

ENGINEERING EXHIBIT

“Maximization” Application to Modify Post-Transition Digital Television Station Construction Permit

prepared for

Bluestone License Holdings Inc.

KRCR-DT Redding, CA

Facility ID 8291

Ch. 7 14.5 kW 1103 m

Bluestone License Holdings Inc. (“*Bluestone*”) is the licensee of television station KRCR-TV, analog Channel 7 and digital Channel 34, Redding, CA. A Construction Permit (“CP”, BPCDT-20080409ABQ) authorizes construction of the KRCR-DT post-transition digital facility on Channel 7, 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 KRCR-DT post-transition Channel 7 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 11.4 kW at 1103 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna. An increase in ERP to 14.5 kW is proposed herein. No other changes are proposed.

The proposed digital Channel 7 operation will employ the existing non-directional antenna system employed by KRCR-TV’s analog Channel 7. The antenna is a horizontally polarized RCA model TF-6AH. The antenna is top-mounted on the existing KRCR-TV antenna supporting structure. The overall structure elevation is less than 61 meters above ground and passes the FCC’s TOWAIR program for the transmitter location, thus FCC antenna structure registration is not necessary. 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 Redding, KRCR-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 KRCR-DT facility’s predicted service population provides a 112.6 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	403,406	462,144
Not affected by terrain losses	372,114	418,883
Lost to all interference	310	131
Net DTV Service	371,804	418,752
Match of Appendix B	---	112.63%

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 proposed 14.5 kW ERP exceeds the maximum allowed for the proposed antenna HAAT of 1103 meters currently permitted by §73.622(f)(7)(iii). Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. The total area within the proposed KRCR-DT 36 dBμ contour is 51,156 square kilometers, which does not exceed the 51,170 square kilometers within the authorized post-transition 36 dBμ contour area associated with station KIXE-DT (BPEDT-20080314ABM, Ch. 9, 15 kW at 1091 m, Redding, CA). A coverage contour comparison map is provided as **Figure 2**. Thus, the ERP specified herein is in compliance with §73.622(f)(5) of the Commission’s Rules.

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.

The nearest FCC monitoring station is 329 km distant at Livermore, CA. 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 beyond the border areas requiring international coordination.

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 20 percent antenna relative field in downward elevations (pattern data shows less than 20 percent relative field at angles 20 to 90 degrees below the antenna), the maximum calculated power density attributable to the proposed KRRCR-DT facility at locations near the transmitter site at a height of two meters above ground level is $20 \mu\text{W}/\text{cm}^2$, which is 10 percent of the “uncontrolled / general public” maximum permissible exposure (“MPE”) limit and 2 percent of the “controlled / occupational” MPE limit. The maximum exposure occurs very near to the KRRCR-DT antenna supporting structure, which is located in close proximity to other licensed TV, DTV, and FM transmitting facilities. The applicant considers the site area to be controlled by the existence of warning signs, a fence, and locked gate which serve to restrict access to authorized persons that are aware of the potential for exposure.

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.

