

ENGINEERING EXHIBIT

“Maximization” Application to Modify Digital Television Station Construction Permit

prepared for

Bluestone License Holdings Inc.

KECI-DT Missoula, MT

Facility ID 18084

Ch. 13 30 kW 610 m

Bluestone License Holdings Inc. (“Bluestone”) is the licensee of television station KECI-TV, analog Channel 13, and digital Channel 40, Missoula, MT. A Construction Permit (“CP”, BPCDT-20080327AFR) authorizes construction of the KECI-DT post-transition digital facility on Channel 13, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. *Bluestone* herein seeks to modify the CP to expand the KECI-DT post-transition Channel 13 digital facility. The instant application is intended to be filed by June 20, 2008 in response to the FCC’s lifting of the August 3, 2004 “freeze” concerning expansion in service area.¹

The current CP authorizes operation with an effective radiated power (“ERP”) of 26.7 kW at 610 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna. An increase in ERP to 30 kW is proposed herein. No other changes are proposed.

The proposed digital Channel 13 operation will employ the existing non-directional antenna system licensed for KECI-TV’s analog Channel 13. Antenna HAAT data is from the KECI-TV license file (BLCT-1746). The antenna is a horizontally polarized RCA model TW-12A13P. The antenna is top-mounted on the existing KECI-TV antenna supporting structure, having FCC Antenna Structure Registration (“ASR”) number 1000779. No change to the overall structure height and no tower work are required to carry out this proposal.

¹Public Notice “*Commission Lifts the Freeze On the Filing of Maximization Applications and Petitions for Digital Channel Substitutions, Effective Immediately*” DA 08-1213, released May 30, 2008.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the location of Missoula, KECI-DT's principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 43 dBμ contour.

The proposed KECI-DT facility's predicted service population provides a 101.2 percent match of the Appendix B facility, as detailed in the table below.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	183,489	188,925
Not affected by terrain losses	169,109	171,067
Lost to all interference	197	113
Net DTV Service	168,912	170,954
Match of Appendix B	---	101.21%

A detailed interference study per OET Bulletin 69² shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The nearest FCC monitoring station is 673 km distant at Ferndale, WA. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is within the Canadian coordination zone (220 km to the Canada border), thus further international coordination may be necessary beyond that necessary to establish Appendix B.

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposal will involve use of an existing transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No tower construction or change in structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering an assumed 20% antenna relative field in downward elevations, the maximum calculated power density attributable to the proposed KECI-DT facility at locations near the transmitter site at a height of two meters above ground level is $7.7 \mu\text{W}/\text{cm}^2$, which is 3.9 percent of the "uncontrolled / general public" maximum permissible exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.

Joseph M. Davis, P.E.
June 10, 2008

Chesapeake RF Consultants, LLC
11993 Kahns Road
Manassas, VA 20112
703-650-9600

List of Attachments

Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered June 10, 2008 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.

