

tvstudy v2.2.4 (Z2Qqz3)
Database: localhost, Study: BLANK0000029989 (558), Model: Longley-Rice
Start: 2018.01.20 14:11:53

Study created: 2018.01.20 14:11:53

Study build station data: LMS TV 2018-01-19 (37)

Proposal: KAVC-LP D30 LD APP LOVELAND, CO
File number: BLANK0000029989
Facility ID: 68077
Station data: User record
Record ID: 562
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KZCS-LP	N23z	TX	LIC	COLORADO SPRINGS, CO	BLTTTL20021218AAJ	143.6 km
No	K27CB	N27+	TX	LIC	FRASER, ETC., CO	BLTT19890609IM	52.5
No	K29HM-D	D29	LD	LIC	LAKE GEORGE, CO	BLDTT20101001ACF	110.5
Yes	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	31.5
Yes	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	26.3
No	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	254.8
No	K30NL-D	D30	LD	CP	ARRIBA, CO	BNPDTL20100514AFE	178.7
No	NEW	D30	LD	APP	ASPEN, CO	BNPDTL20090825BXK	165.9
No	K30JQ-D	D30	LD	LIC	CARBONDALE, CO	BLDTT20091221AAW	198.1
Yes	K30JM-D	D30	LD	LIC	COLORADO SPRINGS, CO	BLDTL20100430ACU	143.5
No	K30EJ-D	D30	LD	LIC	CRESTED BUTTE, CO	BLDTT20100301AAH	199.2
No	K30CR	N30-	TX	LIC	FRASER, ETC., CO	BLTT19890609IK	52.5
No	K30FO-D	D30	LD	LIC	PEETZ, CO	BLDTT20110808ABH	192.4
No	K30GO-D	D30	LD	LIC	PLEASANT VALLEY, CO	BLDTT20111122AML	266.5
No	K30HA-D	D30	LD	LIC	YUMA, CO	BLDTT20110613AAC	202.4
No	K30NM-D	D30	LD	CP	GOODLAND, KS	BNPDTL20100514AFZ	304.9
No	K30EK-D	D30	LD	LIC	DULCE & LUMBERTON, NM	BLDTT20111117ATH	370.6
No	K30KM-D	D30	LD	LIC	VERNAL, ETC, UT	BLDTT20120112ABL	339.6
No	K30LW-D	D30	LD	CP	CASPER, WY	BNPDTL20100510ACT	356.4
Yes	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	121.9
No	K31KM-D	D31	LD	LIC	COLORADO SPRINGS, CO	BLDTT20100202ABS	143.6
Yes	KZDN-LD	D31	LD	LIC	DENVER, CO	BLANK0000001552	31.7
Yes	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	31.5
Yes	KTVD	D31	DT	BL	DENVER, CO	DTVBL68581	31.5

No	K31LY-D	D31	LD	CP	CHEYENNE, WY	BNPDTL20100510AEV	127.8
No	K33BV	N33+	TX	LIC	FRASER, ETC., CO	BLTT19890609IJ	52.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30
 Mask: Stringent
 Latitude: 40 0 43.00 N (NAD83)
 Longitude: 105 11 18.00 W
 Height AMSL: 1675.0 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: NIC-BKU 4-5 (ID 70671) 140.0 deg
 Elev Pattn: Generic

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.096 kW	111.3 m	18.6 km
45.0	0.028	127.8	14.6
90.0	3.06	86.7	34.0
135.0	14.5	35.9	31.5
180.0	5.42	-77.3	25.4
225.0	0.053	-190.4	8.4
270.0	0.156	-108.1	11.0
315.0	0.138	-53.6	10.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: -8 m

Distance to Canadian border: 998.9 km

Distance to Mexican border: 922.4 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 77.8 degrees Distance: 580.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 334.8 degrees Distance: 13.0 km

ERP: 0.081 kW Field strength: 73.6 dBu, 4.8 mV/m

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000036134 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KTFD-TV	D28	DT	CP	DENVER, CO	BLANK0000029913	0.4
	KOAA-TV	D28	DT	BL	PUEBLO, CO	DTVBL59014	114.1
	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	284.1
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22547.9	3,402,274	20059.1	3,342,290	19844.0	3,301,598	19804.9 3,286,286	0.20 0.46
Undesired		Total IX		Unique IX, before		Unique IX, after	
KAVC-LP D30 LD APP	44.2	15,341			39.2 15,312		
KTFD-TV D28 DT CP	46.7	122	46.7	122	44.8 122		
KOAA-TV D28 DT BL	152.3	39,713	152.3	39,713	152.3 39,713		
KSTF D29 DT APP	9.0	40	9.0	40	6.0 11		
KGWN-TV D30 DT LIC	7.0	817	7.0	817	7.0 817		

