



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
A MINOR MODIFICATION OF A
POST REPACK LICENSED FACILITY
FILE # 0000075047
KDBZ-CD - BOZEMAN, MONTANA
DTV - CH. 29 - 15 kW - 207 m HAAT**

Prepared for: Sinclair Media Licensee, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, No. 7418, and in New York State, No. 63418.

GENERAL

This office has been authorized by Sinclair Media Licensee, LLC, licensee of KDBZ-CD, channel 29, facility ID number 18083, licensed to Bozeman, Montana, to prepare this statement, FCC Form 2100, Schedule E, its technical sections, and the associated exhibits in support of an application for a minor modification of its post-transition license, File # 0000075047. The instant application proposes to relocate KDBZ-CD to a different tower site located 19.36 miles, at an azimuth of 263 degrees, from its currently licensed site. The licensee has been notified that its licensed site will no longer be available after May 1, 2020. The licensee therefore proposes to relocate KDBZ-CD to a new site with a new facility which is fully described in the instant application for a minor modification of license. KDBZ-CD's proposed new facility will encompass the entire area of Bozeman, Montana with a predicted signal level in excess of 75 dBu.

**STATEMENT OF JOHN E. HIDLE, P.E.
KDBZ-CD - Bozeman, Montana
PAGE 2**

DIRECTIONAL ANTENNA

The applicant proposes to install a new Dielectric model TLP-8B/VP elliptically polarized antenna, with its center of radiation located at a height above ground of 39.4 meters, and a height above average terrain of 207 meters. The antenna manufacturer's horizontal plane azimuth pattern for the horizontally polarized component is shown and tabulated in exhibit 2. The manufacturer's horizontal plane azimuth pattern for the vertically polarized component is shown and tabulated in exhibit 3. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 4.

PREDICTED COVERAGE CONTOURS

The predicted coverage contour was calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were obtained from a survey report by Jake Ziska, a Montana Professional Land Surveyor, License No. 18636LS, a copy of which is included herein. Exhibit 1 shows the predicted Protected Class A (51 dBu) contour which completely encompasses the community of license, Bozeman, Montana.

**STATEMENT OF JOHN E. HIDLE, P.E.
KDBZ-CD - Bozeman, Montana
PAGE 3**

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A study was performed, using the FCC's software, *tvstudy*, v. 2.2.5, to determine if the instant application for modification of license is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for modification of license to relocate KDBZ-CD is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations, nor any new interference exceeding 2.0% to any LPTV or translator stations.

International DTV Considerations

The KDBZ-CD site is located 373.3 kilometers from the nearest point on the US/Canadian border, and more than 1400 kilometers from the US/Mexican border. Since all non-US stations were included in the instant study, and none appeared in the results it is believed that no international coordination is necessary. (See Appendix B)

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities will be either co-located with, or located within 10 km of the new proposed KDBZ-CD site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

**STATEMENT OF JOHN E. HIDLE, P.E.
KDBZ-CD - Bozeman, Montana
PAGE 4**

RADIO FREQUENCY SAFETY

The licensee of KDBZ-CD is committed to the protection of station personnel and/or tower contractors working in the vicinity of the KDBZ-CD antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

RADIO FREQUENCY IMPACT & STATEMENT OF COMPLIANCE

KDBZ-CD's predicted power density contribution at the proposed new site is based on a very conservative vertical plane relative field factor of 0.300. For KDBZ-CD, which will operate on television Channel 29 (560-566 MHZ), the MPE is 375.33 microwatts per centimeter squared ($\mu\text{W}/\text{cm}^2$) in an "uncontrolled" environment and 1,866.7 $\mu\text{W}/\text{cm}^2$ in a "controlled" environment. The proposed KDBZ-CD facility will operate with a maximum ERP of 15 kW from an elliptically polarized directional transmitting antenna with a centerline height of 39.4 meters above ground level (AGL). The proposed KDBZ-CD facility is predicted to produce a worst-case power density at two meters above ground level of 64.49 $\mu\text{W}/\text{cm}^2$, which is 17.18% of the FCC guideline value of 375.33 $\mu\text{W}/\text{cm}^2$ for an "uncontrolled" environment, and 3.44% of the FCC's guideline value for "controlled" environments. Currently there are no other facilities proposed to be located at this site. Further, the applicant will continue to cooperate and coordinate with other potential future site users and will reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. (See Appendix A)

