Consulting Engineers
CTJC
CARL T. JONES CORPORATION

STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
A MINOR MODIFICATION OF A
CONSTRUCTION PERMIT
FILE # 0000035793
KMTR - EUGENE, OREGON
DTV - CH. 17 - 300 kW - 428.7 m HAAT

Prepared for: KMTR TELEVISION, 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 KMTR TELEVISION, LLC, licensee of KMTR, channel 17, facility ID number 35189, licensed to Eugene, Oregon, 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 0000035793, to substitute a different antenna, a Dielectric model TFU-24JSC/VP-R C170 for the authorized Dielectric TFU-24GTH, change the Effective Radiated Power (ERP) from the authorized 1000 kW to 300 kW and change the Height Above Average Terrain (HAAT)from the authorized 450 meters to 428.7 meters. No other changes are herein proposed.

DIRECTIONAL ANTENNA

The applicant proposes to install a Dielectric model TFU-24JSC/VP-R C170 elliptically polarized directional transmitting antenna with its center of radiation located at a height of 229 meters above ground, and 428.7 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 (39.04 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Eugene, Oregon.

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 KMTR'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 no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations.

International DTV Considerations

The KMTR site is located 470.4 kilometers from the nearest point on the US-Canadian border and is 1,360.1 kilometers from the nearest point on the US-Mexican border. The study includes Canadian facilities within the coordination distance, however, none is predicted to be affected by the KMTR proposal. (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 KMTR 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

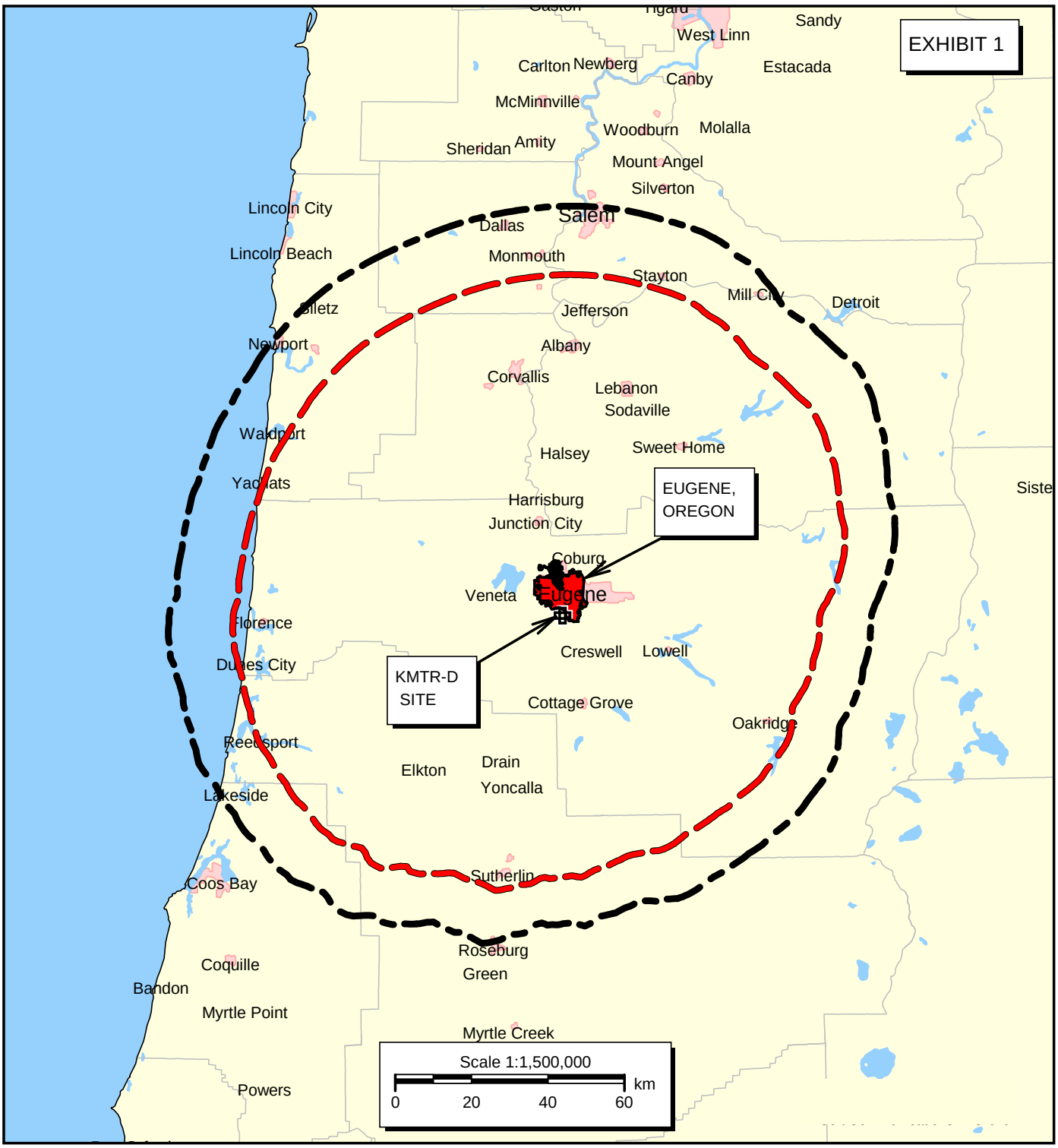
The licensee of KMTR is committed to the protection of station personnel and/or tower contractors working in the vicinity of the KMTR antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

As shown in Appendix A the KMTR channel 17 facility as proposed herein will operate with a maximum ERP of 300 kW from an elliptically polarized directional transmitting antenna with a centerline height of 229 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 10 degrees. The proposed KMTR channel 17 facility is predicted to produce a worst-case power density at two meters above ground level, at 60.6 meters from the tower base, of 2.56 $\mu W/cm^2$, which is 0.78% of the FCC guideline value of 327.33 $\mu W/cm^2$ for an “uncontrolled” environment, and 0.156% 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.

