concerning TV translator facility K57BT, Denver, Colorado.

The applicant herein requests waivers of sections 74.705 and 74.707 because of calculated theoretical interference to various full power and LPTV authorizations. The facts and circumstances pertaining to each waiver and the justification therefor is included in Exhibit A.

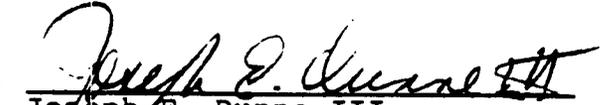
In addition, pursuant to Commission Rule 1.1104, a check in the amount of the required filing fee of \$425.00, made payable to the "Federal Communications Commission," and the required "Fee Processing Form" (FCC Form 155) are also attached.

If any questions should arise concerning this matter, kindly contact the undersigned directly.

Respectfully submitted,

MAY & DUNNE, CHARTERED

By:

  
Joseph E. Dunne III  
Attorney for Trinity  
Broadcasting of Denver, Inc.

JED:jrfB19  
enclosure

570064

JOSEPH E. DUNNE III  
COLBY M. MAY

ALSO ADMITTED IN VIRGINIA

MAY & DUNNE  
CHARTERED  
ATTORNEYS AT LAW  
1000 THOMAS JEFFERSON STREET, N.W.  
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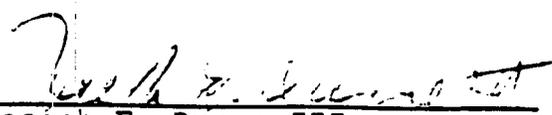
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If any questions should arise concerning this matter, kindly contact the undersigned directly.

Respectfully submitted,

MAY & DUNNE, CHARTERED

By:

  
Joseph E. Dunne III  
Attorney for Trinity  
Broadcasting of Denver, Inc.

JED:jrfB19  
enclosure

570066

For <u>Commission</u> Fee Use Only	FEE NO:	For <u>Applicant</u> Fee Use Only Is a fee submitted with this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, indicate reason therefor (check one box): <input type="checkbox"/> Nonfeeable application Fee Exempt (See 47 C.F.R. Section 1.1112) <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity
	FEE TYPE:	
	FEE AMT:	
	ID SEC:	

*BPTT-*

For Commission Use Only  
 File No. *BPTT-910563EN*

SECTION II - GENERAL INFORMATION

Name of Applicant: Trinity Broadcasting of Denver, Inc.	Address: 9020 Yates		
	City: Westminister	State CO.	Zip Code 80030
	Telephone No. (include area code): (303) 650-5515		

This application is for (check one box):

- Low Power Television       TV Translator       TV Booster

a. Proposed Channel No. 57 *	b. Community to be served: City: Denver	State CO.
---------------------------------	--	--------------

(c) Check one of the following boxes:

- Application for NEW station
- MAJOR change in licensed facilities; call sign: KS7BT
- MINOR change in licensed facilities; call sign: \_\_\_\_\_
- MAJOR modification of construction permit; call sign: \_\_\_\_\_  
 File No. of Construction Permit: \_\_\_\_\_
- MINOR modification of construction permit; call sign: \_\_\_\_\_  
 File No. of Construction Permit: \_\_\_\_\_
- AMENDMENT to pending application; Add action file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so however, please submit Sections I and VII and those other portions of the form that contain the amended information.

\* The applicant hereing requests various waivers of sections 74.705 and 74.707 because of calculated interference to various full power and LPTV authorizations. A full explanation of each waiver requested and the justification for each is included in Exhibit A.

570067

**WARNING:** Do not complete the following without reading carefully the definitions and other information set out in the foregoing pages.

### CERTIFICATION OF PREFERENCES

#### MINORITY

The applicant certifies that it is entitled to and seeks to claim minority preference.

Yes  No

If yes, complete the following:

Name	Address	Percentage Interest in the applicant	Minority Group
------	---------	---	----------------

#### DIVERSIFICATION PREFERENCE

The applicant certifies that it and/or its owners have no interest, in the aggregate, exceeding 50 percent in any media of mass communications.

Yes  No

If Yes, DO NOT respond to questions 3 and 4.

The applicant certifies that it and/or its owners have no interest, in the aggregate, exceeding 50 percent in more than three mass communications media facilities.

Yes  No

The applicant certifies that it and/or its owners have no interest, in the aggregate, exceeding 50 percent in a media of mass communications in the same area to be served by the proposed station.

Yes  No

570058

Low Power TV applicants, will this station employ on a full-time basis five or more persons?

Yes  No  
N/A

Yes, this applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Report (FCC Form 396-A).

**SECTION VII - CERTIFICATIONS**

For new station and major change applicants only, the applicant certifies that it has or will comply with the public notice requirement of 47 C.F.R. Section 73.3580(g).

Yes  No

For applicants proposing translator rebroadcasts who are not the licensee of the primary station, the applicant certifies that written authority has been obtained from the licensee of the station whose programs are to be retransmitted.

Yes  No  
N/A

For station proposed to be rebroadcast:

Sign	City	State	Channel No.

The applicant certifies that it has contacted an authorized spokesperson for the owner of the rights to the proposed transmitter site and has obtained reasonable assurance that the site will be available for its use if this application is granted.

Yes  No  
N/A

That person can be contacted at the following address and telephone number:

No Site Change

Name	Mailing Address or Identification		
City	State	ZIP Code	Telephone No. (include area code)

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying termination of any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.5E, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.  
U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true, complete and correct to the best of my knowledge and belief, and are so in good faith.

Name of Applicant: Trinity Broadcasting of Denver, Inc.  
 Assistant Secretary: [Signature]  
 Date: May 9, 1991

ENGINEERING REPORT

TRINITY BROADCASTING OF DENVER, INC.

PROPOSED TELEVISION TRANSLATOR K57BT  
CHANNEL 57 - DENVER, COLORADO

APRIL, 1991

CONTENTS

- EXHIBIT A Engineering Statement
  - EXHIBIT B Terrain and Contour Data
  - EXHIBIT C Predicted Service Contours
  - EXHIBIT D Allocation Study Data
- FCC FORM 346, Section II

SMITH AND POWSTENKO • BROADCASTING AND TELECOMMUNICATIONS CONSULTANTS

SUITE 600 • 2033 M STREET, NORTHWEST • WASHINGTON, D.C. 20036 • (202) 293-7742

570070

## ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING OF DENVER, INC., licensee of Television Translator K57BT, Channel 57, Denver, Colorado, in support of its Application for Construction Permit to make "major" changes in its parameters. It is proposed to change antenna make and model and alter the effective radiated power. No change in transmitter site or antenna/supporting structure height is proposed.

Exhibit B is a tabulation of terrain and contour data for the proposed facility. Exhibit C is a map upon which the proposed contours have been plotted. Exhibit D is a computerized allocation study which was used to determine that the proposed operation will not cause calculated interference to any authorized or proposed television service, except in the following instances.