**STATEMENT OF JOHN E. HIDLE, P.E.
KDBZ-CD - Bozeman, Montana
PAGE 5**

SUMMARY

It is submitted that the instant application for a minor modification of KDBZ-CD's post-transition channel 29 license, file # 0000075047, to relocate to a different site, as described herein, does comply with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: December 17, 2019

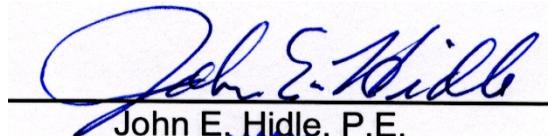
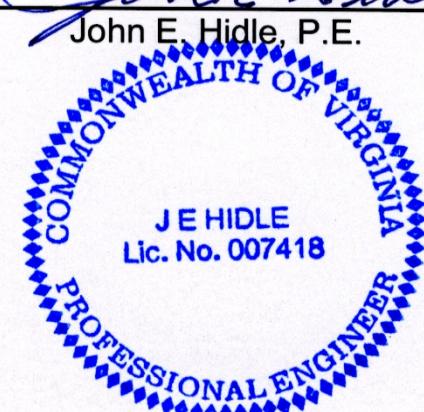
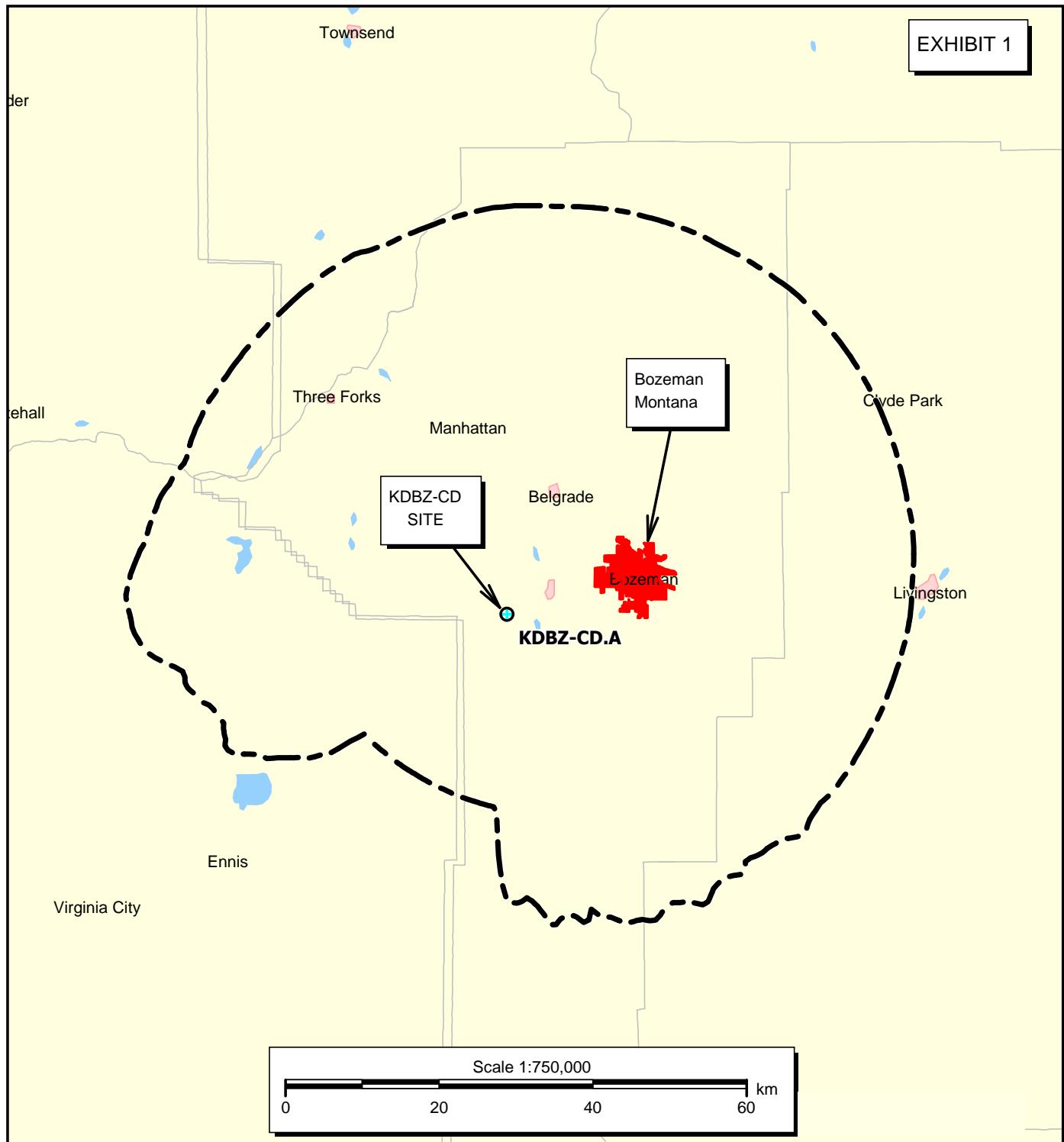

