



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
A MINOR MODIFICATION OF A
CONSTRUCTION PERMIT
FILE # 0000035749
KEPR-TV - PASCO, WASHINGTON
DTV - CH. 18 - 150 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 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 YAKIMA LICENSEE, LLC, licensee of KEPR-TV, channel 18, facility ID number 56029, licensed to Pasco, Washington, to prepare this statement, FCC Form 2100, its technical sections, and the associated exhibits in support of an application for a minor modification of its construction permit, file number 0000035749 to substitute a new directional antenna for its authorized antenna, a Dielectric model TFU-20GTH non-directional antenna. The permittee proposes to substitute a Dielectric model TFU-20GTH/VP-R 6T140 elliptically polarized directional antenna at the current authorized position of 101 meters above ground level. The Effective Radiated Power will remain at 150 kW. No other changes are herein proposed.

DIRECTIONAL ANTENNA

The applicant seeks to install a new Dielectric model TFU-20GTH/VP-R 6T140 elliptically polarized directional transmitting antenna with its center of radiation located at a height of 101 meters above ground, and 367 meters above average terrain. The antenna manufacturer's antenna data, including the horizontal azimuth patterns of both the horizontal and vertical signal components and the vertical plane elevation radiation pattern, illustrating the antenna's 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. Exhibit 1 shows the predicted Noise Limited (39.15 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Pasco, Washington.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A study was performed, using the FCC's software, *tvstudy*, v. 2.2.5, to determine if the instant application for a minor modification of KEPR-TV's construction permit is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application is predicted to cause new interference to no more than 0.5%, or less, of the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations.

International DTV Considerations

The KEPR-TV site is located 322.7 kilometers from the nearest point on the US-Canadian border and is more than 1,500 kilometers from the nearest point on the US-Mexican border. The proposal's 24.15 dBu contour does not cross the Canadian border. Therefore, international notification and coordination of the instant proposal is not required. (See Appendix B)

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed KEPR-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 & STATEMENT OF COMPLIANCE

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 will reduce power or cease operation, when necessary, to ensure protection to personnel.

As shown in Appendix A the KEPR-TV channel 18 facility as proposed herein will operate with a maximum ERP of 150 kW from an elliptically polarized directional transmitting antenna with a centerline height of 101 meters above ground level (AGL). Considering the elevation pattern submitted elsewhere in this submission, the vertical plane relative field factor is less than 0.100 at all depression angles greater than 13 degrees. The proposed KEPR-TV channel 18 facility is predicted to produce a worst-case power density at two meters above ground level, at 17.5 meters from the tower base, of $2.19 \mu\text{W}/\text{cm}^2$, which is 0.66% of the FCC guideline value of $331.33 \mu\text{W}/\text{cm}^2$ for an "uncontrolled" environment, and 0.132% of the FCC's guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal's power density contribution is considered insignificant. Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

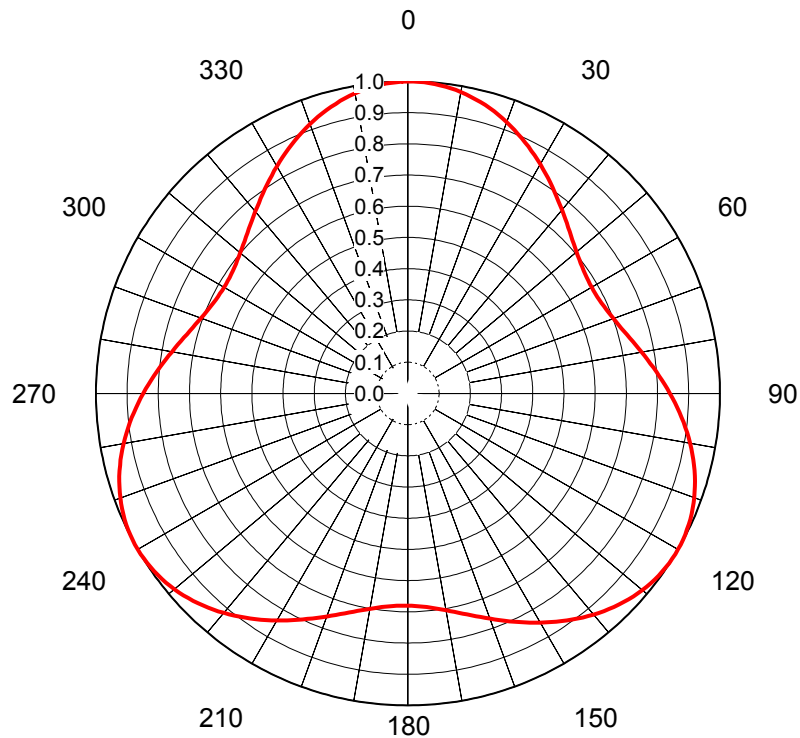
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SUMMARY

