



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR A
CONSTRUCTION PERMIT TO SPECIFY CHANNEL 15
IN LIEU OF CHANNEL 7 IN THE DIGITAL
TELEVISION TABLE OF ALLOTMENTS
KRCR-TV - REDDING, CALIFORNIA
DTV - CH. 15 - 1000 kW - 1095 m HAAT**

Prepared for: SINCLAIR MEDIA LICENSEE, LLC

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

GENERAL

This office has been authorized by SINCLAIR MEDIA LICENSEE, LLC, licensee of KRCR-TV, channel 7, licensed to Redding, California, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for a minor change construction permit to specify channel 15 in lieu of channel 7 as ordered in the Report and Order in MB Docket No. 21-177, DA 21-848.

DIRECTIONAL ANTENNA

The applicant intends to install a Dielectric model TFU-16DSB/VP-C-R elliptically polarized directional antenna. The antenna's center of radiation will be located at a height above ground of 23 meters, and a height above average terrain of 1095 meters. The antenna's horizontal azimuth radiation patterns for both its horizontally and vertically polarized components and its vertical elevation pattern, showing its radiation characteristics above and below the horizontal plane are shown and tabulated in the antenna exhibit.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. The map exhibit shows the predicted Noise Limited (38.83 dBu) contour, and the principal community (48 dBu) contour which completely encompasses the principal community of license, Redding, California.

DETERMINATION OF THE "LARGEST STATION IN THE MARKET"

It appears from an analysis of the stations that are licensed to communities located in the Redding, California Designated Market Area (DMA) that the largest station in geographic area is the KRCR-TV, license file number, BLCDT-20110930AST, for channel 7, Redding, California with a predicted 36 dBu noise limited contour coverage area of 51,236 square kilometers. The instant application to change KRCR-TV's channel to 15 with an ERP of 1000 kW results in a predicted 38.83 dBu noise limited contour coverage area of 58,912 square kilometers. In this instance the license of KRCR-TV seeks a channel change to 15 with an ERP of 1000 kW. Since KRCR-TV is requesting to substitute a UHF channel for a VHF channel, the licensee should therefore be entitled, not

withstanding Section 73.622(f)(5), to the herein proposed channel 15 ERP of 1000 kW in order to maintain its service to the existing population within its existing coverage area.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A study was performed, using the FCC's software, *tvstudy* v2.2.5, to determine if the instant petition to amend the post-transition Table is predicted to cause new prohibited interference to DTV stations, construction permits or DTV allotments. Results of the study indicate that the instant petition is predicted to cause no new interference greater than 0.5% to the populations served by any full-power DTV station, construction permit or allotment. See Appendix B. These results comply with the 0.5% limit for new post-repack interference set forth in §73.616(e) of the Commission's Rules.

International DTV Considerations

The KRCR-TV site is located more than 800 kilometers from the nearest point on the US-Canadian border and 1,000 kilometers from the nearest point on the US-Mexican border. Therefore no international coordination is required.

Class A Television Allocation Considerations

As required in Section 73.616(f) of the FCC's Rules, the study results in Appendix B shows no Class A station predicted to be affected by the re-allotment of KRCR-TV.

Land Mobile and FM radio Considerations

The *tvstudy* results found no Land Mobile violations for this site, and the site is deemed OK toward AM radio stations.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities are located within 10 kilometers of the KRCR-TV site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

RADIO FREQUENCY IMPACT, SAFETY & COMPLIANCE SHOWING

As shown in Appendix A the KRCR-TV channel 15 facility in lieu of its channel 7 facility, as proposed herein, will operate with a maximum ERP of 1000 kW from an elliptically polarized directional transmitting antenna with a centerline height of 23 meters above ground level (AGL). Considering the elevation pattern provided elsewhere in this submission, the vertical plane relative field factor is less than 0.169 at all depression angles greater than 8 degrees. The proposed KRCR-TV channel 15 facility is predicted to produce a worst-case power density at two meters above ground level, at 12.1 meters from the tower base, of $3,244.7 \mu\text{W}/\text{cm}^2$, which is 1,016.1% of the FCC guideline value of $319.33 \mu\text{W}/\text{cm}^2$ for an "uncontrolled" environment, and 203.22% of the FCC's guideline value for "controlled" environments. Therefore the predicted maximum power density exceeds the FCC's Guideline value of $319.33 \mu\text{W}/\text{cm}^2$ for uncontrolled environments. Further, because the proposed facility is located within 500 meters of three other television and two FM radio broadcast stations, the cumulative power density of all the stations operating from the shared site must be considered.

