

MB dockets: 14-179 + RM-11736

Before The
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of)
)
Amendment of Section 73.622(i))
Post-Transition Table of Allotments)
Digital Television Broadcast Stations)
(Denver, Colorado))

MB Docket No. _____
RM- _____

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Attn: Chief, Video Division
Media Bureau

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Federal Communications Commission
Office of the Secretary

PETITION FOR RULE MAKING
TO AMEND THE POST-TRANSITION DTV TABLE OF ALLOTMENTS

Entravision Holdings, LLC ("Entravision"), the licensee of Station KCEC(TV), Denver, Colorado (the "Station"), by its attorneys and pursuant to Sections 1.401, 73.616, and 73.622(a) of the Commission's Rules,¹ hereby respectfully petitions the Commission to commence a rulemaking proceeding intended to amend Section 73.622(i), the Post-Transition DTV Table of Allotments, by substituting Channel 26 for Channel 51, as the Station's Post-Transition DTV output channel. In support thereof, Entravision states as follows.

This instant Petition is submitted in accordance with the Commission's determination that its freeze on channel changes will not apply to petitions filed by parties relocating from Channel 51 pursuant to a voluntary relocation agreement.² It also in accordance with the Commission's

¹ 47 C.F.R. §§ 1.401, 73.616, 73.622(a).

² See *General Freeze on the Filing and Processing of Applications for Channel 51 Effective Immediately and Sixty (60) Day Amendment Window for Pending Channel 51 Low Power Television, TV Translator and Class A Applications, Public Notice, 26 FCC Rcd 11409 (MB 2011)*. Licensee is entering into a voluntary relocation agreement regarding the Station with T-Mobile USA, Inc.

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recent action, in the incentive auctions proceeding, to exempt such rulemaking requests from the April 5, 2013 freeze on the filing of certain facilities modifications. *Report and Order* in GN Docket No. 12-268, FCC 14-50, released June 2, 2014.

Specifically, the Post-Transition DTV Table of Allotments would be amended as follows:

	<u>Present</u>	<u>Proposed</u>
Denver, CO	7, 9, *18, 19, 32, 34, 35, *40, 43, <u>51</u>	7, 9, *18, 19, 26 , 32 34, 35, *40, 43

The proposed amendment is in the public interest. Entravision is seeking this channel reallocation because operations on Channel 26 will serve the public in nearly the same manner as current operations on Channel 51. More importantly, the discontinuance of the Station's operations on Channel 51 will eliminate potential interference with wireless operations in the adjacent Lower 700 MHz A Block, allowing T-Mobile USA, Inc., which holds the necessary authorization, to commence operations in service to its wireless subscribers. The Commission has previously and routinely granted Petitions seeking similar relief in other markets. *See, e.g., Greenville, North Carolina*, DA 12-1208, released July 30, 2012; *Lincoln, Nebraska*, 27 FCC Rcd 433 (MB 2012); *Jackson, Mississippi*, 26 FCC Rcd 3935 (MB 2011); *See also Reallocation and Service Rules for the 698-746 MHz Spectrum Band (Television Channels 52-59)*, 17 FCC Rcd 1022, 1096, n. 549 (2002).

As the attached Technical Exhibit (Attachment A) demonstrates, the proposed facility complies with the Commission's rules for Post-Transition DTV operation. The Station's proposed service area encompasses its community of license and the proposed parameters comply with the Commission's interference standards.³ The proposed facility would serve all

³ See Attachment A, Technical Exhibit at 1-2; 47 C.F.R. §§ 73.616(b),(e), 73.623(d), 73.625(a).

viewers currently receiving digital service and, in fact, would reach slightly more viewers than the currently licensed facilities.⁴ The antenna is non-directional.