The instant application for a minor modification of KEPR-TV's construction permit, file number 0000035749, seeks to substitute a new directional antenna, a Dielectric model TFU-20GTH/VP-R 6T140, for its authorized Dielectric model TFU-20GTH non-directional antenna, at its currently authorized position at 101 meters above ground level and 367 meters Height Above Average Terrain (HAAT). The ERP will remain at 150 kW. It is submitted that the instant application requesting a minor modification of KEPR-TV's construction permit, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, 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: September 15, 2023



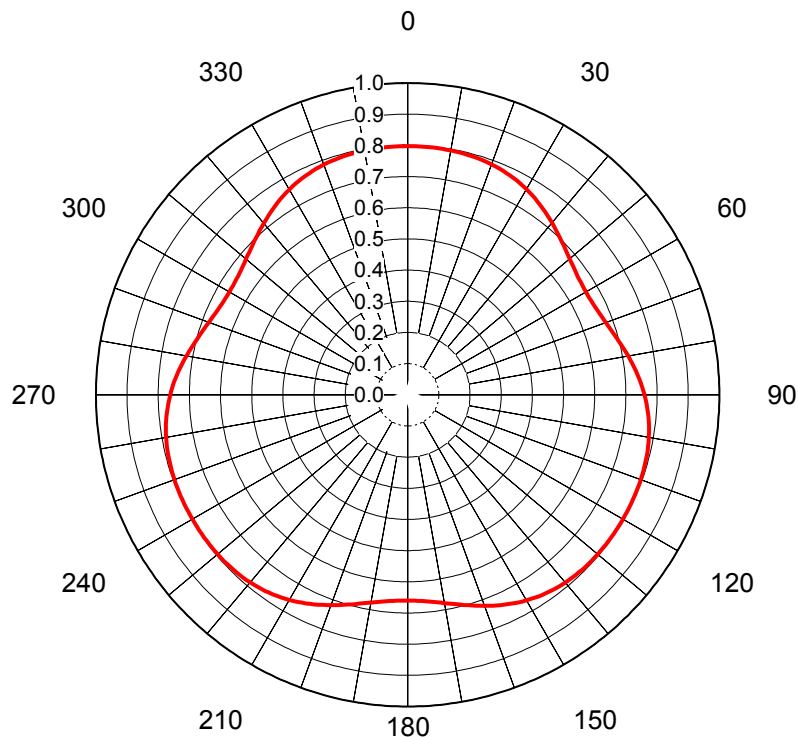


AZIMUTH PATTERN Horizontal Polarization

Proposal No. **C-71473-2**
 Date **12-Mar-20**
 Call Letters **KEPR**
 Channel **18**
 Frequency **497 MHz**
 Antenna Type **TFU-20GTH/VP-R 6T140**
 Gain **1.39 (1.42dB)**
 Calculated
 Circularity **+/- 2.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.799	72	0.711	108	0.967	144	0.896	180	0.681	216	0.888	252	0.972	288	0.716
1	1.000	37	0.791	73	0.716	109	0.972	145	0.888	181	0.680	217	0.896	253	0.968	289	0.710
2	0.999	38	0.784	74	0.721	110	0.977	146	0.881	182	0.681	218	0.904	254	0.962	290	0.706
3	0.999	39	0.776	75	0.727	111	0.981	147	0.873	183	0.682	219	0.911	255	0.957	291	0.701
4	0.997	40	0.768	76	0.733	112	0.984	148	0.865	184	0.683	220	0.918	256	0.951	292	0.697
5	0.996	41	0.761	77	0.740	113	0.988	149	0.857	185	0.685	221	0.925	257	0.945	293	0.693
6	0.993	42	0.754	78	0.747	114	0.991	150	0.848	186	0.688	222	0.932	258	0.939	294	0.690
7	0.991	43	0.747	79	0.754	115	0.994	151	0.840	187	0.690	223	0.939	259	0.932	295	0.687
8	0.988	44	0.740	80	0.761	116	0.995	152	0.832	188	0.694	224	0.945	260	0.925	296	0.685
9	0.985	45	0.733	81	0.768	117	0.997	153	0.824	189	0.697	225	0.951	261	0.918	297	0.683
10	0.981	46	0.727	82	0.776	118	0.998	154	0.816	190	0.701	226	0.957	262	0.911	298	0.682
11	0.977	47	0.721	83	0.783	119	1.000	155	0.807	191	0.706	227	0.962	263	0.904	299	0.681