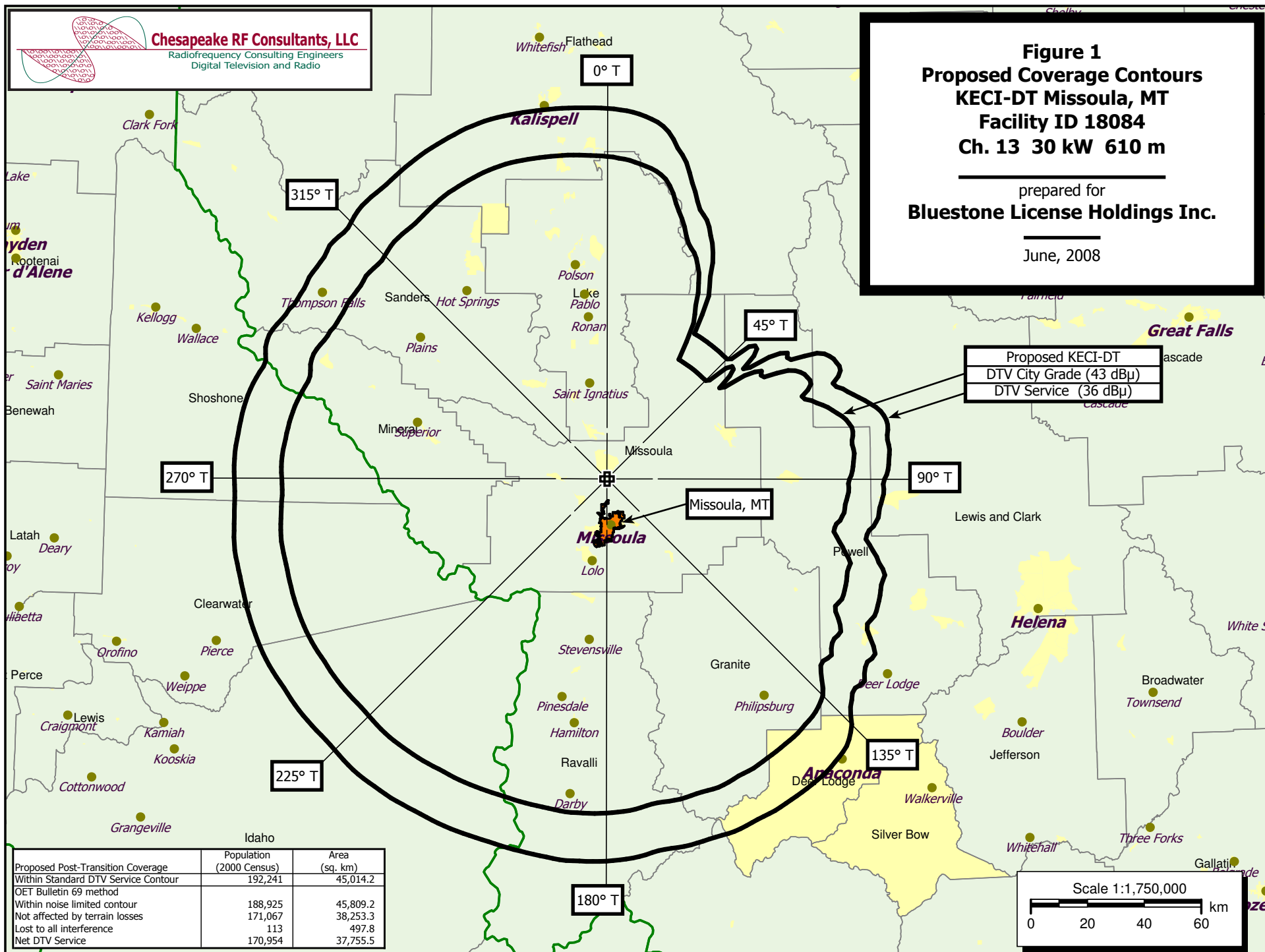


Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
Proposed Coverage Contours
KECI-DT Missoula, MT
Facility ID 18084
Ch. 13 30 kW 610 m

prepared for
Bluestone License Holdings Inc.

June, 2008



Proposed KECI-DT
DTV City Grade (43 dBu)
DTV Service (36 dBu)

Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	192,241	45,014.2
OET Bulletin 69 method		
Within noise limited contour	188,925	45,809.2
Not affected by terrain losses	171,067	38,253.3
Lost to all interference	113	497.8
Net DTV Service	170,954	37,755.5

Table 1 KECI-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 8)

TW Census data selected 2000
Post Transition Data Base Selected /space/software/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-10-2008 Time: 16:19:06