The proposed K57BT facility causes calculated interference to K57AA, Estes Park, Colorado; K57FF, Greeley, Colorado; and K57BY, Cripple Creek, Colorado. The K57BT proposal has been designed such that no increase in predicted interference to these facilities would result from a grant of the instant application. In fact, predicted interference along a majority of these azimuths will actually be reduced by the proposed operation of K57BT. Further, K57BT has secured agreements from K57AA and K57BY to operate with offset designations opposite to that proposed herein if necessary. Should the Commission determine that such offset specifications

570071

EXHIBIT A

are required in order to grant the instant application, the operations of K57AA and K57BY will be modified to specify "plus" and "minus" offsets, respectively.

With regard to KUBD(TV), Channel 59, Denver, §74.705(b)(5) of the Rules states that a translator proposing operation on a channel second-adjacent to that of a full-power facility must be located at least 32 kilometers from a full-power station. The site of K57BT is located 31.9 kilometers from that of KUBD. When this distance is rounded, K57BT is *not* short-spaced to KUBD. However, should the Commission conclude otherwise, a waiver of this section of the Rules is requested, and, if necessary, we will provide an intermodulation study between the two facilities.

Concerning K49CE, which has a Construction Permit to operate on Channel 43 from the licensed K57BT site, no interference to this facility is predicted for the following reasons.

Although K57BT has been operating for many years with its present facility (17.2 kw with a Scala 4DR-16-2HW antenna oriented at 90° T), there are a few azimuths at which the newly proposed ERP exceeds that licensed, especially in the pattern null. However, since K49CE proposes to operate with an ERP of 30.3 kw (with a Bogner B16UC oriented at 90° T) from a site colocated with K57BT, and since the desired/undesired signal ratio for a station operating 14 channels above the affected translator is +23 db, there is no azimuth along which the proposed K57BT operation causes calculated interference to proposed K49CE. In other words, there are no azimuths along which the signal of proposed K57BT is 23 db stronger than that

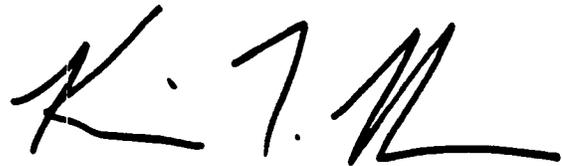
570072

proposed by K49CE. Therefore, a waiver of §74.707(d)(6) of the Commission's interference Rules is requested and believed justified.

Since no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application.

Now that the FCC considers the purported biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to the instant proposal. Employing the methods set forth in *OST Bulletin No. 65*, we considered an effective radiated power of 11.8 kw (average visual ERP plus aural ERP [assumed to be 20 percent of peak visual ERP]), an effective antenna height of 18 meters above ground, and an antenna vertical relative field value of 10 percent at the steeper vertical angles, and we calculated the maximum ground-level power density to be 0.012 mw/cm<sup>2</sup> at the base of the building. Since this is less than one percent of the 2.4 mw/cm<sup>2</sup> allowable radiation for a facility operating on Channel 57 (728-734 MHz), a grant of this proposal would clearly qualify as a minor environmental action with respect to non-ionizing electromagnetic radiation.

I declare under penalty of perjury that the foregoing statements and the attached Engineering Report, which was prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

April 29, 1991

570073

TERRAIN AND CONTOUR DATA  
 TRINITY BROADCASTING OF DENVER, INC.  
 PROPOSED TELEVISION TRANSLATOR K57BT  
 CHANNEL 57 - DENVER, COLORADO

Azimuth (° T)	Avg. Elev. 2 to 10 Miles* (feet AMSL)	Effective Antenna Height (feet AAT)	Main- Lobe ERP (dbk)	Mileage to Predicted Contour	
				74 db $\mu$	64 db $\mu$
0	6076	1257	10.1	17.5	26.8
45	5624	1709	12.9	22.6	32.6
90	5617	1716	12.9	22.7	32.7
135	5896	1437	12.9	21.0	30.8
180	7133	200	10.1	7.1	13.1
225	7480	-147	-0.2	2.8	4.9
270	7284	49	-3.7	2.3	4.0
315	7923	-590	-0.2	2.8	4.9

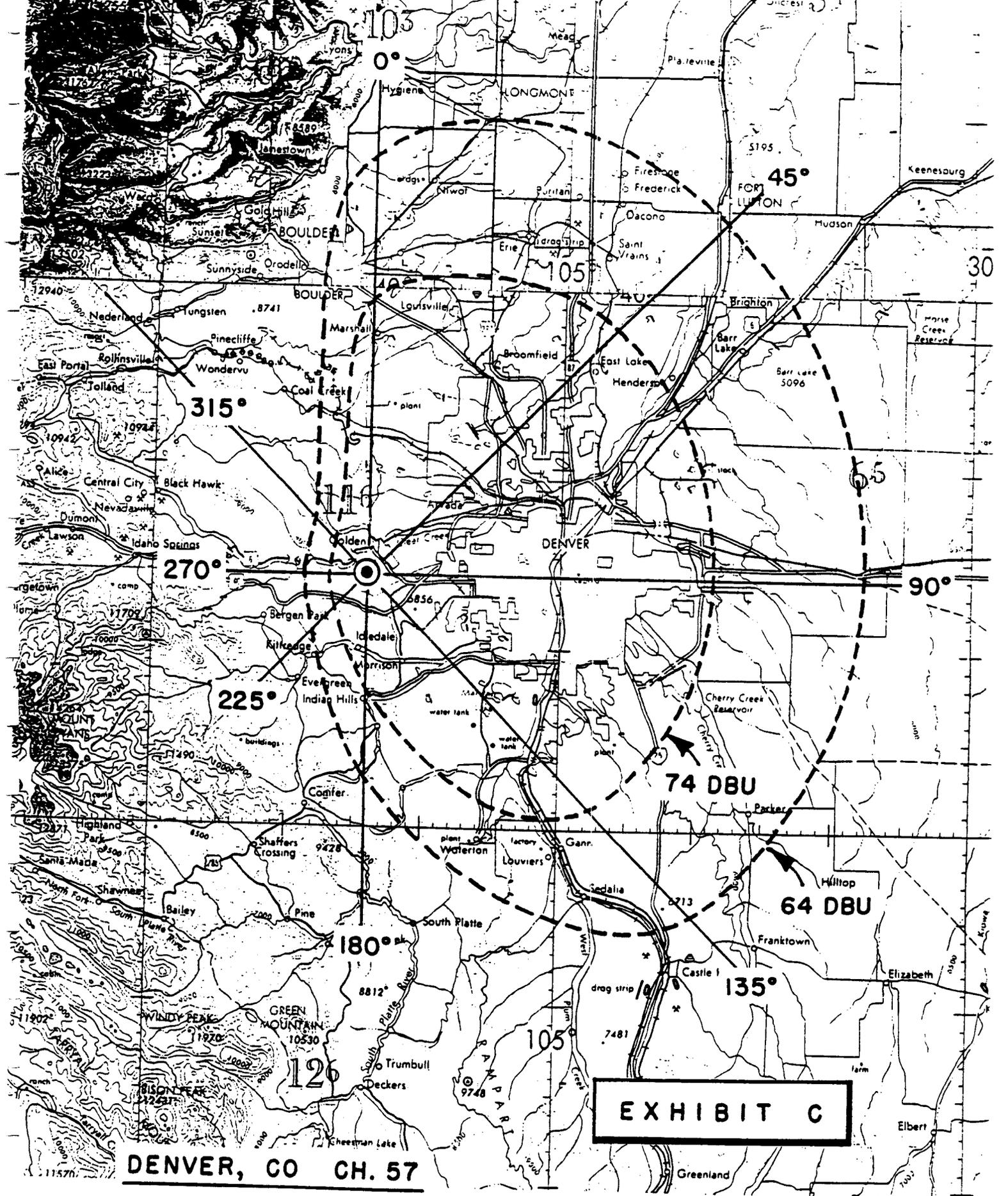
\* Determined by computer (NGDC data base)