12	0.972	48	0.716	84	0.791	120	1.000	156	0.799	192	0.711	228	0.967	264	0.896	300	0.681
13	0.968	49	0.710	85	0.799	121	1.000	157	0.791	193	0.716	229	0.972	265	0.888	301	0.680
14	0.962	50	0.706	86	0.807	122	0.999	158	0.784	194	0.721	230	0.977	266	0.881	302	0.681
15	0.957	51	0.701	87	0.816	123	0.999	159	0.776	195	0.727	231	0.981	267	0.873	303	0.682
16	0.951	52	0.697	88	0.824	124	0.997	160	0.768	196	0.733	232	0.984	268	0.865	304	0.683
17	0.945	53	0.693	89	0.832	125	0.996	161	0.761	197	0.740	233	0.988	269	0.857	305	0.685
18	0.939	54	0.690	90	0.840	126	0.993	162	0.754	198	0.747	234	0.991	270	0.848	306	0.688
19	0.932	55	0.687	91	0.848	127	0.991	163	0.747	199	0.754	235	0.994	271	0.840	307	0.690
20	0.925	56	0.685	92	0.856	128	0.988	164	0.740	200	0.761	236	0.995	272	0.832	308	0.694
21	0.918	57	0.683	93	0.865	129	0.985	165	0.733	201	0.768	237	0.997	273	0.824	309	0.697
22	0.911	58	0.682	94	0.873	130	0.981	166	0.727	202	0.776	238	0.998	274	0.816	310	0.701
23	0.904	59	0.681	95	0.881	131	0.977	167	0.721	203	0.783	239	1.000	275	0.807	311	0.706
24	0.896	60	0.681	96	0.888	132	0.972	168	0.716	204	0.791	240	1.000	276	0.799	312	0.711
25	0.888	61	0.680	97	0.896	133	0.968	169	0.710	205	0.799	241	1.000	277	0.791	313	0.716
26	0.881	62	0.681	98	0.904	134	0.962	170	0.706	206	0.807	242	0.999	278	0.784	314	0.721
27	0.873	63	0.682	99	0.911	135	0.957	171	0.701	207	0.816	243	0.999	279	0.776	315	0.727
28	0.865	64	0.683	100	0.918	136	0.951	172	0.697	208	0.824	244	0.997	280	0.768	316	0.733
29	0.857	65	0.685	101	0.925	137	0.945	173	0.693	209	0.832	245	0.996	281	0.761	317	0.740
30	0.848	66	0.688	102	0.932	138	0.939	174	0.690	210	0.840	246	0.993	282	0.754	318	0.747
31	0.840	67	0.690	103	0.939	139	0.932	175	0.687	211	0.848	247	0.991	283	0.747	319	0.754
32	0.832	68	0.694	104	0.945	140	0.925	176	0.685	212	0.856	248	0.988	284	0.740	320	0.761
33	0.824	69	0.697	105	0.951	141	0.918	177	0.683	213	0.865	249	0.985	285	0.733	321	0.768
34	0.816	70	0.701	106	0.957	142	0.911	178	0.682	214	0.873	250	0.981	286	0.727	322	0.776
35	0.807	71	0.706	107	0.962	143	0.904	179	0.681	215	0.881	251	0.977	287	0.721	323	0.783