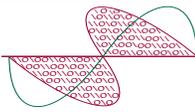
Joseph M. Davis, P.E.
June 9, 2008

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

List of Attachments

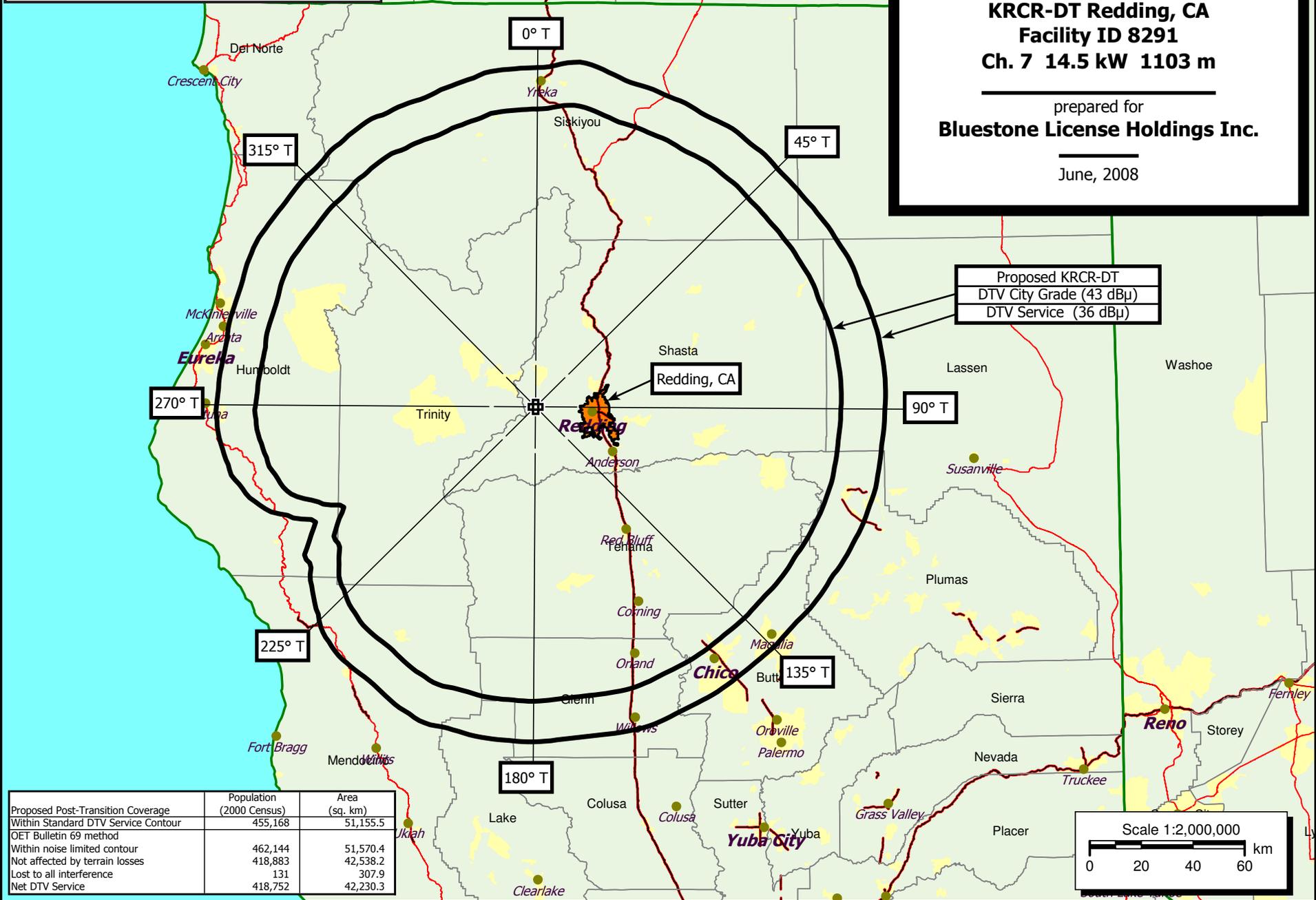
Figure 1	Proposed Coverage Contours
Figure 2	Largest Station in Market
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered June 9, 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
KRCR-DT Redding, CA
Facility ID 8291
Ch. 7 14.5 kW 1103 m
 prepared for
Bluestone License Holdings Inc.
 June, 2008



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	455,168	51,155.5
OET Bulletin 69 method		
Within noise limited contour	462,144	51,570.4
Not affected by terrain losses	418,883	42,538.2
Lost to all interference	131	307.9
Net DTV Service	418,752	42,230.3

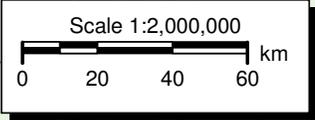


Table 1 KRCR-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 8)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-03-2008 Time: 11:38:13