Interference to BLANK0000036134 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KTFD-TV	D28	DT	CP	DENVER, CO	BLANK0000029913	0.4
	KOAA-TV	D28	DT	BL	PUEBLO, CO	DTVBL59014	114.1
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22547.9	3,402,274	20059.1	3,342,290	19853.1	3,301,638	19810.9 3,286,297	0.21 0.46
Undesired		Total IX		Unique IX, before		Unique IX, after	
KAVC-LP D30 LD APP	44.2	15,341			42.2 15,341		

KTFD-TV D28 DT CP	46.7	122	46.7	122	44.8	122
KOAA-TV D28 DT BL	152.3	39,713	152.3	39,713	152.3	39,713
KGWN-TV D30 DT LIC	7.0	817	7.0	817	7.0	817

Interference to BLCDT20100317AAM LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	26.3 km
	KTFD-TV	D28	DT	CP	DENVER, CO	BLANK0000029913	49.8
	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	234.8
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	111.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24383.0 3,376,698	22902.8 3,351,810	22597.8 3,322,090	22593.8 3,322,073	0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP 5.0	19	4.0	17
KTFD-TV D28 DT CP 215.3	28,802	214.3	28,800
KSTF D29 DT APP 27.0	52	23.0	52
KGWN-TV D30 DT LIC 66.6	866	62.6	866

Interference to BLCDT20100317AAM LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	26.3 km
	KTFD-TV	D28	DT	CP	DENVER, CO	BLANK0000029913	49.8
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	111.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24383.0 3,376,698	22902.8 3,351,810	22620.8 3,322,142	22616.8 3,322,125	0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP 5.0	19	4.0	17
KTFD-TV D28 DT CP 215.3	28,802	214.3	28,800
KGWN-TV D30 DT LIC 66.6	866	66.6	866

Interference to BLDTL20100430ACU LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	K30JM-D	D30	LD	LIC	COLORADO SPRINGS, CO	BLDTL20100430ACU	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	143.5 km
	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	114.0
	K30NL-D	D30	LD	CP	ARRIBA, CO	BNPDTL20100514AFE	148.4
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	262.0
	K31KM-D	D31	LD	LIC	COLORADO SPRINGS, CO	BLDTT20100202ABS	0.2
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	114.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	7640.6	764,641	6972.8	754,155	6805.8	753,398	6805.8	753,398	0.00 0.00

Undesired				Total IX		Unique IX, before		Unique IX, after
KAVC-LP D30 LD APP		1.0		0		0.0		0
KDEN-TV D29 DT APP		23.8		85	0.0	0	0.0	0
K30NL-D D30 LD CP		2.0		56	1.0	52	1.0	52
KGWN-TV D30 DT LIC	153.0			705	111.3	509	111.3	509
K31KM-D D31 LD LIC	10.0			0	10.0	0	10.0	0
KTVD D31 DT APP	43.7			192	2.0	0	2.0	0

Interference to BLDTL20100430ACU LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K30JM-D	D30	LD	LIC	COLORADO SPRINGS, CO	BLDTL20100430ACU	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	143.5 km
	K30NL-D	D30	LD	CP	ARRIBA, CO	BNPDTL20100514AFE	148.4
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	262.0
	K31KM-D	D31	LD	LIC	COLORADO SPRINGS, CO	BLDTT20100202ABS	0.2
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	114.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	7640.6	764,641	6972.8	754,155	6805.8	753,398	6805.8	753,398	0.00 0.00

Undesired				Total IX		Unique IX, before		Unique IX, after
KAVC-LP D30 LD APP		1.0		0		0.0		0
K30NL-D D30 LD CP		2.0		56	1.0	52	1.0	52
KGWN-TV D30 DT LIC	153.0			705	111.3	509	111.3	509
K31KM-D D31 LD LIC	10.0			0	10.0	0	10.0	0
KTVD D31 DT APP	43.7			192	3.0	0	3.0	0

Interference to BLCDT20070327AEQ LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	121.9 km
	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	153.4
	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	149.2
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	153.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13635.5 467,040	12901.7 438,567	12883.7 437,772	12882.7 437,772	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	8.0 152		1.0 0
KDEN-TV D29 DT APP	5.0 17	0.0 0	0.0 0
KTVD D31 DT APP	18.0 795	13.0 778	10.0 637

Interference to BLCDT20070327AEQ LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	121.9 km
	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	111.6
	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	149.2
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	153.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13635.5 467,040	12901.7 438,567	12875.7 437,586	12875.7 437,586	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	8.0 152		0.0 0
KDEN-TV D29 DT LIC	13.0 205	8.0 186	7.0 186
KTVD D31 DT APP	18.0 795	13.0 776	9.0 629