Record Selected for Analysis

KECI-DT USERRECORD-01 MISSOULA MT US
Channel 13 ERP 30. kW HAAT 610. m RCAMSL 02152 m
Latitude 047-01-04 Longitude 0114-00-47
Status APP Zone 2 Border
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	29.924	790.2	129.7
45.0	30.000	33.0	61.1
90.0	30.000	228.1	97.0
135.0	30.000	584.2	121.7
180.0	29.690	1010.6	134.5
225.0	29.659	1040.5	135.3
270.0	29.868	841.7	130.7
315.0	30.000	677.4	126.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 220.3km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Table 1 KECI-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 8)

Start of Interference Analysis

Channel	Call	City/State	ARN
13	KECI-DT	MISSOULA MT	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUID-TV	MOSCOW ID	227.9	PLN	DTVPLN	-DTVP0374
12	KUID-TV	MOSCOW ID	227.9	LIC	BLEDT	-20060804AFK
12	KTVH	HELENA MT	176.2	PLN	DTVPLN	-DTVP0387
13	KTRV-TV	NAMPA ID	397.5	LIC	BLCDT	-20050516ATS
13	KTRV-TV	NAMPA ID	397.5	PLN	DTVPLN	-DTVP0432
13	KBZK	BOZEMAN MT	283.9	PLN	DTVPLN	-DTVP0449
13	KBZK	BOZEMAN MT	283.9	LIC	BLCDT	-20050825AAQ
13	KBAO	LEWISTOWN MT	339.3	PLN	DTVPLN	-DTVP0450
13	KTVR	LA GRANDE OR	343.5	PLN	DTVPLN	-DTVP0466
13	KXLY-TV	SPOKANE WA	253.7	LIC	BLCDT	-19991104ABD
13	KXLY-TV	SPOKANE WA	253.7	PLN	DTVPLN	-DTVP0487

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KUID-TV	MOSCOW ID	DTVPLN	-DTVP0374

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KUFM-TV	MISSOULA MT	228.7	CP	BPEDT	-20080219ALG
11	KUFM-TV	MISSOULA MT	228.7	PLN	DTVPLN	-DTVP0329
11	KFFX-TV	PENDLETON OR	132.3	PLN	DTVPLN	-DTVP0341
11	KFFX-TV	PENDLETON OR	132.3	CP	BPCDT	-20080331ADS
12	KTVH	HELENA MT	400.9	PLN	DTVPLN	-DTVP0387
13	KECI-TV	MISSOULA MT	227.9	PLN	DTVPLN	-DTVP0451
13	KTVR	LA GRANDE OR	163.5	PLN	DTVPLN	-DTVP0466
13	KXLY-TV	SPOKANE WA	138.2	LIC	BLCDT	-19991104ABD
13	KXLY-TV	SPOKANE WA	138.2	PLN	DTVPLN	-DTVP0487
13	KECI-DT	MISSOULA MT	227.9	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.
12	KUID-TV	MOSCOW ID	BLEDT	-20060804AFK

Stations Potentially Affecting This Station

Table 1 KECI-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 8)

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	KUFM-TV	MISSOULA MT	228.7	CP	BPEDT -20080219ALG
11	KUFM-TV	MISSOULA MT	228.7	PLN	DTVPLN -DTVP0329
11	KFFX-TV	PENDLETON OR	132.3	PLN	DTVPLN -DTVP0341
11	KFFX-TV	PENDLETON OR	132.3	CP	BPCDT -20080331ADS
12	KTVH	HELENA MT	400.9	PLN	DTVPLN -DTVP0387
13	KECI-TV	MISSOULA MT	227.9	PLN	DTVPLN -DTVP0451
13	KTVR	LA GRANDE OR	163.5	PLN	DTVPLN -DTVP0466
13	KXLY-TV	SPOKANE WA	138.2	LIC	BLCDT -19991104ABD
13	KXLY-TV	SPOKANE WA	138.2	PLN	DTVPLN -DTVP0487
13	KECI-DT	MISSOULA MT	227.9	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 3