For the convenience of the Commission, we hereby provide the present and proposed parameters:

Present:

Facility ID	State and City		NTSC	DTV					
			Ch	Ch	ERP kW	HAAT (m)	Antenna ID	Latitude (DDMMSS)	Longitude (DDMMSS)
24514	CO	DENVER	--	51	900	233		39-43-58	105-14-08

Proposed:

24514	CO	DENVER	--	26	550	244		39-43-58	105-14-08
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For the foregoing reasons, Entravision respectfully requests that the Commission commence the necessary rulemaking proceeding in order to amend the Post-Transition DTV Table of Allotments as proposed herein. Adoption of the proposed change to the Table of Allotments will serve the public interest by permitting the Station to continue to serve its viewing public while allowing T-Mobile USA, Inc. to commence service to its wireless

⁴ Attachment A, Technical Exhibit at 2.

subscribers.

Respectfully submitted,

ENTRAVISION HOLDINGS, LLC



By: _____

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Dated: October 6, 2014

274629.1

ATTACHMENT A

TECHNICAL EXHIBIT
IN SUPPORT OF PETITION FOR RULEMAKING
TELEVISION STATION KCEC(TV)
DENVER, COLORADO

August 21, 2014

TECHNICAL EXHIBIT
IN SUPPORT OF PETITION FOR RULEMAKING
TELEVISION STATION KCEC(TV)
DENVER, COLORADO

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TECHNICAL EXHIBIT
IN SUPPORT OF PETITION FOR RULEMAKING
TELEVISION STATION KCEC(TV)
DENVER, COLORADO

Technical Statement

This Technical Exhibit was prepared on behalf of television broadcast station KCEC(TV), Denver, Colorado (Channel 51), in support of a Petition for Rulemaking to amend Section 73.622(i) of the FCC Rules to change the KCEC(TV) post-transition digital television channel. KCEC(TV) is an Univision network affiliated station.

KCEC(TV) is authorized for operation on Channel 51 with a maximum directional effective radiated power (ERP) of 900 kW and antenna height above average terrain (HAAT) of 232.5 m.* KCEC(TV) has entered into a voluntary agreement with the licensee of the lower 700-MHz Block A spectrum (T-Mobile) that contemplates the migration, at this time, of KCEC(TV), from Channel 51 to Channel 26. Accordingly, the licensee of KCEC(TV) is proposing the substitution of Channel 26 for Channel 51 at Denver, Colorado in the Post-Transition DTV Table of Allotments, by this Petition for Rulemaking.

The FCC has recognized the significant public interest benefits of clearing Channel 51 to the extent possible prior to the incentive auction and repacking plan. In 2011, the FCC lifted the freeze on channel substitution rulemaking petitions to allow channel changes to Channel 51 stations.† The FCC has also stated in its recent

* See FCC File No. BLCDDT-20090304ABJ.

† *Public Notice*, "General Freeze on the Filing and Processing of Applications for Channel 51 Effective

Report and Order (R&O) in the auction and repacking plan, that such petitions are exempt from the Media Bureau's April 5, 2013 freeze on the filing of certain facilities modifications.[‡] In its *R&O* the Commission stated that it would continue to allow Petitions to reallocate stations from Channel 51 provided that the subject facilities are licensed by the Pre-Auction Licensing Deadline, which is expected to be set by the FCC toward the end of the first quarter of 2015.

The reallocation of KCEC(TV) to Channel 26 will serve the public interest since it will allow for T-Mobile to launch advanced wireless services on the Lower 700 MHz Block A spectrum it holds an authorization for. The operation of KCEC(TV) on Channel 26 would remove any potential interference with a wireless operation located directly adjacent to Channel 51 in the Denver, Colorado market.

KCEC(TV) proposes to operate on UHF Channel 26 with a maximum ERP of 549.5 kW (27.4 dBk) employing a directional antenna with an overall HAAT of 244 meters. The proposal is specified with facilities that will essentially replicate the coverage of its licensed digital facility.[§] Specifications for the proposal are included herein at Figure 1.

Community of License Coverage Compliance

The proposed KCEC(TV) allotment facility complies with the coverage requirements of Section 73.625 of the FCC Rules. A map showing the predicted

Immediately and Sixty (60) Day Amendment Window for Pending Channel 51 Low Power Television, TV Translator and Class A Applications," 26 FCC Rcd 11409 (MB 2011).