Record Selected for Analysis

KRCR-DT USERRECORD-01 REDDING CA US
Channel 07 ERP 14.5 kW HAAT 1108. m RCAMSL 01925 m
Latitude 040-36-10 Longitude 0122-39-00
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 does not meet maximum height/power limits
Channel 7 ERP = 14.50 HAAT = 1108.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	14.232	1246.7	131.0
45.0	14.230	1250.6	131.1
90.0	14.127	1466.8	134.8
135.0	14.238	1232.8	130.7
180.0	14.271	1166.6	129.4
225.0	14.500	653.4	117.7
270.0	14.424	871.2	123.0
315.0	14.367	978.6	125.2

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 beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Table 1 KRCR-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 8)

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
07	KRCR-DT	REDDING CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KGO-TV	SAN FRANCISCO CA	316.9	PLN	DTVPLN	-DTV0049
07	KRNV	RENO NV	275.7	LIC	BLCDDT	-20040622ABF
07	KRNV	RENO NV	275.7	PLN	DTVPLN	-DTV0084
07	KWNV	WINNEMUCCA NV	413.3	PLN	DTVPLN	-DTV0085
08	KUNO-TV	FORT BRAGG CA	128.2	PLN	DTVPLN	-DTV0113
08	KUNO-TV	FORT BRAGG CA	128.2	CP MOD	BMPCDDT	-20080222ABO

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KGO-TV	SAN FRANCISCO CA	DTVPLN	-DTV0049

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	277.2	LIC	BLCDDT	-20021002ABH
07	KAIL	FRESNO CA	277.2	PLN	DTVPLN	-DTV0046
07	KRCR-TV	REDDING CA	316.9	PLN	DTVPLN	-DTV0048
07	KRNV	RENO NV	282.7	LIC	BLCDDT	-20040622ABF
07	KRNV	RENO NV	282.7	PLN	DTVPLN	-DTV0084
08	KSEW	SALINAS CA	139.3	APP	BMPCDDT	-20080530AFT
08	KSEW	SALINAS CA	139.3	PLN	DTVPLN	-DTV0114
08	KSEW	SALINAS CA	139.3	CP	BPCDDT	-20080313ABW
07	KRCR-DT	REDDING CA	316.9	APP	USERRECORD-01	

Total scenarios = 12

Result key: 9
Scenario 9 Affected station 1
Before Analysis

Results for: 7A CA SAN FRANCISCO DTVPLN DTV0049 PLN
HAAT 509.0 m, ATV ERP 21.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7659021	40507.4
not affected by terrain losses	7026972	35873.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	517089	3461.3
lost to ATV IX only	517089	3461.3
lost to all IX	517089	3461.3

Potential Interfering Stations Included in above Scenario 9

7A CA FRESNO	BLCDDT	20021002ABH	LIC
7A NV RENO	BLCDDT	20040622ABF	LIC
8A CA SALINAS	BMPCDDT	20080530AFT	APP
7A CA REDDING	DTVPLN	DTV0048	PLN

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

After Analysis

Results for: 7A CA SAN FRANCISCO DTVPLN DTVP0049 PLN
 HAAT 509.0 m, ATV ERP 21.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7659021	40507.4
not affected by terrain losses	7026972	35873.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	517282	3509.5
lost to ATV IX only	517282	3509.5
lost to all IX	517282	3509.5

Potential Interfering Stations Included in above Scenario 9

7A CA FRESNO	BLCDDT	20021002ABH	LIC
7A NV RENO	BLCDDT	20040622ABF	LIC
8A CA SALINAS	BMPCDT	20080530AFT	APP
7A CA REDDING	USERRECORD01		APP

Percent new IX = 0.0030%

Worst case new IX 0.0030% Scenario 9

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KRNV	RENO NV	BLCDDT	-20040622ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	252.4	LIC	BLCDDT	-20021002ABH
07	KAIL	FRESNO CA	252.4	PLN	DTVPLN	-DTVP0046
07	KRCC-TV	REDDING CA	275.7	PLN	DTVPLN	-DTVP0048
07	KGO-TV	SAN FRANCISCO CA	282.7	PLN	DTVPLN	-DTVP0049
07	KWNV	WINNEMUCCA NV	260.5	PLN	DTVPLN	-DTVP0085
08	KOLO-TV	RENO NV	0.3	PLN	DTVPLN	-DTVP0150
08	KOLO-TV	RENO NV	0.3	CP	BPCDDT	-20080501AAO
07	KRCC-DT	REDDING CA	275.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 13
 Scenario 1 Affected station 2
 Before Analysis