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
12	KTVH	HELENA MT	DTVPLN -DTVP0387		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	KUFM-TV	MISSOULA MT	172.2	CP	BPEDT -20080219ALG
11	KUFM-TV	MISSOULA MT	172.2	PLN	DTVPLN -DTVP0329
12	KUID-TV	MOSCOW ID	400.9	PLN	DTVPLN -DTVP0374
12	KUID-TV	MOSCOW ID	400.9	LIC	BLEDT -20060804AFK
13	KBZK	BOZEMAN MT	143.6	PLN	DTVPLN -DTVP0449
13	KBZK	BOZEMAN MT	143.6	LIC	BLCDT -20050825AAQ
13	KBAO	LEWISTOWN MT	169.4	PLN	DTVPLN -DTVP0450
13	KECI-TV	MISSOULA MT	176.2	PLN	DTVPLN -DTVP0451
13	KECI-DT	MISSOULA MT	176.2	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 4

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	KTRV-TV	NAMPA ID	BLCDT -20050516ATS		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
13	KECI-TV	MISSOULA MT	397.5	PLN	DTVPLN -DTVP0451
13	KTVR	LA GRANDE OR	215.9	PLN	DTVPLN -DTVP0466
13	KECI-DT	MISSOULA MT	397.5	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 5

Table 1 KECI-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 8)

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	KTRV-TV	NAMPA ID	DTVPLN -DTVP0432		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
13	KECI-TV	MISSOULA MT	397.5	PLN	DTVPLN -DTVP0451
13	KTVR	LA GRANDE OR	215.9	PLN	DTVPLN -DTVP0466
13	KECI-DT	MISSOULA MT	397.5	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 6

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	KBZK	BOZEMAN MT	DTVPLN -DTVP0449		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KTVH	HELENA MT	143.6	PLN	DTVPLN -DTVP0387
13	KBAO	LEWISTOWN MT	196.1	PLN	DTVPLN -DTVP0450
13	KECI-TV	MISSOULA MT	283.9	PLN	DTVPLN -DTVP0451
13	KSGW-TV	SHERIDAN WY	316.4	LIC	BLCDT -20051206AEI
13	KSGW-TV	SHERIDAN WY	316.4	PLN	DTVPLN -DTVP0492
13	KECI-DT	MISSOULA MT	283.9	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 7

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	KBZK	BOZEMAN MT	BLCDT -20050825AAQ		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KTVH	HELENA MT	143.6	PLN	DTVPLN -DTVP0387
13	KBAO	LEWISTOWN MT	196.1	PLN	DTVPLN -DTVP0450
13	KECI-TV	MISSOULA MT	283.9	PLN	DTVPLN -DTVP0451
13	KSGW-TV	SHERIDAN WY	316.4	LIC	BLCDT -20051206AEI
13	KSGW-TV	SHERIDAN WY	316.4	PLN	DTVPLN -DTVP0492
13	KECI-DT	MISSOULA MT	283.9	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 8

Table 1 KECI-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 8)

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KBAO	LEWISTOWN MT	DTVPLN -DTVPO450

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KTVH	HELENA MT	169.4	PLN	DTVPLN -DTVPO387
13	KBZK	BOZEMAN MT	196.1	PLN	DTVPLN -DTVPO449
13	KBZK	BOZEMAN MT	196.1	LIC	BLCDDT -20050825AAQ
13	KECI-TV	MISSOULA MT	339.3	PLN	DTVPLN -DTVPO451
13	KSGW-TV	SHERIDAN WY	340.2	LIC	BLCDDT -20051206AEI
13	KSGW-TV	SHERIDAN WY	340.2	PLN	DTVPLN -DTVPO492
13	KECI-DT	MISSOULA MT	339.3	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KTVR	LA GRANDE OR	DTVPLN -DTVPO466

