

## **ENGINEERING EXHIBIT**

### **“Maximization” Application for Post-Transition Digital Television Station Construction Permit** prepared for

**KRCA License LLC**  
KRCA-DT Riverside, CA  
Facility ID 22161  
Ch. 35 1000 kW 906 m

*KRCA License LLC (“KLL”)* is the licensee of television station KRCA(TV), analog Channel 62 and digital Channel 68, Riverside, CA. *KLL* herein proposes construction of the KRCA-DT post-transition digital facility on Channel 35. This channel was established in MB Docket 08-30<sup>1</sup>. *KLL* herein seeks a Construction Permit to expand the KRCA-DT post-transition Channel 35 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.<sup>2</sup>

The MB Docket 08-30 parameters for KRCA-DT specify an effective radiated power (“ERP”) of 400 kW at 907 meters antenna height above average terrain (“HAAT”), with a directional antenna. These parameters are described in paragraph 7 of the underlying Notice of Proposed Rulemaking,<sup>3</sup> and include a hypothetical directional antenna pattern. *KLL* proposes an increase in ERP to 1000 kW and use of a practical directional antenna pattern. Minor coordinate and elevation changes are also specified to correspond to the actual site location and proposed antenna height.

The proposed digital Channel 35 operation will employ a Channel 35 directional antenna system to be installed on the same tower structure supporting the current KRCA operations on

---

<sup>1</sup>*Amendment of Section 73.622(i), Final DTV Table of Allotments, Television Broadcast Stations (Riverside, California)*, MB Docket No. 08-30, DA 08-1185, released May 21, 2008.

<sup>2</sup>Public 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.

<sup>3</sup>DA 08-504, released March 5, 2008 (as corrected in the erratum of March 7, 2008).

Channels 62 and 68. The proposed antenna is an elliptically polarized ERI model ATW24HS6-ESCX-35S (30 percent vertical polarization). The maximum horizontally polarized ERP is 1000 kW, and the maximum vertically polarized ERP is 300 kW. The vertically polarized component will not exceed the horizontally polarized component at any azimuth.

The antenna will employ 1.5 degrees of electrical beam tilt, along with 1.5 degrees of mechanical beamtilt at an azimuth of 175 degrees True. The antenna's horizontal plane pattern, expressed in terms of relative field<sup>4</sup> without consideration of the mechanical beamtilt, is supplied in **Figure 1** (horizontal polarization) and **Figure 1A** (vertical polarization). **Figure 1B** depicts the horizontal plane relative field pattern (horizontal polarization) with the introduction of the mechanical beamtilt, as determined towards the radio horizon along each azimuth and scaled per the Commission's policies.

**Table 1** presents a tabulation of the horizontal plane relative field pattern, to supplement the relative field data within the Form 301 Section III-D "Tech Box" (item 10e). **Table 1** includes pertinent terrain elevation data and provides the derivation of the relative field pattern towards the radio horizon. Digitized USGS 3 arc-second terrain data was employed. **Figures 2** and **2A** graphically present the theoretical vertical plane (elevation) pattern for the antenna system. Along each azimuth (considering the mechanical beamtilt), radiation at any angle above horizontal elevations does not exceed the maximum radiation realized at horizontal or below.

The antenna will be installed on an existing antenna supporting structure, having FCC Antenna Structure Registration ("ASR") number 1213941. No change to the overall structure height is proposed.

A map is supplied as **Figure 3**, which depicts the standard predicted coverage contours. This map includes the location of Riverside, KRCA-DT's principal community. As demonstrated

---

<sup>4</sup> These patterns are supplied in terms of relative field. In recent years, FCC Staff have not required pattern data in dBk format however such patterns are available upon request.

thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed KRCA-DT facility's predicted service population provides a 100.4 percent match of the Docket 08-30 allotment facility, as detailed in the table below.

<b>Post-Transition Population Summary</b>		
Population Summary (2000 Census) OET Bulletin 69 method	Docket 08-30	Proposed
Within Noise Limited Contour	16,146,216	16,150,385
Not affected by terrain losses	15,078,051	15,126,517
Lost to all interference	217,190	202,367
Net DTV Service	<b>14,860,861</b>	<b>14,924,150</b>
Match of Docket 08-30	---	<b>100.43%</b>

A detailed interference study per OET Bulletin 69<sup>5</sup> 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 employs the digital Channel 35 parameters adopted in MB Docket 08-30 as the baseline ("before") condition for KRCA-DT. Pursuant to §73.616(e)(1), FCC processing of this proposal is requested on the basis of a 1 km cell size. The interference study output report is provided as **Table 2**. Protection requirements towards authorized Class A stations are also satisfied.

The proposed 1000 kW ERP exceeds the maximum allowed for the proposed antenna HAAT of 906 meters currently permitted by §73.622(f)(6)(i). 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 KRCA-DT 41 dBμ contour is 45,809 square kilometers, which does not exceed the Appendix B coverage contour area of KNBC-DT (53,084 sq. km, Ch. 36, Los Angeles, CA) as shown in **Figure 4**. Thus, the 1000 kW ERP specified herein is in compliance with §73.622(f)(5) of the Commission's Rules.

---

<sup>5</sup>FCC 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 cell size of 1 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 511 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 within the Mexican coordination zone (206 km to the Mexico border), thus further international coordination may be necessary.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed transmitting antenna’s installation will replace an existing top-mount antenna and involve no change in overall tower height. 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. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission’s rules.

The transmitting location is on Mount Harvard overlooking the Los Angeles metropolitan area. There are numerous other transmitting facilities at this site area. According to the applicant, access to the summit of Mount Harvard is restricted and the site is considered a “controlled” area. Access to the site is restricted with locked gates and warning signs. Further, steep terrain serves to discourage and restrict casual access. Only authorized and trained personnel are permitted within 0.4 km of the site. Calculations considering actual terrain elevations near the site and the directivity of the proposed antenna system in the horizontal and vertical planes, RF density levels attributable to the proposed KRCA-DT facility will be less than five percent of the occupational / controlled Maximum Permissible Exposure (“MPE”) limit at ground level locations within the “controlled access” area. At ground level locations beyond the area restricted to the general public, calculated RF density levels attributable to the proposed KRCA-DT facility will be less than five percent of the general public / uncontrolled MPE.

Thus, the general public and workers will not be exposed to RF levels attributable to the proposal in excess of the Commission’s guidelines. RF exposure warning signs will continue to be

posted. With respect to worker safety, authorized personnel will be trained and/or supervised as necessary for access to any “controlled” areas. *KLL* 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 14, 2008

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

### List of Attachments

Figure 1, 1A, 1B	Antenna Horizontal Plane Pattern
Figure 2, 2A	Antenna Vertical Plane (Elevation) Pattern
Table 1	Antenna Pattern and Elevation Data
Figure 3	Proposed Coverage Contours
Figure 4	Largest Station in Market
Table 2	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

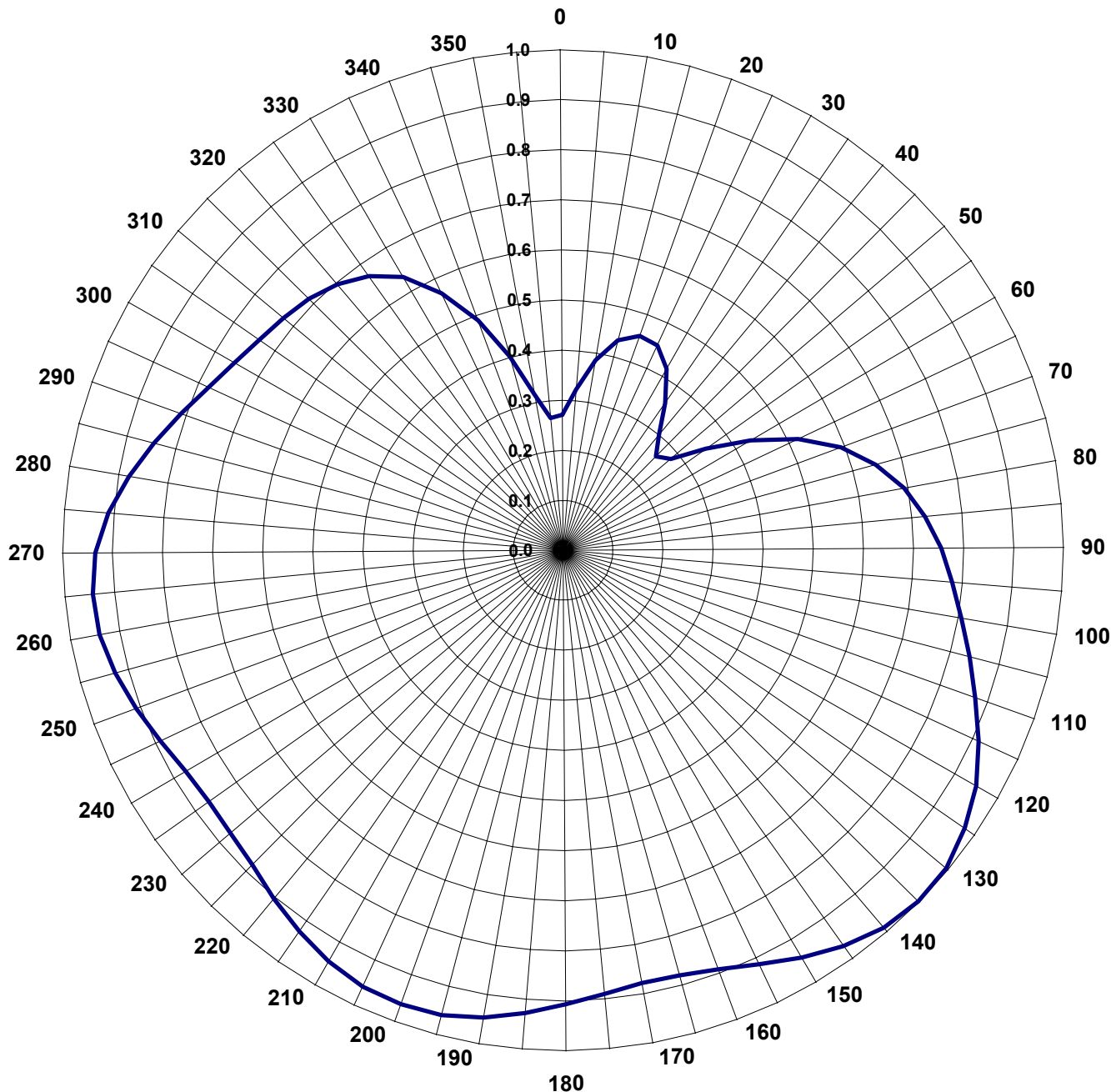
*This material was entered June 14, 2008 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.*

**Figure 1**  
**Antenna Azimuthal Main Beam Radiation Pattern**  
**Horizontal Polarization**  
**(No Consideration of Mechanical Beamtilt)**

**TYPE:****CH35HAZ-CX****Directivity:****Numeric****1.69****dB****2.28****Peak(s) at:****Polarization:****Horizontal****Frequency:****35 (Digital)****Location:****Riverside, CA**

Note: Pattern shape and directivity may vary with channel and mounting configuration.