Interference to BLCDT20070327AEQ LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	121.9 km
	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	153.4
	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	149.2
	KTVD	D31	DT	BL	DENVER, CO	DTVBL68581	153.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
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13635.5	467,040	12901.7	438,567	12882.7	437,770	12881.7	437,770	0.01	0.00
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Undesired			Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	8.0	152		1.0	0
KDEN-TV D29 DT APP	5.0	17	0.0	0	0.0
KTVD D31 DT BL	19.0	797	14.0	780	11.0
					639

Interference to BLCDT20070327AEQ LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	121.9 km
	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	111.6
	KSTF	D29	DT	APP	SCOTTSBLUFF, NE	BLANK0000036040	149.2
	KTVD	D31	DT	BL	DENVER, CO	DTVBL68581	153.4
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	13635.5	467,040	12901.7	438,567	12874.7	437,584	0.00
					437,770		0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	8.0	152		0.0	0
KDEN-TV D29 DT LIC	13.0	205	8.0	186	7.0
KTVD D31 DT BL	19.0	797	14.0	778	10.0
					631

Interference to BLANK0000001552 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KZDN-LD	D31	LD	LIC	DENVER, CO	BLANK0000001552	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.7 km
	K31KM-D	D31	LD	LIC	COLORADO SPRINGS, CO	BLDTT20100202ABS	114.1
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	0.4
	K31HT	N31+	TX	LIC	CASPER, WY	BLTTL20070628ACN	347.7
	K31LY-D	D31	LD	CP	CHEYENNE, WY	BNPDTL20100510AEV	159.5
	KCEC	D32	DT	APP	BOULDER, CO	BLANK0000029929	6.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	6270.1	2,790,221	6020.7	2,762,649	739.1	82,176	0.00
					82,176		0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	47.2	30,296		0.0	0
K31KM-D D31 LD LIC	3.0	6	0.0	0	0.0
KTVD D31 DT APP	5253.6	2,665,052	4899.1	2,592,018	4858.9
					2,563,662

K31LY-D D31 LD CP	16.8	1,029	1.0	8	1.0	8
KCEC D32 DT APP	374.6	88,441	25.0	15,413	24.0	15,044

Interference to BLANK0000001552 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KZDN-LD	D31	LD	LIC	DENVER, CO	BLANK0000001552	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK00000029989	31.7 km
	K31KM-D	D31	LD	LIC	COLORADO SPRINGS, CO	BLDTT20100202ABS	114.1
	KTVD	D31	DT	APP	DENVER, CO	BLANK00000027979	0.4
	K31HT	N31+	TX	LIC	CASPER, WY	BLTTTL20070628ACN	347.7
	K31LY-D	D31	LD	CP	CHEYENNE, WY	BNPDTL20100510AEV	159.5
	KCEC	D32	DT	CP	BOULDER, CO	BLANK00000025102	6.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6270.1 2,790,221	6020.7 2,762,649	745.1 84,234	744.1 83,865	0.13 0.44

Undesired	Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	47.2 30,296	1.0 369	
K31KM-D D31 LD LIC	3.0 6	0.0 0	
KTVD D31 DT APP	5253.6 2,665,052	5061.4 2,632,470	5019.2 2,604,087
K31LY-D D31 LD CP	16.8 1,029	1.0 8	
KCEC D32 DT CP	205.3 45,931	19.0 13,355	19.0 13,355

Interference to BLANK00000027979 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVD	D31	DT	APP	DENVER, CO	BLANK00000027979	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK00000029989	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
	KCEC	D32	DT	APP	BOULDER, CO	BLANK00000029929	6.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30467.3 3,787,845	26675.9 3,549,115	26319.3 3,530,517	26306.3 3,529,819	0.05 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
KAVC-LP D30 LD APP	13.0 698	13.0 698	
KGWN-TV D30 DT LIC	50.8 3,105	50.8 3,105	
KCEC D32 DT APP	305.8 15,493	305.8 15,493	

Interference to BLANK00000027979 APP scenario 2

Desired:	Call KTVD	Chan D31	Svc DT	Status APP	City, State DENVER, CO	File Number BLANK0000027979	Distance
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
	KCEC	D32	DT	CP	BOULDER, CO	BLANK0000025102	6.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30467.3 3,787,845	26675.9 3,549,115	26476.6 3,539,799	26463.6 3,539,101	0.05 0.02
Undesired	Total IX	Unique IX, before	Unique IX, after	
KAVC-LP D30 LD APP	13.0 698		13.0 698	
KGWN-TV D30 DT LIC	50.8 3,105	50.8 3,105	50.8 3,105	
KCEC D32 DT CP	148.5 6,211	148.5 6,211	148.5 6,211	