Antenna radiation center above mean sea level	7333 feet
Effective radiated power (main lobe)	19.6 kw
Antenna make and model	Andrew ALP16L2-HSER-57
Orientation	90° T

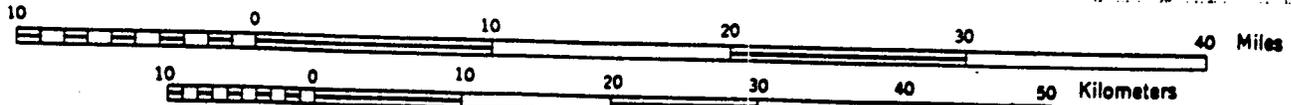
Geographic Coordinates

North latitude: 39° 43' 59"  
 West longitude: 105° 14' 12"

570074



DENVER, CO CH. 57



370075

Detailed LPTV/TV Translator Interference Study

Title: TRINITY/DENVER, COLORADO  
Channel: 57 + ERP: 9.4 kW  
Antenna make: Andrew  
Database: DW 04/26/91

Model: ALP16L2-HSEP

Altitude: 3947 ft  
Longitude: 105-14-1  
Reference az: 90.0 deg

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
K57BT	LIC	TRINITY BROADCASTING	57 N	17.2	700	39-43-59	.0		16.8
DENVER	CO	BLTT-811106JL	DA		7329	105-14-12	.0	-16.8	SHOP

Translator for KTVB-TV, SANTA ANA, CA; DA: Scala 4DR-32-CHW @ 90 deg;  
Proposed site within protected contour

K57AA	LIC	TRANSLATOR TELEVISION	57 N	1.27	743	40-25-13	347.1	48.67	
ESTES PARK	CO	BLTT-1485			9015	105-26-39	166.9	-45 dB U/	

--- K57AA 74 dBu ---				----- Proposed Facility -----				MAX		--- Clearance ---		
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
168.9	8.0	756.3	1.0	347.1	40.7	669.2	5.2	43.2	-9.0	-14.2	-5.1	-38.0
176.9	8.5	839.9	1.0	345.0	40.4	563.0	4.9	41.9	-7.9	-12.9	-4.7	-35.0
186.9	7.4	635.9	1.0	343.6	41.8	490.8	4.7	40.0	-6.3	-11.0	-4.4	-31.0
196.9	6.5	477.2	1.0	342.8	43.2	439.6	4.6	38.6	-5.0	-9.6	-4.1	-28.0
206.9	7.7	683.8	1.0	340.5	43.1	300.7	4.3	36.6	-3.3	-7.6	-3.5	-22.0
216.9	8.5	850.7	1.0	338.5	43.7	237.0	3.9	35.1	-2.1	-6.1	-2.7	-18.0
226.9	9.3	984.1	1.0	336.7	44.8	184.9	3.6	33.6	-.9	-4.6	-1.8	-14.0
236.9	10.0	1117.2	1.0	335.4	46.2	124.2	3.4	32.0	.4	-3.0	-.3	-9.0
246.9	13.7	2180.0	1.0	3.2	48.2	1328.5	7.3	47.8	-11.5	-18.8	-7.2	-50.0
256.9	12.7	1785.8	1.0	2.1	45.9	1307.8	7.2	48.9	-12.7	-19.9	-7.1	-52.0
266.9	12.9	1858.4	1.0	1.8	43.7	1301.5	7.1	50.2	-14.1	-21.2	-7.1	-54.0
276.9	12.1	1613.6	1.0	.0	41.9	1256.6	6.9	50.8	-14.9	-21.8	-6.9	-54.0
286.9	11.9	1554.1	1.0	358.0	40.3	1210.6	6.7	51.2	-15.5	-22.2	-6.7	-54.0
296.9	10.7	1270.7	1.0	354.8	39.8	1130.9	6.3	50.3	-15.0	-21.3	-6.2	-51.0
306.9	8.6	869.6	1.0	351.2	40.7	944.4	5.8	47.1	-12.3	-18.1	-5.7	-45.0
316.9	8.5	847.5	1.0	349.2	40.3	798.3	5.5	45.3	-10.8	-16.3	-5.4	-42.0

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
NEW-T	APP	J.B. VAN DE SANDE	57 N	31.8	336	40-24-19	22.5	50.27	
GREELEY	CO	BPTTL-890310J7	DA		5177	104-52-14	202.7	-45 dB U/D	

Tendered per FCC release #14454 dated 05/03/89; DA: Scala CL-1483 @ 90 deg

--- NEW-T 74 dBu ---				----- Proposed Facility -----				MAX		--- Clearance ---		
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
202.7	1.1	312.5	-25.0	22.5	49.2	1445.3	8.8	49.7	-11.8	-20.7	-8.8	-56.8
212.7	1.1	308.4	-25.0	22.3	49.2	1441.7	8.8	49.6	-11.8	-20.6	-8.8	-56.7
222.7	1.1	290.4	-25.0	22.1	49.3	1438.4	8.8	49.5	-11.7	-20.5	-8.8	-56.5
232.7	.1	241.2	-25.0	22.5	50.2	1444.5	8.8	49.2	-11.3	-20.2	-8.8	-55.8
242.7	.1	210.0	-25.0	22.4	50.2	1444.3	8.8	49.1	-11.3	-20.1	-8.8	-55.8
252.7	.1	241.9	-25.0	22.4	50.2	1444.1	8.8	49.1	-11.3	-20.1	-8.8	-55.7
262.7	1.0	276.4	-25.0	21.5	49.8	1430.1	8.8	49.2	-11.4	-20.2	-8.7	-55.8
272.7	.1	223.9	-25.0	22.4	50.2	1443.8	8.8	49.1	-11.3	-20.1	-8.8	-55.7
282.7	.1	201.0	-25.0	22.4	50.3	1443.7	8.8	49.1	-11.3	-20.1	-8.8	-55.7