True North

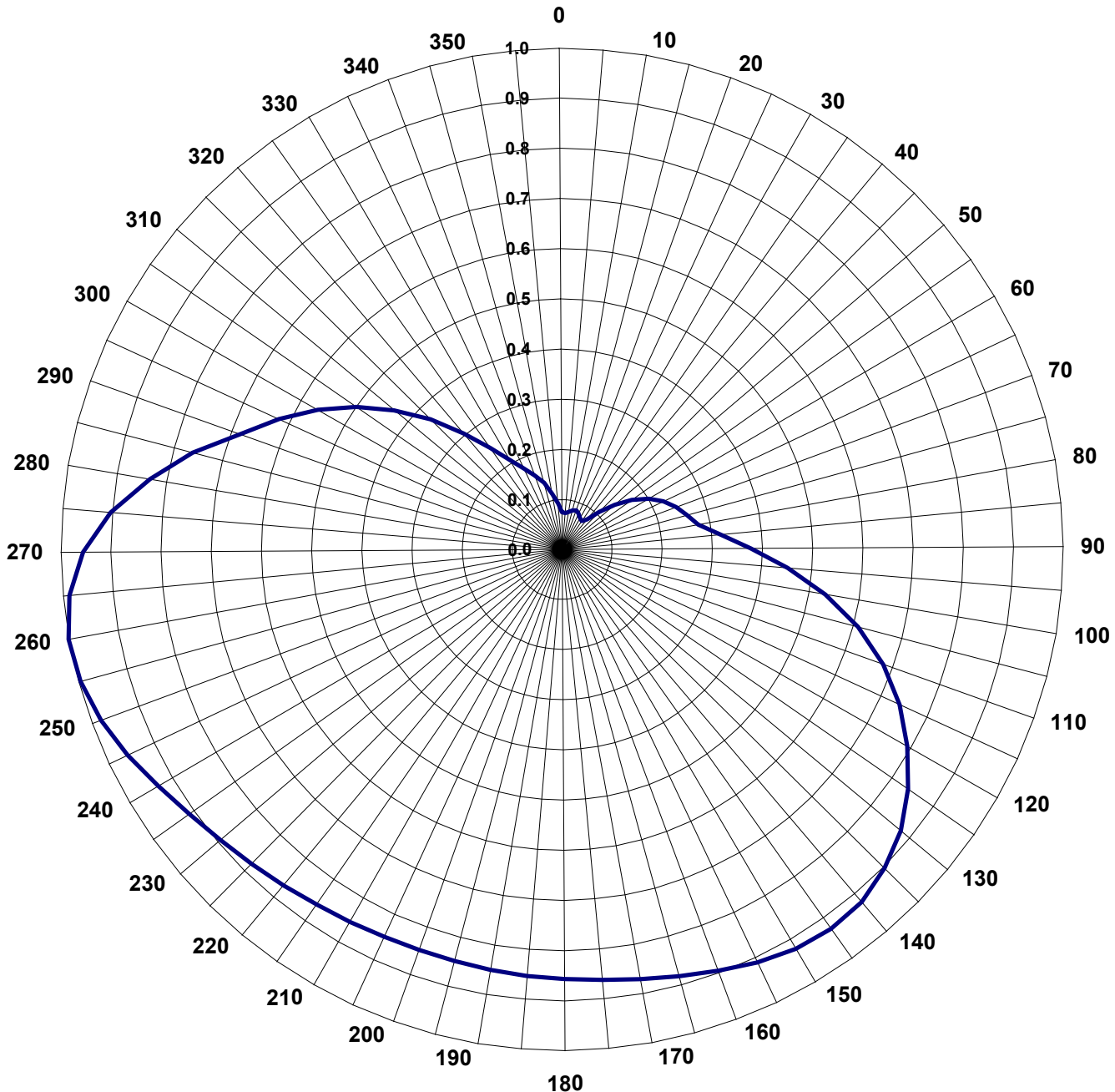


**Figure 1**  
**Antenna Azimuthal Main Beam Radiation Pattern**  
**Vertical Polarization**  
**(No Consideration of Mechanical Beamtilt)**

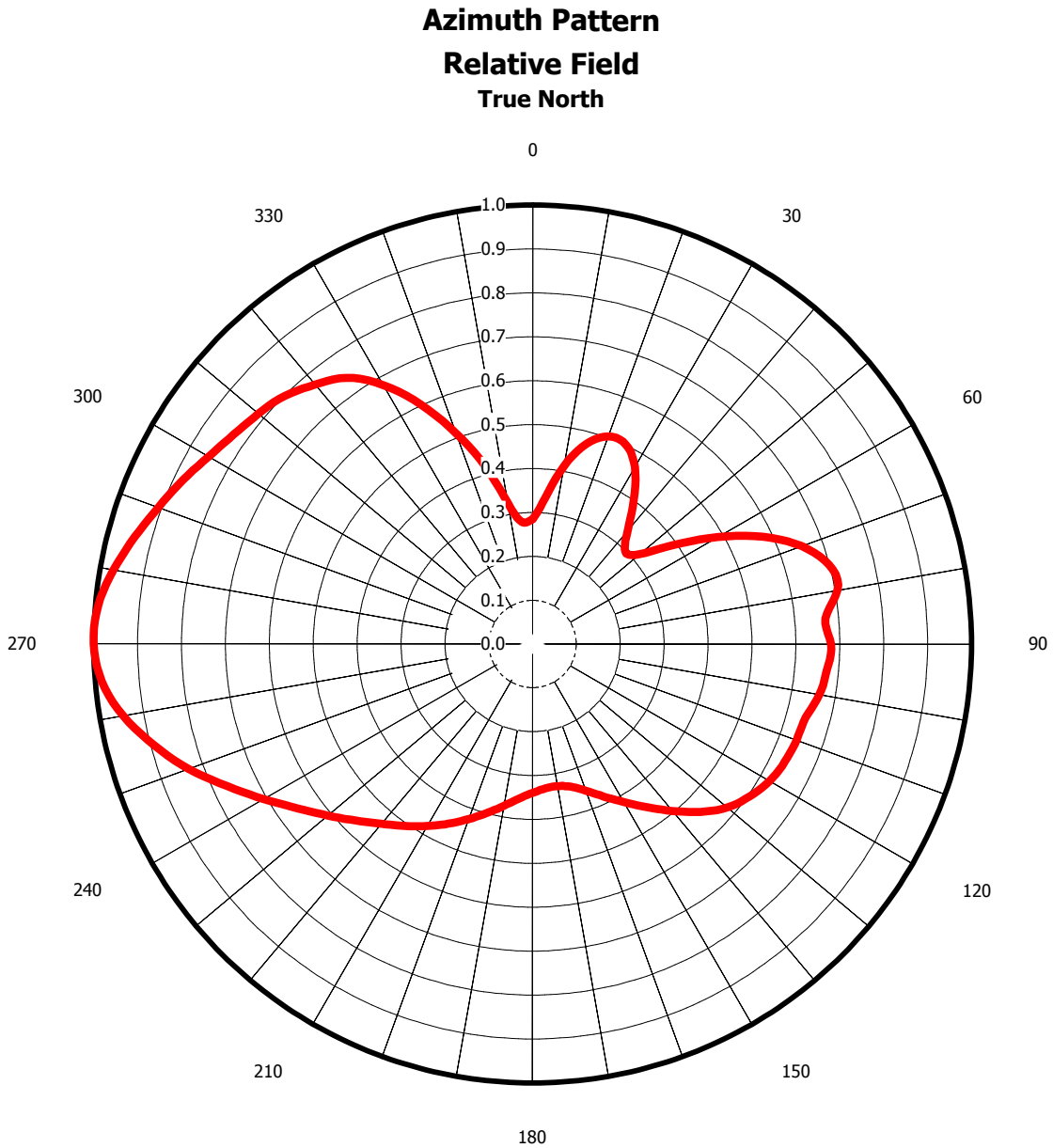
**TYPE:****CH35VAZ-CX****Directivity:****Numeric**  
**2.28****dB**  
**3.57****Peak(s) at:****Polarization:****Vertical****Frequency:****35 (Digital)****Location:****Riverside, CA**

Note: Pattern shape and directivity may vary with channel and mounting configuration.