[‡] *Report and Order*, "In the Matter of Expanding the Economic and Innovation Opportunities of Spectrum Through Incentive Auctions," GN Docket No. 12-268, Released: June 2, 2014.

[§] There is a small change in the proposed antenna height due to physical increase in the length of the replacement antenna owing to the change in frequency; and also due to a correction of the site elevation of the registered tower structure. However, taking into consideration the predicted service losses due to terrain attenuation and interference received, the proposed facility will provide service to 100.3% of the population of the licensed KCEC(TV) facility.

coverage contours is included herein at Figure 2. As indicated, the predicted 48 dBu, f(50,90) contour encompasses the entire community of Denver as required.

Allocation Concerns

The proposed Channel 26 facility meets the requirements of Section 73.616 of the FCC Rules concerning predicted interference to other DTV allotments and assignment records. Longley-Rice interference analyses were conducted pursuant to the requirements of the FCC Rules and FCC OET Bulletin No. 69**. The results of the interference analyses for the proposed facility are summarized herein at Figure 3. As indicated therein, the proposed facility will meet the 0.5% *de minimis* interference criterion outlined in the FCC Rules to all pertinent allotments and assignments. It is requested that a higher resolution terrain increment of 0.50 km be employed in the Commission's interference analysis as was done for the instant analysis.

Repacking Flexibility Analysis

In order to evaluate the effect of this proposal on the repacking flexibility in the incentive auction and repacking process, a comparison of the predicted 41 dBu noise-limited service contour coverage was prepared. As indicated in the map attached at Figure 2 herein, the proposal will not result in any increase in the predicted 41 dBu noise-limited service contour in any direction relative to the licensed Channel 51 facility, with the exception of a very small increase over some azimuths to the southwest and west toward the Rocky Mountains. This small increase is due to the correction of the elevation of the registered tower structure, which was corrected from 2209.8 m AMSL to 2218.6 m AMSL, a change of 8.8 m. There is also a slight increase in the proposed antenna radiation center height to due to the physical increase in the length of the antenna owing to the difference in frequency.

** See *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, OET Bulletin 69, Federal Communications Commission (February 6, 2004).

Considering the correct site elevation of the registered tower site, the *corrected* KCEC(TV) licensed antenna radiation center will actually be 2257.6 m AMSL. A predicted coverage comparison map was prepared for the proposed facility and the licensed KCEC(TV) facility in consideration of the correction of the site elevation. This is included herein at Figure 4. As indicated in Figure 4, considering the correct elevation of the antenna site, there will be no increase in the predicted 41 dBu f(50,90) noise-limited service contour in any direction of the proposal in comparison with the licensed KCEC(TV) facility. Therefore, in fact, there will be no adverse effect on the FCC's repacking flexibility in the incentive auction and repacking process.

Conclusion

The instant proposal was designed to meet the FCC's *de minimis* interference requirements for protection to other facilities and the coverage requirements of the KCEC(TV) community of license of Denver, Colorado. In addition, the proposal was designed to provide replication of the interference-free noise-limited service area of KCEC(TV), while not adversely affecting the FCC's repacking flexibility in the auction and repacking process. In view of the foregoing, it is concluded that the instant proposal meets the FCC's requirements and that its approval would serve the public interest.



W. Jeffrey Reynolds

du Treil, Lundin & Rackley, Inc.
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Sarasota, FL 34237

August 21, 2014

TECHNICAL EXHIBIT
IN SUPPORT OF PETITION FOR RULEMAKING
TELEVISION STATION KCEC(TV)
DENVER, COLORADO

Technical Specifications

Channel / Frequency Band	26 / 542-548 MHz
Zone	II
Reference Coordinates (NAD 27):	
Latitude	39°43'58" North
Longitude	105°14'08" West
Height of Radiation Center Above Mean Sea Level	2260 m ^{††}
Height of Radiation Center Above Ground Level	41 m
Height of Radiation Center Above Average Terrain (HAAT)	244 m
Maximum Effective Radiated Power (ERP)	549.5 kW (27.4 dBk)