In light of the above, once the proposed facility is authorized and installed, an RFR measurement survey will be undertaken to determine the effect of the proposed facility on

STATEMENT OF JOHN E. HIDLE, P.E.
KRCR-TV - Redding, California
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the RFR environment. Any changes that are deemed necessary to the existing RFR safety plan will be made accordingly. Further, the applicant is committed to reducing power or ceasing operation as necessary to protect persons having access to the site, tower or antennas from RF electromagnetic fields in excess of the FCC's occupational guidelines.

SUMMARY

It is submitted that the instant application for construction permit for KRCR-TV to broadcast on channel 15 in lieu of channel 7, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement was prepared by me, or under my direct supervision, and its contents are believed to be true and correct to the best of my knowledge and belief.

DATED: August 12, 2021





PREDICTED COVERAGE CONTOURS

KRCR-TV, REDDING, CA
DTV Channel 15 - 1000 kW ERP - 1095 M HAAT
FEBRUARY, 2021

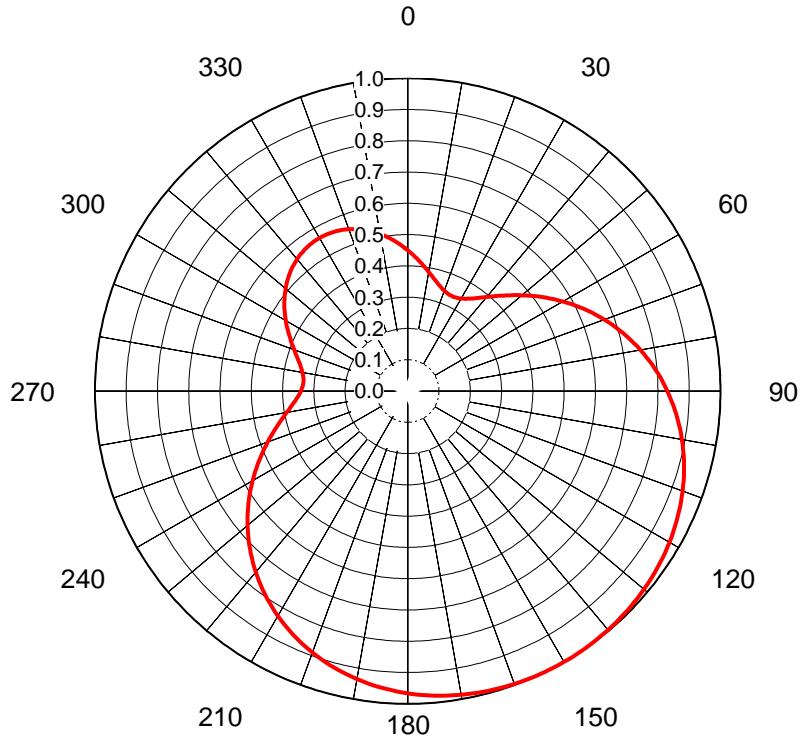


Predicted Noise Limited 38.83 dBu
F(50,90) Coverage Contour



Predicted Principal Community 48 dBu
F(50,90) Coverage Contour





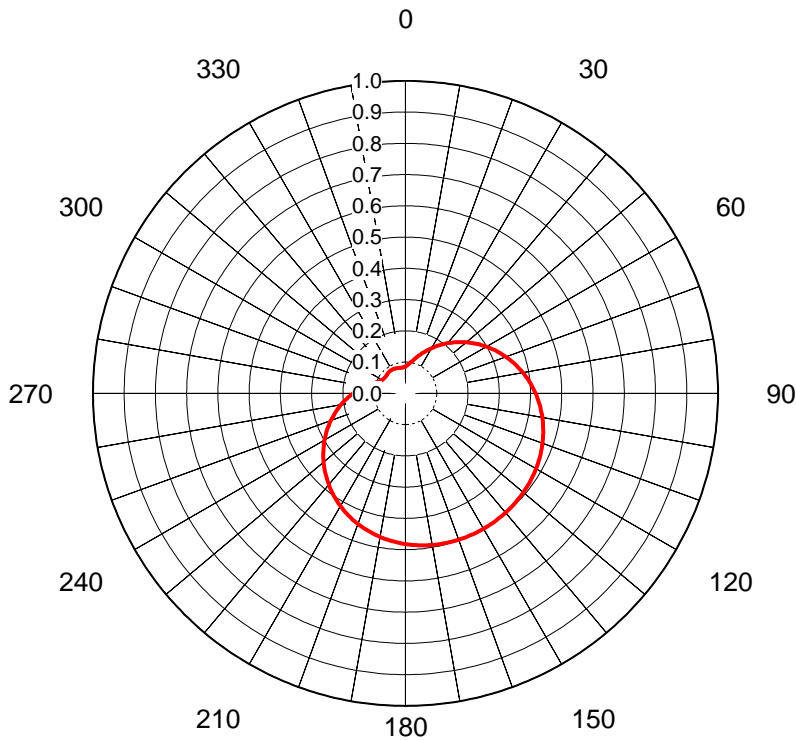
AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-71640**
Date **11-Nov-20**
Call Letters **KRCR**
Channel **15**
Frequency **479 MHz**
Antenna Type **TFU-16DSB/VP-C-R**
Gain **2.05 (3.11dB)**
Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.450	36	0.367	72	0.686	108	0.927	144	0.999	180	0.967	216	0.787	252	0.458	288	0.375
1	0.444	37	0.372	73	0.695	109	0.931	145	0.999	181	0.964	217	0.779	253	0.449	289	0.381
2	0.437	38	0.379	74	0.704	110	0.935	146	0.999	182	0.961	218	0.772	254	0.440	290	0.386
3	0.431	39	0.385	75	0.713	111	0.939	147	1.000	183	0.958	219	0.764	255	0.431	291	0.392
4	0.424	40	0.392	76	0.722	112	0.942	148	1.000	184	0.956	220	0.756	256	0.423	292	0.398
5	0.418	41	0.399	77	0.730	113	0.946	149	1.000	185	0.952	221	0.747	257	0.415	293	0.405
6	0.411	42	0.407	78	0.739	114	0.949	150	1.000	186	0.949	222	0.739	258	0.407	294	0.411
7	0.405	43	0.415	79	0.747	115	0.952	151	1.000	187	0.946	223	0.731	259	0.400	295	0.418
8	0.399	44	0.423	80	0.755	116	0.955	152	1.000	188	0.943	224	0.722	260	0.392	296	0.424
9	0.392	45	0.431	81	0.764	117	0.958	153	1.000	189	0.939	225	0.713	261	0.385	297	0.431
10	0.386	46	0.440	82	0.772	118	0.961	154	0.999	190	0.935	226	0.704	262	0.379	298	0.437
11	0.381	47	0.449	83	0.779	119	0.964	155	0.999	191	0.931	227	0.696	263	0.372	299	0.444
12	0.375	48	0.458	84	0.787	120	0.966	156	0.999	192	0.927	228	0.687	264	0.367	300	0.450
13	0.370	49	0.467	85	0.795	121	0.969	157	0.998	193	0.923	229	0.677	265	0.361	301	0.457
14	0.365	50	0.476	86	0.802	122	0.971	158	0.998	194	0.919	230	0.668	266	0.356	302	0.463
15	0.360	51	0.485	87	0.809	123	0.973	159	0.997	195	0.915	231	0.659	267	0.352	303	0.469
16	0.355	52	0.495	88	0.816	124	0.976	160	0.997	196	0.910	232	0.650	268	0.348	304	0.475
17	0.351	53	0.504	89	0.823	125	0.978	161	0.996	197	0.905	233	0.640	269	0.344	305	0.481