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AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-71473-2**
 Date **12-Mar-20**
 Call Letters **KEPR**
 Channel **18**
 Frequency **497 MHz**
 Antenna Type **TFU-20GTH/VP-R 6T140**
 Gain **1.14 (0.58dB)**
 Calculated
 Circularity **+/- 1.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.798	36	0.738	72	0.684	108	0.795	144	0.779	180	0.660	216	0.778	252	0.795	288	0.686
1	0.798	37	0.734	73	0.688	109	0.795	145	0.776	181	0.660	217	0.780	253	0.794	289	0.682
2	0.798	38	0.729	74	0.692	110	0.796	146	0.774	182	0.661	218	0.782	254	0.793	290	0.679
3	0.797	39	0.725	75	0.696	111	0.796	147	0.771	183	0.661	219	0.784	255	0.793	291	0.675
4	0.797	40	0.720	76	0.700	112	0.796	148	0.768	184	0.663	220	0.786	256	0.792	292	0.672
5	0.797	41	0.716	77	0.705	113	0.797	149	0.765	185	0.664	221	0.787	257	0.791	293	0.670
6	0.797	42	0.711	78	0.709	114	0.797	150	0.762	186	0.666	222	0.789	258	0.789	294	0.667
7	0.797	43	0.707	79	0.714	115	0.797	151	0.758	187	0.668	223	0.790	259	0.788	295	0.665
8	0.797	44	0.702	80	0.718	116	0.797	152	0.754	188	0.671	224	0.791	260	0.787	296	0.663
9	0.796	45	0.698	81	0.723	117	0.797	153	0.751	189	0.674	225	0.792	261	0.785	297	0.662
10	0.796	46	0.694	82	0.727	118	0.798	154	0.747	190	0.677	226	0.793	262	0.783	298	0.661
11	0.795	47	0.690	83	0.732	119	0.798	155	0.742	191	0.680	227	0.794	263	0.781	299	0.660
12	0.795	48	0.686	84	0.736	120	0.798	156	0.738	192	0.684	228	0.795	264	0.779	300	0.660
13	0.794	49	0.682	85	0.740	121	0.798	157	0.734	193	0.688	229	0.795	265	0.776	301	0.660
14	0.793	50	0.679	86	0.744	122	0.798	158	0.729	194	0.692	230	0.796	266	0.774	302	0.661
15	0.793	51	0.675	87	0.749	123	0.797	159	0.725	195	0.696	231	0.796	267	0.771	303	0.661
16	0.792	52	0.672	88	0.752	124	0.797	160	0.720	196	0.700	232	0.796	268	0.768	304	0.663
17	0.791	53	0.670	89	0.756	125	0.797	161	0.716	197	0.705	233	0.797	269	0.765	305	0.664
18	0.789	54	0.667	90	0.760	126	0.797	162	0.711	198	0.709	234	0.797	270	0.762	306	0.666
19	0.788	55	0.665	91	0.763	127	0.797	163	0.707	199	0.714	235	0.797	271	0.758	307	0.668
20	0.787	56	0.663	92	0.767	128	0.797	164	0.702	200	0.718	236	0.797	272	0.754	308	0.671
21	0.785	57	0.662	93	0.770	129	0.796	165	0.698	201	0.723	237	0.797	273	0.751	309	0.674
22	0.783	58	0.661	94	0.772	130	0.796	166	0.694	202	0.727	238	0.798	274	0.747	310	0.677
23	0.781	59	0.660	95	0.775	131	0.795	167	0.690	203	0.732	239	0.798	275	0.742	311	0.680
24	0.779	60	0.660	96	0.778	132	0.795	168	0.686	204	0.736	240	0.798	276	0.738	312	0.684
25	0.776	61	0.660	97	0.780	133	0.794	169	0.682	205	0.740	241	0.798	277	0.734	313	0.688
26	0.774	62	0.661	98	0.782	134	0.793	170	0.679	206	0.744	242	0.798	278	0.729	314	0.692
27	0.771	63	0.661	99	0.784	135	0.793	171	0.675	207	0.749	243	0.797	279	0.725	315	0.696
28	0.768	64	0.663	100	0.786	136	0.792	172	0.672	208	0.752	244	0.797	280	0.720	316	0.700
29	0.765	65	0.664	101	0.787	137	0.791	173	0.670	209	0.756	245	0.797	281	0.716	317	0.705
30	0.762	66	0.666	102	0.789	138	0.789	174	0.667	210	0.760	246	0.797	282	0.711	318	0.709
31	0.758	67	0.668	103	0.790	139	0.788	175	0.665	211	0.763	247	0.797	283	0.707	319	0.714
32	0.754	68	0.671	104	0.791	140	0.787	176	0.663	212	0.767	248	0.797	284	0.702	320	0.718
33	0.751	69	0.674	105	0.792	141	0.785	177	0.662	213	0.770	249	0.796	285	0.698	321	0.723
34	0.747	70	0.677	106	0.793	142	0.783	178	0.661	214	0.772	250	0.796	286	0.694	322	0.727
35	0.742	71	0.680	107	0.794	143	0.781	179	0.660	215	0.775	251	0.795	287	0.690	323	0.732