John E. Hidle, P.E.

COMMONWEALTH OF VIRGINIA
J E HIDLE
Lic. No. 007418
PROFESSIONAL ENGINEER

EXHIBIT 1



PREDICTED COVERAGE CONTOURS

KDBZ-CD APP - BOZEMAN, MONTANA
DTV Channel 29 - 15 kW ERP - 207 M HAAT
DEC, 2019

51.0 dBu
F(50,90) Coverage Contour

ELEVATION PATTERN

Proposal No.

Date **13-Dec-19**

Call Letters **KDBZ**

Channel **29**

Frequency **563 MHz**

Antenna Type **TLP-8B/VP**

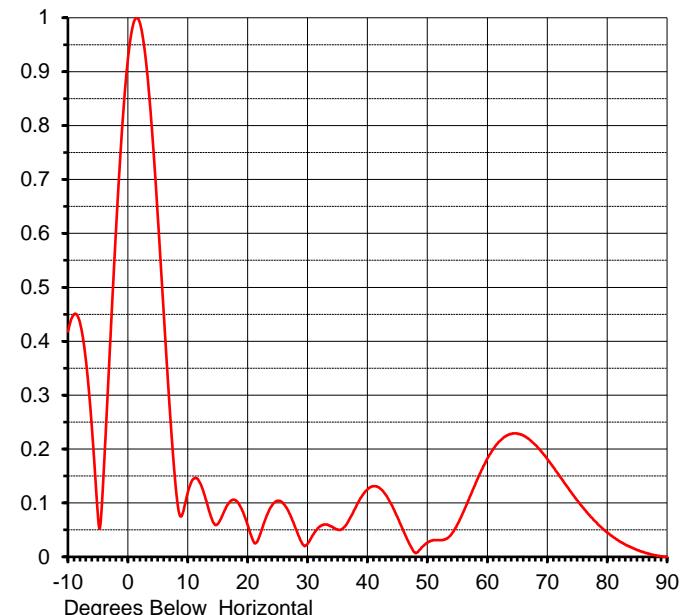
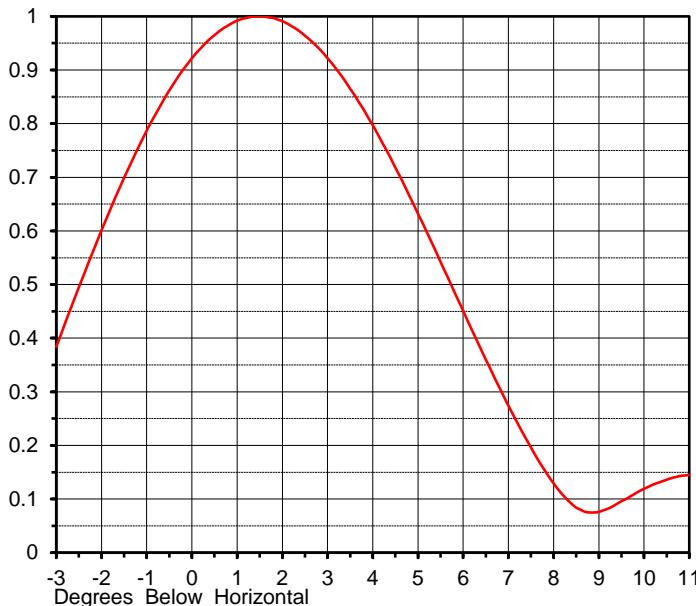
RMS Directivity at Main Lobe
RMS Directivity at Horizontal