18	0.348	54	0.514	90	0.830	126	0.980	162	0.995	198	0.900	234	0.631	270	0.341	306	0.487
19	0.344	55	0.524	91	0.837	127	0.981	163	0.994	199	0.895	235	0.621	271	0.339	307	0.493
20	0.342	56	0.533	92	0.843	128	0.983	164	0.993	200	0.890	236	0.611	272	0.337	308	0.499
21	0.339	57	0.543	93	0.850	129	0.985	165	0.992	201	0.885	237	0.602	273	0.336	309	0.504
22	0.337	58	0.553	94	0.856	130	0.986	166	0.991	202	0.879	238	0.592	274	0.335	310	0.510
23	0.336	59	0.563	95	0.862	131	0.988	167	0.990	203	0.874	239	0.582	275	0.335	311	0.515
24	0.335	60	0.573	96	0.868	132	0.989	168	0.989	204	0.868	240	0.573	276	0.335	312	0.519
25	0.335	61	0.582	97	0.874	133	0.990	169	0.988	205	0.862	241	0.563	277	0.336	313	0.524
26	0.335	62	0.592	98	0.879	134	0.991	170	0.986	206	0.856	242	0.553	278	0.337	314	0.529
27	0.336	63	0.602	99	0.885	135	0.992	171	0.985	207	0.850	243	0.543	279	0.339	315	0.533
28	0.337	64	0.611	100	0.890	136	0.993	172	0.983	208	0.843	244	0.534	280	0.342	316	0.537
29	0.339	65	0.621	101	0.895	137	0.994	173	0.981	209	0.837	245	0.524	281	0.344	317	0.541
30	0.341	66	0.631	102	0.900	138	0.995	174	0.980	210	0.830	246	0.514	282	0.348	318	0.544
31	0.344	67	0.640	103	0.905	139	0.996	175	0.978	211	0.823	247	0.505	283	0.351	319	0.547
32	0.348	68	0.650	104	0.910	140	0.997	176	0.976	212	0.816	248	0.495	284	0.355	320	0.550
33	0.352	69	0.659	105	0.915	141	0.997	177	0.974	213	0.809	249	0.486	285	0.360	321	0.553
34	0.356	70	0.668	106	0.919	142	0.998	178	0.971	214	0.802	250	0.476	286	0.365	322	0.555
35	0.361	71	0.677	107	0.923	143	0.998	179	0.969	215	0.795	251	0.467	287	0.370	323	0.558

