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

ENGINEERING EXHIBIT

Request for
Special Temporary Authorization

prepared for

Bluestone License Holdings Inc.
KRCR-TV Redding, CA
Facility ID 8291

Bluestone License Holdings Inc. ("Bluestone") is the licensee of KRCR-TV, Redding, CA, Facility ID 8291. During the pre-transition period, KRCR-TV operated on digital Channel 34 (BLCT-1664). A Construction Permit ("CP", BMPCDT-20080613ABE) authorizes construction of the KRCR-TV post-transition digital facility on VHF Channel 7, its former analog channel. KRCR-TV is presently operating on Channel 7 pursuant to the CP and a license application is pending to cover the construction (BLCDT- 20090622AEG). This statement supports *Bluestone's* request for Special Temporary Authority ("STA") to increase KRCR-TV's effective radiated power on digital Channel 7.

Since switching to Channel 7 on the transition date, KRCR-TV has received numerous calls regarding reception problems, particularly regarding indoor reception, as described elsewhere in the STA request. Problems with digital VHF reception by other stations have been widely publicized since the transition date. It has been found that indoor reception is difficult for digital VHF stations such as KRCR-TV due to the longer wavelength signal's inability to readily pass through buildings (the windows are smaller than the wavelength size), the ineffectiveness of many indoor antennas many of which were designed to emphasize the shorter wavelengths for UHF reception, and issues regarding manmade and environmental noise.

The proposed STA would allow KRCR-TV to operate with the authorized antenna at 25.2 kW ERP to aid indoor reception, pending further disposition as to how to recover its analog viewers. The proposed STA would increase KRCR-TV's power by a factor of 1.74 (2.4 dB). The

existing transmitter has capacity to accomplish the power increase upon FCC grant of the STA. The current 2.44 kW transmitter power output will be raised to 4.25 kW.

FCC Staff has informally advised that the STA request should provide a determination as to the power level required to eliminate the reception problem, and that the request should be limited to the power level necessary to restore service. In response, the proposed 2.4 dB increase in power is not expected to entirely solve the problem, but could make substantial progress. The proposed power level was chosen as it represents the maximum power level that can be achieved by the existing transmitting equipment's excess capacity. The proposed power increase can be implemented immediately upon FCC approval.

At this point in the transition, it is impossible to determine an exact power level that would be required to solve the problem. Only extensive field testing involving a statistically sound quantity of receiving locations and configurations will yield this information. Such testing would need to consider locations nearby the transmitter all the way to the outer fringe of the intended service area; to consider urban, suburban, and rural areas; and to consider all types of antenna configurations including indoor and outdoor antennas presently in use and available. Absent such a comprehensive set of field tests to establish baseline signal levels for actual reception under these scenarios, a target minimum power level cannot be determined.

Published reports do provide a starting point for the amount of additional power necessary. For example, a report[1] by MSW regarding detailed testing of over 100 indoor antennas shows that some are designed for UHF reception only and yield poor performance on the VHF band. The report indicates that VHF performance varies greatly even for antennas intended for VHF and UHF reception, with one antenna even found to have a "gain" of -10 dB on VHF frequencies (in other words, a 10 dB loss) even though a preamplifier was integral to the unit. Of concern was that the report indicates that most indoor antennas tested had a high return loss resulting in impedance mismatch to the receiver. Such impedance mismatch results in a significant signal loss at the input terminal of the receiver.

[1] *"A Report on Television Indoor Antenna Performance Attributes"* Gary Sgrignoli, and Dennis Wallace of Meintel, Sgrignoli & Wallace *(MSW),* May 8, 2007.

An IEEE Transactions[2] report examining the planning factors indicates that "expected noise levels could be higher than originally estimated by more than 20 dB at VHF frequencies …" and suggests that "the effective noise figure for single-conversion receivers, including the VSWR effect of practical antennas, be raised from 7 dB to 12 dB for all bands." It is noted that the VSWR effect cited by the IEEE Transactions report is the same problem of impedance mismatch (return loss) found in the MSW measurements. In any event, these reports suggest that the VHF power levels are insufficient by much more than the 2.4 dB requested herein for KRCR-TV. Thus, it can be concluded that the proposed 2.4 dB power increase does not exceed that necessary to restore service.

