



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN APPLICATION FOR  
CONSTRUCTION PERMIT  
KEPR-TV - PASCO, WASHINGTON  
DTV - CH. 18 - 83 kW - 367 m HAAT**

Prepared for: SINCLAIR YAKIMA 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 Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

**GENERAL**

This office has been authorized by SINCLAIR YAKIMA LICENSEE, LLC, licensee of KEPR-TV, channel 18, licensed to Pasco, Washington, to prepare this statement, FCC Form 301, Sections III and III-D, and the associated exhibits in support of an application for construction permit to substitute a difference antenna to be installed at the same Height Above Average Terrain (HAAT) as the existing antenna.

**DIRECTIONAL ANTENNA**

The applicant proposes to install a new Dielectric model TLP-12B/VP-R elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 101 meters, and a height above average terrain of 367 meters. The antenna manufacturer's horizontal plane azimuth patterns, illustrating the antenna's radiation characteristics as a function of direction, are shown for the horizontally polarized

signal component in exhibit 1 and tabulated in exhibit 2, and for the vertically polarized signal component in exhibit 3 and tabulated in exhibit 4. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane, due to electrical beam tilt, is shown in Exhibits 5 and 6, and is tabulated in Exhibit 7.

### **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. Exhibit 8 shows the predicted Noise Limited (41 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Pasco, Washington.

### **ALLOCATION CONSIDERATIONS**

#### **DTV Allocation Considerations**

Compliance with Public Notice DA 13-618, which imposes limitations on the filing and processing of modification applications, is shown in exhibit 9. Since the new antenna is to be installed with its radiation centerline located at the same height as the existing

antenna, compliance with DA 13-618 permits KEPR-TV's Effective Radiated Power (ERP) to remain at the same level which will not increase the station's noise-limited contour in any direction.

Even though the distance to the station's noise-limited contour is not increased in any direction, a study was performed, using the Commission's application processing software, tv\_process, to determine if the instant application for construction permit for KEPR-TV is predicted to cause any level of new prohibited interference to any domestic DTV stations, expansion construction permits, pending applications or DTV allotments. Results of the study indicate that the instant application is predicted to cause no impermissible level of new interference to the populations to be served by any domestic DTV station, expansion construction permit, pending DTV application or DTV allotment.

**International Considerations**

The study reveals that the proposed facility is 322.6 kilometers from the Canadian border. The FCC's database shows that there are no first adjacent-channel records closer than 327 km from KEPR-TV's site. The closest co-channel Canadian record is a vacant allotment located 404 kilometers away from the KEPR-TV site. The vacant allotment is assigned to Nelson, BC, with an ERP of 0.3 kW at a HAAT of 100 meters. Longley-Rice studies indicate that KEPR-TV can not cause any interference to any notified Canadian TV or DTV facility. Since KEPR-TV is not extending its noise-limited contour in any direction, there are no international considerations..

**Class A Television Allocation Considerations**

As required in Section 73.616(f) of the FCC's Rules, a study was performed, using the FCC's application processing software. The study revealed that there are no Class A LPTV stations with which KEPR-TV exhibits any spacing violation or contour overlap. The Longley-Rice section of the tv\_process study results show that KEPR-TV is predicted to cause no interference to any Class A LPTV station.

**AM station considerations**

The study also states that the "Proposed station is OK toward AM broadcast stations". There are no AM radio stations located within 3.2 km of the subject site.

**BLANKETING AND INTERMODULATION INTERFERENCE**

There are no other television broadcast facilities co-located with KEPR-TV, however, there are three FM radio facilities located within the relevant distance of 315 meters. There are other broadcast and non-broadcast facilities located within 10 km of KEPR-TV's 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**

Effective October 15, 1997 the FCC adopted new guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in

ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines define a maximum permissible exposure (MPE) level for occupational or "controlled" situations that apply in cases that affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), provides assistance to determine whether FCC-regulated transmitting facilities, operations or devices comply with guidelines for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. OET Bulletin No. 65 contains the technical information necessary to evaluate compliance with the FCC's policies and guidelines.

The Maximum Permitted Exposure (MPE) level for broadcast facilities that operate on a frequency between 30 MHz and 300 MHz is 0.2 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) for an "uncontrolled" environment, and is 1.0 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) for a "controlled" environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHz and 1500 MHz, primarily UHF TV stations, is determined for an "uncontrolled" environment by dividing the operating frequency in MHz by 1500, and is similarly determined for a "controlled" environment by dividing the operating frequency in MHz by 300.

The predicted emissions of KEPR-TV operating on channel 18 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For KEPR-TV, which operates on television Channel 18 (494-500 MHz), the MPE is 0.331 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) in an "uncontrolled" environment and 1.655

mW/cm<sup>2</sup> in a “controlled” environment. The proposed KEPR-TV facility will operate with a maximum ERP of 83 kW from an elliptically polarized directional transmitting antenna with a centerline height of 101 meters above ground level (AGL). Considering a very conservative vertical plane relative field factor of 0.200, the KEPR-TV facility is predicted to produce a power density at two meters above ground level of 0.02263 mW/cm<sup>2</sup>, which is 6.83% of the FCC guideline value for an “uncontrolled” environment, and 1.366% of the FCC’s guideline value for “controlled” environments. There are no other full-service or low-power DTV stations, however, there are three FM stations, located within the relevant proximity of 315 meters. The total percentage of the ANSI value at the proposed site, including the cumulative radiation from all FM and DTV stations within the relevant proximity is 85.37% of the limit applicable to “uncontrolled” environments, and 17.074% of the limit for “controlled” environments.

Access to the transmitting site is restricted and is appropriately marked with RFR warning signs. A protocol is in effect with the other stations to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure.