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AZIMUTH PATTERN Vertical Polarization

In Free Space

Proposal No. **C-71640**
 Date **11-Nov-20**
 Call Letters **KRCR**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-16DSB/VP-C-R**
 Gain **2.28 (3.57dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.086	36	0.192	72	0.350	108	0.463	144	0.499	180	0.482	216	0.396	252	0.245	288	0.106	324	0.087
1	0.087	37	0.196	73	0.354	109	0.465	145	0.500	181	0.481	217	0.393	253	0.240	289	0.104	325	0.087
2	0.088	38	0.200	74	0.358	110	0.467	146	0.500	182	0.480	218	0.389	254	0.236	290	0.101	326	0.087
3	0.089	39	0.205	75	0.362	111	0.468	147	0.500	183	0.478	219	0.385	255	0.231	291	0.099	327	0.087
4	0.090	40	0.209	76	0.366	112	0.470	148	0.500	184	0.477	220	0.382	256	0.227	292	0.097	328	0.087
5	0.092	41	0.214	77	0.370	113	0.472	149	0.500	185	0.475	221	0.378	257	0.223	293	0.095	329	0.087
6	0.094	42	0.218	78	0.374	114	0.474	150	0.500	186	0.474	222	0.374	258	0.218	294	0.094	330	0.087
7	0.095	43	0.223	79	0.378	115	0.475	151	0.500	187	0.472	223	0.370	259	0.214	295	0.092	331	0.087
8	0.097	44	0.227	80	0.382	116	0.477	152	0.500	188	0.470	224	0.366	260	0.209	296	0.090	332	0.087
9	0.099	45	0.231	81	0.385	117	0.478	153	0.500	189	0.468	225	0.362	261	0.205	297	0.089	333	0.087
10	0.101	46	0.236	82	0.389	118	0.480	154	0.500	190	0.467	226	0.358	262	0.200	298	0.088	334	0.087
11	0.104	47	0.240	83	0.393	119	0.481	155	0.500	191	0.465	227	0.354	263	0.196	299	0.087	335	0.087
12	0.106	48	0.245	84	0.396	120	0.482	156	0.499	192	0.463	228	0.350	264	0.192	300	0.086	336	0.087
13	0.109	49	0.249	85	0.400	121	0.484	157	0.499	193	0.461	229	0.346	265	0.188	301	0.085	337	0.086
14	0.111	50	0.254	86	0.403	122	0.485	158	0.499	194	0.459	230	0.342	266	0.183	302	0.085	338	0.086
15	0.114	51	0.258	87	0.406	123	0.486	159	0.499	195	0.456	231	0.338	267	0.179	303	0.084	339	0.086
16	0.117	52	0.263	88	0.410	124	0.487	160	0.498	196	0.454	232	0.334	268	0.175	304	0.084	340	0.086
17	0.120	53	0.267	89	0.413	125	0.488	161	0.498	197	0.452	233	0.329	269	0.171	305	0.083	341	0.085
18	0.123	54	0.272	90	0.416	126	0.489	162	0.497	198	0.449	234	0.325	270	0.167	306	0.083	342	0.085
19	0.126	55	0.277	91	0.419	127	0.490	163	0.497	199	0.447	235	0.321	271	0.163	307	0.083	343	0.085
20	0.129	56	0.281	92	0.422	128	0.491	164	0.496	200	0.445	236	0.316	272	0.159	308	0.083	344	0.084
21	0.133	57	0.285	93	0.425	129	0.492	165	0.496	201	0.442	237	0.312	273	0.155	309	0.083	345	0.084
22	0.136	58	0.290	94	0.428	130	0.493	166	0.495	202	0.439	238	0.308	274	0.151	310	0.083	346	0.084
23	0.140	59	0.294	95	0.431	131	0.493	167	0.495	203	0.437	239	0.303	275	0.147	311	0.083	347	0.084
24	0.144	60	0.299	96	0.434	132	0.494	168	0.494	204	0.434	240	0.299	276	0.144	312	0.083	348	0.083
25	0.147	61	0.303	97	0.437	133	0.495	169	0.493	205	0.431	241	0.294	277	0.140	313	0.084	349	0.083
26	0.151	62	0.308	98	0.439	134	0.495	170	0.493	206	0.428	242	0.290	278	0.136	314	0.084	350	0.083
27	0.155	63	0.312	99	0.442	135	0.496	171	0.492	207	0.425	243	0.285	279	0.133	315	0.084	351	0.083
28	0.159	64	0.316	100	0.445	136	0.496	172	0.491	208	0.422	244	0.281	280	0.129	316	0.084	352	0.083
29	0.163	65	0.321	101	0.447	137	0.497	173	0.490	209	0.419	245	0.277	281	0.126	317	0.085	353	0.083
30	0.167	66	0.325	102	0.449	138	0.497	174	0.489	210	0.416	246	0.272	282	0.123	318	0.085	354	0.083
31	0.171	67	0.329	103	0.452	139	0.498	175	0.488	211	0.413	247	0.267	283	0.120	319	0.085	355	0.083
32	0.175	68	0.334	104	0.454	140	0.498	176	0.487	212	0.410	248	0.263	284	0.117	320	0.086	356	0.084
33	0.179	69	0.338	105	0.456	141	0.499	177	0.486	213	0.406	249	0.258	285	0.114	321	0.086	357	0.084
34	0.183	70	0.342	106	0.459	142	0.499	178	0.485	214	0.403	250	0.254	286	0.111	322	0.086	358	0.085
35	0.188	71	0.346	107	0.461	143	0.499	179	0.484	215	0.400	251	0.249	287	0.109	323	0.086	359	0.085