The proposed 25.2 kW ERP exceeds the §73.622(f) power limit for 1103 m HAAT. A waiver of §73.622(f) is requested if necessary. A coverage contour map is supplied as **Figure 1,** demonstrating compliance with §73.625(a)(1) concerning principal community coverage. Although the contours are plotted in the usual manner, the STA's purpose is not intended to expand KRCR-TV's coverage but rather to provide better service within its principal community and other areas close-in to the facility.

A detailed interference study per OET Bulletin 69[3] shows that the proposed power increase does not cause impermissible interference to any other station. Of the full-power stations near enough for consideration, only KGO-TV (Ch. 7, San Francisco, CA) is predicted to receive any new interference, 0.21 percent interference to its Construction Permit facility and 0.14 percent to its Appendix B facility. Therefore, the proposed STA facility complies with the 0.5 percent interference limit of §73.616(e). This limit is also applied with respect to the post-transition STA facilities contemplated in the Report and Order in the Third Periodic Review.[4] The interference

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[2] *"Planning Factors for Fixed and Portable DTTV Reception"* Oded Bendov, Yiyan Wu, Charles W. Rhodes, and John F.X. Browne," IEEE Transactions of Broadcasting, Vol. 50, No. 3, September 2004.

[3] FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). 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.

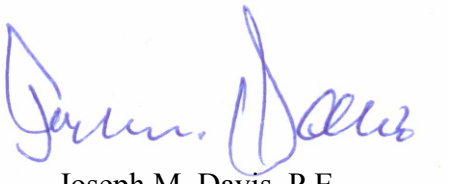
[4] *Third Periodic Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television,*

study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

Regarding RF exposure, calculations per OET Bulletin Number 65 considering 20 percent antenna relative field in downward elevations show that the signal density near the tower at two meters above ground level attributable to the proposed facility is 35 $\mu W/cm^2$, which is 17.5 percent of the general population/uncontrolled maximum permitted exposure limit and 3.5 percent of the occupational/controlled limit. The maximum exposure area is very close to the KRCR-TV site, which the applicant considers to be a controlled area 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.
July 9, 2009