True North







**Figure 1B**  
**Antenna Azimuthal Pattern Towards Radio Horizon**  
**Horizontal Polarization**  
**Considering Mechanical Beamtilt**  
**(1.5 Degrees at 175 Degrees True)**  
**KRCA-DT Riverside, CA**  
**Facility ID 22161**  
**Ch. 35 1000 kW 906 m**

---

prepared for  
**KRCA License LLC**

---

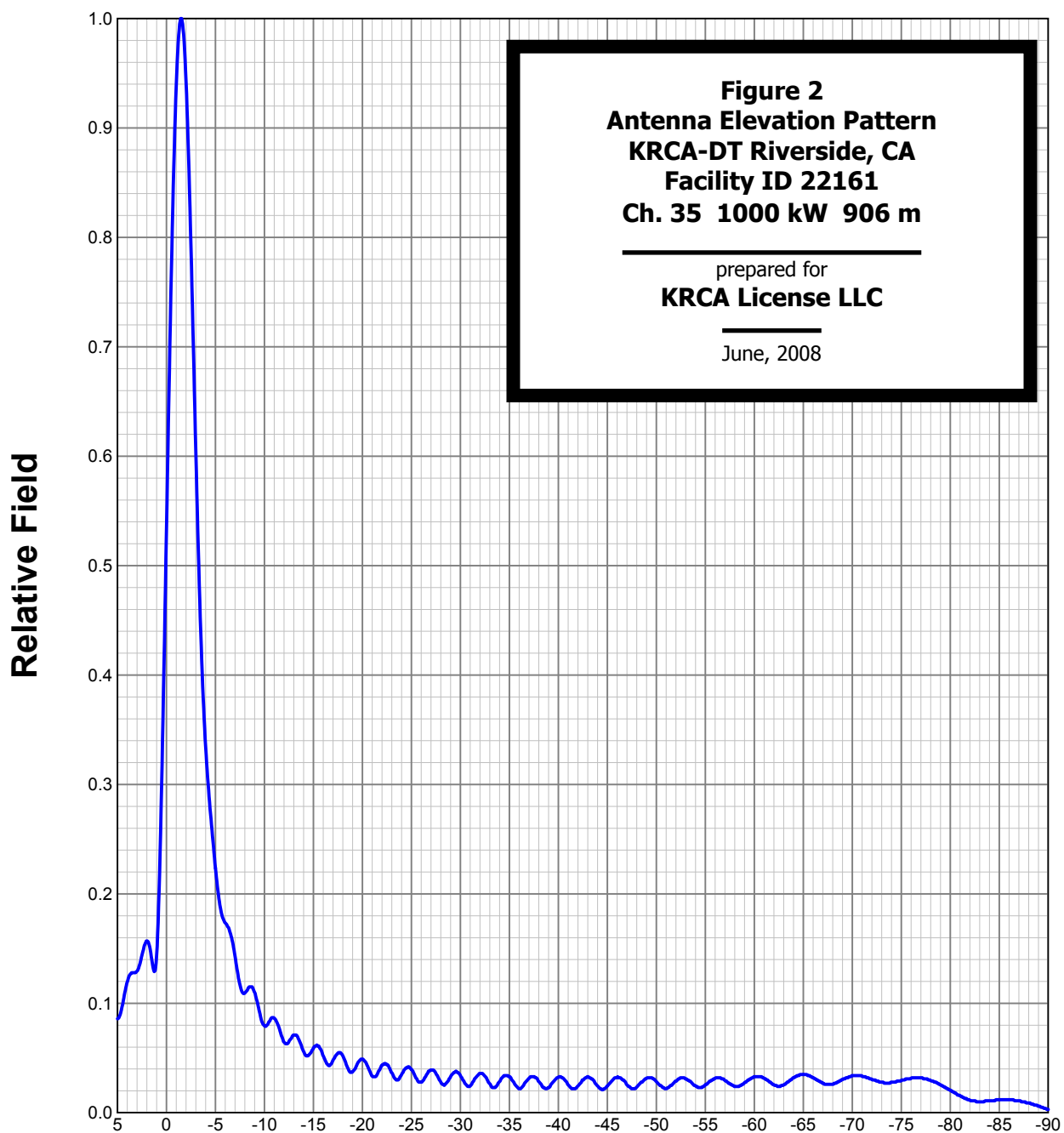
June, 2008



## ELEVATION PATTERN

Type: ATW24HS6H  
Directivity: Numeric dBd  
Main Lobe: 24.00 13.80  
Horizontal: 6.79 8.32

Channel: 35  
Location:   
Beam Tilt: -1.50  
Polarization: Horizontal

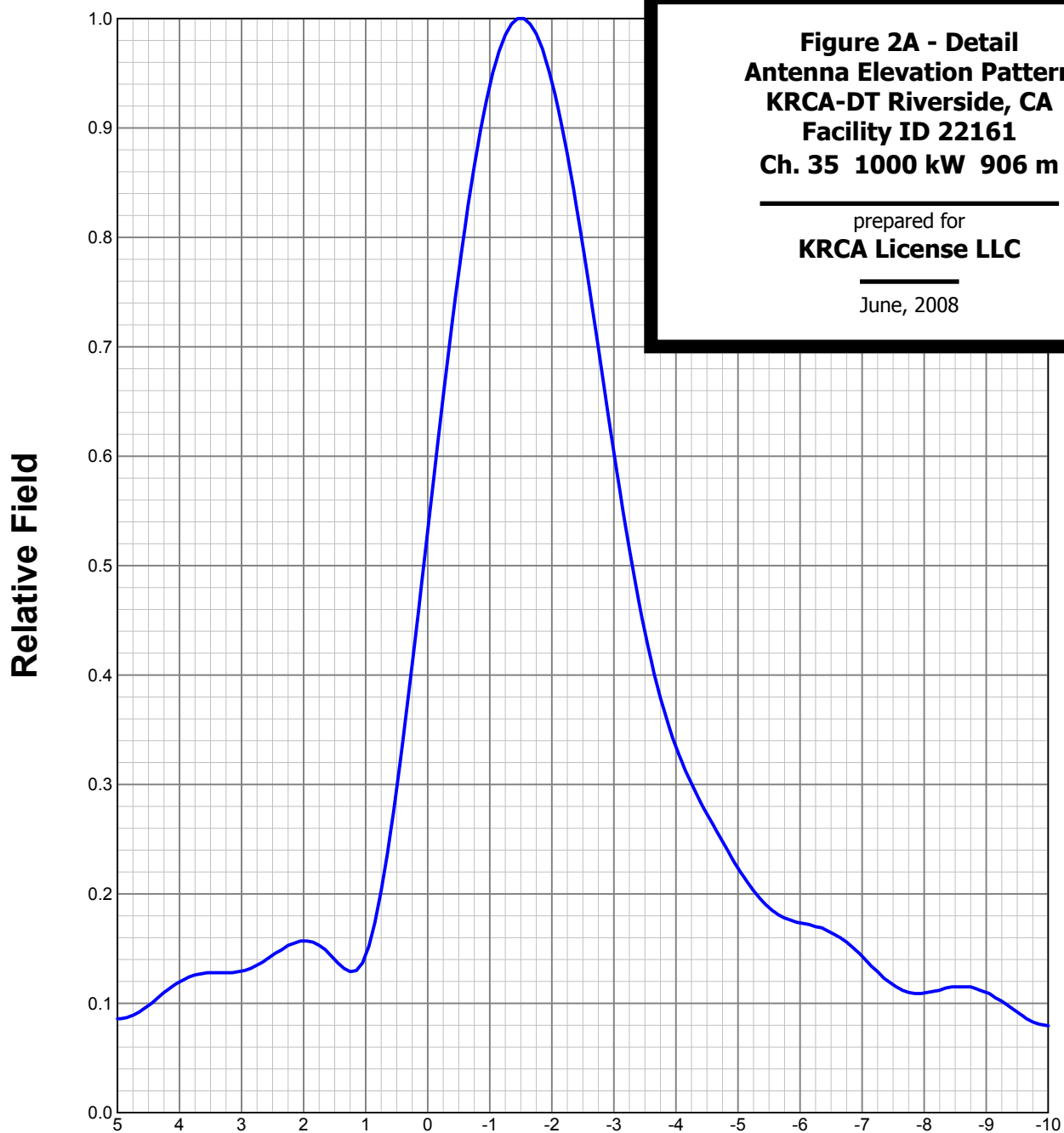


*Preliminary, subject to final design and review.*

## ELEVATION PATTERN

Type: ATW24HS6H  
Directivity: Numeric dBd  
Main Lobe: 24.00 13.80  
Horizontal: 6.79 8.32