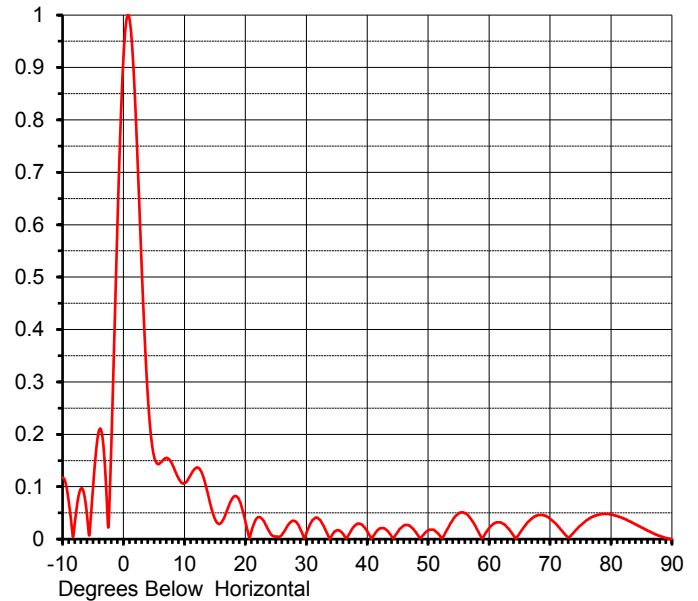
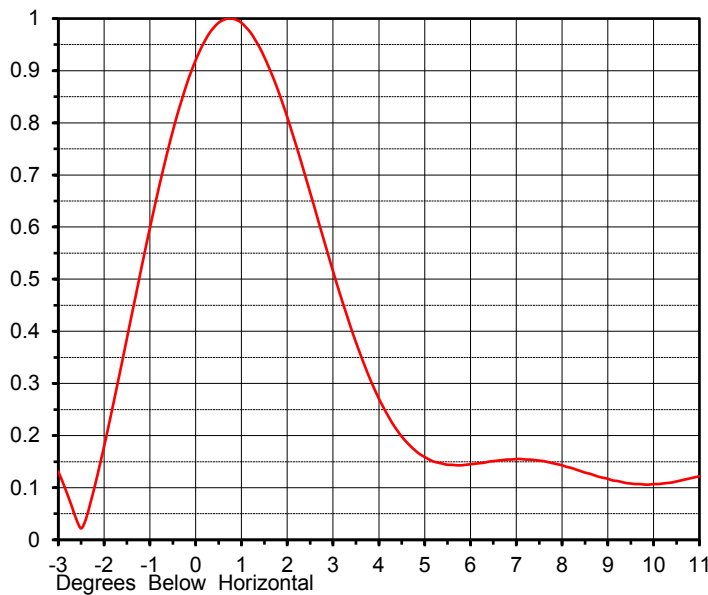
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ELEVATION PATTERN