Chesapeake RF Consultants, LLC
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Manassas, VA 20112
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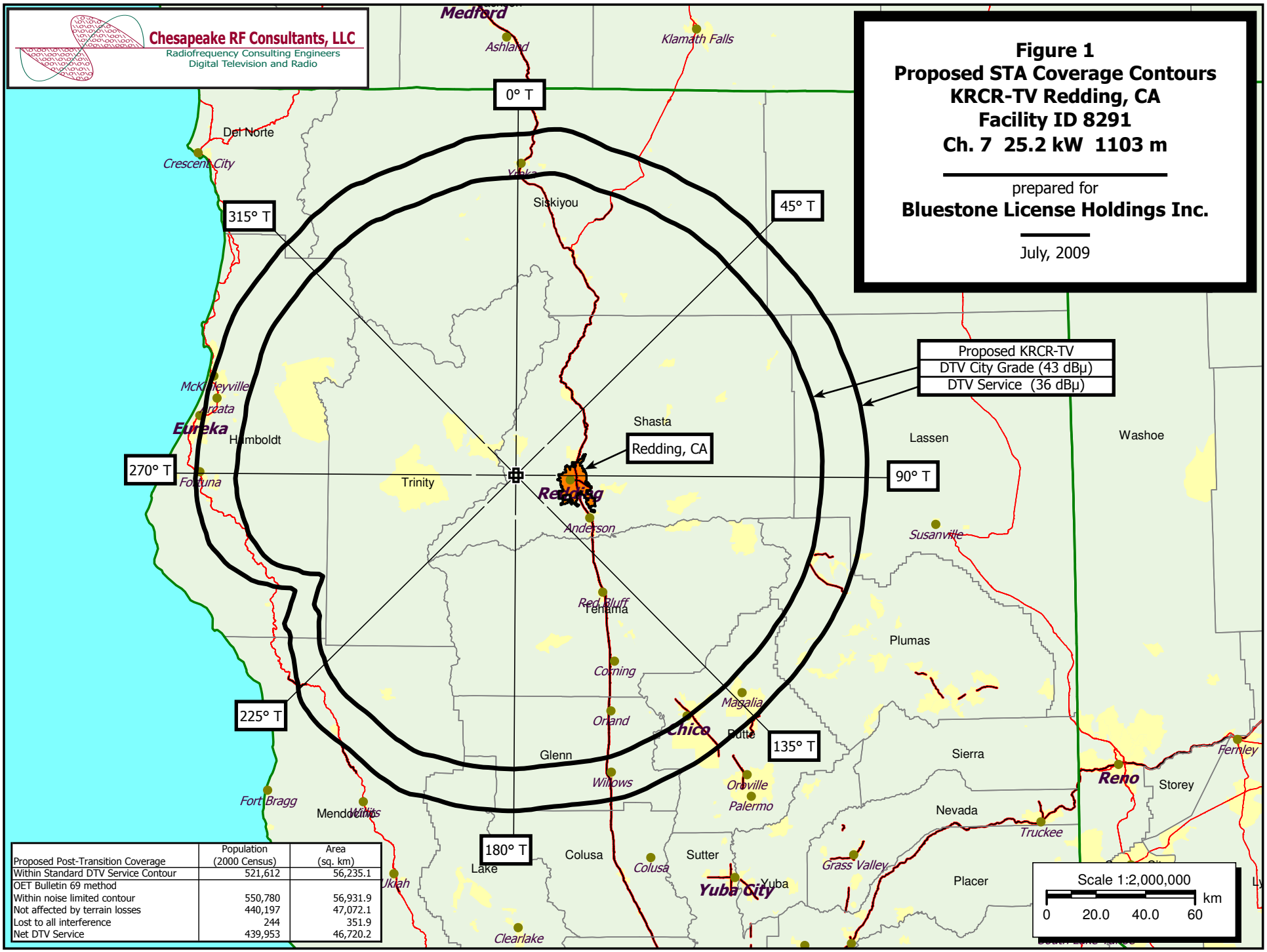
List of Attachments

Figure 1 Proposed STA Coverage Contours
Table 1 OET Bulletin 69 Interference Study



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	521,612	56,235.1
OET Bulletin 69 method		
Within noise limited contour	550,780	56,931.9
Not affected by terrain losses	440,197	47,072.1
Lost to all interference	244	351.9
Net DTV Service	439,953	46,720.2

Table 1 KRCR-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 10)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-09-2009 Time: 13:16:00

Record Selected for Analysis

KRCR-DT USERRECORD-01 REDDING CA US
Channel 07 ERP 25.2 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 = 25.20 HAAT = 1108.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	24.741	1246.7	137.7
45.0	24.738	1250.6	137.7
90.0	24.565	1466.8	141.4
135.0	24.752	1232.8	137.4
180.0	24.807	1166.6	136.0
225.0	25.200	653.4	123.7
270.0	25.064	871.2	129.2
315.0	24.968	978.6	131.6

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

Table 1 KRCR-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 10)

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Proposed Station

Channel	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	317.0	CP MOD	BMPCDT	-20090623AAU
07	KGO-TV	SAN FRANCISCO CA	316.9	PLN	DTVPLN	-DTVP0050
07	KRNV-DT	RENO NV	275.7	LIC	BLCDT	-20040622ABF
07	KRNV	RENO NV	275.7	PLN	DTVPLN	-DTVP0085
07	KWNV	WINNEMUCCA NV	413.3	CP	BPCDT	-20080619ACG
07	KWNV	WINNEMUCCA NV	413.3	PLN	DTVPLN	-DTVP0086
08	KUNO-TV	FORT BRAGG CA	128.2	CP MOD	BMPCDT	-20080222ABO
08	KUNO-TV	FORT BRAGG CA	128.2	PLN	DTVPLN	-DTVP0115