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KUID-TV	MOSCOW ID	163.5	PLN	DTVPLN -DTVPO374
12	KUID-TV	MOSCOW ID	163.5	LIC	BLEDT -20060804AFK
13	KTRV-TV	NAMPA ID	215.9	LIC	BLCDDT -20050516ATS
13	KTRV-TV	NAMPA ID	215.9	PLN	DTVPLN -DTVPO432
13	KECI-TV	MISSOULA MT	343.5	PLN	DTVPLN -DTVPO451
13	KXLY-TV	SPOKANE WA	294.2	LIC	BLCDDT -19991104ABD
13	KXLY-TV	SPOKANE WA	294.2	PLN	DTVPLN -DTVPO487
13	KECI-DT	MISSOULA MT	343.5	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KXLY-TV	SPOKANE WA	BLCDDT -19991104ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KUID-TV	MOSCOW ID	138.2	PLN	DTVPLN -DTVPO374
12	KUID-TV	MOSCOW ID	138.2	LIC	BLEDT -20060804AFK
13	KECI-TV	MISSOULA MT	253.7	PLN	DTVPLN -DTVPO451
13	KTVR	LA GRANDE OR	294.2	PLN	DTVPLN -DTVPO466
13	KCPQ	TACOMA WA	427.5	PLN	DTVPLN -DTVPO488
13	KCPQ	TACOMA WA	427.5	APP	BPCDDT -20080331AEH
13	KECI-DT	MISSOULA MT	253.7	APP	USERRECORD-01

Total scenarios = 2

Table 1 KECI-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 8)

Result key: 1

Scenario 1 Affected station 10
Before Analysis

Results for: 13A WA SPOKANE	BLCDDT	19991104ABD	LIC
HAAT 936.0 m, ATV ERP 23.3 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	692731	52899.9	
not affected by terrain losses	656720	46555.3	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1708	471.3	
lost to ATV IX only	1708	471.3	
lost to all IX	1708	471.3	

Potential Interfering Stations Included in above Scenario 1

12A ID MOSCOW	DTVPLN	DTVPO374	PLN
13A OR LA GRANDE	DTVPLN	DTVPO466	PLN
13A MT MISSOULA	DTVPLN	DTVPO451	PLN

After Analysis

Results for: 13A WA SPOKANE	BLCDDT	19991104ABD	LIC
HAAT 936.0 m, ATV ERP 23.3 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	692731	52899.9	
not affected by terrain losses	656720	46555.3	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1745	479.4	
lost to ATV IX only	1745	479.4	
lost to all IX	1745	479.4	

Potential Interfering Stations Included in above Scenario 1

12A ID MOSCOW	DTVPLN	DTVPO374	PLN
13A OR LA GRANDE	DTVPLN	DTVPO466	PLN
13A MT MISSOULA	USERRECORD01		APP

Percent new IX = 0.0056%

Worst case new IX 0.0056% Scenario 1

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KXLY-TV	SPOKANE WA	DTVPLN -DTVPO487

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KUID-TV	MOSCOW ID	138.2	PLN	DTVPLN -DTVPO374
12	KUID-TV	MOSCOW ID	138.2	LIC	BLEDT -20060804AFK
13	KECI-TV	MISSOULA MT	253.7	PLN	DTVPLN -DTVPO451
13	KTVR	LA GRANDE OR	294.2	PLN	DTVPLN -DTVPO466
13	KCPQ	TACOMA WA	427.5	PLN	DTVPLN -DTVPO488
13	KCPQ	TACOMA WA	427.5	APP	BPCDDT -20080331AEH

Table 1 KECI-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 7 of 8)

13 KECI-DT MISSOULA MT 253.7 APP USERRECORD-01

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 11
Before Analysis

Results for: 13A WA SPOKANE DTVPLN DTVP0487 PLN

HAAT 936.0 m, ATV ERP 23.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	692731	52899.9
not affected by terrain losses	656720	46555.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1708	471.3
lost to ATV IX only	1708	471.3
lost to all IX	1708	471.3