### **OCCUPATIONAL SAFETY**

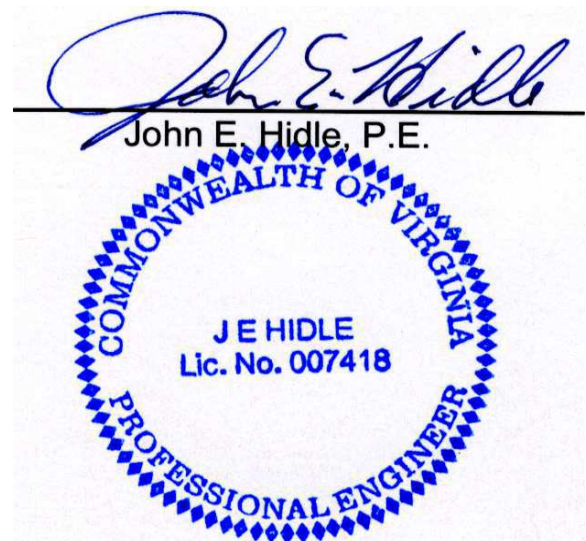
The licensee of KEPR-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the KEPR-TV antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

**STATEMENT OF JOHN E. HIDLE, P.E.**  
**KEPR-TV - Pasco, Washington**  
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**SUMMARY**

It is submitted that the instant application for construction permit to replace KEPR-TV's antenna, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 301, Sections III and III-D, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: March 27, 2014



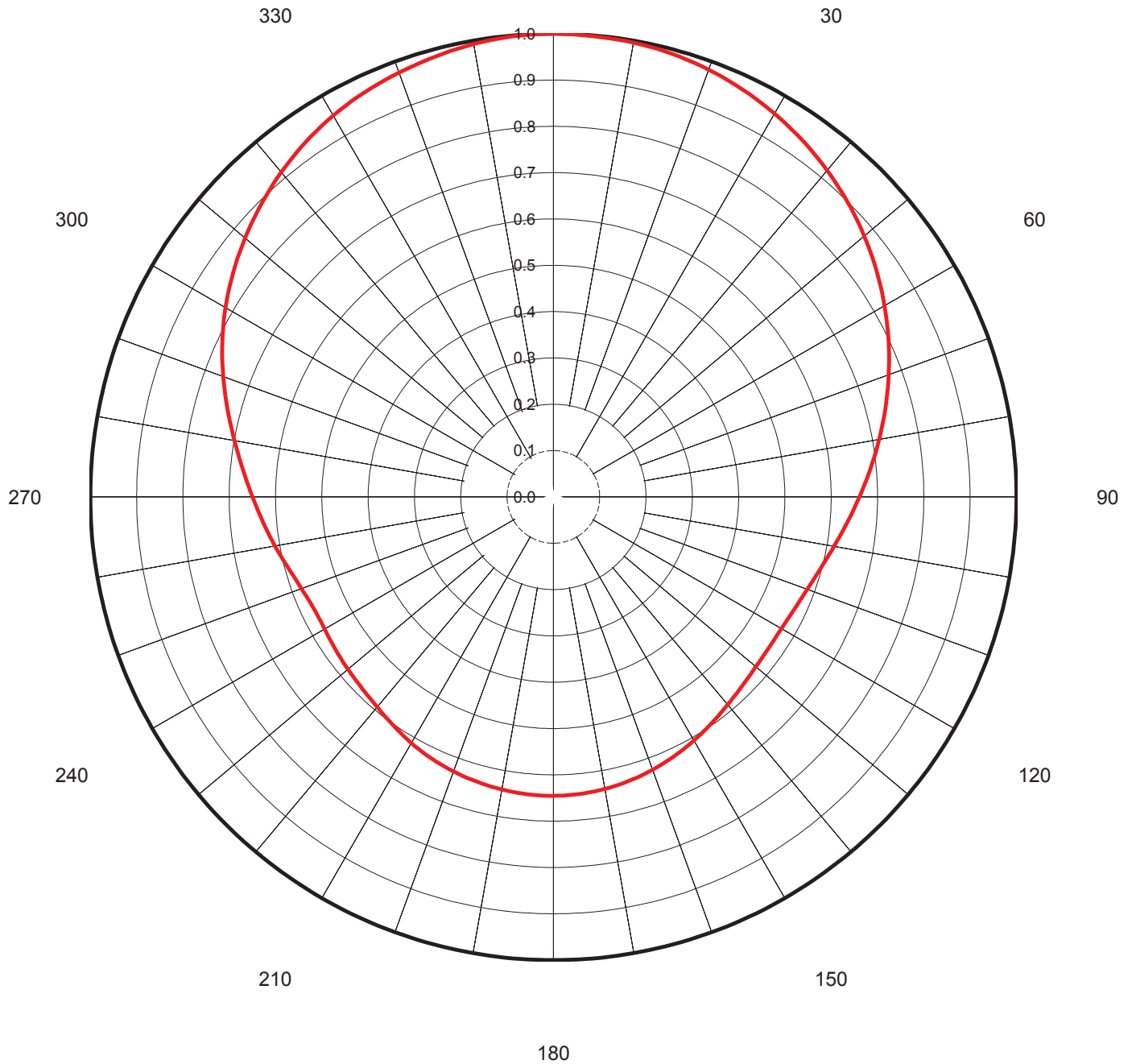


Proposal Number	C-06086	
Date	9-Jan-14	Exhibit 1
Call Letters	KEPR-TV	Channel 18
Location	Pasco, WA	
Customer	Sinclair Broadcasting	
Antenna Type	TLP-12B/VP-R	