Directional Antenna Relative Field Values (See Sheet 2 for Polar Graph)					
Degrees	Value	Degrees	Value	Degrees	Value
0	0.228	120	0.941	240	0.987
10	0.348	130	0.937	250	0.974
20	0.495	140	0.963	260	0.921
30	0.602	150	0.985	270	0.811
40	0.691	160	0.992	280	0.695
50	0.803	170	0.987	290	0.604
60	0.917	180	0.966	300	0.504
70	0.979	190	0.938	310	0.363
80	0.993	200	0.935	320	0.235
90	0.999	210	0.963	330	0.190
100	0.996	220	0.989	340	0.195
110	0.972	230	0.994	350	0.193
Additional Azimuths:		94	1.000		
Antenna Rotation : none					

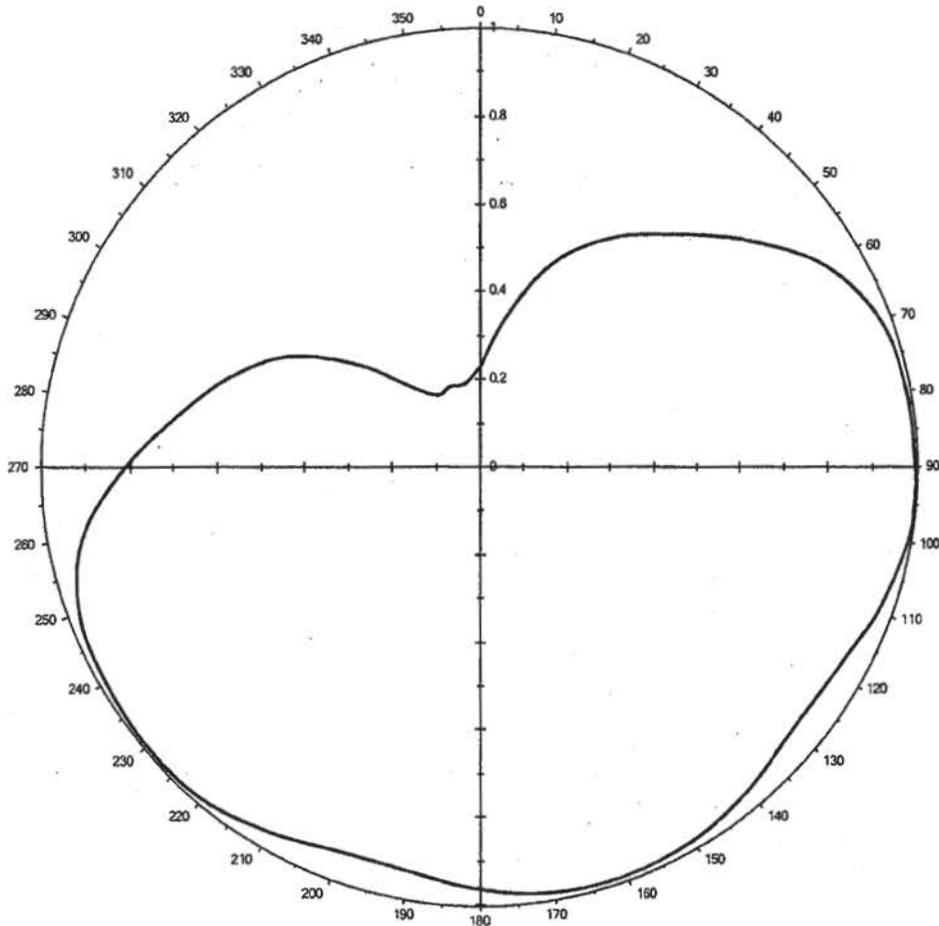
^{††} There is an increase in height relative to the licensed KCEC(TV) facility due to a correction of the site elevation and increased length of antenna. See Antenna Structure Registration No. 1044149.