April 29, 199

Detailed LPTV-TV Translator Interference Study

Title: TRINITY DENVER, COLORADO  
Channel: 57 ERP: 9.4 kW

Latitude: 39-43-5  
Longitude: 105-14-1

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone (kW)	HAMSL	Longitude	-from (mi)	(mi)	(mi)	(mi)
NEW-T	APP	J.B. VAN DE SANDE	57 N	31.8	336	40-24-19	22.5	50.27	
GREELEY	CO	BPTTL-890310J7	DA	5177	104-52-14	202.7	-45 dB U/		

Tendered per FCC release #14454 dated 05/03/89; DA: Scala CL-1483 @ 90 deg

--- NEW-T 74 dBu ---				Proposed Facility				MAX		--- Clearance ---		
Bear. (deg)	Dist. (mi)	HAAT (ft)	ERP (dBk)	Bear. (deg)	Dist. (mi)	HAAT (ft)	ERP (dBk)	Field (dBu)	ERP (dBk)	Field (dB)	ERP (dBk)	Dist. (mi)
292.7	.1	193.6	-25.0	22.4	50.31443.7	8.8	49.1	-11.3	-20.1	-8.8	-55.7	
302.7	.1	241.9	-25.0	22.4	50.31443.7	8.8	49.1	-11.3	-20.1	-8.8	-55.7	
312.7	1.0	283.8	-25.0	21.4	50.61429.1	8.8	48.8	-11.0	-19.8	-8.7	-54.8	
322.7	1.1	363.3	-25.0	21.4	50.91429.0	8.8	48.7	-10.9	-19.7	-8.7	-54.8	
102.7	12.3	353.5	14.1	35.5	53.81645.4	9.5	49.4	-11.0	-20.4	-9.4	-57.2	
112.7	11.5	383.9	12.3	35.4	51.61644.0	9.5	50.4	-12.0	-21.4	-9.4	-59.5	
122.7	9.2	383.9	9.0	33.0	49.51614.3	9.4	51.1	-12.8	-22.1	-9.3	-60.7	
132.7	6.2	383.9	2.1	29.4	48.51555.3	9.2	51.1	-12.9	-22.1	-9.2	-60.6	
142.7	2.6	383.9	-13.0	25.1	49.01485.1	9.0	50.1	-12.2	-21.1	-8.9	-58.1	
152.7	1.2	388.0	-25.0	23.5	49.51460.5	8.9	49.6	-11.8	-20.6	-8.8	-56.9	
162.7	1.2	384.7	-25.0	23.4	49.41458.4	8.9	49.7	-11.8	-20.7	-8.8	-57.0	
172.7	1.2	374.0	-25.0	23.2	49.31455.8	8.9	49.7	-11.8	-20.7	-8.8	-57.0	
182.7	1.1	346.2	-25.0	23.0	49.21452.7	8.9	49.7	-11.9	-20.7	-8.8	-57.0	
192.7	1.1	311.7	-25.0	22.7	49.21448.9	8.8	49.7	-11.8	-20.7	-8.8	-56.9	

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone (kW)	HAMSL	Longitude	-from (mi)	(mi)	(mi)	(mi)
K57FF	CP	J.B. VAN DE SANDE	57 N	38.1	338	40-24-19	22.5	50.27	
GREELEY	CO	BPTTL-891208H6	DA	5177	104-52-14	202.7	-45 dB U/D		

CP Granted 06/19/90 per FCC release #20890 dated 06/25/90;  
DA: Scala CL-1483 @ 90 deg

--- K57FF 74 dBu ---				Proposed Facility				MAX		--- Clearance ---		
Bear. (deg)	Dist. (mi)	HAAT (ft)	ERP (dBk)	Bear. (deg)	Dist. (mi)	HAAT (ft)	ERP (dBk)	Field (dBu)	ERP (dBk)	Field (dB)	ERP (dBk)	Dist. (mi)
202.7	1.2	312.5	-24.2	22.5	49.11445.3	8.8	49.7	-11.9	-20.7	-8.8	-56.9	
212.7	1.2	308.4	-24.2	22.3	49.11441.5	8.8	49.6	-11.8	-20.6	-8.8	-56.7	
222.7	1.1	290.4	-24.2	22.1	49.21437.9	8.8	49.6	-11.8	-20.6	-8.8	-56.6	
232.7	1.0	241.2	-24.2	21.9	49.41435.7	8.8	49.5	-11.7	-20.5	-8.8	-56.3	
242.7	.1	210.0	-24.2	22.4	50.21444.1	8.8	49.2	-11.3	-20.2	-8.8	-56.3	
252.7	1.1	241.9	-24.2	21.6	49.61431.5	8.8	49.3	-11.5	-20.3	-8.7	-56.0	
262.7	1.1	276.4	-24.2	21.4	49.71429.2	8.8	49.2	-11.4	-20.2	-8.7	-55.8	
272.7	1.0	223.9	-24.2	21.4	49.91429.3	8.8	49.1	-11.4	-20.1	-8.7	-55.6	
282.7	.1	201.0	-24.2	22.4	50.31443.4	8.8	49.1	-11.3	-20.1	-8.8	-55.7	
292.7	.1	193.6	-24.2	22.4	50.31443.4	8.8	49.1	-11.3	-20.1	-8.8	-55.7	
302.7	1.1	241.9	-24.2	21.3	50.51428.3	8.8	48.9	-11.1	-19.9	-8.7	-55.0	
312.7	1.1	283.8	-24.2	21.3	50.71428.1	8.8	48.8	-11.0	-19.8	-8.7	-54.8	
322.7	1.2	363.3	-24.2	21.3	50.91428.0	8.8	48.7	-10.9	-19.7	-8.7	-54.5	
102.7	12.9	353.5	14.9	36.1	54.11651.1	9.5	49.4	-10.9	-20.4	-9.4	-57.2	
112.7	12.1	383.9	13.1	36.0	51.71650.2	9.5	50.4	-12.0	-21.4	-9.4	-59.5	
122.7	9.7	383.9	9.8	33.6	49.61621.9	9.4	51.2	-12.8	-22.2	-9.4	-61.0	

5-0077

April 29, 1991

Detailed LPTV-TV Translator Interference Study

Title: TRINITY/DENVER, COLORADO  
Channel: 57 + ERP: 9.4 kW

Latitude: 39-43-5  
Longitude: 105-14-1

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
K57FF	CO	J.B. VAN DE SANDE	57 N	38.1	338	40-24-19	22.5	50.27	
GREELEY	CO	BPTTL-891208H6	DA	5177	104	52-14	202.7	-45 dB U	