### AZIMUTH PATTERN

Gain **1.70** **( 2.30 dB)**  
Calculated / Measured **Calculated**

Frequency **497.00 MHz**  
Drawing # **DSB-B**





Proposal Number C-06086

Exhibit 2

Date

**9-Jan-14**

Call Letters

**KEPR-TV**

Channel

**18**

Location

**Pasco, WA**

Customer

**Sinclair Broadcasting**

Antenna Type

**TLP-12B/VP-R****TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **DSB-B**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	1.000	45	0.899	90	0.661	135	0.577	180	0.645	225	0.584	270	0.650	315	0.893
1	1.000	46	0.895	91	0.656	136	0.578	181	0.645	226	0.583	271	0.654	316	0.897
2	0.999	47	0.890	92	0.651	137	0.580	182	0.645	227	0.582	272	0.659	317	0.902
3	0.999	48	0.886	93	0.646	138	0.582	183	0.645	228	0.581	273	0.663	318	0.906
4	0.999	49	0.881	94	0.641	139	0.584	184	0.645	229	0.580	274	0.668	319	0.910
5	0.998	50	0.876	95	0.637	140	0.586	185	0.644	230	0.579	275	0.673	320	0.914
6	0.998	51	0.872	96	0.632	141	0.588	186	0.644	231	0.578	276	0.678	321	0.919
7	0.998	52	0.867	97	0.628	142	0.590	187	0.643	232	0.577	277	0.683	322	0.923
8	0.997	53	0.862	98	0.624	143	0.592	188	0.643	233	0.576	278	0.688	323	0.927
9	0.996	54	0.857	99	0.619	144	0.594	189	0.642	234	0.575	279	0.694	324	0.930
10	0.996	55	0.852	100	0.615	145	0.596	190	0.641	235	0.574	280	0.699	325	0.934
11	0.995	56	0.847	101	0.612	146	0.598	191	0.640	236	0.573	281	0.705	326	0.938
12	0.994	57	0.842	102	0.608	147	0.600	192	0.640	237	0.572	282	0.711	327	0.941
13	0.993	58	0.836	103	0.604	148	0.603	193	0.639	238	0.572	283	0.716	328	0.944
14	0.992	59	0.831	104	0.601	149	0.605	194	0.638	239	0.571	284	0.722	329	0.948
15	0.990	60	0.826	105	0.597	150	0.607	195	0.637	240	0.570	285	0.728	330	0.951
16	0.989	61	0.820	106	0.594	151	0.609	196	0.636	241	0.570	286	0.734	331	0.954
17	0.987	62	0.815	107	0.591	152	0.611	197	0.634	242	0.570	287	0.740	332	0.956
18	0.985	63	0.810	108	0.589	153	0.614	198	0.633	243	0.570	288	0.747	333	0.959
19	0.983	64	0.804	109	0.586	154	0.616	199	0.632	244	0.570	289	0.753	334	0.962
20	0.981	65	0.799	110	0.583	155	0.618	200	0.631	245	0.571	290	0.759	335	0.964
21	0.979	66	0.793	111	0.581	156	0.619	201	0.629	246	0.572	291	0.765	336	0.966
22	0.977	67	0.787	112	0.579	157	0.621	202	0.628	247	0.573	292	0.771	337	0.968
23	0.975	68	0.782	113	0.577	158	0.623	203	0.626	248	0.575	293	0.777	338	0.971
24	0.972	69	0.776	114	0.575	159	0.625	204	0.625	249	0.577	294	0.783	339	0.973
25	0.970	70	0.771	115	0.574	160	0.627	205	0.623	250	0.579	295	0.789	340	0.975
26	0.967	71	0.765	116	0.573	161	0.628	206	0.621	251	0.581	296	0.795	341	0.977
27	0.964	72	0.759	117	0.571	162	0.630	207	0.619	252	0.584	297	0.801	342	0.979
28	0.961	73	0.754	118	0.570	163	0.632	208	0.618	253	0.587	298	0.806	343	0.980
29	0.958	74	0.748	119	0.569	164	0.633	209	0.616	254	0.590	299	0.812	344	0.982
30	0.955	75	0.742	120	0.569	165	0.634	210	0.613	255	0.593	300	0.817	345	0.984
31	0.952	76	0.737	121	0.568	166	0.636	211	0.611	256	0.596	301	0.823	346	0.986
32	0.949	77	0.731	122	0.568	167	0.637	212	0.609	257	0.600	302	0.828	347	0.988
33	0.946	78	0.726	123	0.568	168	0.638	213	0.607	258	0.603	303	0.834	348	0.990
34	0.942	79	0.720	124	0.568	169	0.639	214	0.605	259	0.607	304	0.839	349	0.991
35	0.939	80	0.714	125	0.568	170	0.640	215	0.602	260	0.610	305	0.844	350	0.993
36	0.935	81	0.709	126	0.568	171	0.641	216	0.600	261	0.614	306	0.849	351	0.994
37	0.932	82	0.703	127	0.569	172	0.642	217	0.598	262	0.618	307	0.854	352	0.995
38	0.928	83	0.698	128	0.569	173	0.643	218	0.596	263	0.622	308	0.859	353	0.996
39	0.924	84	0.692	129	0.570	174	0.643	219	0.594	264	0.625	309	0.864	354	0.997
40	0.920	85	0.687	130	0.571	175	0.644	220	0.592	265	0.629	310	0.869	355	0.998
41	0.916	86	0.682	131	0.572	176	0.644	221	0.590	266	0.633	311	0.874	356	0.999
42	0.912	87	0.676	132	0.573	177	0.645	222	0.589	267	0.637	312	0.879	357	0.999
43	0.908	88	0.671	133	0.574	178	0.645	223	0.587	268	0.641	313	0.883	358	0.999
44	0.904	89	0.666	134	0.575	179	0.645	224	0.586	269	0.646	314	0.888	359	1.000