Results for: 7A NV RENO BLCDDT 20040622ABF LIC
 HAAT 879.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	828499	47854.2
not affected by terrain losses	697953	40375.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20709	1075.2
lost to ATV IX only	20709	1075.2
lost to all IX	20709	1075.2

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

Potential Interfering Stations Included in above Scenario 1

7A CA FRESNO	BLCDDT	20021002ABH	LIC
7A CA SAN FRANCISCO	DTVPLN	DTVP0049	PLN
7A NV WINNEMUCCA	DTVPLN	DTVP0085	PLN
7A CA REDDING	DTVPLN	DTVP0048	PLN

After Analysis

Results for: 7A NV RENO BLCDDT 20040622ABF LIC
 HAAT 879.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	828499	47854.2
not affected by terrain losses	697953	40375.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20713	1115.5
lost to ATV IX only	20713	1115.5
lost to all IX	20713	1115.5

Potential Interfering Stations Included in above Scenario 1

7A CA FRESNO	BLCDDT	20021002ABH	LIC
7A CA SAN FRANCISCO	DTVPLN	DTVP0049	PLN
7A NV WINNEMUCCA	DTVPLN	DTVP0085	PLN
7A CA REDDING	USERRECORD01		APP

Percent new IX = 0.0006%

Worst case new IX 0.0006% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KRNV	RENO NV	DTVPLN	-DTVP0084

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	252.4	LIC	BLCDDT	-20021002ABH
07	KAIL	FRESNO CA	252.4	PLN	DTVPLN	-DTVP0046
07	KRCC-TV	REDDING CA	275.7	PLN	DTVPLN	-DTVP0048
07	KGO-TV	SAN FRANCISCO CA	282.7	PLN	DTVPLN	-DTVP0049
07	KWNV	WINNEMUCCA NV	260.5	PLN	DTVPLN	-DTVP0085
08	KOLO-TV	RENO NV	0.3	PLN	DTVPLN	-DTVP0150
08	KOLO-TV	RENO NV	0.3	CP	BPCDDT	-20080501AAO
07	KRCC-DT	REDDING CA	275.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 15
 Scenario 1 Affected station 3
 Before Analysis

Results for: 7A NV RENO DTVPLN DTVP0084 PLN
 HAAT 879.0 m, ATV ERP 16.1 kW

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

	POPULATION	AREA (sq km)
within Noise Limited Contour	828499	47854.2
not affected by terrain losses	697953	40375.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20709	1075.2
lost to ATV IX only	20709	1075.2
lost to all IX	20709	1075.2

Potential Interfering Stations Included in above Scenario 1

Call	City/State	Application Ref. No.
7A CA FRESNO	BLCDDT 20021002ABH	LIC
7A CA SAN FRANCISCO	DTVPLN DTVP0049	PLN
7A NV WINNEMUCCA	DTVPLN DTVP0085	PLN
7A CA REDDING	DTVPLN DTVP0048	PLN

After Analysis

Results for: 7A NV RENO DTVP0084 PLN
HAAT 879.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	828499	47854.2
not affected by terrain losses	697953	40375.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20713	1115.5
lost to ATV IX only	20713	1115.5
lost to all IX	20713	1115.5

Potential Interfering Stations Included in above Scenario 1

Call	City/State	Application Ref. No.
7A CA FRESNO	BLCDDT 20021002ABH	LIC
7A CA SAN FRANCISCO	DTVPLN DTVP0049	PLN
7A NV WINNEMUCCA	DTVPLN DTVP0085	PLN
7A CA REDDING	USERRECORD01	APP