Proposal No. **C-71473-2**
 Date **12-Mar-20**
 Call Letters **KEPR**
 Channel **18**
 Frequency **497 MHz**
 Antenna Type **TFU-20GTH/VP-R 6T140**

RMS Directivity at Main Lobe **18.0 (12.55 dB)**
 RMS Directivity at Horizontal **15.2 (11.82 dB)**
Calculated

Beam Tilt **0.75 deg**
 Pattern Number **20G180075**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.118	10.0	0.107	30.0	0.011	50.0	0.017	70.0	0.039
-9.0	0.073	11.0	0.122	31.0	0.036	51.0	0.017	71.0	0.029
-8.0	0.030	12.0	0.136	32.0	0.039	52.0	0.005	72.0	0.015
-7.0	0.096	13.0	0.122	33.0	0.021	53.0	0.016	73.0	0.003
-6.0	0.047	14.0	0.079	34.0	0.003	54.0	0.036	74.0	0.014
-5.0	0.098	15.0	0.039	35.0	0.017	55.0	0.049	75.0	0.026
-4.0	0.208	16.0	0.031	36.0	0.010	56.0	0.050	76.0	0.036
-3.0	0.131	17.0	0.055	37.0	0.009	57.0	0.039	77.0	0.043
-2.0	0.179	18.0	0.080	38.0	0.026	58.0	0.019	78.0	0.047
-1.0	0.598	19.0	0.074	39.0	0.028	59.0	0.003	79.0	0.048
0.0	0.920	20.0	0.034	40.0	0.015	60.0	0.021	80.0	0.047
1.0	0.992	21.0	0.015	41.0	0.006	61.0	0.031	81.0	0.044
2.0	0.811	22.0	0.041	42.0	0.020	62.0	0.031	82.0	0.040
3.0	0.515	23.0	0.035	43.0	0.019	63.0	0.022	83.0	0.034
4.0	0.271	24.0	0.013	44.0	0.005	64.0	0.007	84.0	0.028
5.0	0.159	25.0	0.005	45.0	0.014	65.0	0.011	85.0	0.022
6.0	0.145	26.0	0.008	46.0	0.026	66.0	0.027	86.0	0.016
7.0	0.155	27.0	0.027	47.0	0.025	67.0	0.039	87.0	0.011
8.0	0.143	28.0	0.035	48.0	0.013	68.0	0.046	88.0	0.006
9.0	0.117	29.0	0.020	49.0	0.005	69.0	0.045	89.0	0.002
								90.0	0.000

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KEPR-TV - Main Facility
Channel 18 - Pasco, Washington
ERP = 150000.00 WATTS