CP Granted 06/19/90 per FCC release #20890 dated 06/25/90;  
DA: Scala CL-1483 @ 90 deg

--- K57FF 74 dBu ---				----- Proposed Facility -----				MAX		--- Clearance ---		
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
132.7	6.5	383.9	2.9	29.7	48.5	1560.6	9.2	51.2	-13.0	-22.2	-9.2	-60.0
142.7	2.7	383.9	-12.2	25.3	49.0	1487.2	9.0	50.2	-12.2	-21.2	-9.0	-58.0
152.7	1.3	388.0	-24.2	23.6	49.5	1461.5	8.9	49.7	-11.8	-20.7	-8.9	-57.0
162.7	1.2	384.7	-24.2	23.4	49.3	1459.2	8.9	49.7	-11.8	-20.7	-8.9	-57.0
172.7	1.2	374.0	-24.2	23.2	49.2	1456.4	8.9	49.8	-11.9	-20.8	-8.8	-57.0
182.7	1.2	346.2	-24.2	23.0	49.1	1453.2	8.9	49.8	-11.9	-20.8	-8.8	-57.0
192.7	1.2	311.7	-24.2	22.7	49.1	1449.2	8.8	49.7	-11.9	-20.7	-8.8	-57.0

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
K57BY	CO	LIC CRIPPLE CRK.MTN.ESTAT	57 N	.14	935	38-44-48	177.3	68.12	
CRIPPLE CREEK, E	CO	BLTT-850722IF	DA	10219	105-10-41	357.4	-45 dB U/I		

Translator for KMGH-TV, DENVER, CO; DA: Scala 4DR-85 @ 22 deg

--- K57BY 74 dBu ---				----- Proposed Facility -----				MAX		--- Clearance ---		
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
357.4	4.3	788.4	-9.8	177.3	63.8	275.1	7.2	32.3	4.0	-3.3	-4.4	-10.7
7.4	4.5	750.8	-9.0	176.6	63.7	296.9	7.3	32.6	3.7	-3.6	-4.8	-11.8
17.4	2.7	244.8	-8.6	176.5	65.6	300.6	7.3	32.1	4.2	-3.1	-4.4	-10.1
27.4	1.8	223.4	-8.6	176.6	66.6	299.1	7.3	31.8	4.5	-2.8	-4.0	-9.0
37.4	1.7	882.8	-9.0	176.4	66.8	305.6	7.3	31.8	4.5	-2.8	-4.1	-9.1
47.4	1.7	997.6	-9.8	176.3	67.0	310.0	7.3	31.8	4.5	-2.8	-4.1	-9.0
57.4	1.6	818.7	-11.1	176.2	67.3	312.0	7.3	31.7	4.6	-2.7	-4.0	-8.8
327.4	3.5	1548.8	-15.7	178.9	65.1	226.7	7.1	31.1	5.0	-2.1	-2.8	-6.9
337.4	4.2	1304.3	-13.0	178.6	64.2	235.6	7.1	31.5	4.6	-2.5	-3.5	-8.3
347.4	4.5	1080.4	-11.0	178.0	63.7	254.3	7.1	31.9	4.2	-2.9	-4.1	-9.7

Detailed LPTV-TV Translator Interference Study

Title: TRINITY-DENVER, COLORADO  
Channel: 57 + ERP: 9.4 kW

Latitude: 39-41.1  
Longitude: 105-11.1

Call	Auth Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req
City of License	St FCC File No.	Zone	(kW)	HAMSL	Longitude	-from (mi)	(mi)	(mi)
K570Y	LIC FREMONT SCHOOL DISTRI	57 N	.013	-551	38-22-30	195.0	96.93	
	CO BLTT-860218ID	DA	7306	105-41-58	14.7	-45 dB U/I		
Translator for KTSC, PUEBLO, CO; DA: Scala 4DR-85 @ 65 deg								

--- K570Y 74 dBu ---			----- Proposed Facility -----					MAX	--- Clearance ---			
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
14.7	.1	780.8	-24.8	195.0	96.8	-140.1	5.0	17.8	16.1	11.2	15.8	37.0
24.7	.2	672.5	-22.3	195.0	96.8	-139.6	5.0	17.9	16.1	11.1	15.7	37.0
34.7	.2	502.8	-20.7	194.9	96.7	-138.7	5.0	17.9	16.1	11.1	15.7	37.0
44.7	.3	44.1	-19.7	194.9	96.7	-137.5	5.0	17.9	16.1	11.1	15.7	37.0
54.7	1.7	314.0	-19.1	194.3	95.7	-121.3	5.0	18.3	15.8	10.7	15.4	36.0
64.7	2.3	263.1	-18.9	193.9	95.5	-109.5	5.1	18.4	15.7	10.6	15.3	35.0
4.7	.0	849.3	-28.1	195.0	96.9	-140.2	5.0	17.8	16.1	11.2	15.8	37.0

Call	Auth Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req
City of License	St FCC File No.	Zone	(kW)	HAMSL	Longitude	-from (mi)	(mi)	(mi)
K570S	LIC GUNNISON CNTY METRO R	57 N	.94	1489	38-29-56	214.7	103.3	
	CO BLTT-890227ID	DA	11912	106-19-28	34.0	-45 dB U/I		
Translator for KUSA-TV, DENVER, CO; License Granted 03/30/89; DA: Scala PR-450U @ 255 deg								