Channel: 35  
Location:   
Beam Tilt: -1.50  
Polarization: Horizontal



*Preliminary, subject to final design and review.*

**Table 1**  
**Antenna Pattern and Elevation Data**  
prepared for  
**KRCA-DT KRCA License LLC**

Azimuth (°T)	Average Elevation (meters)	Effective Height (meters)	Antenna Horizontal Plane Relative Field Before Beamtilt <sup>1</sup>	FCC Depression Angle (°)	Mechanical Tilt (degrees)	Effective Tilt (degrees)	Vertical Plane Relative Field at ∠	Composite Relative Field	Normalized Relative Field <sup>2</sup>
0	1300.0	406.6	0.271	0.56	-1.49	0.01	0.930	0.252	0.285
5	1237.0	469.6	0.322	0.60	-1.48	0.02	0.924	0.297	0.336
10	1336.8	369.8	0.385	0.53	-1.45	0.05	0.946	0.364	0.411
15	1404.3	302.3	0.433	0.48	-1.41	0.09	0.964	0.418	0.472
20	1451.9	254.7	0.455	0.44	-1.36	0.14	0.979	0.446	0.503
25	1452.1	254.5	0.450	0.44	-1.30	0.20	0.987	0.444	0.502
30	1403.0	303.6	0.416	0.48	-1.23	0.27	0.990	0.412	0.465
35	1348.0	358.6	0.358	0.52	-1.15	0.35	0.993	0.356	0.402
40	1308.2	398.4	0.299	0.55	-1.06	0.44	0.997	0.298	0.337
45	1330.7	375.9	0.264	0.54	-0.96	0.54	1.000	0.264	0.298
50	1215.9	490.7	0.282	0.61	-0.86	0.64	1.000	0.282	0.319
55	1185.8	520.8	0.350	0.63	-0.75	0.75	0.997	0.349	0.394
60	1050.9	655.7	0.434	0.71	-0.63	0.87	0.994	0.431	0.487
65	991.1	715.5	0.520	0.74	-0.51	0.99	0.985	0.512	0.579
70	868.6	838.0	0.591	0.80	-0.39	1.11	0.977	0.577	0.652
75	847.7	858.9	0.648	0.81	-0.26	1.24	0.955	0.619	0.699
80	1003.8	702.8	0.692	0.73	-0.13	1.37	0.902	0.624	0.705
85	1209.3	497.3	0.726	0.62	0.00	1.50	0.816	0.592	0.669
90	1066.6	640.0	0.755	0.70	0.13	1.63	0.797	0.602	0.680
95	973.7	732.9	0.780	0.75	0.26	1.76	0.764	0.596	0.673
100	881.4	825.2	0.807	0.80	0.39	1.89	0.728	0.587	0.664
105	838.3	868.3	0.839	0.82	0.51	2.01	0.680	0.571	0.645
110	721.0	985.6	0.874	0.87	0.63	2.13	0.648	0.567	0.640
115	611.8	1094.8	0.913	0.92	0.75	2.25	0.615	0.561	0.634
120	505.3	1201.3	0.949	0.96	0.86	2.36	0.581	0.552	0.623
125	405.4	1301.2	0.974	1.00	0.96	2.46	0.549	0.535	0.604
130	330.4	1376.2	0.994	1.03	1.06	2.56	0.516	0.513	0.579
132	308.4	1398.2	1.000	1.04	1.10	2.60	0.502	0.502	0.567
135	287.9	1418.7	0.997	1.04	1.15	2.65	0.480	0.478	0.541
140	269.1	1437.5	0.988	1.05	1.23	2.73	0.444	0.439	0.496
145	245.3	1461.3	0.968	1.06	1.30	2.80	0.415	0.401	0.453
150	222.0	1484.6	0.943	1.07	1.36	2.86	0.390	0.368	0.416
155	194.0	1512.6	0.914	1.08	1.41	2.91	0.371	0.339	0.383
160	194.0	1512.6	0.892	1.08	1.45	2.95	0.353	0.315	0.356
165	202.5	1504.1	0.880	1.07	1.48	2.98	0.338	0.298	0.336
170	198.6	1508.0	0.879	1.08	1.49	2.99	0.331	0.291	0.329
175	197.2	1509.4	0.889	1.08	1.50	3.00	0.329	0.292	0.330
180	197.9	1508.7	0.906	1.08	1.49	2.99	0.331	0.300	0.339
185	208.2	1498.4	0.927	1.07	1.48	2.98	0.337	0.313	0.353

<sup>1</sup> Depicted in **Figure 1**

<sup>2</sup> Depicted in **Figure 1B** and reported in FCC Form 301 Tech Box

**Table 1**  
**KRCA-DT KRCA License LLC**  
 (page 2 of 2)



Azimuth (°T)	Average Elevation (meters)	Effective Height (meters)	Antenna Horizontal Plane Relative Field Before Beamtilt <sup>1</sup>	FCC Depression Angle (°)	Mechanical Tilt (degrees)	Effective Tilt (degrees)	Vertical Plane Relative Field at ∠	Composite Relative Field	Normalized Relative Field <sup>2</sup>
190	210.2	1496.4	0.946	1.07	1.45	2.95	0.350	0.331	0.374
195	217.2	1489.4	0.960	1.07	1.41	2.91	0.367	0.353	0.398
200	221.1	1485.5	0.963	1.07	1.36	2.86	0.390	0.376	0.425
205	229.8	1476.8	0.958	1.06	1.30	2.80	0.417	0.400	0.452
210	244.7	1461.9	0.945	1.06	1.23	2.73	0.449	0.424	0.479
215	261.5	1445.1	0.925	1.05	1.15	2.65	0.485	0.448	0.507
220	286.8	1419.8	0.904	1.04	1.06	2.56	0.524	0.473	0.535
225	292.2	1414.4	0.883	1.04	0.96	2.46	0.570	0.504	0.569
230	315.7	1390.9	0.872	1.03	0.86	2.36	0.618	0.539	0.609
235	336.7	1369.9	0.867	1.03	0.75	2.25	0.667	0.578	0.653
240	357.4	1349.2	0.873	1.02	0.63	2.13	0.717	0.626	0.707
245	394.4	1312.2	0.889	1.00	0.51	2.01	0.764	0.679	0.767
250	416.2	1290.4	0.909	1.00	0.39	1.89	0.812	0.738	0.834
255	475.3	1231.3	0.928	0.97	0.26	1.76	0.851	0.790	0.893
260	501.6	1205.0	0.940	0.96	0.13	1.63	0.892	0.838	0.947
265	546.5	1160.1	0.943	0.94	0.00	1.50	0.925	0.872	0.985
270	635.3	1071.3	0.934	0.91	-0.13	1.37	0.948	0.885	1.000
275	732.2	974.4	0.911	0.86	-0.26	1.24	0.966	0.880	0.994
280	886.4	820.2	0.880	0.79	-0.39	1.11	0.975	0.858	0.970
285	1022.2	684.4	0.845	0.72	-0.51	0.99	0.983	0.831	0.939
290	1100.4	606.2	0.810	0.68	-0.63	0.87	0.992	0.803	0.908
295	1020.4	686.2	0.779	0.73	-0.75	0.75	1.000	0.779	0.880
300	1106.3	600.3	0.755	0.68	-0.86	0.64	1.000	0.755	0.853
305	1148.8	557.8	0.738	0.65	-0.96	0.54	0.997	0.736	0.831
310	1268.3	438.3	0.725	0.58	-1.06	0.44	0.996	0.722	0.816
315	1296.3	410.3	0.714	0.56	-1.15	0.35	0.990	0.707	0.799
320	1279.7	426.9	0.697	0.57	-1.23	0.27	0.979	0.683	0.771
325	1347.3	359.3	0.671	0.53	-1.30	0.20	0.976	0.655	0.740
330	1259.0	447.6	0.632	0.59	-1.36	0.14	0.954	0.603	0.681
335	1218.5	488.1	0.568	0.61	-1.41	0.09	0.937	0.532	0.601
340	1185.7	520.9	0.490	0.63	-1.45	0.05	0.923	0.452	0.511
345	1238.1	468.5	0.402	0.60	-1.48	0.02	0.924	0.371	0.420
350	1228.3	478.3	0.314	0.61	-1.49	0.01	0.918	0.288	0.326
355	1321.8	384.8	0.265	0.54	-1.50	0.00	0.932	0.247	0.279
Radiation Center Height AMSL				1706.6	m				
Cardinal Radial Average Terrain AMSL				800.9	m				
Radiation Center Height AAT				905.7	m				
Effective Radiated Power (AVG)				1000	kW	30.0	dBk		

**Beamtilt details**

1.5 degrees electrical tilt and 1.5 degree mechanical tilt at 175° True

$$\text{Effective Tilt} = (\text{Electrical Tilt})^\circ + [(\text{Maximum Mechanical Tilt})\text{Cos}\phi]^\circ = (1.5)^\circ + (1.0*\text{Cos}(175\text{-Azimuth}))^\circ$$

Where  $\phi = 0^\circ$  at azimuth towards mechanical tilt

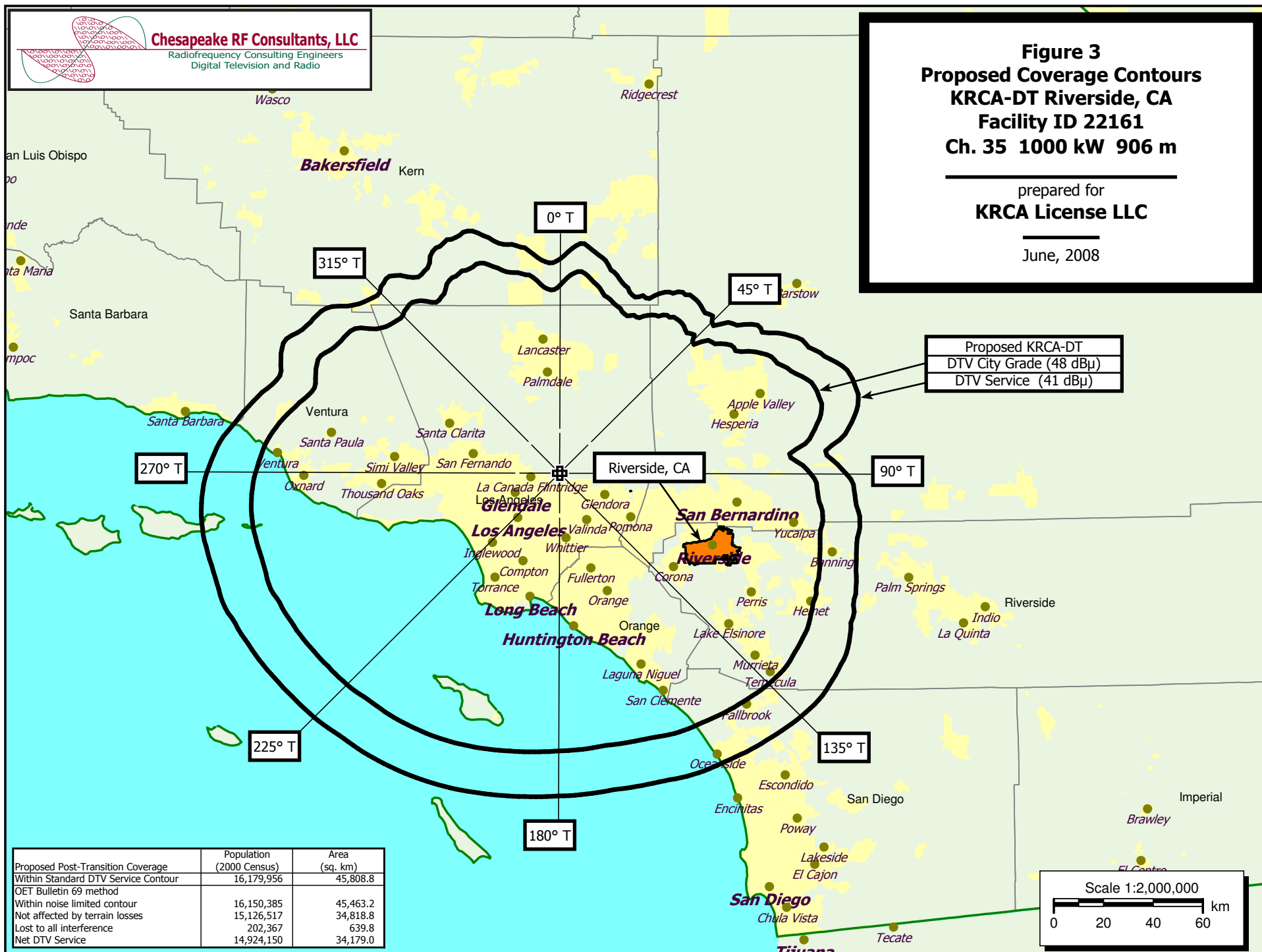


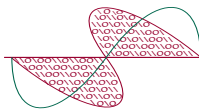
**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 3**  
**Proposed Coverage Contours**  
**KRCA-DT Riverside, CA**  
**Facility ID 22161**  
**Ch. 35 1000 kW 906 m**