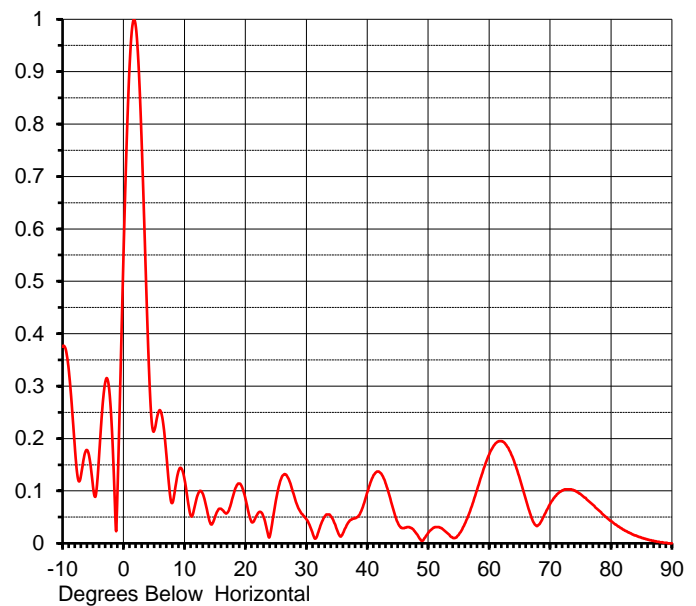
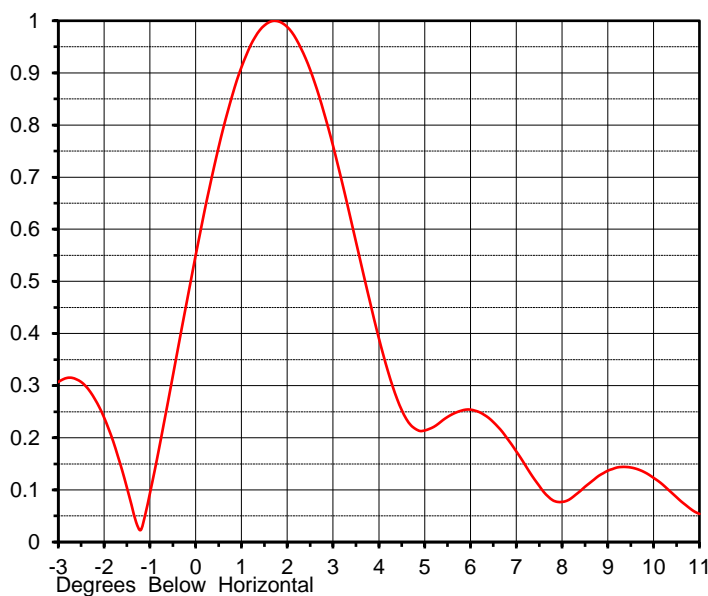
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ELEVATION PATTERN

Proposal No. **C-71640**
 Date **11-Nov-20**
 Call Letters **KRCR**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-16DSB/VP-C-R**

RMS Directivity at Main Lobe **15.1 (11.79 dB)**
 RMS Directivity at Horizontal **4.6 (6.63 dB)**
Calculated

Beam Tilt **1.75 deg**
 Pattern Number **16L151175**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.375	10.0	0.123	30.0	0.046	50.0	0.020	70.0	0.075
-9.0	0.333	11.0	0.054	31.0	0.021	51.0	0.030	71.0	0.091
-8.0	0.186	12.0	0.086	32.0	0.022	52.0	0.030	72.0	0.101
-7.0	0.128	13.0	0.095	33.0	0.051	53.0	0.021	73.0	0.103
-6.0	0.178	14.0	0.048	34.0	0.052	54.0	0.011	74.0	0.101
-5.0	0.108	15.0	0.050	35.0	0.027	55.0	0.016	75.0	0.094
-4.0	0.168	16.0	0.066	36.0	0.019	56.0	0.037	76.0	0.084
-3.0	0.307	17.0	0.058	37.0	0.041	57.0	0.066	77.0	0.074
-2.0	0.239	18.0	0.091	38.0	0.048	58.0	0.101	78.0	0.063
-1.0	0.093	19.0	0.114	39.0	0.061	59.0	0.138	79.0	0.052
0.0	0.550	20.0	0.086	40.0	0.097	60.0	0.169	80.0	0.043
1.0	0.911	21.0	0.041	41.0	0.129	61.0	0.190	81.0	0.034
2.0	0.988	22.0	0.056	42.0	0.136	62.0	0.195	82.0	0.026
3.0	0.760	23.0	0.050	43.0	0.115	63.0	0.184	83.0	0.020
4.0	0.391	24.0	0.013	44.0	0.076	64.0	0.160	84.0	0.015
5.0	0.214	25.0	0.081	45.0	0.040	65.0	0.125	85.0	0.011
6.0	0.254	26.0	0.127	46.0	0.029	66.0	0.085	86.0	0.007
7.0	0.174	27.0	0.125	47.0	0.030	67.0	0.048	87.0	0.005
8.0	0.077	28.0	0.091	48.0	0.020	68.0	0.034	88.0	0.002
9.0	0.137	29.0	0.061	49.0	0.005	69.0	0.052	89.0	0.001
								90.0	0.000