Percent new IX = 0.0006%

Worst case new IX 0.0006% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	KWNV	WINNEMUCCA NV	DTVPLN -DTVP0085

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	KRCR-TV	REDDING CA	413.3	PLN	DTVPLN -DTVP0048
07	KTVB	BOISE ID	334.2	PLN	DTVPLN -DTVP0060
07	KTVB	BOISE ID	334.2	CP	BPCDDT -20080314AAC
07	KRNV	RENO NV	260.5	LIC	BLCDDT -20040622ABF
07	KRNV	RENO NV	260.5	PLN	DTVPLN -DTVP0084
07	KRCR-DT	REDDING CA	413.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KUNO-TV	FORT BRAGG CA	DTVPLN -DTVP0113

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	KRCR-TV	REDDING CA	128.2	PLN	DTVPLN -DTVP0048
08	KSBW	SALINAS CA	373.5	APP	BMPDDT -20080530AFT
08	KSBW	SALINAS CA	373.5	PLN	DTVPLN -DTVP0114
08	KSBW	SALINAS CA	373.5	CP	BPCDDT -20080313ABW
08	KOLO-TV	RENO NV	319.7	PLN	DTVPLN -DTVP0150
08	KOLO-TV	RENO NV	319.7	CP	BPCDDT -20080501AAO
08	KSYS	MEDFORD OR	334.5	CP MOD	BMPDDT -20080214AHW
08	KSYS	MEDFORD OR	334.5	PLN	DTVPLN -DTVP0156
09	KIXE-TV	REDDING CA	128.1	PLN	DTVPLN -DTVP0182
09	KIXE-TV	REDDING CA	128.1	CP	BPEDT -20080314ABM
07	KRCR-DT	REDDING CA	128.2	APP	USERRECORD-01

Total scenarios = 12

Result key: 17
Scenario 1 Affected station 5
Before Analysis

Results for: 8A CA FORT BRAGG DTVP0113 PLN
HAAT 733.0 m, ATV ERP 44.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	243857	47335.5
not affected by terrain losses	143359	38940.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	687	188.3
lost to ATV IX only	687	188.3
lost to all IX	687	188.3

Potential Interfering Stations Included in above Scenario 1

Call	City/State	Application Ref. No.
8A CA SALINAS	DTVPLN DTVP0114	PLN
8A NV RENO	DTVPLN DTVP0150	PLN
9A CA REDDING	DTVPLN DTVP0182	PLN
7A CA REDDING	DTVPLN DTVP0048	PLN

After Analysis

Results for: 8A CA FORT BRAGG DTVP0113 PLN
HAAT 733.0 m, ATV ERP 44.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	243857	47335.5
not affected by terrain losses	143359	38940.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	687	192.3
lost to ATV IX only	687	192.3
lost to all IX	687	192.3

Potential Interfering Stations Included in above Scenario 1

Call	City/State	Application Ref. No.
8A CA SALINAS	DTVPLN DTVP0114	PLN

Table 1 KRCC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 8)

8A NV RENO	DTVPLN	DTVP0150	PLN
9A CA REDDING	DTVPLN	DTVP0182	PLN
7A CA REDDING	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KUNO-TV	FORT BRAGG CA	BMPCDT	-20080222ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KRCR-TV	REDDING CA	128.2	PLN	DTVPLN	-DTV0048
08	KSBW	SALINAS CA	373.5	APP	BMPCDT	-20080530AFT
08	KSBW	SALINAS CA	373.5	PLN	DTVPLN	-DTV0114
08	KSBW	SALINAS CA	373.5	CP	BPCDT	-20080313ABW
08	KOLO-TV	RENO NV	319.7	PLN	DTVPLN	-DTV0150
08	KOLO-TV	RENO NV	319.7	CP	BPCDT	-20080501AAO
08	KSYS	MEDFORD OR	334.5	CP MOD	BMPEDT	-20080214AHW
08	KSYS	MEDFORD OR	334.5	PLN	DTVPLN	-DTV0156
09	KIXE-TV	REDDING CA	128.1	PLN	DTVPLN	-DTV0182
09	KIXE-TV	REDDING CA	128.1	CP	BPEDT	-20080314ABM
07	KRCR-DT	REDDING CA	128.2	APP	USERRECORD-01	