prepared for  
**KRCA License LLC**

June, 2008





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

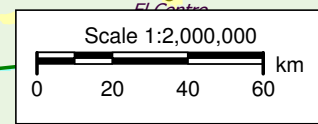
**Figure 4**  
**Largest Station in Market**  
**KRCA-DT Riverside, CA**  
**Facility ID 22161**  
**Ch. 35 1000 kW 906 m**

prepared for  
**KRCA License LLC**

June, 2008

KNBC-DT Ch. 36 Los Angeles, CA  
Appendix B  
DTV Service Contour 41 dBμ F(50,90)  
Area: 53,084 sq. km

Proposed KRCA-DT  
DTV Service Contour 41 dBμ F(50,90)  
Area: 45,809 sq. km



**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 1 of 14)

**Cell Size = 1 km**

**Note: This interference study employs the digital Channel 35 parameters adopted in MB Docket 08-30 as the baseline (“before”) condition for KRCA-DT.**

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-14-2008 Time: 10:19:17

Record Selected for Analysis

KRCA-DT USERRECORD-01 RIVERSIDE CA US  
Channel 35 ERP 1000. kW HAAT 910. m RCAMSL 01707 m  
Latitude 034-12-48 Longitude 0118-03-41  
Status APP Zone 1 Border  
Dir Antenna Make usr Model ATW24\_175T Beam tilt N Ref Azimuth 0.

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits  
Channel 35 ERP = 1000.00 HAAT = 910.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	81.225	409.1	86.5
45.0	107.584	362.8	85.2
90.0	462.400	664.1	116.3
135.0	261.625	1421.7	136.7
180.0	102.317	1511.3	128.4
225.0	296.599	1417.2	138.1
270.0	948.526	1086.7	141.6
315.0	629.642	404.6	102.1

Evaluation toward Class A Stations

Contour overlap to Class A station  
K35DG 35 LA JOLLA CA BSTA 20060531AHV

Contour overlap to Class A station  
K35DG 35 LA JOLLA CA BLTTA 20060621AAL

Contour overlap to Class A station  
K35ER 35 SANTA MARIA CA BSTA 20071221AAD

Contour overlap to Class A station  
KSKJ-CA 38 VAN NUYS CA BLTTA 20040625AAS

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 2 of 14)

**Cell Size = 1 km**

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is within the Mexican coordination distance  
Distance to border = 205.9km

Proposed station is OK toward AM broadcast stations

\*\*\*\*\*  
Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
35	KRCA-DT	RIVERSIDE CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
34	KMEX-TV	LOS ANGELES CA	1.6	CP	BPCDT	-20080228ABI
34	KMEX-TV	LOS ANGELES CA	1.6	PLN	DTVPLN	-DTVP1240
35	K35DG	LA JOLLA CA	170.2	APP	BSTA	-20060531AHV
35	K35DG	LA JOLLA CA	170.2	LIC	BLTTA	-20060621AAL
35	K35DG	LA JOLLA CA	170.2	APP	BDFCDTA	-20060802ASH
35	K35ER	SANTA MARIA CA	209.3	APP	BSTA	-20071221AAD
36	KNBC	LOS ANGELES CA	1.4	CP	BPCDT	-20050406ACJ
36	KNBC	LOS ANGELES CA	1.4	PLN	DTVPLN	-DTVP1317
36	KNBC	LOS ANGELES CA	1.4	LIC	BLCDT	-19981123KG
38	KPAL-LP	PALMDALE CA	39.7	STA	BSTA	-20060104ACS
38	KPAL-LP	PALMDALE CA	39.7	LIC	BLTTL	-19900723II
38	KSKJ-CA	VAN NUYS CA	38.5	LIC	BLTTA	-20040625AAS

\*\*\*\*\*

Analysis of Interference to Affected Station 1

Analysis of current record  
Channel 34 Call KMEX-TV City/State LOS ANGELES CA Application Ref. No. BPCDT -20080228ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	KBAK-TV	BAKERSFIELD CA	144.4	LIC	BLCDT	-20060628ABK
33	KBAK-TV	BAKERSFIELD CA	144.4	PLN	DTVPLN	-DTVP1208
34	KGPE	FRESNO CA	339.1	LIC	BLCDT	-20030702ABJ
34	KGPE	FRESNO CA	339.1	PLN	DTVPLN	-DTVP1239
34	KTAS	SAN LUIS OBISPO CA	267.8	LIC	BLCDT	-20070222AAX
34	KTAS	SAN LUIS OBISPO CA	267.8	PLN	DTVPLN	-DTVP1241
35	KRCA	RIVERSIDE CA	1.5	PLN	DTVPLN	-DTVP1604
35	KRCA-DT	RIVERSIDE CA	1.6	APP	USERRECORD-01	

Total scenarios = 4

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 34A CA LOS ANGELES BPCDT 20080228ABI CP



**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 3 of 14)

**Cell Size = 1 km**

HAAT	956.0 m, ATV ERP	392.0 kW		
		POPULATION	AREA (sq km)	
within Noise Limited Contour		16169062	42076.3	
not affected by terrain losses		15020255	31806.5	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		185403	253.3	
lost to ATV IX only		185403	253.3	
lost to all IX		185403	253.3	
Potential Interfering Stations Included in above Scenario 1				
33A CA BAKERSFIELD	BLCDDT	20060628ABK	LIC	
34A CA FRESNO	BLCDDT	20030702ABJ	LIC	
35A CA RIVERSIDE	DTVPLN	DTVP1604	PLN	
After Analysis				
Results for: 34A CA LOS ANGELES	BPCDDT	20080228ABI	CP	
HAAT	956.0 m, ATV ERP	392.0 kW		
		POPULATION	AREA (sq km)	
within Noise Limited Contour		16169062	42076.3	
not affected by terrain losses		15020255	31806.5	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		192624	269.0	
lost to ATV IX only		192624	269.0	
lost to all IX		192624	269.0	
Potential Interfering Stations Included in above Scenario 1				
33A CA BAKERSFIELD	BLCDDT	20060628ABK	LIC	
34A CA FRESNO	BLCDDT	20030702ABJ	LIC	
35A CA RIVERSIDE	USERRECORD01		APP	
Percent new IX = 0.0487%				
Worst case new IX 0.0487% Scenario 1				

#####

Analysis of Interference to Affected Station 2

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
34	KMEX-TV	LOS ANGELES CA	DTVPLN	-DTVP1240

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	KBAK-TV	BAKERSFIELD CA	144.4	LIC	BLCDDT	-20060628ABK
33	KBAK-TV	BAKERSFIELD CA	144.4	PLN	DTVPLN	-DTVP1208
34	KGPE	FRESNO CA	339.1	LIC	BLCDDT	-20030702ABJ
34	KGPE	FRESNO CA	339.1	PLN	DTVPLN	-DTVP1239
34	KTAS	SAN LUIS OBISPO CA	267.8	LIC	BLCDDT	-20070222AAX
34	KTAS	SAN LUIS OBISPO CA	267.8	PLN	DTVPLN	-DTVP1241
35	KRCA	RIVERSIDE CA	1.5	PLN	DTVPLN	-DTVP1604
35	KRCA-DT	RIVERSIDE CA	1.6	APP	USERRECORD-01	

Total scenarios = 4

Result key: 5

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 4 of 14)

**Cell Size = 1 km**

Scenario	1	Affected station	2	
Before Analysis				
Results for: 34A CA LOS ANGELES		DTVPLN	DTVP1240	PLN
HAAT	956.0 m, ATV ERP	392.0 kW		
		POPULATION	AREA (sq km)	
within Noise Limited Contour		16169062	42076.3	
not affected by terrain losses		15020255	31806.5	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		185403	253.3	
lost to ATV IX only		185403	253.3	
lost to all IX		185403	253.3	
Potential Interfering Stations Included in above Scenario 1				
33A CA BAKERSFIELD	BLCDDT	20060628ABK	LIC	
34A CA FRESNO	BLCDDT	20030702ABJ	LIC	
35A CA RIVERSIDE	DTVPLN	DTVP1604	PLN	
After Analysis				
Results for: 34A CA LOS ANGELES		DTVPLN	DTVP1240	PLN
HAAT	956.0 m, ATV ERP	392.0 kW		
		POPULATION	AREA (sq km)	
within Noise Limited Contour		16169062	42076.3	
not affected by terrain losses		15020255	31806.5	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		192624	269.0	
lost to ATV IX only		192624	269.0	
lost to all IX		192624	269.0	
Potential Interfering Stations Included in above Scenario 1				
33A CA BAKERSFIELD	BLCDDT	20060628ABK	LIC	
34A CA FRESNO	BLCDDT	20030702ABJ	LIC	
35A CA RIVERSIDE	USERRECORD01		APP	
Percent new IX = 0.0487%				
Worst case new IX 0.0487% Scenario 1				