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KGO-TV	SAN FRANCISCO CA	BMPCDT	-20090623AAU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	277.2	LIC	BLCDT	-20021002ABH
07	KAIL	FRESNO CA	277.2	PLN	DTVPLN	-DTVP0047
07	KRCR-TV	REDDING CA	317.0	PLN	DTVPLN	-DTVP0049
07	KRNV-DT	RENO NV	282.7	LIC	BLCDT	-20040622ABF
07	KRNV	RENO NV	282.7	PLN	DTVPLN	-DTVP0085
08	KSBW	SALINAS CA	139.3	CP MOD	BMPCDT	-20080530AFT
08	KSBW	SALINAS CA	139.3	PLN	DTVPLN	-DTVP0116
07	KRCR-DT	REDDING CA	317.0	APP	USERRECORD-01	

Total scenarios = 8

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 7A CA SAN FRANCISCO BMPCDT 20090623AAU CP
HAAT 519.0 m, ATV ERP 23.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7719186	41740.0
not affected by terrain losses	7124965	37009.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	576145	3730.7
lost to ATV IX only	576145	3730.7
lost to all IX	576145	3730.7

Potential Interfering Stations Included in above Scenario 1

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 7A CA FRESNO               BLCDT     20021002ABH  LIC
 7A NV RENO                 BLCDT     20040622ABF  LIC
 8A CA SALINAS              BMPCDT    20080530AFT  CP
 7A CA REDDING              DTVPLN    DTVP0049     PLN

After Analysis

Results for:  7A CA SAN FRANCISCO        BMPCDT    20090623AAU  CP
   HAAT  519.0 m, ATV ERP   23.8 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour     7719186      41740.0
   not affected by terrain losses   7124965      37009.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      590003       3931.4
   lost to ATV IX only               590003       3931.4
   lost to all IX                    590003       3931.4

 Potential Interfering Stations Included in above Scenario     1

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

Percent new IX =    0.2116%

Worst case new IX    0.2116% Scenario      1

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     Analysis of Interference to Affected Station   2


Analysis of current record
Channel     Call          City/State        Application Ref. No.
   07      KGO-TV     SAN FRANCISCO CA          DTVPLN    -DTVP0050

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   KAIL     FRESNO CA               277.2  LIC    BLCDT     -20021002ABH
 07   KAIL     FRESNO CA               277.2  PLN    DTVPLN    -DTVP0047
 07   KRCR-TV  REDDING CA              316.9  PLN    DTVPLN    -DTVP0049
 07   KRNV-DT  RENO NV                 282.7  LIC    BLCDT     -20040622ABF
 07   KRNV     RENO NV                 282.7  PLN    DTVPLN    -DTVP0085
 08   KSBW     SALINAS CA              139.3  CP MOD BMPCDT    -20080530AFT
 08   KSBW     SALINAS CA              139.3  PLN    DTVPLN    -DTVP0116
 07   KRCR-DT  REDDING CA              316.9  APP    USERRECORD-01

 Total scenarios =   8


Result key:        9
Scenario        1  Affected station        2
Before Analysis

Results for:  7A CA SAN FRANCISCO        DTVPLN    DTVP0050     PLN
   HAAT  509.0 m, ATV ERP   21.0 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour     7659021      40507.4
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   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     1

 7A CA FRESNO               BLCDT     20021002ABH  LIC
 7A NV RENO                 BLCDT     20040622ABF  LIC
 8A CA SALINAS              BMPCDT    20080530AFT  CP
 7A CA REDDING              DTVPLN    DTVP0049     PLN

After Analysis

Results for:  7A CA SAN FRANCISCO        DTVPLN    DTVP0050     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      526272       3621.9
   lost to ATV IX only               526272       3621.9
   lost to all IX                    526272       3621.9

 Potential Interfering Stations Included in above Scenario     1

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

Percent new IX =    0.1411%

Worst case new IX    0.1411% 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-DT    RENO NV                   BLCDT     -20040622ABF