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Proposal Number

**C-06086**

**Exhibit 3**

Date

**9-Jan-14**

Call Letters

**KEPR-TV**

Channel

**18**

Location

**Pasco, WA**

Customer

**Sinclair Broadcasting**

Antenna Type

**TLP-12B/VP-R**

## AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain

**2.40**

**( 3.80 dB)**

Frequency

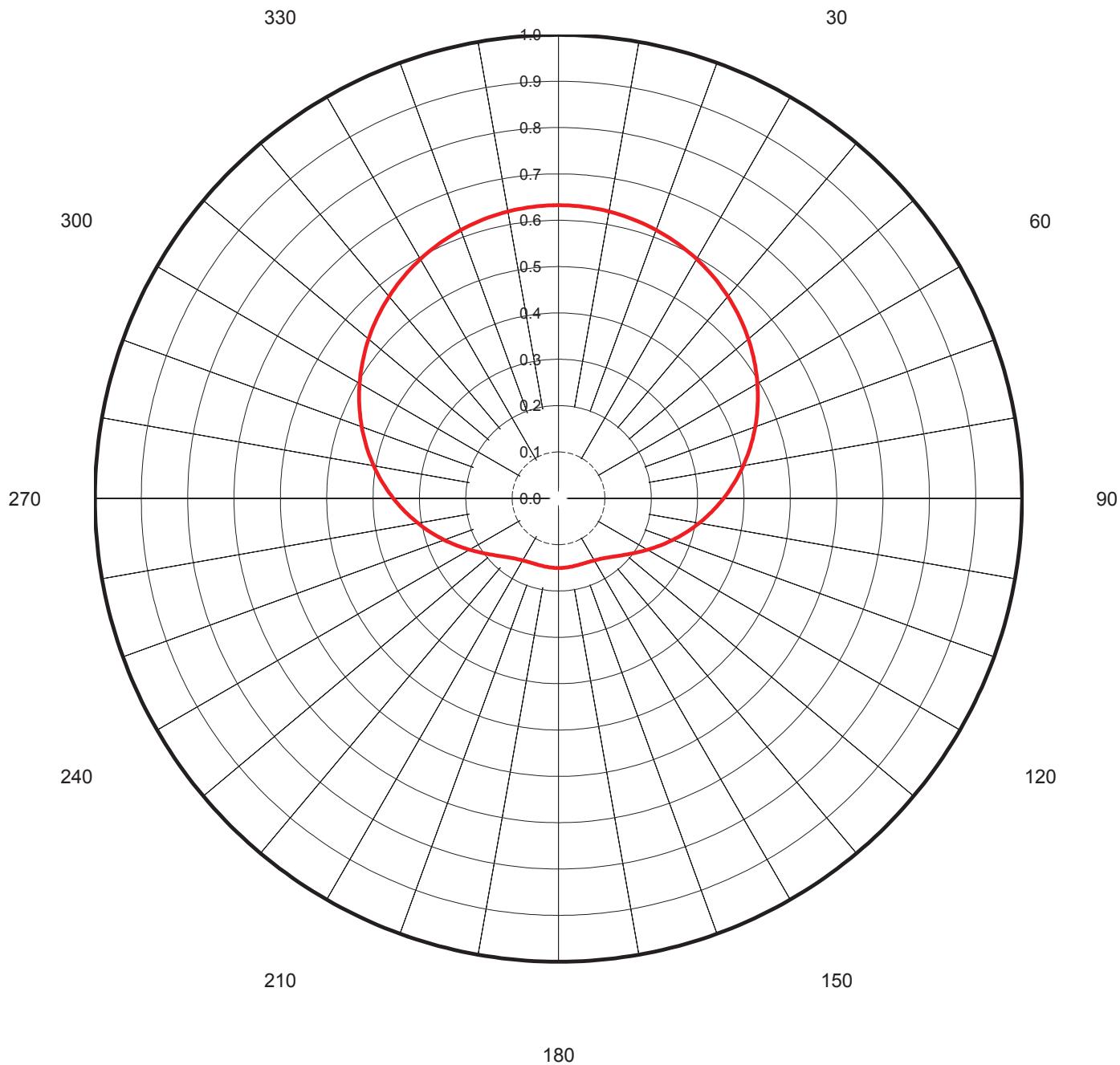
**497.00 MHz**

Calculated / Measured

**Calculated**

0 Drawing #

**TLP-B-VPOL-4970**





Proposal Number

**C-06086****Exhibit 4**

Date

**9-Jan-14**

Call Letters

**KEPR-TV**

Channel

**18**

Location

**Pasco, WA**

Customer

**Sinclair Broadcasting**

Antenna Type

**TLP-12B/VP-R****TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **TLP-B-VPOL-4970**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.632	45	0.552	90	0.356	135	0.177	180	0.150	225	0.177	270	0.356	315	0.552
1	0.632	46	0.549	91	0.351	136	0.174	181	0.150	226	0.179	271	0.361	316	0.556
2	0.632	47	0.546	92	0.347	137	0.172	182	0.150	227	0.181	272	0.366	317	0.559
3	0.632	48	0.542	93	0.342	138	0.170	183	0.150	228	0.184	273	0.371	318	0.562
4	0.632	49	0.538	94	0.337	139	0.168	184	0.150	229	0.187	274	0.376	319	0.566
5	0.631	50	0.535	95	0.332	140	0.167	185	0.150	230	0.189	275	0.381	320	0.569
6	0.631	51	0.531	96	0.327	141	0.165	186	0.150	231	0.192	276	0.385	321	0.572
7	0.630	52	0.527	97	0.322	142	0.164	187	0.150	232	0.195	277	0.390	322	0.575
8	0.630	53	0.523	98	0.318	143	0.162	188	0.150	233	0.198	278	0.395	323	0.578
9	0.629	54	0.520	99	0.313	144	0.161	189	0.150	234	0.201	279	0.400	324	0.580
10	0.628	55	0.516	100	0.308	145	0.159	190	0.150	235	0.204	280	0.405	325	0.583
11	0.627	56	0.512	101	0.303	146	0.158	191	0.150	236	0.208	281	0.410	326	0.586
12	0.626	57	0.508	102	0.299	147	0.157	192	0.150	237	0.211	282	0.414	327	0.588
13	0.625	58	0.504	103	0.294	148	0.156	193	0.150	238	0.215	283	0.419	328	0.591
14	0.624	59	0.500	104	0.289	149	0.155	194	0.150	239	0.218	284	0.424	329	0.594
15	0.623	60	0.495	105	0.285	150	0.155	195	0.150	240	0.222	285	0.428	330	0.596
16	0.622	61	0.491	106	0.280	151	0.154	196	0.150	241	0.226	286	0.433	331	0.598
17	0.621	62	0.487	107	0.276	152	0.153	197	0.150	242	0.229	287	0.438	332	0.601
18	0.619	63	0.483	108	0.271	153	0.153	198	0.150	243	0.233	288	0.442	333	0.603
19	0.618	64	0.478	109	0.267	154	0.152	199	0.150	244	0.237	289	0.447	334	0.605
20	0.616	65	0.474	110	0.262	155	0.152	200	0.150	245	0.241	290	0.452	335	0.607
21	0.614	66	0.470	111	0.258	156	0.151	201	0.151	246	0.245	291	0.456	336	0.609
22	0.613	67	0.465	112	0.254	157	0.151	202	0.151	247	0.250	292	0.461	337	0.611
23	0.611	68	0.461	113	0.250	158	0.151	203	0.151	248	0.254	293	0.465	338	0.613
24	0.609	69	0.456	114	0.245	159	0.151	204	0.151	249	0.258	294	0.470	339	0.614
25	0.607	70	0.452	115	0.241	160	0.150	205	0.152	250	0.262	295	0.474	340	0.616
26	0.605	71	0.447	116	0.237	161	0.150	206	0.152	251	0.267	296	0.478	341	0.618
27	0.603	72	0.442	117	0.233	162	0.150	207	0.153	252	0.271	297	0.483	342	0.619
28	0.601	73	0.438	118	0.229	163	0.150	208	0.153	253	0.276	298	0.487	343	0.621
29	0.598	74	0.433	119	0.226	164	0.150	209	0.154	254	0.280	299	0.491	344	0.622
30	0.596	75	0.428	120	0.222	165	0.150	210	0.155	255	0.285	300	0.495	345	0.623
31	0.593	76	0.424	121	0.218	166	0.150	211	0.155	256	0.289	301	0.500	346	0.624
32	0.591	77	0.419	122	0.215	167	0.150	212	0.156	257	0.294	302	0.504	347	0.625
33	0.588	78	0.414	123	0.211	168	0.150	213	0.157	258	0.299	303	0.508	348	0.627
34	0.586	79	0.409	124	0.208	169	0.150	214	0.158	259	0.303	304	0.512	349	0.627
35	0.583	80	0.405	125	0.204	170	0.150	215	0.160	260	0.308	305	0.516	350	0.628
36	0.580	81	0.400	126	0.201	171	0.150	216	0.161	261	0.313	306	0.520	351	0.629
37	0.577	82	0.395	127	0.198	172	0.150	217	0.162	262	0.318	307	0.524	352	0.630
38	0.575	83	0.390	128	0.195	173	0.150	218	0.164	263	0.322	308	0.527	353	0.630
39	0.572	84	0.385	129	0.192	174	0.150	219	0.165	264	0.327	309	0.531	354	0.631
40	0.569	85	0.381	130	0.189	175	0.150	220	0.167	265	0.332	310	0.535	355	0.631
41	0.565	86	0.376	131	0.186	176	0.150	221	0.169	266	0.337	311	0.538	356	0.632
42	0.562	87	0.371	132	0.184	177	0.150	222	0.170	267	0.342	312	0.542	357	0.632
43	0.559	88	0.366	133	0.181	178	0.150	223	0.172	268	0.347	313	0.546	358	0.632
44	0.556	89	0.361	134	0.179	179	0.150	224	0.174	269	0.351	314	0.549	359	0.632