#####

Analysis of Interference to Affected Station 3

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
35	K3SDG	LA JOLLA CA	BSTA	-20060531AHV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
34	KSDX-LP	SAN DIEGO CA	33.4	APP	BPTTL	-20010112AAZ
35	KPCD-LP	PALM SPRINGS CA	139.8	CP	BDISTTL	-20060403ABE
36	KDTF-LP	SAN DIEGO CA	33.3	APP	BMPTTL	-19990903AAS
36	KDTF-LP	SAN DIEGO CA	33.3	LIC	BLTTL	-20040212ACB
42	KESQ-TV	PALM SPRINGS CA	136.8	APP	BPCDDT	-20080222ACV
42	KESQ-TV	PALM SPRINGS CA	136.8	PLN	DTVPLN	-DTVP1492
42	KESQ-TV	PALM SPRINGS CA	136.8	APP	BPCDDT	-20080222ACV
35	KRCA	RIVERSIDE CA	170.2	PLN	DTVPLN	-DTVP1604

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 14)

**Cell Size = 1 km**

50	K61GH	SAN DIEGO	CA	33.3	APP	BDISTTL	-20060915AOO
35	KRCA-DT	RIVERSIDE	CA	170.2	APP	USERRECORD-01	

Total scenarios = 4

Result key: 10  
Scenario 2 Affected station 3  
Before Analysis

Results for: 35N CA LA JOLLA	BSTA	20060531AHV	APP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1067838	893.7	
not affected by terrain losses	1041643	868.7	
lost to NTSC IX	50361	14.0	
lost to additional IX by ATV	173565	279.9	
lost to all IX	223926	293.9	

Potential Interfering Stations Included in above Scenario 2

34N CA SAN DIEGO	BPTTL	20010112AAZ	APP
50N CA SAN DIEGO	BDISTTL	20060915AOO	APP
35A CA RIVERSIDE	DTVPLN	DTVP1604	PLN

After Analysis

Results for: 35N CA LA JOLLA	BSTA	20060531AHV	APP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1067838	893.7	
not affected by terrain losses	1041643	868.7	
lost to NTSC IX	50361	14.0	
lost to additional IX by ATV	172016	279.9	
lost to all IX	222377	293.9	

Potential Interfering Stations Included in above Scenario 2

34N CA SAN DIEGO	BPTTL	20010112AAZ	APP
50N CA SAN DIEGO	BDISTTL	20060915AOO	APP
35A CA RIVERSIDE	USERRECORD01		APP

Percent new IX = -0.1451%

Worst case new IX -0.1451% Scenario 2

#####

Analysis of Interference to Affected Station 4

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
35	K35DG	LA JOLLA CA	BLTTA	-20060621AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
34	KSDX-LP	SAN DIEGO CA	33.4	APP	BPTTL	-20010112AAZ
35	KPCD-LP	PALM SPRINGS CA	139.8	CP	BDISTTL	-20060403ABE
36	KDTF-LP	SAN DIEGO CA	33.3	APP	BMP TTL	-19990903AAS
36	KDTF-LP	SAN DIEGO CA	33.3	LIC	BLTTL	-20040212ACB
42	KESQ-TV	PALM SPRINGS CA	136.8	APP	BPCDT	-20080222ACV
42	KESQ-TV	PALM SPRINGS CA	136.8	PLN	DTVPLN	-DTVP1492

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 14)

**Cell Size = 1 km**

42	KESQ-TV	PALM SPRINGS	CA	136.8	APP	BPCDT	-20080222ACV
35	KRCA	RIVERSIDE	CA	170.2	PLN	DTVPLN	-DTVP1604
50	K61GH	SAN DIEGO	CA	33.3	APP	BDISTTL	-20060915AOO
35	KRCA-DT	RIVERSIDE	CA	170.2	APP	USERRECORD-01	

Total scenarios = 4

Result key: 14  
Scenario 2 Affected station 4  
Before Analysis

Results for: 35N CA LA JOLLA	BLTTA	20060621AAL	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1067838	893.7	
not affected by terrain losses	1041643	868.7	
lost to NTSC IX	50361	14.0	
lost to additional IX by ATV	173565	280.9	
lost to all IX	223926	294.9	

Potential Interfering Stations Included in above Scenario 2

34N CA SAN DIEGO	BPTTL	20010112AAZ	APP
50N CA SAN DIEGO	BDISTTL	20060915AOO	APP
35A CA RIVERSIDE	DTVPLN	DTVP1604	PLN

After Analysis

Results for: 35N CA LA JOLLA	BLTTA	20060621AAL	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1067838	893.7	
not affected by terrain losses	1041643	868.7	
lost to NTSC IX	50361	14.0	
lost to additional IX by ATV	172016	281.9	
lost to all IX	222377	295.9	

Potential Interfering Stations Included in above Scenario 2

34N CA SAN DIEGO	BPTTL	20010112AAZ	APP
50N CA SAN DIEGO	BDISTTL	20060915AOO	APP
35A CA RIVERSIDE	USERRECORD01		APP

Percent new IX = -0.1451%

Worst case new IX -0.1451% Scenario 2

#####

Analysis of Interference to Affected Station 5

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
35	K35DG	LA JOLLA CA	BDFCDTA	-20060802ASH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
34	KMEX-TV	LOS ANGELES CA	171.7	CP	BPCDT	-20080228ABI
34	KMEX-TV	LOS ANGELES CA	171.7	PLN	DTVPLN	-DTVP1240
36	KAJB	CALIPATRIA CA	227.1	CP	BPCDT	-19991101AEM
36	KAJB	CALIPATRIA CA	227.1	PLN	DTVPLN	-DTVP1316

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 7 of 14)

**Cell Size = 1 km**

36	KNBC	LOS ANGELES CA	171.5	CP	BPCDT	-20050406ACJ
36	KNBC	LOS ANGELES CA	171.5	PLN	DTVPLN	-DTVPI317
36	KNBC	LOS ANGELES CA	171.5	LIC	BLCDT	-19981123KG
35	KRCA	RIVERSIDE CA	170.2	PLN	DTVPLN	-DTVPI604
35	KRCA-DT	RIVERSIDE CA	170.2	APP	USERRECORD-01	

Total scenarios = 1

Result key: 17  
Scenario 1 Affected station 5  
Before Analysis

Results for: 35A CA LA JOLLA BDFCDTA 20060802ASH APP  
HAAT 1.0 m, ATV ERP 24.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2634399	5308.1
not affected by terrain losses	2577456	5079.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	67298	906.7
lost to ATV IX only	67298	906.7
lost to all IX	67298	906.7

Potential Interfering Stations Included in above Scenario 1

35A CA RIVERSIDE DTVPLN DTVPI604 PLN

After Analysis

Results for: 35A CA LA JOLLA BDFCDTA 20060802ASH APP  
HAAT 1.0 m, ATV ERP 24.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2634399	5308.1
not affected by terrain losses	2577456	5079.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	58227	891.7
lost to ATV IX only	58227	891.7
lost to all IX	58227	891.7

Potential Interfering Stations Included in above Scenario 1

35A CA RIVERSIDE USERRECORD01 APP

Percent new IX = -0.3614%

Worst case new IX -0.3614% Scenario 1

#####

Analysis of Interference to Affected Station 6

Analysis of current record  
Channel Call City/State Application Ref. No.  
35 K35ER SANTA MARIA CA BSTA -20071221AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	KEYT-TV	SANTA BARBARA CA	47.6	CP MOD	BPCDT -20060630ACN
27	KEYT-TV	SANTA BARBARA CA	47.6	PLN	DTVPLN -DTVPI0990

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 8 of 14)

**Cell Size = 1 km**

34	KTAS	SAN LUIS OBISPO CA	65.8	LIC	BLCDT	-20070222AAX
34	KTAS	SAN LUIS OBISPO CA	65.8	PLN	DTVPLN	-DTVPI241
35	KCRA-TV	SACRAMENTO CA	390.6	CP	BPCDT	-20080208AEM
35	KCRA-TV	SACRAMENTO CA	390.6	PLN	DTVPLN	-DTVPI280
35	KCRA-TV	SACRAMENTO CA	389.0	LIC	BLCDT	-20040122ADR
35	KCBA	SALINAS CA	236.9	LIC	BLCT	-19811022KE
35	KMCF-LP	VISALIA CA	195.6	LIC	BLTTL	-20030303ACQ
36	KJCN-LP	PASO ROBLES CA	65.8	LIC	BLTTL	-19870602IA
35	KRCA	RIVERSIDE CA	209.3	PLN	DTVPLN	-DTVPI604
50	KCCE-LP	SAN LUIS OBISPO CA	65.8	LIC	BLTTL	-20001222AAA
35	KRCA-DT	RIVERSIDE CA	209.3	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.  
36 KNBC LOS ANGELES CA BPCDT -20050406ACJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
36	KAJB	CALIPATRIA CA	326.8	CP	BPCDT -19991101AEM
36	KAJB	CALIPATRIA CA	326.8	PLN	DTVPLN -DTVPI316
36	KFRE-TV	SANGER CA	340.2	LIC	BLCDT -20060421AAI
36	KFRE-TV	SANGER CA	340.2	PLN	DTVPLN -DTVPI319
35	KRCA	RIVERSIDE CA	1.3	PLN	DTVPLN -DTVPI604
35	KRCA-DT	RIVERSIDE CA	1.4	APP	USERRECORD-01

Total scenarios = 4

Result key: 18  
Scenario 1 Affected station 7  
Before Analysis

Results for: 36A CA LOS ANGELES BPCDT 20050406ACJ CP  
HAAT 991.0 m, ATV ERP 665.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	16398574	51668.8
not affected by terrain losses	15452616	40571.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	63308	133.0
lost to ATV IX only	63308	133.0
lost to all IX	63308	133.0

Potential Interfering Stations Included in above Scenario 1

36A CA CALIPATRIA BPCDT 19991101AEM CP  
36A CA SANGER BLCDT 20060421AAI LIC  
35A CA RIVERSIDE DTVPLN DTVPI604 PLN

After Analysis

Results for: 36A CA LOS ANGELES BPCDT 20050406ACJ CP  
HAAT 991.0 m, ATV ERP 665.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	16398574	51668.8

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 9 of 14)

Cell Size = 1 km

not affected by terrain losses	15452616	40571.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	66231	142.9
lost to ATV IX only	66231	142.9
lost to all IX	66231	142.9