8.0 (9.01 dB)

6.8 (8.33 dB)

Calculated

Beam Tilt **1.50 deg**
Pattern Number **08L080150-29**



Angle	Field								
-10.0	0.418	10.0	0.119	30.0	0.024	50.0	0.026	70.0	0.182
-9.0	0.450	11.0	0.145	31.0	0.042	51.0	0.031	71.0	0.167
-8.0	0.435	12.0	0.138	32.0	0.056	52.0	0.031	72.0	0.151
-7.0	0.365	13.0	0.107	33.0	0.060	53.0	0.033	73.0	0.135
-6.0	0.240	14.0	0.071	34.0	0.056	54.0	0.042	74.0	0.120
-5.0	0.078	15.0	0.061	35.0	0.051	55.0	0.060	75.0	0.105
-4.0	0.163	16.0	0.082	36.0	0.054	56.0	0.083	76.0	0.091
-3.0	0.384	17.0	0.102	37.0	0.070	57.0	0.109	77.0	0.078
-2.0	0.601	18.0	0.105	38.0	0.091	58.0	0.135	78.0	0.066
-1.0	0.787	19.0	0.089	39.0	0.111	59.0	0.160	79.0	0.055
0.0	0.922	20.0	0.059	40.0	0.125	60.0	0.182	80.0	0.045
1.0	0.992	21.0	0.028	41.0	0.131	61.0	0.200	81.0	0.037
2.0	0.991	22.0	0.039	42.0	0.128	62.0	0.214	82.0	0.029
3.0	0.922	23.0	0.071	43.0	0.116	63.0	0.223	83.0	0.023
4.0	0.797	24.0	0.094	44.0	0.097	64.0	0.228	84.0	0.018
5.0	0.632	25.0	0.104	45.0	0.074	65.0	0.229	85.0	0.013
6.0	0.451	26.0	0.098	46.0	0.048	66.0	0.225	86.0	0.009
7.0	0.274	27.0	0.080	47.0	0.024	67.0	0.218	87.0	0.006
8.0	0.129	28.0	0.053	48.0	0.007	68.0	0.208	88.0	0.003
9.0	0.076	29.0	0.027	49.0	0.017	69.0	0.196	89.0	0.001
								90.0	0.000

This document contains proprietary and confidential information of Dielectric. It is to be used solely for the purpose for which it is provided.
No disclosure, reproduction, or use of this document or any part of it may be made without the written permission of Dielectric.

August 23, 2019

RE: InSite Wireless LLC

Site Name: MT001 High Flats (195' SST)

Tract 1 of Certificate of Survey No. 1520, located in the NW 1/4 of Section 29, Township 2 South, Range 4 East, P.M.M., Gallatin County, Montana

I, Jake K. Ziska, a Professional Land Surveyor registered and licensed to practice land surveying in the State of Montana, do hereby state that the following Latitude and Longitude values for the center of the above referenced antenna tower are accurate to within +/- 20 feet horizontally and that the following elevation at the base of the antenna tower is accurate to within +/- 3 feet vertically.