--- K570S 74 dBu ---			----- Proposed Facility -----					MAX	--- Clearance ---			
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
34.0	1.6	937.7	-23.9	214.7	101.7	70.3	1.0	12.5	17.5	16.5	17.4	54.0
44.0	.02	13.0	-31.0	214.7	103.2	70.4	1.0	12.1	17.9	16.9	17.8	56.0
54.0	.02	530.3	-32.3	214.7	103.3	70.4	1.0	12.1	17.9	16.9	17.8	56.4
64.0	.02	607.7	-32.3	214.7	103.3	70.4	1.0	12.1	17.9	16.9	17.8	56.4
74.0	.02	217.2	-32.3	214.7	103.3	70.4	1.0	12.1	17.9	16.9	17.8	56.4
84.0	.02	049.2	-30.9	214.7	103.3	70.5	1.0	12.1	17.9	16.9	17.8	56.4
94.0	.01	810.6	-28.4	214.7	103.3	70.7	1.0	12.1	17.9	16.9	17.8	56.4
104.0	.01	277.9	-28.2	214.7	103.3	70.7	1.0	12.1	17.9	16.9	17.8	56.4
114.0	1.6	885.7	-23.7	213.9	103.0	83.0	1.2	12.4	17.8	16.6	17.7	56.4
264.0	11.7	2349.5	-1.9	219.4	111.2	-46.3	-.7	8.2	20.1	20.8	20.1	69.4
274.0	7.7	2345.2	-7.4	218.3	107.4	-20.9	-.3	9.7	19.1	19.3	19.0	64.3
284.0	3.9	2135.4	-15.4	216.7	104.7	21.1	.3	11.0	18.3	18.0	18.2	59.9
294.0	2.3	1810.0	-20.6	216.0	103.7	40.1	.5	11.5	18.0	17.5	18.0	58.2
304.0	1.7	1268.4	-23.1	215.7	103.3	48.1	.6	11.7	17.9	17.3	17.8	57.4
314.0	1.5	894.7	-23.9	215.6	103.0	51.1	.7	11.8	17.8	17.2	17.8	57.1
324.0	1.3	541.1	-24.6	215.4	102.8	55.3	.7	11.9	17.8	17.1	17.7	56.7
334.0	1.3	518.3	-24.7	215.3	102.6	56.9	.8	12.0	17.7	17.0	17.7	56.5
344.0	.1	-202.7	-24.7	214.8	103.2	69.7	1.0	12.1	17.9	16.9	17.8	56.4
354.0	.1	128.8	-23.5	214.8	103.2	69.6	.9	12.1	17.9	16.9	17.8	56.4
4.0	1.3	322.8	-23.4	215.1	102.2	63.9	.8	12.2	17.6	16.8	17.5	55.7
14.0	1.4	384.3	-22.8	215.0	102.0	66.0	.9	12.3	17.6	16.7	17.5	55.4
24.0	1.4	450.3	-22.8	214.9	101.9	68.1	.9	12.4	17.5	16.6	17.4	55.2

April 29, 1988

Detailed FM-TV Translator Interference Study

Title: TRINITY-DENVER, COLORADO  
Channel: 57 ERP: -15.4 dB

Latitude: 39 41.5  
Longitude: 105 11.1

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from (mi)	(mi)	(mi)
K57AF	LIC	LARAMIE PLAINS ANTENN	57 N	5.04	801	41-14-16	353.5	104.5	
LARAMIE	WY	BLTT-1627	DA		8733	105-27-48	173.4	-45 dB U	

DA: Scala PR-450U @ 285 deg

--- K57AF 74 dBu ---				----- Proposed Facility -----				MAX		--- Clearance ---		
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
173.4	2.4	479.7	-15.5	353.5	102.1	1082.9	6.1	25.6	9.5	3.4	6.8	12.1
183.4	2.3	508.4	-16.5	353.3	102.3	1072.0	6.1	25.5	9.6	3.5	6.8	12.1
193.4	2.5	724.9	-17.3	353.1	102.2	1059.7	6.1	25.4	9.6	3.6	7.0	12.1
203.4	2.6	909.4	-17.4	352.8	102.2	1045.4	6.0	25.3	9.7	3.6	7.1	12.1
213.4	2.7	1023.5	-17.4	352.6	102.4	1032.0	6.0	25.1	9.9	3.7	7.3	13.1
223.4	2.8	1127.9	-17.4	352.3	102.7	1020.0	6.0	24.9	10.0	3.7	7.3	13.1
233.4	2.8	1200.1	-17.4	352.2	103.1	1010.5	5.9	24.7	10.2	4.1	7.9	14.5
243.4	3.7	1254.6	-14.4	351.6	103.3	972.7	5.9	24.3	10.5	4.3	8.2	15.1
253.4	5.6	1293.9	-8.6	350.5	103.7	890.9	5.7	23.5	11.2	4.7	8.7	16.3
263.4	9.8	1339.9	-6.6	348.2	105.0	730.3	5.4	21.7	12.7	5.5	9.8	18.9
273.4	13.7	1369.4	4.6	346.3	107.8	626.4	5.1	20.0	14.2	7.3	11.8	24.4
283.4	15.6	1392.4	6.9	345.9	110.8	604.8	5.1	18.9	15.2	9.0	13.6	30.1
63.4	2.5	669.9	-16.5	354.8	105.4	1133.0	6.3	25.0	10.3	10.1	14.8	33.6
73.4	1.6	705.4	-23.0	354.4	104.8	1118.4	6.2	25.1	10.3	4.0	8.0	13.7
83.4	1.3	626.1	-25.0	354.3	104.5	1113.9	6.2	25.1	10.2	3.9	7.9	13.6
93.4	1.3	581.4	-25.0	354.2	104.3	1113.3	6.2	25.1	10.1	3.9	7.8	13.5
103.4	1.3	563.0	-25.0	354.2	104.1	1112.1	6.2	25.2	10.0	3.8	7.7	13.3
113.4	1.4	576.1	-23.7	354.2	103.8	1113.0	6.2	25.3	10.0	3.7	7.6	13.1
123.4	1.7	508.5	-21.3	354.2	103.5	1113.5	6.2	25.4	9.9	3.6	7.4	12.8
133.4	1.7	541.5	-20.9	354.2	103.2	1110.7	6.2	25.5	9.7	3.5	7.2	12.4
143.4	2.2	473.9	-16.7	354.1	102.6	1110.6	6.2	25.5	9.7	3.5	7.1	12.3
153.4	2.1	387.1	-16.1	353.9	102.5	1102.9	6.2	25.7	9.5	3.3	6.7	11.7
163.4	2.3	458.6	-15.6	353.8	102.2	1094.2	6.1	25.7	9.4	3.3	6.7	11.8

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from (mi)	(mi)	(mi)
K57CR	LIC	PIKES PEAK BROADCASTI	57 N	3.38	1071	39-32-10	265.5	145.3	
RIFLE, ETC.	CO	BLTTL-880525IN			8152	107-56-56	83.7	-45 dB U/D	

Translator for KJCT, GRAND JUNCTION, CO;  
License Granted 07/29/88 per FCC release #20372 dated 08/05/88

--- K57CR 74 dBu ---				----- Proposed Facility -----				MAX		--- Clearance ---		
Bear.	Dist.	HAAT	ERP	Bear.	Dist.	HAAT	ERP	Field	ERP	Field	ERP	Dist.
(deg)	(mi)	(ft)	(dBk)	(deg)	(mi)	(ft)	(dBk)	(dBu)	(dBk)	(dB)	(dBk)	(mi)
83.7	17.6	2319.5	5.3	265.5	127.7	-134.5	-7.2	-2.6	24.4	31.6	24.4	99.9
93.7	18.3	2565.6	5.3	264.0	127.3	-134.5	-7.3	-2.6	24.3	31.6	24.3	99.6
103.7	18.0	2454.9	5.3	262.7	128.5	-146.1	-7.4	-3.0	24.6	32.0	24.6	101.0
113.7	17.4	2249.9	5.3	261.7	130.5	-156.6	-7.5	-3.6	25.1	32.6	25.1	103.1
123.7	16.9	2082.5	5.3	260.8	132.8	-173.1	-7.5	-4.3	25.8	33.3	25.8	105.5
133.7	16.7	2030.8	5.3	260.0	135.1	-193.0	-7.6	-5.0	26.4	34.0	26.4	108.0
143.7	15.6	1683.9	5.3	259.8	138.1	-199.4	-7.7	-6.0	27.3	35.0	27.3	111.1