DA Inquiry

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Antenna ID: 800581



Note: display reflects rotation of 0.00°

0°	0.228	60°	0.917	120°	0.941	180°	0.966	240°	0.987	300°	0.504	94°	1.000
10°	0.348	70°	0.979	130°	0.937	190°	0.938	250°	0.974	310°	0.363		
20°	0.495	80°	0.993	140°	0.963	200°	0.935	260°	0.921	320°	0.235		
30°	0.602	90°	0.999	150°	0.985	210°	0.963	270°	0.811	330°	0.190		
40°	0.691	100°	0.996	160°	0.992	220°	0.989	280°	0.695	340°	0.195		
50°	0.803	110°	0.972	170°	0.987	230°	0.994	290°	0.604	350°	0.193		

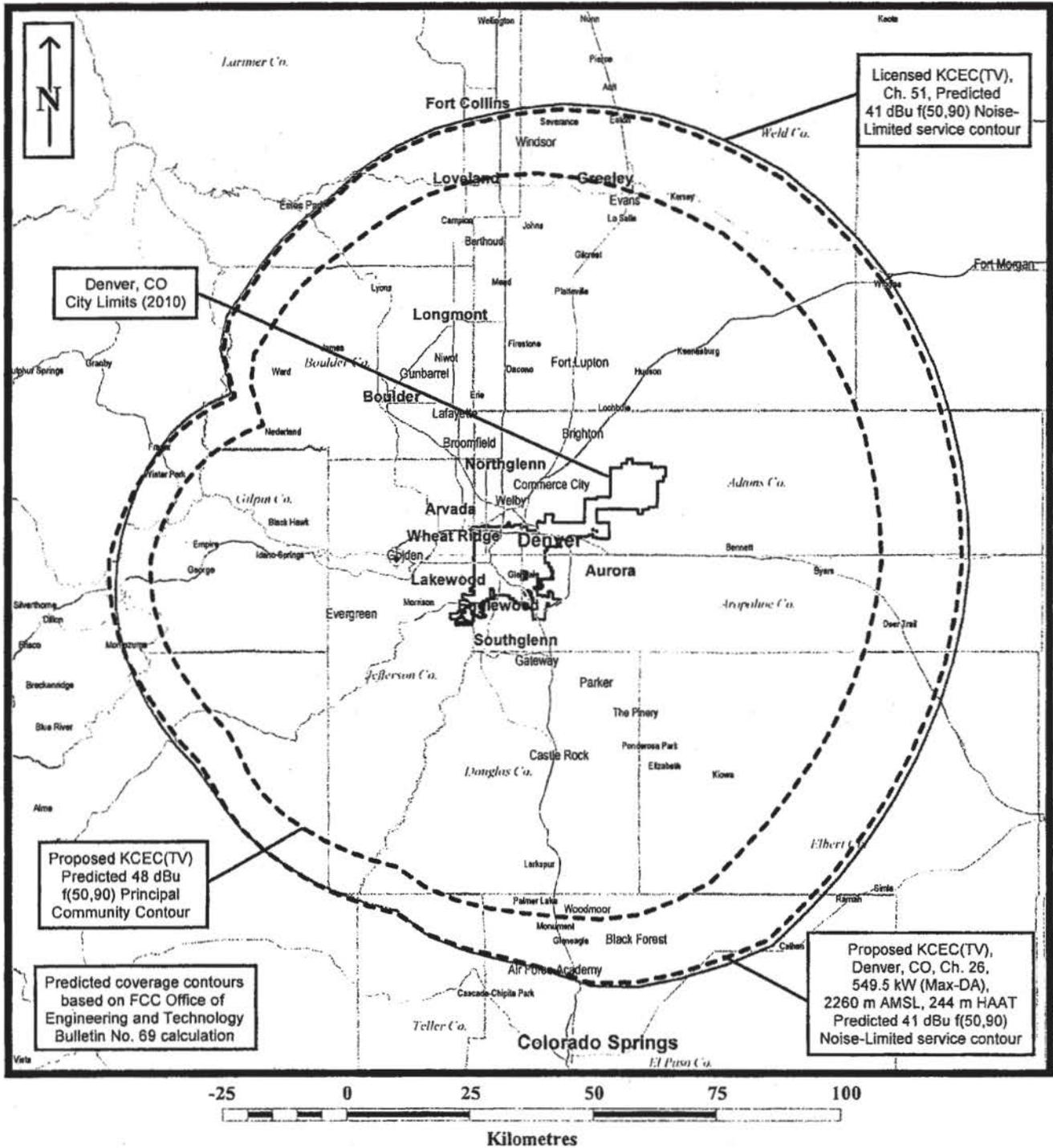
Antenna Make: ODD

Standard Pattern:

Antenna Model: ODDKCEC

Last Change Date:

Figure 2



PREDICTED COVERAGE CONTOURS

duTreil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 3

TECHNICAL EXHIBIT
IN SUPPORT OF PETITION FOR RULEMAKING
TELEVISION STATION KCEC(TV)
DENVER, COLORADO

Interference Analysis Pursuant to
Office of Engineering and Technology Bulletin No. 69

(3 pages follow)

OET-69 Interference Analysis (KCEC(TV), Denver, CO, Channel 26)

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-21-2014
Record Selected for Analysis

KCEC USERRECORD-01 DENVER CO US
Channel 26 ERP 549.5 kW HAAT 272. m RCAMSL 02260 m
Latitude 039-43-58 Longitude 0105-14-08
Status APP Zone 2 Border Site number: 01
Dir Antenna Make usr Model ODDKCEC Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

NOTE: A HIGHER RESOLUTION DISTANCE INCREMENT OF 0.50 KM WAS EMPLOYED FOR THE INTERFERENCE ANALYSIS.

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 0.50 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)	
0.0	28.565	421.2	80.166	
45.0	306.626	544.0	106.560	
90.0	548.402	550.7	112.240	
135.0	495.924	466.5	104.934	
180.0	512.769	94.6	69.543	
225.0	540.198	33.0	55.688	
270.0	361.418	40.5	56.644	
315.0	49.126	33.0	45.157	

Database HAAT does not agree with computed HAAT
Database HAAT: 272 Computed HAAT: 273

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap to Class A stations from site # 01

Class A Evaluation Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

OET-69 Interference Analysis (KCEC(TV), Denver, CO, Channel 26)

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station	ARN
26	Call City/State KCEC DENVER CO	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KGHB-CD	PUEBLO, ETC. CO	162.0	LIC	BLDTA	20120817AAY
27	KLWY	CHEYENNE WY	149.1	LIC	BLCDT	20090227AAD

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	KGHB-CD	PUEBLO, ETC. CO	BLDTA	-20120817AAY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	KTLO-LP	COLORADO SPRINGS CO	49.0	CP	BDISDTL	-20121128ALK
27	K27MA-D	BOULDER CO	161.7	LIC	BLDTL	-20120802ABC
27	KASA-TV	SANTA FE NM	389.3	LIC	BLCDT	-20090417AAS
27	KLWY	CHEYENNE WY	298.8	LIC	BLCDT	-20090227AAD
28	DK41JO	BROADMOOR CO	57.2	CP	BDISDTL	-20120208AAH
28	K2BKC-D	CANON CITY CO	51.8	LIC	BLDTL	-20090708AAT
28	KSPK-LP	WALSENBURG CO	85.9	CP	BDFCDTL	-20090824ACC
26	KCEC	DENVER CO	162.0	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	KLWY	CHEYENNE WY	BLCDT	-20090227AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	KCEC	DENVER CO	149.1	APP	USERRECORD-01	

Total scenarios = 1

Result key:

Scenario 1 Affected station 2
Before Analysis

Results for: 27A WY CHEYENNE BLCDT 20090227AAD LIC

HAAT 232.0 m, ATV ERP 169.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	445768	15376.6
not affected by terrain losses	443629	14861.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

OET-69 Interference Analysis (KCEC(TV), Denver, CO, Channel 26)

After Analysis

Results for: 27A WY CHEYENNE BLCDDT 20090227AAD LIC

HAAT 232.0 m, ATV ERP 169.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	445768	15376.6
not affected by terrain losses	443629	14861.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2092	36.2
lost to ATV IX only	2092	36.2
lost to all IX	2092	36.2