Center of Proposed Antenna Tower:

Latitude: 45°38'19.83960"N. (NAD83)

Longitude: 111°15'57.49066"W. (NAD83)

Ground Elevation at Base of Proposed Antenna Tower:

Elevation = 5620.8' (NAVD88)

Tower Type: 195' Self-supported

Top of Tower Height above Ground: 195.0' +/- 1'

Elevation of Top of Tower: 5815.8' +/- 1'

Height of Highest Appurtenance above Ground: 199.0' +/- 1' (Top of Lightning Rod)

Elevation of Top of Highest Appurtenance: 5819.8' +/- 1' (Top of Lightning Rod)

*Not Valid Unless Seal Contains
Signature of Professional Land Surveyor*



Jake Ziska, P.L.S., CFedS, E.I.

Montana Professional Land Surveyor, License No. 18636LS

APPENDIX A

SUMMARY OF RADIOFREQUENCY RADIATION STUDY

KDBZ-CD

Bozeman, Montana

December 17, 2019

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLARIZATION</u>	<u>ANTENNA HEIGHT</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>WORST-CASE PREDICTED POWER DENSITY ($\mu\text{W}/\text{cm}^2$)</u>	<u>FCC UNCONTROLLED LIMIT ($\mu\text{W}/\text{cm}^2$)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
KDBZ-CD	DT	29	563	H & V	39.4	15.000	0.300	64.490	375.33	17.18%
TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =										17.18%



KDBZ-CD - BOZEMAN, MONTANA

Appendix B - Longley-Rice Interference Analysis

DECEMBER 2019

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: KDBZ-CD -Rlctd TLP8B_VP, Model: Longley-Rice
 Start: 2019.12.17 11:50:46

Study created: 2019.12.17 11:50:46

Study build station data: LMS TV 2019-12-17

Proposal: KDBZ-CD D29 LD APP BOZEMAN, MT
 File number: KDBZ-CD -Rlctd TLP8B_VP
 Facility ID: 18083
 Station data: User record
 Record ID: 1178
 Country: U.S.

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

Search options:
 Non-U.S. records included
 Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000087315	0.0 km
Yes	KWYB-LD	D28	LD	LIC	BOZEMAN, MT	BLDTL20121030AAV	31.2
No	K28NB-D	D28	LD	CP	GLEN, MT	BNPDTL20100609AIP	113.8
No	K28AZ	N28	TX	APP	WEST YELLOWSTONE, MT	BLTT19880426IB	98.6
No	K29KY-D	D29	LD	CP	BLACKFOOT, ID	BNPDTL20100609AHK	285.2
No	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	277.8
No	K29KG-D	D29	LD	CP	IDAHO FALLS, ID	BLANK0000088191	324.2
No	K29BM-D	D29	LD	LIC	MONTPELIER, ID	BLDTT20111116AYI	361.3
No	K29LY-D	D29	LD	LIC	SALMON, ID	BLANK0000059727	221.0
No	K29LG-D	D29	LD	LIC	SODA SPRINGS, ID	BLANK0000059259	335.8
No	K29MM-D	D29	LD	LIC	BILLINGS, MT	BLANK0000064137	227.7
Yes	K29JT-D	D29	LD	CP	BUTTE, MT	BNPDTL20100310ABV	107.4
Yes	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK0000004580	136.1
Yes	KUHM-TV	D29	DT	APP	HELENA, MT	BLANK0000035768	136.1
No	K29ND-D	D29	LD	LIC	HOT SPRINGS, MT	BLANK0000067785	329.0
No	K29LD-D	D29	LD	CP	LOMA, MT	BNPDTT20130325AHT	262.3
No	K29LQ-D	D29	LD	LIC	POLSON, MT	BLANK0000059725	315.4
No	K29ID-D	D29	LD	LIC	WEEKSVILLE, MT	BLDTT20130919ABX	335.6
No	K29HG-D	D29	LD	LIC	JACKSON, WY	BLDTL20090224AAW	229.1
No	K29TH-D	D29	LD	LIC	MEETETSE, ETC., WY	BLDTT20120223ACF	247.0
No	KSWY-LP	D29	LD	CP	SHERIDAN, WY	BLANK0000071563	358.9
No	KSWY-LP	N29	TX	LIC	SHERIDAN, WY	BLTTL20100422ADU	359.1
No	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	177.7
No	K29IG-D	D29	LD	CP	SUNLIGHT BASIN, WY	BLANK0000088037	177.8
No	K30NC-D	D30	LD	CP	MONIDA, ID	BNPDTL20100609AHZ	144.4
No	K30MA-D	D30	LD	CP	COLUMBUS, MT	BNPDTL20100505AGS	152.8
No	K30NG-D	D30	LD	CP	DILLON, MT	BNPDTL20100609AIK	117.6
No	K30KY-D	D30	LD	LIC	PHILIPSBURG, MT	BLANK0000007423	168.4
No	CKAL-DT-1	D29	DT	LIC	LETHBRIDGE, AB	BLANKCANADA29	466.3