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   KAIL     FRESNO CA               252.4  LIC    BLCDT     -20021002ABH
 07   KAIL     FRESNO CA               252.4  PLN    DTVPLN    -DTVP0047
 07   KRCR-TV  REDDING CA              275.7  PLN    DTVPLN    -DTVP0049
 07   KGO-TV   SAN FRANCISCO CA        282.7  CP MOD BMPCDT    -20090623AAU
 07   KGO-TV   SAN FRANCISCO CA        282.7  PLN    DTVPLN    -DTVP0050
 07   KWNV     WINNEMUCCA NV           260.5  CP     BPCDT     -20080619ACG
 07   KWNV     WINNEMUCCA NV           260.5  PLN    DTVPLN    -DTVP0086
 08   KOLO-TV  RENO NV                   0.3  CP     BPCDT     -20080501AAO
 08   KOLO-TV  RENO NV                   0.3  PLN    DTVPLN    -DTVP0152
 07   KRCR-DT  REDDING CA              275.7  APP    USERRECORD-01

 Total scenarios =   8
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Result key:       17
Scenario        1  Affected station        3
Before Analysis

Results for:  7A NV RENO                BLCDT     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       20733       1079.3
   lost to ATV IX only                20733       1079.3
   lost to all IX                     20733       1079.3

 Potential Interfering Stations Included in above Scenario     1

 7A CA FRESNO               BLCDT     20021002ABH  LIC
 7A CA SAN FRANCISCO        BMPCDT    20090623AAU  CP
 7A NV WINNEMUCCA           BPCDT     20080619ACG  CP
 7A CA REDDING              DTVPLN    DTVP0049     PLN

After Analysis

Results for:  7A NV RENO                BLCDT     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       20739       1151.8
   lost to ATV IX only                20739       1151.8
   lost to all IX                     20739       1151.8

 Potential Interfering Stations Included in above Scenario     1

 7A CA FRESNO               BLCDT     20021002ABH  LIC
 7A CA SAN FRANCISCO        BMPCDT    20090623AAU  CP
 7A NV WINNEMUCCA           BPCDT     20080619ACG  CP
 7A CA REDDING              USERRECORD01           APP

Percent new IX =    0.0009%

Worst case new IX    0.0009% 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      KRNV       RENO NV                  DTVPLN    -DTVP0085

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   KAIL     FRESNO CA               252.4  LIC    BLCDT     -20021002ABH
 07   KAIL     FRESNO CA               252.4  PLN    DTVPLN    -DTVP0047
 07   KRCR-TV  REDDING CA              275.7  PLN    DTVPLN    -DTVP0049
 07   KGO-TV   SAN FRANCISCO CA        282.7  CP MOD BMPCDT    -20090623AAU
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 07   KGO-TV   SAN FRANCISCO CA          282.7  PLN    DTVPLN    -DTVP0050
 07   KWNV     WINNEMUCCA NV             260.5  CP     BPCDT     -20080619ACG
 07   KWNV     WINNEMUCCA NV             260.5  PLN    DTVPLN    -DTVP0086
 08   KOLO-TV  RENO NV                     0.3  CP     BPCDT     -20080501AAO
 08   KOLO-TV  RENO NV                     0.3  PLN    DTVPLN    -DTVP0152
 07   KRCR-DT  REDDING CA                275.7  APP    USERRECORD-01

 Total scenarios =   8


Result key:       25
Scenario        1  Affected station        4
Before Analysis

Results for:  7A NV RENO                DTVPLN    DTVP0085     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       20733       1079.3
   lost to ATV IX only                20733       1079.3
   lost to all IX                     20733       1079.3

 Potential Interfering Stations Included in above Scenario     1

 7A CA FRESNO               BLCDT     20021002ABH  LIC
 7A CA SAN FRANCISCO        BMPCDT    20090623AAU  CP
 7A NV WINNEMUCCA           BPCDT     20080619ACG  CP
 7A CA REDDING              DTVPLN    DTVP0049     PLN