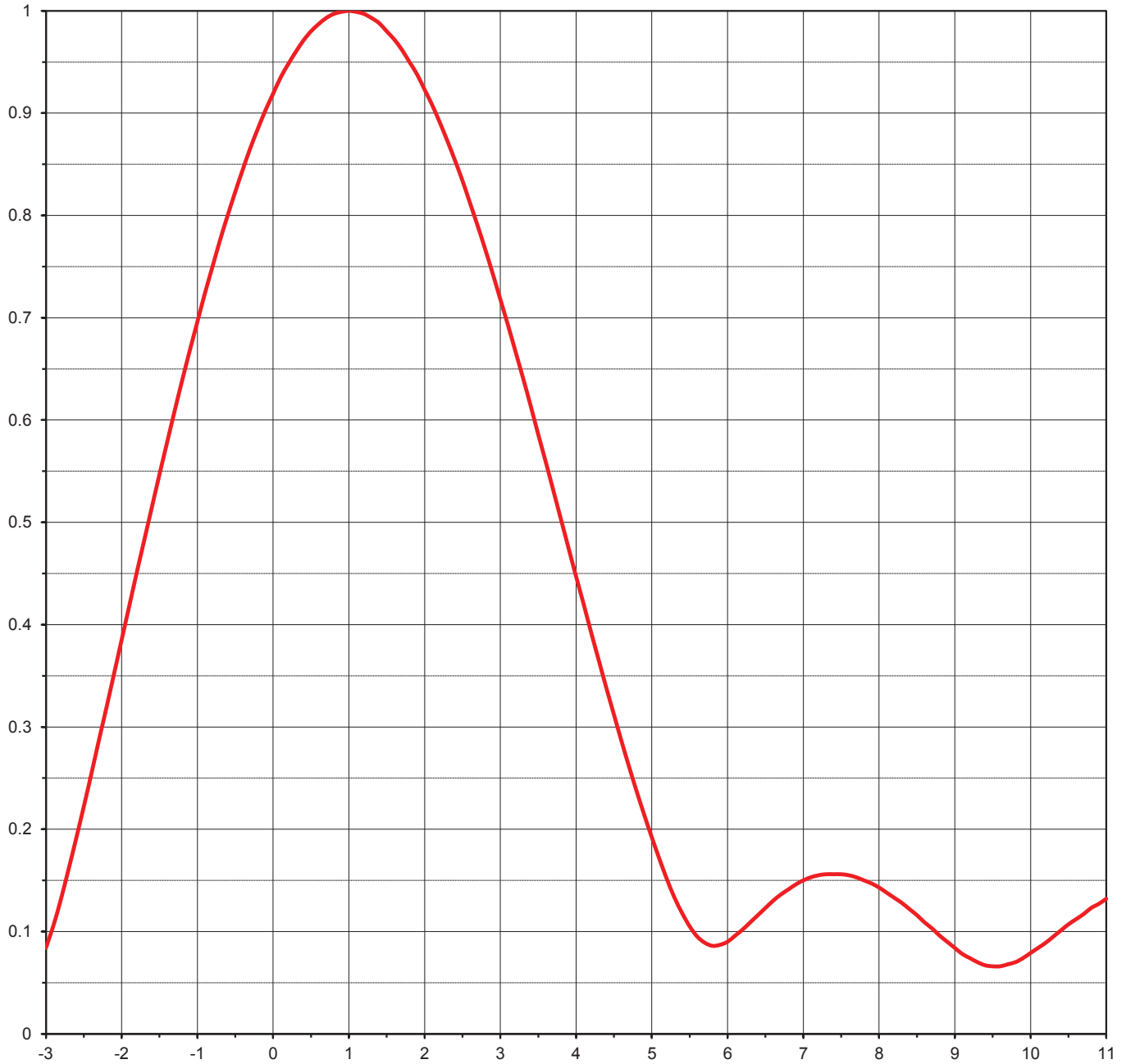
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Proposal Number	C-06086	Exhibit 5
Date	9-Jan-14	
Call Letters	KEPR-TV	Channel 18
Location	Pasco, WA	
Customer	Sinclair Broadcasting	
Antenna Type	TLP-12B/VP-R	