No non-directional AM stations found within 0.8 km

**Appendix B - Interference Analysis
KDBZ-CD - Bozeman, Montana
Channel 29 - 15 kW - Page 2**

No directional AM stations found within 3.2 km

Record parameters as studied:

```

Channel: D29
Mask: Full Service
Latitude: 45 38 19.83 N (NAD83)
Longitude: 111 15 57.49 W
Height AMSL: 1752.6 m
HAAT: 207.0 m
Peak ERP: 15.0 kW
Antenna: DIE TLP B at 90 dgs 0.0 deg
Elev Pattrn: Generic

```

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.06 kW	340.0 m	54.4 km
45.0	12.1	331.3	56.9
90.0	15.0	244.7	53.2
135.0	12.1	135.8	45.5
180.0	7.06	86.9	38.2
225.0	6.11	-30.7	26.0
270.0	7.18	268.8	50.7
315.0	6.11	275.7	50.2

Distance to Canadian border: 373.3 km

Distance to Mexican border: 1466.2 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 297.5 degrees Distance: 926.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 139.2 degrees Distance: 781.5 km

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 BLANK0000087315 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000087315	
Undesireds:	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	0.0 km
	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK000004580	136.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	6675.3	87,638	4995.8	84,994	4995.8	84,994	0.06 0.00
Undesired	KDBZ-CD	D29	LD	APP	Total IX	Unique IX, before	Unique IX, after
					3.0	0	3.0 0

Interference to BLDTL20121030AAV LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWYB-LD	D28	LD	LIC	BOZEMAN, MT	BLDTL20121030AAV	
Undesireds:	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	31.2 km
	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK000004580	143.2

**Appendix B - Interference Analysis
KDBZ-CD - Bozeman, Montana
Channel 29 - 15 kW - Page 3**

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5128.8	95,689	3781.5	90,910	3781.5	90,910	3726.4	90,490	1.46	0.46
Undesired		Total IX		Unique IX, before		Unique IX, after			
KDBZ-CD D29 LD APP		55.1	420		55.1	420			

Interference to BNPDTL20100310ABV CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K29JT-D	D29	LD	CP	BUTTE, MT	BNPDTL20100310ABV			
Undesireds:	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	107.4 km		
	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000087315	107.4		
	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	310.4		
	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK000004580	109.1		
	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	284.4		
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
1890.9	34,572	1402.0	33,614	1397.9	33,614	1394.9	33,614	0.22	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KDBZ-CD D29 LD APP		4.1	0		3.1	0			
KUHM-TV D29 DT LIC		4.0	0	4.0	0	3.0	0		

Interference to BNPDTL20100310ABV CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K29JT-D	D29	LD	CP	BUTTE, MT	BNPDTL20100310ABV			
Undesireds:	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	107.4 km		
	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000087315	107.4		
	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	310.4		
	KUHM-TV	D29	DT	APP	HELENA, MT	BLANK0000035768	109.1		
	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	284.4		
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
1890.9	34,572	1402.0	33,614	1387.9	33,614	1384.9	33,614	0.22	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KDBZ-CD D29 LD APP		4.1	0		3.1	0			
KUHM-TV D29 DT APP		14.0	0	14.0	0	13.0	0		