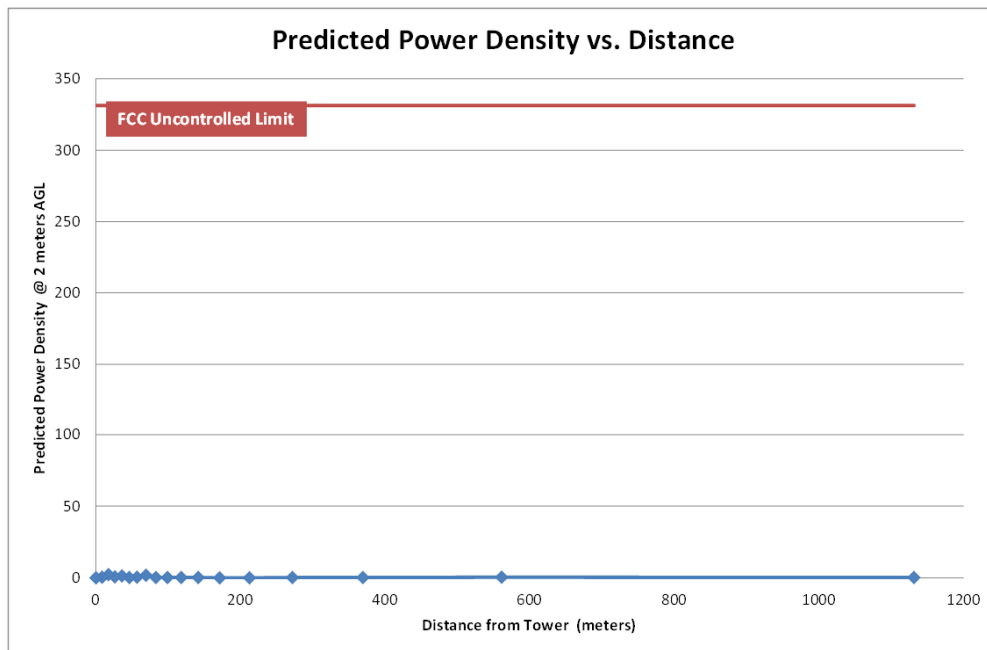
APPENDIX A

Maximum ERP 150 kW

Polarization ----- 2 Circular
 Antenna Height Above Ground -- 101 meters 331.4 feet
 FCC Uncontrolled RFR Limit ---- 331.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 2.190 $\mu\text{W}/\text{cm}^2$
 0.66% of limit

Angle Below Horizontal (degrees)	<Point X>		Vertical Pattern (REL. FIELD)	KEPR-TV - Main Facility			
	Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)		PR-TV - Main Fac ERP (kW)	Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			1.000	150.0000			
5	1131.6	1135.9	0.159	3.7922	0.196	0.06%	No
10	561.5	570.1	0.107	1.7174	0.353	0.11%	No
15	369.5	382.5	0.039	0.2282	0.104	0.03%	No
20	272.0	289.5	0.034	0.1734	0.138	0.04%	No
25	212.3	234.3	0.005	0.0038	0.005	0.00%	No
30	171.5	198.0	0.011	0.0182	0.031	0.01%	No
35	141.4	172.6	0.017	0.0434	0.097	0.03%	No
40	118.0	154.0	0.015	0.0338	0.095	0.03%	No
45	99.0	140.0	0.014	0.0294	0.100	0.03%	No
50	83.1	129.2	0.017	0.0434	0.173	0.05%	No
55	69.3	120.9	0.049	0.3602	1.647	0.50%	No
60	57.2	114.3	0.021	0.0662	0.338	0.10%	No
65	46.2	109.2	0.011	0.0182	0.102	0.03%	No
70	36.0	105.4	0.039	0.2282	1.373	0.41%	No
75	26.5	102.5	0.026	0.1014	0.645	0.19%	No
80	17.5	100.5	0.047	0.3314	2.190	0.66%	No
85	8.7	99.4	0.022	0.0726	0.491	0.15%	No
90	0.0	99.0	0.000	0.0000	0.000	0.00%	No





KEPR-TV - PASCO, WASHINGTON **SEPTEMBER 2023** **APPENDIX B** **150 kW - Channel 18** **Longley-Rice Interference Analysis**

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: KEPR-TV CP with DA, Model: Longley-Rice
 Start: 2023.09.14 11:53:36

Study created: 2023.09.14 11:53:35

Study build station data: LMS TV 2023-09-13

Proposal: KEPR-TV-DA D18 DT APP PASCO, WA
 File number: KEPR-TV-with-DA
 Facility ID: 56029
 Station data: User record
 Record ID: 165
 Country: U.S.
 Zone: II