## ELEVATION PATTERN

RMS Gain at Main Lobe	12.00 ( 10.79 dB )	Beam Tilt	1.00 deg
RMS Gain at Horizontal	10.10 ( 10.04 dB )	Frequency	497.00 MHz
Calculated / Measured	Calculated	Drawing #	12L120100



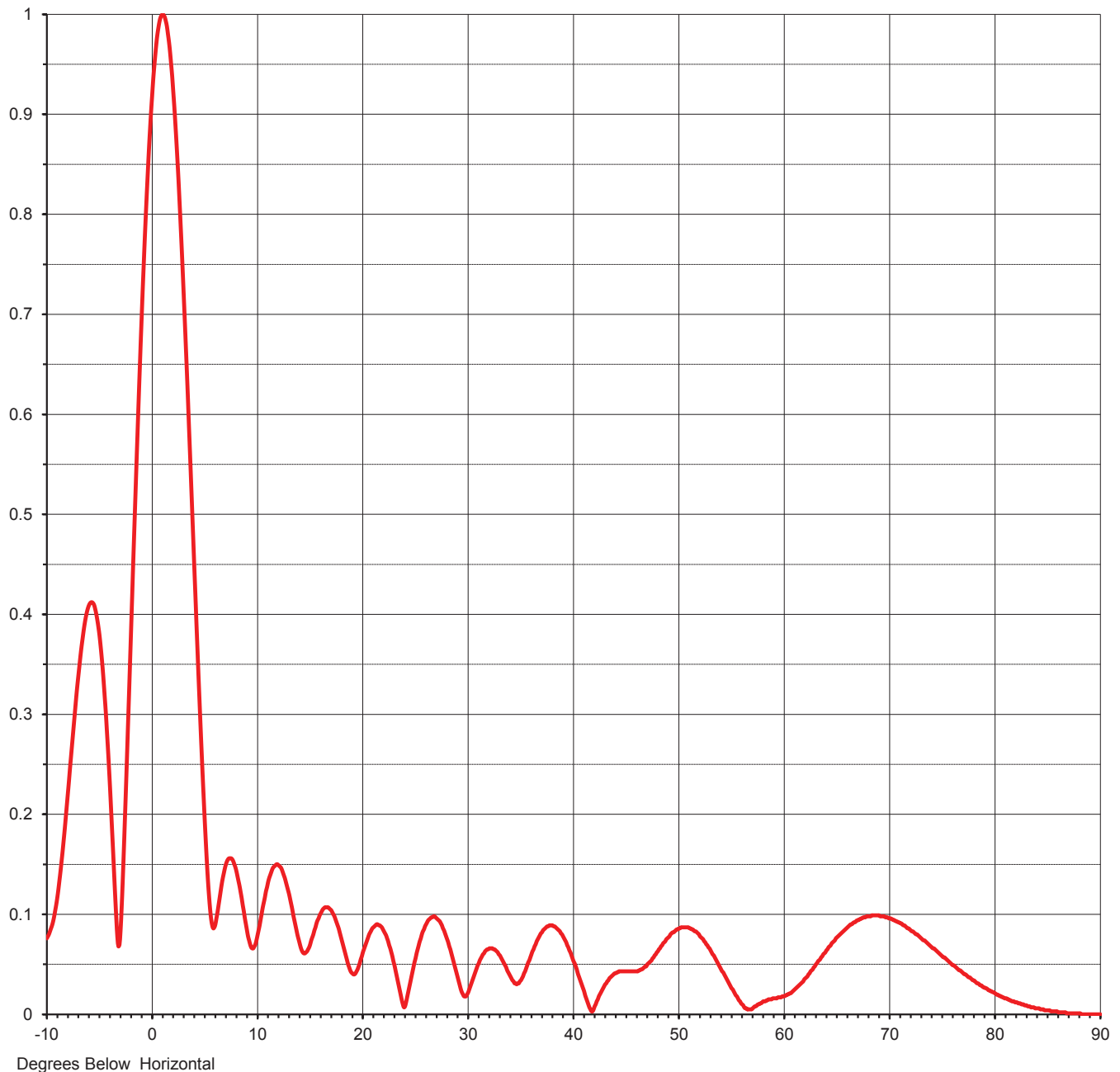
Degrees Below Horizontal



Proposal Number	C-06086	Exhibit 6
Date	9-Jan-14	
Call Letters	KEPR-TV	Channel 18
Location	Pasco, WA	
Customer	Sinclair Broadcasting	
Antenna Type	TLP-12B/VP-R	

## ELEVATION PATTERN

RMS Gain at Main Lobe	12.00 ( 10.79 dB )	Beam Tilt	1.00 deg
RMS Gain at Horizontal	10.10 ( 10.04 dB )	Frequency	497.00 MHz
Calculated / Measured	Calculated	Drawing #	12L120100-90