After Analysis

Results for:  7A NV RENO                DTVPLN    DTVP0085     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       20739       1151.8
   lost to ATV IX only                20739       1151.8
   lost to all IX                     20739       1151.8

 Potential Interfering Stations Included in above Scenario     1

 7A CA FRESNO               BLCDT     20021002ABH  LIC
 7A CA SAN FRANCISCO        BMPCDT    20090623AAU  CP
 7A NV WINNEMUCCA           BPCDT     20080619ACG  CP
 7A CA REDDING              USERRECORD01           APP

Percent new IX =    0.0009%

Worst case new IX    0.0009% Scenario      1

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     Analysis of Interference to Affected Station   5


Analysis of current record
Channel     Call           City/State        Application Ref. No.
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   07      KWNV       WINNEMUCCA NV             BPCDT     -20080619ACG

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   KRCR-TV  REDDING CA               413.3  PLN    DTVPLN    -DTVP0049
 07   KTVB     BOISE ID                 334.2  APP    BPCDT     -20090623ABE
 07   KTVB     BOISE ID                 334.2  PLN    DTVPLN    -DTVP0061
 07   KTVB     BOISE ID                 334.2  CP MOD BMPCDT    -20080617ADX
 07   KRNV-DT  RENO NV                  260.5  LIC    BLCDT     -20040622ABF
 07   KRNV     RENO NV                  260.5  PLN    DTVPLN    -DTVP0085
 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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     Analysis of Interference to Affected Station   6


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   07      KWNV       WINNEMUCCA NV            DTVPLN    -DTVP0086

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   KRCR-TV  REDDING CA               413.3  PLN    DTVPLN    -DTVP0049
 07   KTVB     BOISE ID                 334.2  APP    BPCDT     -20090623ABE
 07   KTVB     BOISE ID                 334.2  PLN    DTVPLN    -DTVP0061
 07   KTVB     BOISE ID                 334.2  CP MOD BMPCDT    -20080617ADX
 07   KRNV-DT  RENO NV                  260.5  LIC    BLCDT     -20040622ABF
 07   KRNV     RENO NV                  260.5  PLN    DTVPLN    -DTVP0085
 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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     Analysis of Interference to Affected Station   7


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    -DTVP0049
 08   KSBW     SALINAS CA               373.5  CP MOD BMPCDT    -20080530AFT
 08   KSBW     SALINAS CA               373.5  PLN    DTVPLN    -DTVP0116
 08   KOLO-TV  RENO NV                  319.7  CP     BPCDT     -20080501AAO
 08   KOLO-TV  RENO NV                  319.7  PLN    DTVPLN    -DTVP0152
 08   KSYS     MEDFORD OR               334.5  CP MOD BMPEDT    -20080214AHW
 08   KSYS     MEDFORD OR               334.5  PLN    DTVPLN    -DTVP0158
 09   KIXE-TV  REDDING CA               128.1  CP     BPEDT     -20080314ABM
 09   KIXE-TV  REDDING CA               128.1  PLN    DTVPLN    -DTVP0184
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 07   KRCR-DT  REDDING CA               128.2  APP    USERRECORD-01

 Total scenarios =   16


Result key:       33
Scenario        1  Affected station        7
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        3999        236.1
   lost to ATV IX only                 3999        236.1
   lost to all IX                      3999        236.1

 Potential Interfering Stations Included in above Scenario     1

 8A CA SALINAS              BMPCDT    20080530AFT  CP
 8A NV RENO                 BPCDT     20080501AAO  CP
 8A OR MEDFORD              BMPEDT    20080214AHW  CP
 9A CA REDDING              BPEDT     20080314ABM  CP

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
   not affected by terrain losses    137102      31285.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV        3999        240.1
   lost to ATV IX only                 3999        240.1
   lost to all IX                      3999        240.1