Total scenarios = 24

Result key: 29
Scenario 1 Affected station 6
Before Analysis

Results for: 8A CA FORT BRAGG BMPCDT 20080222ABO CP
HAAT 744.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	191699	38955.8
not affected by terrain losses	137102	31285.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1565	204.1
lost to ATV IX only	1565	204.1
lost to all IX	1565	204.1

Potential Interfering Stations Included in above Scenario 1

8A CA SALINAS	DTVPLN	DTVP0114	PLN
8A NV RENO	DTVPLN	DTVP0150	PLN
8A OR MEDFORD	BMPEDT	20080214AHW	CP
9A CA REDDING	DTVPLN	DTVP0182	PLN

After Analysis

Results for: 8A CA FORT BRAGG BMPCDT 20080222ABO CP
HAAT 744.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	191699	38955.8

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

not affected by terrain losses	137102	31285.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1565	212.1
lost to ATV IX only	1565	212.1
lost to all IX	1565	212.1

Potential Interfering Stations Included in above Scenario 1

8A CA SALINAS	DTVPLN	DTVP0114	PLN
8A NV RENO	DTVPLN	DTVP0150	PLN
8A OR MEDFORD	BMPEDT	20080214AHW	CP
9A CA REDDING	DTVPLN	DTVP0182	PLN
7A CA REDDING	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KRCR-DT	REDDING CA	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KGO-TV	SAN FRANCISCO CA	316.9	PLN	DTVPLN	-DTV0049
07	KRNV	RENO NV	275.7	LIC	BLCDDT	-20040622ABF
07	KRNV	RENO NV	275.7	PLN	DTVPLN	-DTV0084
07	KWNV	WINNEMUCCA NV	413.3	PLN	DTVPLN	-DTV0085
08	KUNO-TV	FORT BRAGG CA	128.2	PLN	DTVPLN	-DTV0113
08	KUNO-TV	FORT BRAGG CA	128.2	CP MOD	BMPCDT	-20080222ABO

Total scenarios = 2

Result key: 53
Scenario 1 Affected station 7
Before Analysis

Results for: 7A CA REDDING USERRECORD01 APP
HAAT 1108.0 m, ATV ERP 14.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	462144	51570.4
not affected by terrain losses	418883	42538.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	131	307.9
lost to ATV IX only	131	307.9
lost to all IX	131	307.9

Potential Interfering Stations Included in above Scenario 1

7A CA SAN FRANCISCO	DTVPLN	DTVP0049	PLN
8A CA FORT BRAGG	DTVPLN	DTVP0113	PLN

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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.	
<p>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.</p> <p>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.</p>	
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 7 Analog TV, if any 7
2. Zone:	<input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3. Antenna Location Coordinates: (NAD 27)	Latitude: Degrees 40 Minutes 36 Seconds 10 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 122 Minutes 39 Seconds 0 <input checked="" type="radio"/> West <input type="radio"/> East
4. Antenna Structure Registration Number:	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level:	1892 meters
6. Overall Tower Height Above Ground Level:	38 meters
7. Height of Radiation Center Above Ground Level:	33 meters
8. Height of Radiation Center Above Average Terrain :	1103 meters
9. Maximum Effective Radiated Power (average power):	14.5 kW
10. Antenna Specifications:	

a. Manufacturer RCA Model TF-6AH

b. Electrical Beam Tilt:
degrees Not Applicable

c. Mechanical Beam Tilt:
degrees toward azimuth
degrees True Not Applicable
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 42]

d. Polarization:
 Horizontal Circular Elliptical

e. Directional Antenna Relative Field Values: 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? Yes 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: [Exhibit 46]
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.

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 6/9/2008	
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).