570080

April 29, 1990

Detailed LPTV/TV Translator (Interference Study)

Title: TRINITY/DENVER, COLORADO  
Channel: 59 PAR ERP: 9.4 kW

Call Sign: K49CE  
Frequency: 155.14 MHz

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
KUDB	CO	LIC DENVER CHANNEL 59 PAR	59	9.4	316	39-40-31	101.5	10.80	19.8
DENVER	CO	BLCT-870914KE	II	DA	5838	104-52-22	261.5	10.09	SHOP
License Granted 02/29/88									

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
K64AQ	CO	LIC GUNNISON CNTY METRO R	64	4.60	2208	39-02-57	197.4	40.44	
HARTSEL, ETC.	CO	BLTT-2047		DA	11305	105-30-45	17.0	0	DB U/
Translator for KUSA-TV, DENVER, CO; DA: Scala PR-450U @ 228 deg									

--- K64AQ 74 dBu ---			Proposed Facility			MAX		--- Clearance ---		
Bear. Dist. (deg)	HAAT (ft)	ERP (dBk)	Bear. Dist. (deg)	HAAT (ft)	ERP (dBk)	Field (dBu)	ERP (dBk)	Field (dB)	ERP (dBk)	Dist. (mi)
17.2	1.62372.4	-24.4	197.4	47.8-181.8	4.6	18.3	60.3	55.7	60.3	44.0
27.2	1.51968.4	-25.4	197.1	48.0-180.8	4.6	18.3	60.4	55.7	60.4	44.0
37.2	1.52168.3	-25.4	196.8	48.1-177.8	4.7	18.3	60.4	55.7	60.4	44.0
47.2	1.52026.5	-25.4	196.5	48.2-174.3	4.7	18.3	60.4	55.7	60.4	44.0
57.2	1.72461.5	-23.9	196.1	48.1-168.5	4.8	18.4	60.4	55.6	60.4	44.0
67.2	2.22735.6	-21.5	195.4	48.1-151.7	4.9	18.5	60.4	55.5	60.4	44.0
77.2	2.22790.8	-21.3	195.1	48.4-143.8	4.9	18.5	60.5	55.5	60.5	44.0
87.2	3.62777.1	-16.8	193.4	48.3 -98.6	5.2	18.7	60.5	55.3	60.5	44.0
97.2	3.72813.5	-16.5	193.2	48.9 -92.5	5.2	18.5	60.7	55.5	60.7	45.0
107.2	3.92852.5	-15.9	192.9	49.6 -87.5	5.2	18.4	60.9	55.6	60.9	45.0
237.2	17.72473.8	4.9	207.6	64.1 13.7	2.8	11.7	65.2	62.3	65.2	60.0
247.2	13.12514.9	-7	207.2	58.7 2.6	2.9	13.4	63.5	60.6	63.5	55.0
257.2	7.02439.5	-8.8	204.0	53.3 -69.9	3.5	15.6	62.0	58.4	62.0	49.0
267.2	4.52373.8	-13.9	202.2	51.2-123.5	3.8	16.5	61.3	57.5	61.3	47.0
277.2	3.62285.3	-16.3	201.5	50.2-134.9	4.0	16.9	61.1	57.1	61.1	46.0
287.2	3.32197.7	-17.1	201.3	49.6-137.6	4.0	17.1	60.9	56.9	60.9	46.0
297.2	3.11935.9	-17.8	200.9	49.0-141.9	4.0	17.4	60.7	56.6	60.7	45.0
307.2	2.91564.4	-17.8	200.6	48.5-145.9	4.1	17.6	60.5	56.4	60.5	44.0
317.2	2.71056.4	-17.8	200.1	48.2-152.4	4.2	17.8	60.4	56.2	60.4	44.0
327.2	3.01141.0	-16.6	200.2	47.6-152.2	4.2	18.0	60.2	56.0	60.2	44.0
337.2	3.11247.5	-16.5	199.8	47.1-157.8	4.2	18.2	60.0	55.8	60.0	43.0
347.2	3.51674.2	-15.9	199.6	46.4-162.4	4.3	18.5	59.8	55.5	59.8	42.0
357.2	3.72051.7	-15.9	199.0	46.0-174.1	4.4	18.8	59.6	55.2	59.6	42.0
7.2	3.42229.9	-17.0	198.1	46.1-182.5	4.5	18.9	59.6	55.1	59.6	42.0

Call	Auth	Licensee name	Chan	ERP	HAAT-ft	Latitude	BR-to	Dist.	Req.
City of License	St	FCC File No.	Zone	(kW)	HAMSL	Longitude	-from	(mi)	(mi)
K49CE	CO	LOMAS DE ORO BROADCAST	43 +	30.3	814	39-43-59	.0	21.60	
DENVER	CO	BPTTL-900406IA			7316	105-14-12	.0	-21.6	SHORT
[FROM CHANNEL 49]; CP Granted 12/20/90 per FCC release #21017 dated 12/26/90;									
Accepted and Grantable per 6L90-5 dated 10/25/90;									
Proposed site within protected contour									

570031

1. Facilities requested:

Output Channel No.	Transmitter Rated Power Output	Proposed Community(ies) to be served	
57	1.0 kilowatts	City Denver	State Colo.

Frequency Offset (check one)

No offset       Zero offset       Plus offset       Minus offset

Translator Input Channel No. Satcom 3R - Transponder 3

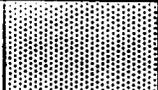
2. Proposed transmitting antenna location:

City near Golden	State Colorado	County Jefferson
Address or other description of location: On side of existing tower, atop Lookout Mountain (no change from BLTTL-811106JL)		Geographical coordinates of transmitting antenna to nearest second  North Latitude      West Longitude 39 °    43 '    59 "      105 °    14 '    12 "

Attach as an Exhibit a map or maps (preferably topographic, if obtainable, such as Geological Survey quadrangles) of the area of the proposed transmitting antenna location shown drawn thereon the following data:

Exhibit No.  
\*

- a. Scale of kilometers \*On file; no change (BLTTL-811106JL)  
b. Proposed transmitting antenna location accurately plotted.