 Potential Interfering Stations Included in above Scenario     1

 8A CA SALINAS              BMPCDT    20080530AFT  CP
 8A NV RENO                 BPCDT     20080501AAO  CP
 8A OR MEDFORD              BMPEDT    20080214AHW  CP
 9A CA REDDING              BPEDT     20080314ABM  CP
 7A CA REDDING              USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

########################################################################


     Analysis of Interference to Affected Station   8


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   08      KUNO-TV    FORT BRAGG CA            DTVPLN    -DTVP0115

     Stations Potentially Affecting This Station
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Table 1 KRCR-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 10)

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KRCR-TV	REDDING CA	128.2	PLN	DTVPLN	-DTVP0049
08	KSBW	SALINAS CA	373.5	CP MOD	BMPCDT	-20080530AFT
08	KSBW	SALINAS CA	373.5	PLN	DTVPLN	-DTVP0116
08	KOLO-TV	RENO NV	319.7	CP	BPCDT	-20080501AAO
08	KOLO-TV	RENO NV	319.7	PLN	DTVPLN	-DTVP0152
08	KSYS	MEDFORD OR	334.5	CP MOD	BMPEDT	-20080214AHW
08	KSYS	MEDFORD OR	334.5	PLN	DTVPLN	-DTVP0158
09	KIXE-TV	REDDING CA	128.1	CP	BPEDT	-20080314ABM
09	KIXE-TV	REDDING CA	128.1	PLN	DTVPLN	-DTVP0184
07	KRCR-DT	REDDING CA	128.2	APP	USERRECORD-01	

Total scenarios = 8

Result key: 50
Scenario 2 Affected station 8
Before Analysis

Results for: 8A CA FORT BRAGG DTVPLN DTVP0115 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	758	208.3
lost to ATV IX only	758	208.3
lost to all IX	758	208.3

Potential Interfering Stations Included in above Scenario 2

8A CA SALINAS	BMPCDT	20080530AFT	CP
8A NV RENO	BPCDT	20080501AAO	CP
9A CA REDDING	DTVPLN	DTVP0184	PLN
7A CA REDDING	DTVPLN	DTVP0049	PLN

After Analysis

Results for: 8A CA FORT BRAGG DTVPLN DTVP0115 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	761	248.3
lost to ATV IX only	761	248.3
lost to all IX	761	248.3

Potential Interfering Stations Included in above Scenario 2

8A CA SALINAS	BMPCDT	20080530AFT	CP
8A NV RENO	BPCDT	20080501AAO	CP
9A CA REDDING	DTVPLN	DTVP0184	PLN
7A CA REDDING	USERRECORD01		APP

Percent new IX = 0.0021%

Worst case new IX 0.0021% Scenario 2

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Analysis of Interference to Affected Station 9

Table 1 KRCR-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 10)

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	317.0	CP MOD	BMPCDT	-20090623AAU
07	KGO-TV	SAN FRANCISCO CA	316.9	PLN	DTVPLN	-DTVP0050
07	KRNV-DT	RENO NV	275.7	LIC	BLCDT	-20040622ABF
07	KRNV	RENO NV	275.7	PLN	DTVPLN	-DTVP0085
07	KWNV	WINNEMUCCA NV	413.3	CP	BPCDT	-20080619ACG
07	KWNV	WINNEMUCCA NV	413.3	PLN	DTVPLN	-DTVP0086
08	KUNO-TV	FORT BRAGG CA	128.2	CP MOD	BMPCDT	-20080222ABO
08	KUNO-TV	FORT BRAGG CA	128.2	PLN	DTVPLN	-DTVP0115

Total scenarios = 4

Result key: 57
Scenario 1 Affected station 9
Before Analysis

Results for: 7A CA REDDING USERRECORD01 APP
HAAT 1108.0 m, ATV ERP 25.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	550780	56931.9
not affected by terrain losses	440197	47072.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	244	351.9
lost to ATV IX only	244	351.9
lost to all IX	244	351.9

Potential Interfering Stations Included in above Scenario 1

7A CA SAN FRANCISCO	BMPCDT	20090623AAU	CP
8A CA FORT BRAGG	BMPCDT	20080222ABO	CP

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