Potential Interfering Stations Included in above Scenario 1

36A CA CALIPATRIA	BPCDT	19991101AEM	CP
36A CA SANGER	BLCDDT	20060421AAI	LIC
35A CA RIVERSIDE	USERRECORD01		APP

Percent new IX = 0.0190%

Worst case new IX 0.0190% Scenario 1

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
36	KNBC	LOS ANGELES CA	DTVPLN	-DTVPl317

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	KAJB	CALIPATRIA CA	326.8	CP	BPCDT	-19991101AEM
36	KAJB	CALIPATRIA CA	326.8	PLN	DTVPLN	-DTVPl316
36	KFRE-TV	SANGER CA	340.2	LIC	BLCDDT	-20060421AAI
36	KFRE-TV	SANGER CA	340.2	PLN	DTVPLN	-DTVPl319
35	KRCA	RIVERSIDE CA	1.3	PLN	DTVPLN	-DTVPl604
35	KRCA-DT	RIVERSIDE CA	1.4	APP	USERRECORD-01	

Total scenarios = 2

Result key: 22  
Scenario 1 Affected station 8  
Before Analysis

Results for: 36A CA LOS ANGELES	DTVPLN	DTVPl317	PLN
HAAT 984.0 m, ATV ERP 711.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	16367605	52342.4	
not affected by terrain losses	15440004	41298.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	70031	152.7	
lost to ATV IX only	70031	152.7	
lost to all IX	70031	152.7	

Potential Interfering Stations Included in above Scenario 1

36A CA SANGER	BLCDDT	20060421AAI	LIC
35A CA RIVERSIDE	DTVPLN	DTVPl604	PLN

After Analysis

Results for: 36A CA LOS ANGELES	DTVPLN	DTVPl317	PLN
HAAT 984.0 m, ATV ERP 711.0 kW			

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 10 of 14)

Cell Size = 1 km

	POPULATION	AREA (sq km)
within Noise Limited Contour	16367605	52342.4
not affected by terrain losses	15440004	41298.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	95255	169.5
lost to ATV IX only	95255	169.5
lost to all IX	95255	169.5

Potential Interfering Stations Included in above Scenario 1

36A CA SANGER	BLCDDT	20060421AAI	LIC
35A CA RIVERSIDE	USERRECORD01		APP

Percent new IX = 0.1641%

Worst case new IX 0.1641% Scenario 1

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
36	KNBC	LOS ANGELES CA	BLCDDT	-19981123KG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	KAJB	CALIPATRIA CA	326.8	CP	BPCDT	-19991101AEM
36	KAJB	CALIPATRIA CA	326.8	PLN	DTVPLN	-DTVPl316
36	KFRE-TV	SANGER CA	340.2	LIC	BLCDDT	-20060421AAI
36	KFRE-TV	SANGER CA	340.2	PLN	DTVPLN	-DTVPl319
35	KRCA	RIVERSIDE CA	1.3	PLN	DTVPLN	-DTVPl604
35	KRCA-DT	RIVERSIDE CA	1.4	APP	USERRECORD-01	

Total scenarios = 4

Result key: 24  
Scenario 1 Affected station 9  
Before Analysis

Results for: 36A CA LOS ANGELES	BLCDDT	19981123KG	LIC
HAAT 991.0 m, ATV ERP 380.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	16358363	50137.6	
not affected by terrain losses	15331776	39292.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	87947	150.8	
lost to ATV IX only	87947	150.8	
lost to all IX	87947	150.8	

Potential Interfering Stations Included in above Scenario 1

36A CA CALIPATRIA	BPCDT	19991101AEM	CP
36A CA SANGER	BLCDDT	20060421AAI	LIC
35A CA RIVERSIDE	DTVPLN	DTVPl604	PLN

After Analysis

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 11 of 14)

**Cell Size = 1 km**

Results for: 36A CA LOS ANGELES	BLCDT	19981123KG	LIC
HAAT 991.0 m, ATV ERP 380.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	16358363	50137.6	
not affected by terrain losses	15331776	39292.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	94180	162.6	
lost to ATV IX only	94180	162.6	
lost to all IX	94180	162.6	

Potential Interfering Stations Included in above Scenario 1

36A CA CALIPATRIA	BPCDT	19991101AEM	CP
36A CA SANGER	BLCDT	20060421AAI	LIC
35A CA RIVERSIDE	USERRECORD01		APP

Percent new IX = 0.0409%

Worst case new IX 0.0409% Scenario 1

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	KPAL-LP	PALMDALE CA	BSTA -20060104ACS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	KTLA	LOS ANGELES CA	38.2	LIC	BLCDT -20050713ACE
31	KTLA	LOS ANGELES CA	38.2	PLN	DTVPLN -DTVPI1131
34	KMEX-TV	LOS ANGELES CA	38.2	CP	BPCDT -20080228ABI
34	KMEX-TV	LOS ANGELES CA	38.2	PLN	DTVPLN -DTVPI1240
36	KNBC	LOS ANGELES CA	38.4	CP	BPCDT -20050406ACJ
36	KNBC	LOS ANGELES CA	38.4	PLN	DTVPLN -DTVPI1317
36	KNBC	LOS ANGELES CA	38.4	LIC	BLCDT -19981123KG
38	KNXT-LP	BAKERSFIELD CA	109.9	LIC	BLTTL -20070524ADC
38	KSCD-LP	BIG BEAR LAKE CA	124.3	CP	BDISTTL -20060323AEG
38	KPSP-LP	CATHEDRAL CITY, ETC. CA	180.6	LIC	BLTTA -20020912ABB
38	KSEE	FRESNO CA	301.2	LIC	BLCDT -20050914AAZ
38	KSEE	FRESNO CA	301.2	PLN	DTVPLN -DTVPI1356
38	NEW	PALM SPRINGS CA	180.4	APP	BNPTTL -20000818ACV
38	KPXN	SAN BERNARDINO CA	39.8	LIC	BLCDT -20050623AAG
38	KPXN	SAN BERNARDINO CA	39.8	PLN	DTVPLN -DTVPI1357
38	KPMR	SANTA BARBARA CA	159.7	LIC	BMLCT -20051228ACS
38	KSKJ-CA	VAN NUYS CA	37.5	LIC	BLTTA -20040625AAS
39	960328KH	BAKERSFIELD CA	109.9	APP	BPET -19960328KH
39	KVEA	CORONA CA	39.7	LIC	BLCDT -20030507AAW
39	KVEA	CORONA CA	39.7	PLN	DTVPLN -DTVPI1394
41	KLCS	LOS ANGELES CA	38.6	APP	BPEDT -20080326AJE
41	KLCS	LOS ANGELES CA	38.6	PLN	DTVPLN -DTVPI1462
41	KLCS	LOS ANGELES CA	38.6	LIC	BLEDT -20030507AAS
42	KWHY-TV	LOS ANGELES CA	39.7	LIC	BLCDT -20060629AFB
42	KWHY-TV	LOS ANGELES CA	39.7	PLN	DTVPLN -DTVPI1491
45	KUVI-TV	BAKERSFIELD CA	110.0	CP	BPCDT -20080328AIU
45	KUVI-TV	BAKERSFIELD CA	110.0	PLN	DTVPLN -DTVPI1603
35	KRCA	RIVERSIDE CA	39.7	PLN	DTVPLN -DTVPI1604
52	KVEA	CORONA CA	39.8	LIC	BLCT -20030311AOQ

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 12 of 14)

**Cell Size = 1 km**

35	KRCA-DT	RIVERSIDE CA	39.7	APP	USERRECORD-01
Proposal causes no interference					

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	KPAL-LP	PALMDALE CA	BLTTL -19900723II

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	KTLA	LOS ANGELES CA	38.2	LIC	BLCDT -20050713ACE
31	KTLA	LOS ANGELES CA	38.2	PLN	DTVPLN -DTVPI1131
34	KMEX-TV	LOS ANGELES CA	38.1	CP	BPCDT -20080228ABI
34	KMEX-TV	LOS ANGELES CA	38.1	PLN	DTVPLN -DTVPI1240
36	KNBC	LOS ANGELES CA	38.3	CP	BPCDT -20050406ACJ
36	KNBC	LOS ANGELES CA	38.3	PLN	DTVPLN -DTVPI1317
36	KNBC	LOS ANGELES CA	38.3	LIC	BLCDT -19981123KG
38	KNXT-LP	BAKERSFIELD CA	110.0	LIC	BLTTL -20070524ADC
38	KSCD-LP	BIG BEAR LAKE CA	124.2	CP	BDISTTL -20060323AEG
38	KPSP-LP	CATHEDRAL CITY, ETC. CA	180.5	LIC	BLTTA -20020912ABB
38	KSEE	FRESNO CA	301.2	LIC	BLCDT -20050914AAZ
38	KSEE	FRESNO CA	301.2	PLN	DTVPLN -DTVPI1356
38	NEW	PALM SPRINGS CA	180.4	APP	BNPTTL -20000818ACV
38	KPXN	SAN BERNARDINO CA	39.7	LIC	BLCDT -20050623AAG
38	KPXN	SAN BERNARDINO CA	39.7	PLN	DTVPLN -DTVPI1357
38	KPMR	SANTA BARBARA CA	159.8	LIC	BMLCT -20051228ACS
38	KSKJ-CA	VAN NUYS CA	37.5	LIC	BLTTA -20040625AAS
39	960328KH	BAKERSFIELD CA	109.9	APP	BPET -19960328KH
39	KVEA	CORONA CA	39.7	LIC	BLCDT -20030507AAW
39	KVEA	CORONA CA	39.7	PLN	DTVPLN -DTVPI1394
41	KLCS	LOS ANGELES CA	38.6	APP	BPEDT -20080326AJE
41	KLCS	LOS ANGELES CA	38.6	PLN	DTVPLN -DTVPI1462
41	KLCS	LOS ANGELES CA	38.6	LIC	BLEDT -20030507AAS
42	KWHY-TV	LOS ANGELES CA	39.7	LIC	BLCDT -20060629AFB
42	KWHY-TV	LOS ANGELES CA	39.7	PLN	DTVPLN -DTVPI1491
45	KUVI-TV	BAKERSFIELD CA	110.0	CP	BPCDT -20080328AIU
45	KUVI-TV	BAKERSFIELD CA	110.0	PLN	DTVPLN -DTVPI1603
35	KRCA	RIVERSIDE CA	39.6	PLN	DTVPLN -DTVPI1604
52	KVEA	CORONA CA	39.7	LIC	BLCT -20030311AOQ
35	KRCA-DT	RIVERSIDE CA	39.7	APP	USERRECORD-01