Build options:
 Protect pre-transition records not on baseline channel

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	KVBI-CD	D17	DC	LIC	CLARKSTON, WA	BLANK0000099493	169.4 km
No	KCLP-CD	D18	DC	LIC	BOISE, ID	BLANK0000007378	356.4
Yes	KCDT	D18	DT	LIC	COEUR D'ALENE, ID	BLANK0000087275	260.6
No	KAJJ-CD	D18	DC	LIC	KALISPELL, MT	BLANK0000059782	422.9
Yes	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	280.4
No	KTVC	D18	DT	CP	ROSEBURG, OR	BLANK0000036020	461.8
No	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	455.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
 Latitude: 46 5 50.00 N (NAD83)
 Longitude: 119 11 33.00 W
 Height AMSL: 721.2 m
 HAAT: 367.0 m
 Peak ERP: 150 kW
 Antenna: KEPR-TFU-20GTH/VP-R 6T140 0.0 deg
 Elev Pattn: Generic
 Elec Tilt: 0.75

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	150 kW	491.4 m	99.8 km
45.0	81.5	511.6	96.2
90.0	106	283.3	79.7

Appendix B - Interference Analysis
KEPR-TV - Pasco, Washington
Channel 18 -150 kW - Page 2

135.0	136	291.8	82.2
180.0	69.6	393.0	87.4
225.0	135	365.8	90.2
270.0	108	183.1	71.9
315.0	80.2	392.0	88.3

Database HAAT does not agree with computed HAAT
 Database HAAT: 367 m Computed HAAT: 364 m

Proposal 24.15 dBu contour does not cross Canadian border
 Distance to Canadian border: 322.7 km

Distance to Mexican border: 1508.6 km

Conditions at FCC monitoring station: Ferndale WA
 Bearing: 322.8 degrees Distance: 405.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 115.4 degrees Distance: 1306.9 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 BLANK0000087275 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCDT	D18	DT	LIC	COEUR D'ALENE, ID	BLANK0000087275	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	260.6 km
	KEPR-TV-DAD18	DT	APP	PASCO, WA	KEPR-TV-with-DA		260.6
	KAJJ-CD	D18	DC	LIC	KALISPELL, MT	BLANK0000059782	179.1
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	21062.9	698,389	15719.3	657,101	15188.8	654,890	15096.2 654,291 0.61 0.09
Undesired			Total IX	Unique IX, before	Unique IX, after		
KEPR-TV D18 DT BL		506.4	2,200	429.9	1,738		
KEPR-TV-DA D18 DT APP		599.1	2,799			522.5	2,337
KAJJ-CD D18 DC LIC		100.6	473	24.1	11	24.1	11

 Interference to BLANK0000002204 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	280.4 km
	KEPR-TV-DAD18	DT	APP	PASCO, WA	KEPR-TV-with-DA		280.4
	KABH-CD	D17	DC	LIC	BEND, OR	BLDTA20131029ABN	0.4
	KTVK	D18	DT	CP	ROSEBURG, OR	BLANK0000036020	191.4
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	14887.3	201,310	11903.1	197,662	11739.3	195,936	11655.8 195,188 0.71 0.38
Undesired			Total IX	Unique IX, before	Unique IX, after		
KEPR-TV D18 DT BL		39.8	0	39.8	0		
KEPR-TV-DA D18 DT APP		127.2	748			123.2	748
KABH-CD D17 DC LIC		124.0	1,726	124.0	1,726	120.1	1,726

Appendix B - Interference Analysis
KEPR-TV - Pasco, Washington
Channel 18 -150 kW - Page 3

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEPR-TV-DAD18	D18	DT	APP	PASCO, WA	KEPR-TV-with-DA	
Undesireds:	KCDT	D18	DT	LIC	COEUR D'ALENE, ID	BLANK0000087275	260.6 km
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	280.4
	Service area		Terrain-limited		IX-free	Percent IX	
	23923.8	469,025	22839.1	458,654	22819.2	458,654	0.09 0.00
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KCDT D18 DT LIC				16.0 0	16.0 0	0.07 0.00	
KOHD D18 DT LIC				4.0 0	4.0 0	0.02 0.00	

KEPR-TV.C

0000035749

Latitude: 46-05-50 N

Longitude: 119-11-33 W

ERP: 150.00 kW

Channel: 18

Frequency: 497.0 MHz

AMSL Height: 721.2 m

Elevation: 620.2 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.75

Prop Model: None