Potential Interfering Stations Included in above Scenario 1

12A ID MOSCOW	DTVPLN	DTVP0374	PLN
13A OR LA GRANDE	DTVPLN	DTVP0466	PLN
13A MT MISSOULA	DTVPLN	DTVP0451	PLN

After Analysis

Results for: 13A WA SPOKANE DTVPLN DTVP0487 PLN

HAAT 936.0 m, ATV ERP 23.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	692731	52899.9
not affected by terrain losses	656720	46555.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1745	479.4
lost to ATV IX only	1745	479.4
lost to all IX	1745	479.4

Potential Interfering Stations Included in above Scenario 1

12A ID MOSCOW	DTVPLN	DTVP0374	PLN
13A OR LA GRANDE	DTVPLN	DTVP0466	PLN
13A MT MISSOULA	USERRECORD01		APP

Percent new IX = 0.0056%

Worst case new IX 0.0056% Scenario 1

#####

Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KECI-DT	MISSOULA MT	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KUID-TV	MOSCOW ID	227.9	PLN	DTVPLN -DTVP0374
12	KUID-TV	MOSCOW ID	227.9	LIC	BLEDT -20060804AFK

Table 1 KECI-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 8 of 8)

12	KTVH	HELENA MT	176.2	PLN	DTVPLN	-DTVP0387
13	KTRV-TV	NAMPA ID	397.5	LIC	BLCDT	-20050516ATS
13	KTRV-TV	NAMPA ID	397.5	PLN	DTVPLN	-DTVP0432
13	KBZK	BOZEMAN MT	283.9	PLN	DTVPLN	-DTVP0449
13	KBZK	BOZEMAN MT	283.9	LIC	BLCDT	-20050825AAQ
13	KBAO	LEWISTOWN MT	339.3	PLN	DTVPLN	-DTVP0450
13	KTVR	LA GRANDE OR	343.5	PLN	DTVPLN	-DTVP0466
13	KXLY-TV	SPOKANE WA	253.7	LIC	BLCDT	-19991104ABD
13	KXLY-TV	SPOKANE WA	253.7	PLN	DTVPLN	-DTVP0487

Total scenarios = 4

Result key: 6
Scenario 2 Affected station 12
Before Analysis

Results for: 13A MT MISSOULA USERRECORD01 APP

HAAT 650.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	188925	45809.2
not affected by terrain losses	171067	38253.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	113	497.8
lost to ATV IX only	113	497.8
lost to all IX	113	497.8

Potential Interfering Stations Included in above Scenario 2

13A MT BOZEMAN	DTVPLN	DTVP0449	PLN
13A WA SPOKANE	DTVPLN	DTVP0487	PLN

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

SECTION III-D - DTV Engineering**Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.**

Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:

(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering**TECHNICAL SPECIFICATIONS**

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1.	Channel Number: DTV 13 Analog TV, if any 13
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 47 Minutes 01 Seconds 04 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 114 Minutes 00 Seconds 47 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1000779 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 2078 meters
6.	Overall Tower Height Above Ground Level: 88 meters
7.	Height of Radiation Center Above Ground Level: 74 meters
8.	Height of Radiation Center Above Average Terrain : 610 meters
9.	Maximum Effective Radiated Power (average power): 30 kW
10.	Antenna Specifications:

a. Manufacturer RCA Model TW-12A13P	
b. Electrical Beam Tilt: 1 degrees <input type="checkbox"/> Not Applicable	
c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable	
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).	[Exhibit 42]
d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical	
e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional)	
[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]	
If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. Exhibit required.	[Exhibit 43]
11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if Certification Checklist Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?	<input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 44]
If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	
12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if Certification Checklist item 3 is answered "No.")	[Exhibit 45]
13. Environmental Protection Act. Submit in an Exhibit the following: If Certification Checklist Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site. By checking "Yes" to Certification Checklist Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines. If Certification Checklist Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.	[Exhibit 46]
PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.	

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 6/10/2008	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).