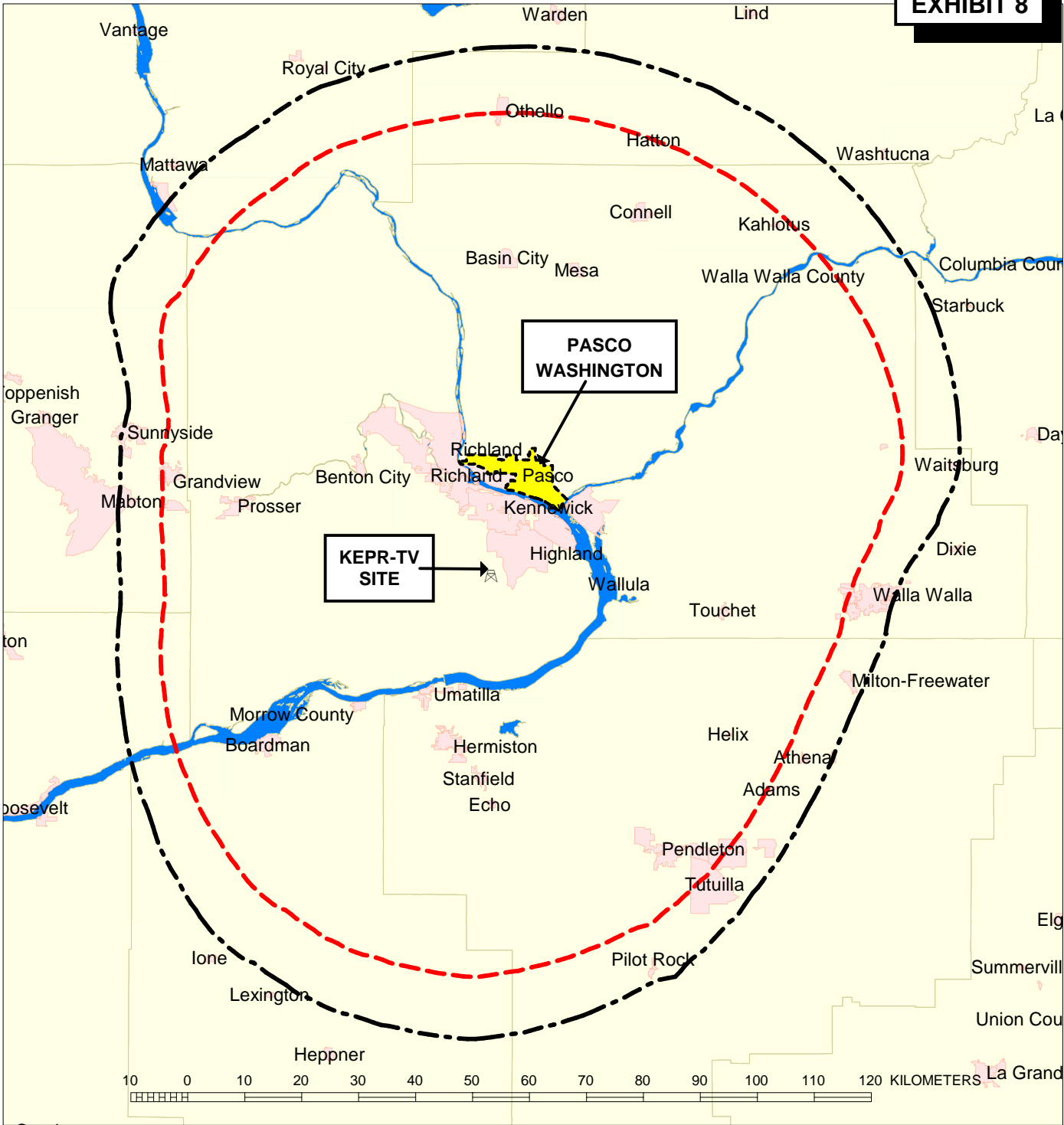
Proposal Number C-06086 Exhibit 7  
Date **9-Jan-14**  
Call Letters **KEPR-TV** Channel **18**  
Location **Pasco, WA**  
Customer **Sinclair Broadcasting**  
Antenna Type **TLP-12B/VP-R**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **12L120100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.076	2.4	0.854	10.6	0.107	30.5	0.034	51.0	0.087	71.5	0.088
-9.5	0.089	2.6	0.812	10.8	0.117	31.0	0.049	51.5	0.084	72.0	0.084
-9.0	0.117	2.8	0.767	11.0	0.127	31.5	0.060	52.0	0.080	72.5	0.080
-8.5	0.163	3.0	0.718	11.5	0.145	32.0	0.065	52.5	0.073	73.0	0.076
-8.0	0.221	3.2	0.667	12.0	0.150	32.5	0.065	53.0	0.066	73.5	0.072
-7.5	0.282	3.4	0.614	12.5	0.142	33.0	0.060	53.5	0.057	74.0	0.067
-7.0	0.339	3.6	0.559	13.0	0.124	33.5	0.051	54.0	0.047	74.5	0.063
-6.5	0.384	3.8	0.503	13.5	0.099	34.0	0.040	54.5	0.038	75.0	0.058
-6.0	0.409	4.0	0.447	14.0	0.075	34.5	0.031	55.0	0.028	75.5	0.054
-5.5	0.409	4.2	0.392	14.5	0.061	35.0	0.033	55.5	0.019	76.0	0.049
-5.0	0.379	4.4	0.338	15.0	0.067	35.5	0.043	56.0	0.011	76.5	0.045
-4.5	0.317	4.6	0.286	15.5	0.084	36.0	0.057	56.5	0.006	77.0	0.041
-4.0	0.227	4.8	0.237	16.0	0.099	36.5	0.070	57.0	0.005	77.5	0.037
-3.5	0.116	5.0	0.192	16.5	0.107	37.0	0.081	57.5	0.009	78.0	0.034
-3.0	0.084	5.2	0.151	17.0	0.105	37.5	0.087	58.0	0.012	78.5	0.030
-2.8	0.132	5.4	0.118	17.5	0.095	38.0	0.089	58.5	0.014	79.0	0.027
-2.6	0.191	5.6	0.095	18.0	0.078	38.5	0.086	59.0	0.016	79.5	0.024
-2.4	0.254	5.8	0.086	18.5	0.058	39.0	0.080	59.5	0.017	80.0	0.021
-2.2	0.319	6.0	0.090	19.0	0.042	39.5	0.069	60.0	0.018	80.5	0.018
-2.0	0.385	6.2	0.102	19.5	0.043	40.0	0.056	60.5	0.020	81.0	0.016
-1.8	0.451	6.4	0.116	20.0	0.058	40.5	0.041	61.0	0.024	81.5	0.014
-1.6	0.515	6.6	0.130	20.5	0.074	41.0	0.026	61.5	0.029	82.0	0.012
-1.4	0.578	6.8	0.141	21.0	0.086	41.5	0.010	62.0	0.035	82.5	0.010
-1.2	0.639	7.0	0.150	21.5	0.090	42.0	0.005	62.5	0.041	83.0	0.009
-1.0	0.696	7.2	0.155	22.0	0.085	42.5	0.018	63.0	0.048	83.5	0.007
-0.8	0.750	7.4	0.156	22.5	0.073	43.0	0.028	63.5	0.055	84.0	0.006
-0.6	0.800	7.6	0.155	23.0	0.053	43.5	0.036	64.0	0.062	84.5	0.005
-0.4	0.845	7.8	0.150	23.5	0.029	44.0	0.041	64.5	0.071	85.0	0.004
-0.2	0.885	8.0	0.143	24.0	0.007	44.5	0.043	65.0	0.077	85.5	0.003
0.0	0.919	8.2	0.133	24.5	0.027	45.0	0.043	65.5	0.082	86.0	0.002
0.2	0.948	8.4	0.122	25.0	0.052	45.5	0.043	66.0	0.087	86.5	0.002
0.4	0.971	8.6	0.109	25.5	0.073	46.0	0.043	66.5	0.091	87.0	0.001
0.6	0.987	8.8	0.096	26.0	0.088	46.5	0.045	67.0	0.094	87.5	0.001
0.8	0.997	9.0	0.084	26.5	0.096	47.0	0.048	67.5	0.097	88.0	0.001
1.0	1.000	9.2	0.074	27.0	0.097	47.5	0.054	68.0	0.098	88.5	0.000
1.2	0.997	9.4	0.067	27.5	0.091	48.0	0.062	68.5	0.099	89.0	0.000
1.4	0.988	9.6	0.066	28.0	0.078	48.5	0.069	69.0	0.099	89.5	0.000
1.6	0.972	9.8	0.068	28.5	0.061	49.0	0.076	69.5	0.098	90.0	0.000
1.8	0.950	10.0	0.074	29.0	0.041	49.5	0.082	70.0	0.096		
2.0	0.923	10.2	0.084	29.5	0.022	50.0	0.085	70.5	0.094		
2.2	0.891	10.4	0.095	30.0	0.020	50.5	0.087	71.0	0.091		