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KRCR-TV
Channel 15 - Redding, California
ERP = 1000000.00 WATTS

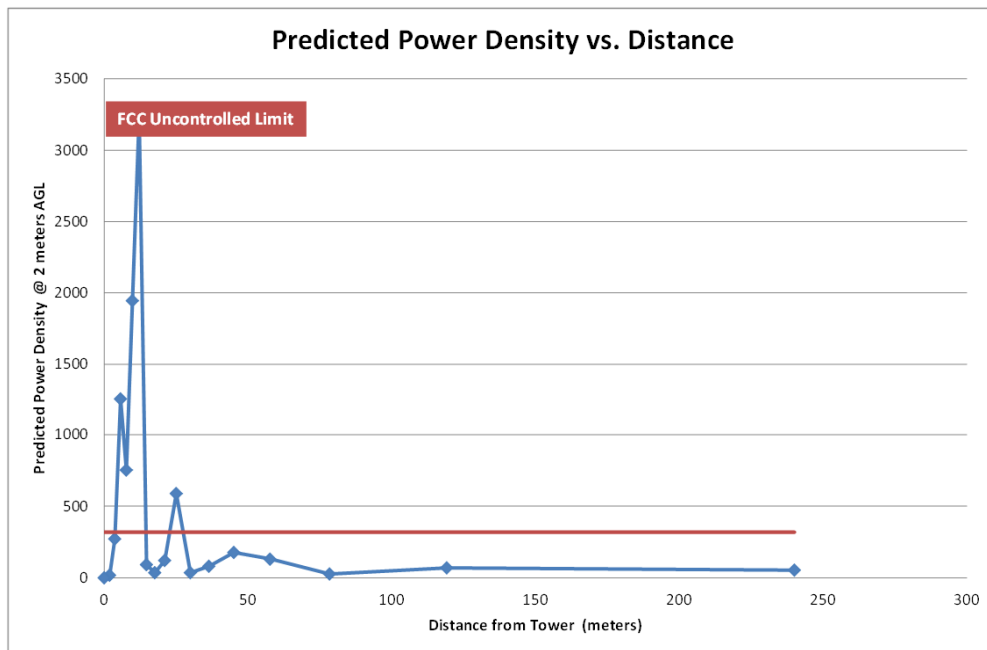
APPENDIX A

Maximum ERP 1000 kW

Polarization ----- 2 Circular
 Antenna Height Above Ground -- 23 meters 75.5 feet
 FCC Uncontrolled RFR Limit ---- 319.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 3,244.685 $\mu\text{W}/\text{cm}^2$
 1016.09% of limit

Angle Below Horizontal (degrees)	<Point X> Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)	Vertical Pattern (REL. FIELD)	KRCR-TV ERP (kW)	KRCR-TV Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			1.000	1000.0000			
5	240.0	240.9	0.214	45.7960	52.694	16.50%	No
10	119.1	120.9	0.123	15.1290	69.102	21.64%	No
15	78.4	81.1	0.050	2.5000	25.367	7.94%	No
20	57.7	61.4	0.086	7.3960	131.050	41.04%	No
25	45.0	49.7	0.081	6.5610	177.502	55.59%	No
30	36.4	42.0	0.046	2.1160	80.130	25.09%	No
35	30.0	36.6	0.027	0.7290	36.329	11.38%	No
40	25.0	32.7	0.097	9.4090	588.866	184.41%	Yes
45	21.0	29.7	0.040	1.6000	121.179	37.95%	No
50	17.6	27.4	0.020	0.4000	35.555	11.13%	No
55	14.7	25.6	0.030	0.9000	91.476	28.65%	No
60	12.1	24.2	0.169	28.5610	3244.685	1016.09%	Yes
65	9.8	23.2	0.125	15.6250	1944.058	608.79%	Yes
70	7.6	22.3	0.075	5.6250	752.371	235.61%	Yes
75	5.6	21.7	0.094	8.8360	1248.766	391.06%	Yes
80	3.7	21.3	0.043	1.8490	271.630	85.06%	No
85	1.8	21.1	0.011	0.1210	18.189	5.70%	No
90	0.0	21.0	0.000	0.0000	0.000	0.00%	No