#####

Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	KSKJ-CA	VAN NUYS CA	BLTTA -20040625AAS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	KTLA	LOS ANGELES CA	37.8	LIC	BLCDT -20050713ACE

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 13 of 14)

**Cell Size = 1 km**

31	KTLA	LOS ANGELES CA	37.8	PLN	DTVPLN	-DTVPI131
34	KMEX-TV	LOS ANGELES CA	37.8	CP	BPCDT	-20080228ABI
34	KMEX-TV	LOS ANGELES CA	37.8	PLN	DTVPLN	-DTVPI240
36	KNBC	LOS ANGELES CA	38.0	CP	BPCDT	-20050406ACJ
36	KNBC	LOS ANGELES CA	38.0	PLN	DTVPLN	-DTVPI317
36	KNBC	LOS ANGELES CA	38.0	LIC	BLCDT	-19981123KG
38	KNXT-LP	BAKERSFIELD CA	130.6	LIC	BLTTL	-20070524ADC
38	KSCD-LP	BIG BEAR LAKE CA	144.4	CP	BDISTTL	-20060323AEG
38	KSEE	FRESNO CA	321.7	LIC	BLCDT	-20050914AAZ
38	KSEE	FRESNO CA	321.7	PLN	DTVPLN	-DTVPI356
38	KPAL-LP	PALMDALE CA	37.5	STA	BSTA	-20060104ACS
38	KPAL-LP	PALMDALE CA	37.5	LIC	BLTTL	-19900723II
38	KPAL-LP	PALMDALE CA	37.5	STA	BSTA	-20050922AFW
38	KPXN	SAN BERNARDINO CA	38.5	LIC	BLCDT	-20050623AAG
38	KPXN	SAN BERNARDINO CA	38.5	PLN	DTVPLN	-DTVPI357
38	KPMR	SANTA BARBARA CA	139.1	LIC	BMLCT	-20051228ACS
39	960328KH	BAKERSFIELD CA	130.6	APP	BPET	-19960328KH
39	KVEA	CORONA CA	38.5	LIC	BLCDT	-20030507AAW
39	KVEA	CORONA CA	38.5	PLN	DTVPLN	-DTVPI394
41	KLCS	LOS ANGELES CA	38.2	APP	BPEDT	-20080326AJE
41	KLCS	LOS ANGELES CA	38.2	PLN	DTVPLN	-DTVPI462
41	KLCS	LOS ANGELES CA	38.2	LIC	BLEDT	-20030507AAS
42	KWHY-TV	LOS ANGELES CA	38.5	LIC	BLCDT	-20060629AFB
42	KWHY-TV	LOS ANGELES CA	38.5	PLN	DTVPLN	-DTVPI491
45	KUVI-TV	BAKERSFIELD CA	130.7	CP	BPCDT	-20080328AIU
45	KUVI-TV	BAKERSFIELD CA	130.7	PLN	DTVPLN	-DTVPI603
35	KRCA	RIVERSIDE CA	38.5	PLN	DTVPLN	-DTVPI604
52	KVEA	CORONA CA	38.5	LIC	BLCT	-20030311AOQ
35	KRCA-DT	RIVERSIDE CA	38.5	APP	USERRECORD-01	

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 13

Analysis of current record  
Channel Call City/State Application Ref. No.  
35 KRCA-DT RIVERSIDE CA USERRECORD-01

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
34	KMEX-TV	LOS ANGELES CA	1.6	CP	BPCDT -20080228ABI
34	KMEX-TV	LOS ANGELES CA	1.6	PLN	DTVPLN -DTVPI240
36	KNBC	LOS ANGELES CA	1.4	CP	BPCDT -20050406ACJ
36	KNBC	LOS ANGELES CA	1.4	PLN	DTVPLN -DTVPI317
36	KNBC	LOS ANGELES CA	1.4	LIC	BLCDT -19981123KG

Total scenarios = 6

Result key: 32  
Scenario 5 Affected station 13  
Before Analysis

Results for: 35A CA RIVERSIDE USERRECORD01 APP  
HAAT 910.0 m, ATV ERP 1000.0 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 16150385 45463.2  
not affected by terrain losses 15126517 34818.8  
lost to NTSC IX 0 0.0

**Table 2 KRCA-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 14 of 14)

**Cell Size = 1 km**

lost to additional IX by ATV	202367	639.8
lost to ATV IX only	202367	639.8
lost to all IX	202367	639.8

Potential Interfering Stations Included in above Scenario 5

34A CA LOS ANGELES	DTVPLN	DTVP1240	PLN
36A CA LOS ANGELES	DTVPLN	DTVP1317	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 checked="" 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 <b>submit the Exhibit</b> 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 35 Analog TV, if any 62
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 34 Minutes 12 Seconds 48 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 118 Minutes 03 Seconds 41 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1213941 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 1655 meters
6.	Overall Tower Height Above Ground Level: 61 meters
7.	Height of Radiation Center Above Ground Level: 52 meters
8.	Height of Radiation Center Above Average Terrain : 906 meters



9.	Maximum Effective Radiated Power (average power):	1000 kW																																																																																																
10.	<div>Antenna Specifications:</div> <div>a. Manufacturer ERI    Model ATW24HS6-ESCX-35S</div> <div>b. Electrical Beam Tilt: 1.5 degrees    <input type="checkbox"/> Not Applicable</div> <div>c. Mechanical Beam Tilt: 1.5 degrees toward azimuth 175 degrees True    <input type="checkbox"/> Not Applicable Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). <span style="float: right;">[Exhibit 42]</span></div> <div>d. Polarization: <input type="radio"/> Horizontal    <input type="radio"/> Circular    <input checked="" type="radio"/> Elliptical</div> <div>e. Directional Antenna Relative Field Values:    <input type="checkbox"/> Not applicable (Nondirectional)</div> <div>[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]</div> <div style="text-align: center; padding: 10px;"><b>10e. Directional Antenna Relative Field Values</b> [Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]</div> <div style="border: 1px solid black; padding: 5px;"><div>e. Directional Antenna Relative Field Values:</div><div>Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation</div><table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"><thead><tr><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th></tr></thead><tbody><tr><td>0</td><td>0.285</td><td>10</td><td>0.411</td><td>20</td><td>0.503</td><td>30</td><td>0.465</td><td>40</td><td>0.337</td><td>50</td><td>0.319</td></tr><tr><td>60</td><td>0.487</td><td>70</td><td>0.652</td><td>80</td><td>0.705</td><td>90</td><td>0.68</td><td>100</td><td>0.664</td><td>110</td><td>0.64</td></tr><tr><td>120</td><td>0.623</td><td>130</td><td>0.579</td><td>140</td><td>0.496</td><td>150</td><td>0.416</td><td>160</td><td>0.356</td><td>170</td><td>0.329</td></tr><tr><td>180</td><td>0.339</td><td>190</td><td>0.374</td><td>200</td><td>0.425</td><td>210</td><td>0.479</td><td>220</td><td>0.535</td><td>230</td><td>0.609</td></tr><tr><td>240</td><td>0.707</td><td>250</td><td>0.834</td><td>260</td><td>0.947</td><td>270</td><td>1</td><td>280</td><td>0.97</td><td>290</td><td>0.908</td></tr><tr><td>300</td><td>0.853</td><td>310</td><td>0.816</td><td>320</td><td>0.771</td><td>330</td><td>0.681</td><td>340</td><td>0.511</td><td>350</td><td>0.326</td></tr><tr><td colspan="2">Additional Azimuths</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table><div style="text-align: center; margin-top: 5px;"><a href="#">Relative Field Polar Plot</a></div></div> <div>If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. <b>Exhibit required.</b> <span style="float: right;">[Exhibit 43]</span></div>		Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	0	0.285	10	0.411	20	0.503	30	0.465	40	0.337	50	0.319	60	0.487	70	0.652	80	0.705	90	0.68	100	0.664	110	0.64	120	0.623	130	0.579	140	0.496	150	0.416	160	0.356	170	0.329	180	0.339	190	0.374	200	0.425	210	0.479	220	0.535	230	0.609	240	0.707	250	0.834	260	0.947	270	1	280	0.97	290	0.908	300	0.853	310	0.816	320	0.771	330	0.681	340	0.511	350	0.326	Additional Azimuths											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value																																																																																							
0	0.285	10	0.411	20	0.503	30	0.465	40	0.337	50	0.319																																																																																							
60	0.487	70	0.652	80	0.705	90	0.68	100	0.664	110	0.64																																																																																							
120	0.623	130	0.579	140	0.496	150	0.416	160	0.356	170	0.329																																																																																							
180	0.339	190	0.374	200	0.425	210	0.479	220	0.535	230	0.609																																																																																							
240	0.707	250	0.834	260	0.947	270	1	280	0.97	290	0.908																																																																																							
300	0.853	310	0.816	320	0.771	330	0.681	340	0.511	350	0.326																																																																																							
Additional Azimuths																																																																																																		
11.	Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if <b>Certification Checklist</b> 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?  If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	<input checked="" type="radio"/> Yes <input type="radio"/> No  [Exhibit 44]																																																																																																
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 <b>Certification Checklist</b> item 3 is answered "No.")	[Exhibit 45]																																																																																																
13.	<b>Environmental Protection Act. Submit in an Exhibit</b> the following: If <b>Certification Checklist</b> 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 <b>Certification Checklist</b> 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 <b>Certification Checklist</b> Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.	[Exhibit 46]																																																																																																
<b>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</b>																																																																																																		

**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 6/14/2008	
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).

---

Any specified rotation has already been applied to the plotted pattern.

Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.