Interference to BLANK0000027979 APP scenario 3

Desired:	Call KTVD	Chan D31	Svc DT	Status APP	City, State DENVER, CO	File Number BLANK0000027979	Distance
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
	KCEC	D32	DT	BL	BOULDER, CO	DTVBL57219	6.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30467.3 3,787,845	26675.9 3,549,115	26349.1 3,531,269	26336.1 3,530,571	0.05 0.02
Undesired	Total IX	Unique IX, before	Unique IX, after	
KAVC-LP D30 LD APP	13.0 698		13.0 698	
KGWN-TV D30 DT LIC	50.8 3,105	50.8 3,105	50.8 3,105	
KCEC D32 DT BL	276.0 14,741	276.0 14,741	276.0 14,741	

Interference to DTVBL68581 BL scenario 1

Desired:	Call KTVD	Chan D31	Svc DT	Status BL	City, State DENVER, CO	File Number DTVBL68581	Distance
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
	KCEC	D32	DT	APP	BOULDER, CO	BLANK0000029929	6.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30583.3 3,802,426	26787.9 3,556,052	26442.3 3,538,221	26429.2 3,537,540	0.05 0.02

Undesired				Total IX	Unique IX, before	Unique IX, after	
KAVC-LP D30 LD APP	13.0			681		13.0	681
KGWN-TV D30 DT LIC	49.8			2,801	49.8 2,801	49.8	2,801
KCEC D32 DT APP	295.9			15,030	295.9 15,030	295.9	15,030

Interference to DTVBL68581 BL scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVD	D31	DT	BL	DENVER, CO	DTVBL68581	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
	KCEC	D32	DT	CP	BOULDER, CO	BLANK0000025102	6.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	30583.3 3,802,426		26787.9 3,556,052		26593.6 3,547,344	26580.6 3,546,663	0.05 0.02

Undesired				Total IX	Unique IX, before	Unique IX, after	
KAVC-LP D30 LD APP	13.0			681		13.0	681
KGWN-TV D30 DT LIC	49.8			2,801	49.8 2,801	49.8	2,801
KCEC D32 DT CP	144.5			5,907	144.5 5,907	144.5	5,907

Interference to DTVBL68581 BL scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVD	D31	DT	BL	DENVER, CO	DTVBL68581	
Undesireds:	KAVC-LP	D30	LD	APP	LOVELAND, CO	BLANK0000029989	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	153.4
	KCEC	D32	DT	BL	BOULDER, CO	DTVBL57219	6.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	30583.3 3,802,426		26787.9 3,556,052		26469.1 3,538,793	26456.1 3,538,112	0.05 0.02

Undesired				Total IX	Unique IX, before	Unique IX, after	
KAVC-LP D30 LD APP	13.0			681		13.0	681
KGWN-TV D30 DT LIC	49.8			2,801	49.8 2,801	49.8	2,801
KCEC D32 DT BL	269.1			14,458	269.1 14,458	269.1	14,458

Interference to proposal scenario 1
**MX: 60.29% interference received

Desired:	Call KAVC-LP	Chan D30	Svc LD	Status APP	City, State LOVELAND, CO	File Number BLANK0000029989	Distance
Undesireds:	KDEN-TV	D29	DT	APP	LONGMONT, CO	BLANK0000036134	31.5 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	121.9
	KZDN-LD	D31	LD	LIC	DENVER, CO	BLANK0000001552	31.7
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	31.5

Service area	Terrain-limited	IX-free	Percent IX
1443.8 851,872	1238.4 686,526	440.2 272,600	64.45 60.29

Undesired	Total IX	Unique IX	Prcnt Unique IX
KDEN-TV D29 DT APP 348.0 250,830 0.0	0	0.00	0.00
KGWN-TV D30 DT LIC 710.8 372,219 242.3	77,097	19.56	11.23
KZDN-LD D31 LD LIC 24.1 28,467 0.0	0	0.00	0.00
KTVD D31 DT APP 555.9 336,829 61.2	16,495	4.94	2.40

Interference to proposal scenario 2
**MX: 60.89% interference received

Desired:	Call KAVC-LP	Chan D30	Svc LD	Status APP	City, State LOVELAND, CO	File Number BLANK0000029989	Distance
Undesireds:	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	26.3 km
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	121.9
	KZDN-LD	D31	LD	LIC	DENVER, CO	BLANK0000001552	31.7
	KTVD	D31	DT	APP	DENVER, CO	BLANK0000027979	31.5

Service area	Terrain-limited	IX-free	Percent IX
1443.8 851,872	1238.4 686,526	432.2 268,510	65.10 60.89

Undesired	Total IX	Unique IX	Prcnt Unique IX
KDEN-TV D29 DT LIC 441.5 272,256 8.0	4,090	0.65	0.60
KGWN-TV D30 DT LIC 710.8 372,219 187.0	55,633	15.10	8.10
KZDN-LD D31 LD LIC 24.1 28,467 0.0	0	0.00	0.00
KTVD D31 DT APP 555.9 336,829 59.2	18,350	4.78	2.67