KRCR-TV - REDDING, CALIFORNIA

AUGUST 2021

APPENDIX B

Longley-Rice Interference Analysis

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: KRCR 15 16DSB 1000K 1095H, Model: Longley-Rice
 Start: 2020.11.19 11:01:15

Study created: 2020.11.19 11:01:15

Study build station data: LMS TV 2020-11-19

Proposal: KRCR-TV D15 DT APP REDDING, CA
 File number: KRCR 15 16DSB 1000K 1095H
 Facility ID: 8291
 Station data: User record
 Record ID: 1347
 Country: U.S.
 Zone: II

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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	365.4 km
No	KBSV	D15	DT	LIC	CERES, CA	BLEDT20090213AAZ	361.2
Yes	KNPB	D15	DT	LIC	RENO, NV	BLEDT20031023AAU	267.6
No	KFXO-CD	D15	DC	LIC	BEND, OR	BLANK0000075035	401.2
No	KORY-CD	D15	DC	LIC	EUGENE, OR	BLDTA20120222AAU	379.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
 Latitude: 40 36 9.50 N (NAD83)
 Longitude: 122 39 4.00 W
 Height AMSL: 1915.0 m
 HAAT: 1095.0 m
 Peak ERP: 1000 kW
 Antenna: DIE 16DSB EZprop 0.0 deg
 Elev Pattn: Generic
 Elec Tilt: 1.00

38.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	202 kW	1232.8 m	133.7 km
45.0	188	1237.3	132.9
90.0	689	1454.1	156.3
135.0	983	1220.9	153.4
180.0	935	1153.7	150.2
225.0	507	636.4	120.8
270.0	116	845.2	115.4
315.0	281	972.9	128.0

Database HAAT does not agree with computed HAAT

Appendix B - Interference Analysis **KRCR-TV - Redding, California** **Channel 15 - 1000 kW - Page 2**

Database HAAT: 1095 m Computed HAAT: 1094 m

ERP exceeds maximum

ERP: 1000 kW ERP maximum: 116 kW

Distance to Canadian border: 850.1 km

Distance to Mexican border: 1003.2 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 166.1 degrees Distance: 329.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 86.3 degrees Distance: 1471.5 km

No land mobile station failures found

Study cell size: 2.00 km

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

----- Interference to BLEDT20031023AAU LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNPB	D15	DT	LIC	RENO, NV	BLEDT20031023AAU	
Undesireds:	KRCR-TV	D15	DT	APP	REDDING, CA	KRCR 15 16DSB 1000K 10	267.6 km
	KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	243.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
12616.6	604,614	6146.5		462,732	6146.5	462,732	0.58 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
KRCR-TV D15 DT APP		35.8		25		35.8 25	

----- Interference to BLEDT20031023AAU LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNPB	D15	DT	LIC	RENO, NV	BLEDT20031023AAU	
Undesireds:	KRCR-TV	D15	DT	APP	REDDING, CA	KRCR 15 16DSB 1000K 10	267.6 km
	KBSV	D15	DT	LIC	CERES, CA	BLEDT20090213AAZ	268.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
12616.6	604,614	6146.5		462,732	6142.5	462,732	0.52 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
KRCR-TV D15 DT APP		35.8		25		31.8 25	
KBSV D15 DT LIC		4.0		0	4.0 0	0.0 0	

----- Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KRCR-TV	D15	DT	APP	REDDING, CA	KRCR 15 16DSB 1000K 10	
Undesireds:	KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	365.4 km
Service area		Terrain-limited		IX-free		Percent IX	
59115.6	524,185	45137.1		469,245	45137.1	469,245	0.00 0.00

Appendix B - Interference Analysis
KRCR-TV - Redding, California
Channel 15 - 1000 kW - Page 3

Interference to proposal scenario 2

Desired:	Call KRCR-TV	Chan D15	Svc DT	Status APP	City, State REDDING, CA	File Number KRCR 15 16DSB 1000K 10	Distance
Undesireds:	KBSV	D15	DT	LIC	CERES, CA	BLEDT20090213AAZ	361.2 km
	Service area				Terrain-limited		
	59115.6	524,185	45137.1	469,245	45076.6	IX-free 469,143	Percent IX 0.13 0.02
Undesired					Total IX	Unique IX	Prcnt Unique IX
KBSV D15 DT LIC			60.5		102	60.5 102	0.13 0.02