3. Transmitter:	Make ITS	Type No. 230		Output Power P 1.0 kilowatts
4. Transmission line:	Andrew	HJ7-50A	Length 200 feet	Rated efficiency E for length given (decimal fraction) 0.764

5. Transmitting antenna     Directional "off-the-shelf"       Directional Composite (Multiple Antennas)       Non-Directional

Manufacturer Andrew		Model ALP16L2-HSER-57	Description <sup>1</sup> Slotted cylinder
Orientation of main lobe <sup>2</sup> 90° T	Overall antenna structure height above ground <sup>3</sup> 137 meters	Elevation of Site <sup>4</sup> 2217 meters	Power gain G (multiplier) in the horizontal lobe of maximum radiation relative to a halfwave dipole <sup>5</sup> 6.41 (with 1.6 degrees beam tilt)

Effective radiated power (ERP)  
(ERP=P X E X G) 4.9 kilowatts

Height of antenna radiation center above ground 18 meters  
Height of antenna radiation center above above mean sea level 2235 meters<sup>6</sup>

- 1 Give basic type using general descriptive terms such as half-wave dipole, "bow-tie" with screen, corner reflector, 10 element Yagi, 4 element in-phase array, two stacked 5 element Yagis, etc.
- 2 For directional antennas in the horizontal plane show the direction of the main radiation lobe(s) in degrees with respect to true north in a 360 degree horizontal azimuth, numbered clockwise, with true north as zero azimuth.
- 3 Show overall height above ground in meters to topmost portion of structure, including highest top mounted antenna and beacon if any.
- 4 Show the ground elevation above mean sea level in meters at the base of the transmitting antenna supporting structure.
- 5 Give the actual power gain toward the radio horizon.
- 6 This is equal to the sum of the site elevation and the height of the antenna radiation center above ground.

6. Attach as an Exhibit a vertical plan sketch for the proposed total antenna structure, including supporting structure, giving overall height of structure in meters above ground, including lighting beacon (if any).

\*On file; no change (BLTTL-811106JL)

Exhibit No. \*  
--

7. Will the proposed antenna supporting structure be shared with an AM radio station?

Yes  No

If yes, list the call sign of that station. --

8. Attach as an Exhibit a polar diagram of the radiation pattern (relative field) in the horizontal plane of the transmitting antenna showing clearly the correct relationship between the major lobe or lobes and the minor lobes of radiation and a tabulation of the pattern at every ten degrees and all maxima and minima. Applicants proposing use of multiple transmitting antennas shall submit a composite radiation pattern. If a non-directional transmitting antenna will be employed, i.e., an antenna with an approximately circular radiation pattern, check here  and omit polar diagram and tabulation. If the antenna manufacturer and model number are on the Commission's list of common "off-the-shelf" directional antennas, check here  and omit polar diagram and tabulation.

Exhibit No. --

9. Has FAA been notified of proposed construction? No change in overall height or location of existing structure.  
If Yes, give date and office where notice was filed: \_\_\_\_\_

Yes  No

10. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq)

Would a Commission grant of this application come within 47 C.F.R. 1.1307, such that it may have a significant environmental impact, including exposure to workers or the general public to harmful nonionizing radiation levels?

Yes  No

If you answer Yes, submit as an Exhibit an Environmental Assessment as required by Section 1.1311. If no, explain briefly why not.

Exhibit No. --

Proposal is believed to comply with pertinent provisions of §1.1305, §1.1306, and §1.1307 of FCC Rules (see also Exhibit A of Engineering Report).

11. Unattended operation:

Is unattended operation proposed?

Yes  No

If Yes, and this application is for authority to construct a new station or to make changes in the facilities of an authorized station which proposes unattended operation for the first time, applicant will comply with the requirements of 47 C.F.R. Section 74.734 concerning unattended operation.

Yes  No

12. Is type approved broadcast equipment being specified?

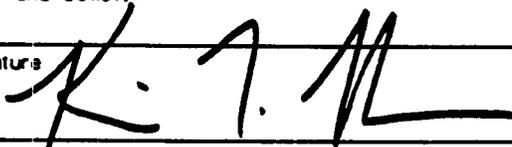
Yes  No

If No, indicate date equipment was submitted to FCC Laboratory for approval. --

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

April 29, 1991

Date

Signature	
Typed or Printed Name	KEVIN T. FISHER
Telephone No. (include area code)	(202) 293-7742

Technical Director

Registered Professional Engineer

Consulting Engineer

Chief Operator

Other (specify)

Call Sign: K57BT

Permit No.:BPTT-910503EN

This authorization includes a waiver of the application acceptance standards in Sections 74.705 or 74.707 of the Commission's Rules, as applicable, based on consideration of terrain shielding. This waiver will convey for minor changes to the facility, except for those related to channel displacement, and for assignment or transfer of the authorization. Generally, the operation of this broadcast facility may not result in prohibited electromagnetic interference. The permittee or licensee is advised that, without consideration of terrain shielding, interference was predicted to the off-air reception of the following facilities and that the permittee or licensee is responsible to eliminate objectionable interference caused to these facilities.

K57BY, Channel 57, Cripple Creek, Etc., CO.  
K57AA, Channel 57, Estes Park, CO.

570112

Justification For Non-Routine Grant

In re: Trinity Broadcasting of Denver, Inc.  
Channel 57, Denver, CO  
BPTT-910503EN

Trinity Broadcasting of Denver, Inc. ("TBD") is applying for a construction permit to modify their television translator Station on Channel 57 at Denver, CO.

TBD's proposal is predicted to cause objectionable interference to the facilities of K57BY, Cripple Creek, Etc., CO and K57AA, Estes Park, CO. This would be in violation of Section 74.707 of the Commission's Rules. TBD has requested a waiver of Section 74.707.

In support of the waiver request, TBD shows that their request meets the requirements as set forth in the Commission's Policy Statement on terrain shielding. Specifically, TBD submitted a letter of assent from station K57AA and terrain data showing the general character of the terrain between their proposal and the facilities K57BY.

Therefore, due to terrain shielding TBD is predicted not to cause interference to K57AA and K57BY.

In light of the above, the Commission finds that the requested waiver of Section 74.707 is in the public interest. Accordingly, Section 74.707 of the Commission's Rules IS HEREBY WAIVED.

<u>M.H.</u>	<u>2-17-93</u>
Engineer	date
<u>HH</u>	<u>2, 17, 93</u>
Supervisory Engineer	date
<u>K.L.</u>	<u>2-25-93</u>
Chief, LPTV Branch	date

570113

Call Sign: K57BT

Permit No.:BPTT-910503EN

This authorization includes a waiver of the application acceptance standards in Sections 74.705 or 74.707 of the Commission's Rules, as applicable, based on consideration of terrain shielding. This waiver will convey for minor changes to the facility, except for those related to channel displacement, and for assignment or transfer of the authorization. Generally, the operation of this broadcast facility may not result in prohibited electromagnetic interference. The permittee or licensee is advised that, without consideration of terrain shielding, interference was predicted to the off-air reception of the following facilities and that the permittee or licensee is responsible to eliminate objectionable interference caused to these facilities.

K57BY, Channel 57, Cripple Creek, Etc., CO.  
K57AA, Channel 57, Estes Park, CO.

570117