Interference to BLANK000004580 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK000004580			
Undesireds:	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	136.1 km		
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
17879.9	154,751	13486.5	142,664	13486.5	142,664	13359.4	142,630	0.94	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
KDBZ-CD D29 LD APP		127.2	34		127.2	34			

Interference to BLANK0000035768 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KUHM-TV	D29	DT	APP	HELENA, MT	BLANK0000035768			
Undesireds:	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	136.1 km		
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
23189.1	113,290	16928.9	94,854	16928.9	94,854	16786.4	94,519	0.84	0.35

**Appendix B - Interference Analysis
KDBZ-CD - Bozeman, Montana
Channel 29 - 15 kW - Page 4**

Undesired	Total IX	Unique IX, before	Unique IX, after
KDBZ-CD D29 LD APP	142.5	335	142.5
			335

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	
Undesireds:	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000087315	0.0 km
	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	277.8
	K29MM-D	D29	LD	LIC	BILLINGS, MT	BLANK0000064137	227.7
	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK000004580	136.1
	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	177.7
Service area		Terrain-limited			IX-free	Percent IX	
7104.3	89,798	5117.5	85,434	5056.2	85,376	1.20	0.07
Undesired		Total IX			Unique IX	Prcnt Unique IX	
K29MM-D D29 LD LIC		2.0	0	1.0	0	0.02	0.00
KUHM-TV D29 DT LIC		60.3	58	59.3	58	1.16	0.07

Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	
Undesireds:	KWYB-LD	D28	LD	LIC	BOZEMAN, MT	BLDTL20121030AAV	31.2 km
	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	277.8
	K29MM-D	D29	LD	LIC	BILLINGS, MT	BLANK0000064137	227.7
	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK000004580	136.1
	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	177.7
Service area		Terrain-limited			IX-free	Percent IX	
7104.3	89,798	5117.5	85,434	4915.2	85,006	3.95	0.50
Undesired		Total IX			Unique IX	Prcnt Unique IX	
KWYB-LD D28 LD LIC		150.0	370	141.0	370	2.76	0.43
K29MM-D D29 LD LIC		2.0	0	1.0	0	0.02	0.00
KUHM-TV D29 DT LIC		60.3	58	50.2	58	0.98	0.07

Interference to proposal scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	
Undesireds:	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000087315	0.0 km
	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	277.8
	K29MM-D	D29	LD	LIC	BILLINGS, MT	BLANK0000064137	227.7
	KUHM-TV	D29	DT	APP	HELENA, MT	BLANK0000035768	136.1
	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	177.7
Service area		Terrain-limited			IX-free	Percent IX	
7104.3	89,798	5117.5	85,434	4952.5	85,308	3.22	0.15
Undesired		Total IX			Unique IX	Prcnt Unique IX	
K29MM-D D29 LD LIC		2.0	0	1.0	0	0.02	0.00
KUHM-TV D29 DT APP		164.0	126	163.0	126	3.18	0.15

Interference to proposal scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDBZ-CD	D29	LD	APP	BOZEMAN, MT	KDBZ-CD -Rlctd TLP8B_V	

**Appendix B - Interference Analysis
KDBZ-CD - Bozeman, Montana
Channel 29 - 15 kW - Page 5**

Undesireds:	KWYB-LD	D28	LD	LIC	BOZEMAN, MT	BLDTL20121030AAV	31.2 km
	K29KG-D	D29	LD	LIC	IDAHO FALLS, ID	BLANK0000087474	277.8
	K29MM-D	D29	LD	LIC	BILLINGS, MT	BLANK0000064137	227.7
	KUHM-TV	D29	DT	APP	HELENA, MT	BLANK0000035768	136.1
	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	177.7
Service area	Terrain-limited				IX-free	Percent IX	
7104.3	89,798	5117.5	85,434	4816.5	84,938	5.88	0.58
Undesired	Total IX				Unique IX	Prcnt	Unique IX
KWYB-LD D28 LD LIC	150.0	370	136.0	370	2.66	0.43	
K29MM-D D29 LD LIC	2.0	0	1.0	0	0.02	0.00	
KUHM-TV D29 DT APP	164.0	126	148.9	126	2.91	0.15	