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## PREDICTED COVERAGE CONTOURS

# KEPR-TV - PASCO, WASHINGTON

## CH. 18 - 83 kW - 367 meters HAAT

### Predicted Noise Limited Contour

**F(50,90) - 41 dBu**

**Area = 19,658 sq km**

**Population = 439,931**

### Predicted Principal Community Contour

**F(50,90) - 48 dBu**

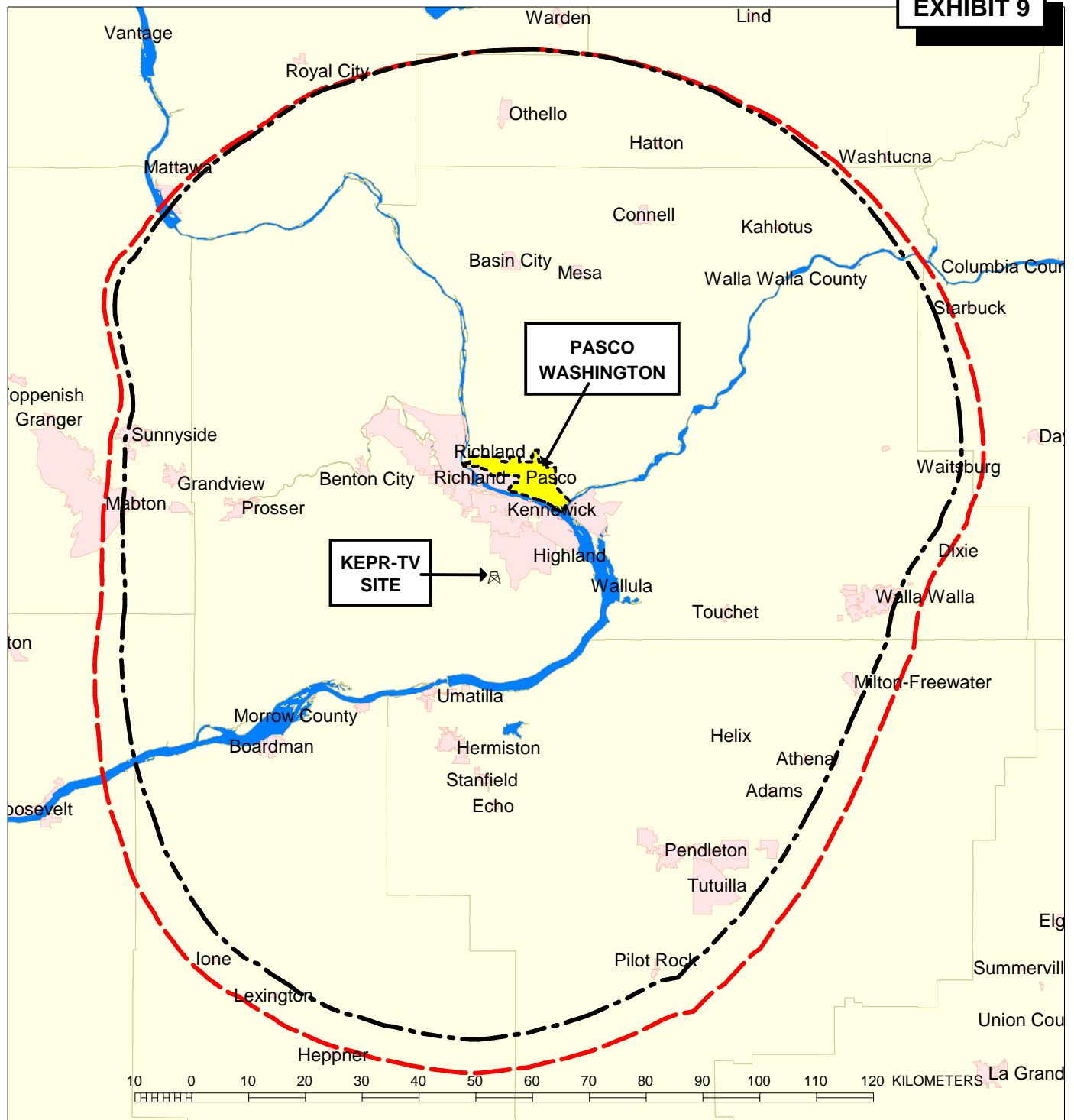
**Area = 15,068 sq km**

**Population = 347,227**

## March 2014



CARL T. JONES CORPORATION



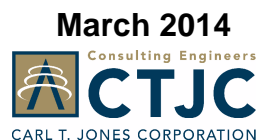
## PREDICTED COVERAGE CONTOURS

**KEPR-TV - PASCO, WASHINGTON**

**CH. 18 - 83 kW - 367 meters HAAT**

**Compliance with Public Notice DA 13-618**

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**Predicted Noise Limited Contour**  
**Proposed - 83 kW - TLP-12B/VP-R**  
**Directional Antenna**  
**F(50,90) - 41 dBu**



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**Predicted Noise Limited Contour**  
**Authorized - 83 kW - TLP-16A**  
**Omni-Directional Antenna**  
**F(50,90) - 41 dBu**