Potential Interfering Stations Included in above Scenario 1

26A CO DENVER USERRECORD01 APP

Percent new IX = 0.4716%

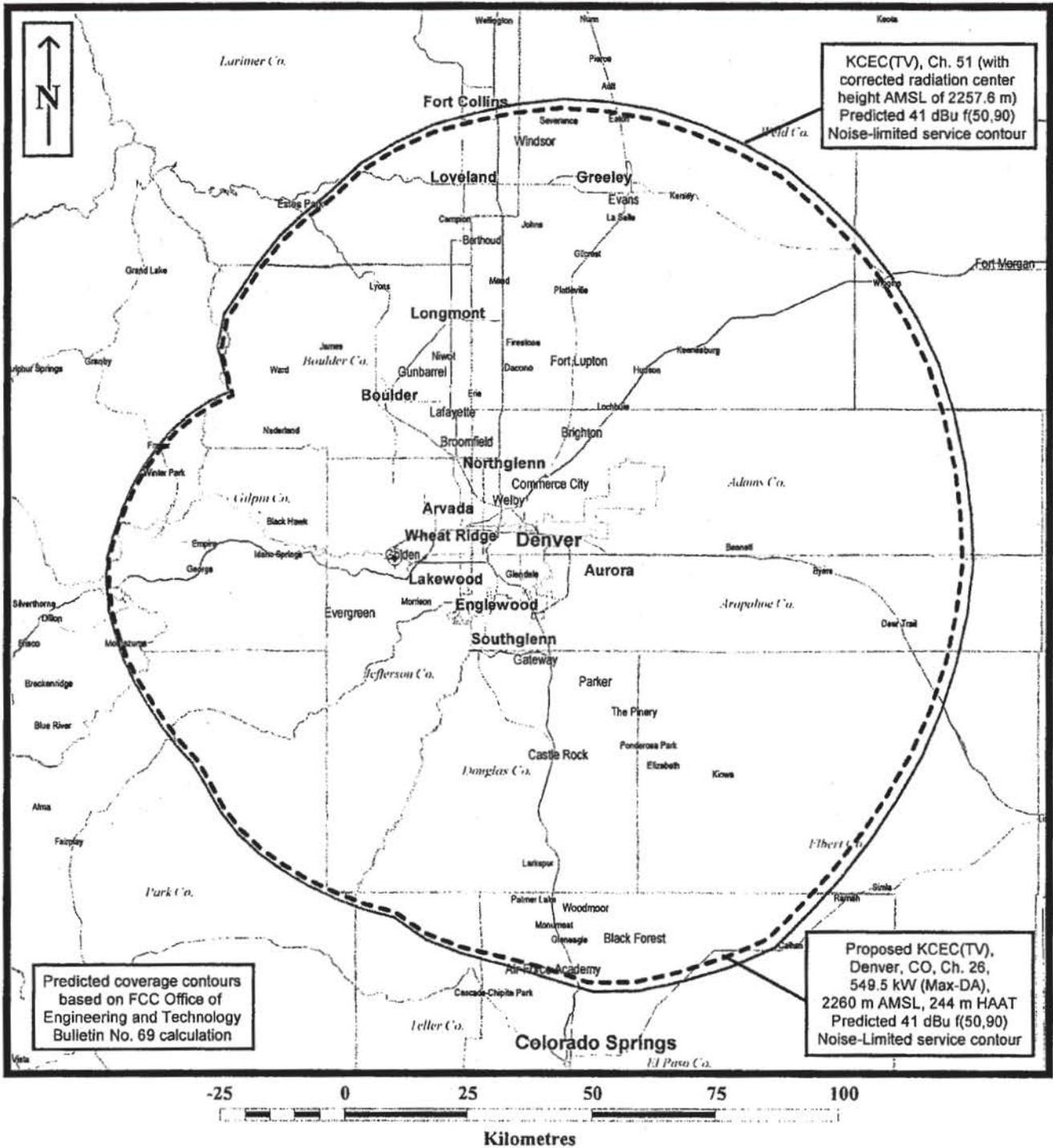
Worst case new IX 0.4716% Scenario 1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Figure 4



PREDICTED COVERAGE COMPARISON

duTreil, Lundin & Rackley, Inc. Sarasota, Florida