SUMMARY

The instant application for modification of KMTR's construction permit, file number 0000035793, seeks to substitute a different antenna, a Dielectric model TFU-24JSC/VP-R C170 for the authorized Dielectric TFU-24GTH, change the Effective Radiated Power (ERP) from the authorized 1000 kW to 300 kW and change the Height Above Average Terrain (HAAT)from the authorized 450 meters to 428.7 meters. It is therefore submitted that the instant application for a minor modification of KMTR'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: December 30, 2021



PREDICTED COVERAGE CONTOURS

KMTR-D App - EUGENE, OREGON
DTV Channel 17 - 300 kW ERP - 428 M HAAT
DECEMBER, 2021

Predicted Noise Limited 39.04 dBu
F(50,90) Coverage Contour

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

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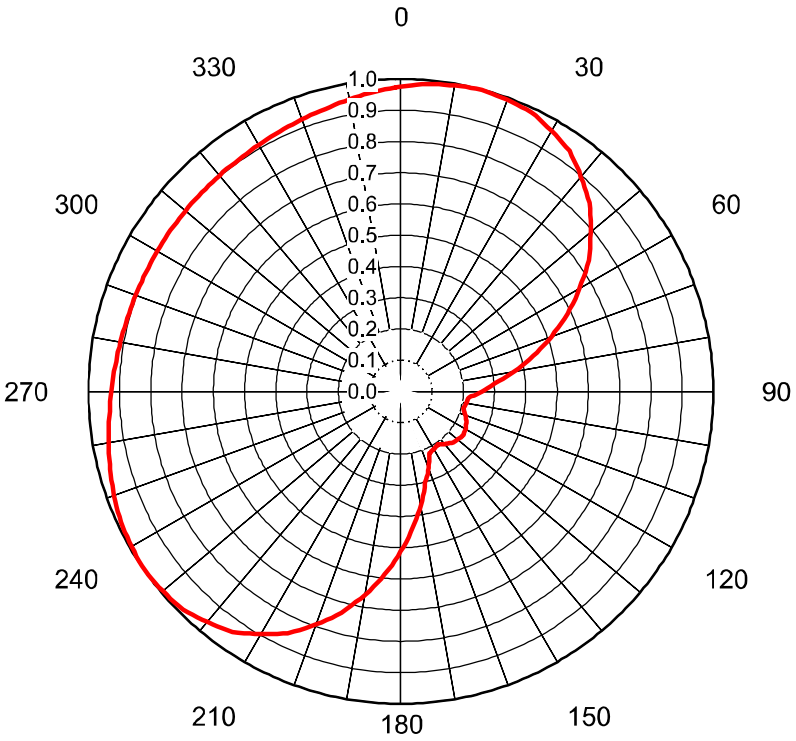
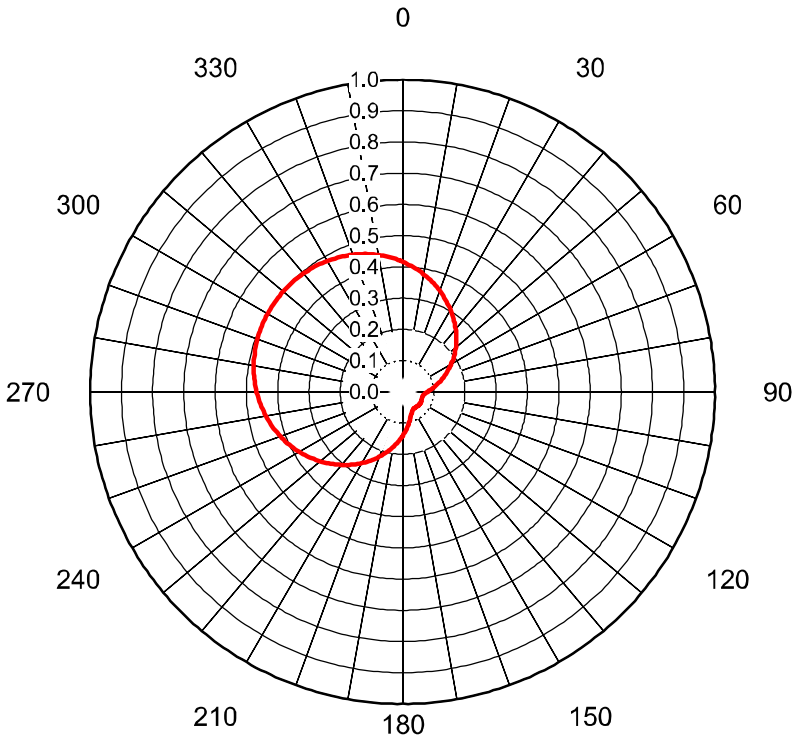


AZIMUTH PATTERN
Horizontal Polarization

In Free Space

Proposal No.	**C-71275-3**
Date	**30-Apr-19**
Call Letters	**KMTR**
Channel	**17**
Frequency	**491 MHz**
Antenna Type	**TFU-24JSC/VP-R C170**
Gain	**1.7 (2.31dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.975	36	0.931	72	0.482	108	0.214	144	0.209	180	0.512	216	0.945	252	0.970	288	0.904	324	0.905
1	0.978	37	0.923	73	0.467	109	0.217	145	0.207	181	0.528	217	0.949	253	0.968	289	0.903	325	0.905
2	0.980	38	0.914	74	0.452	110	0.220	146	0.208	182	0.543	218	0.954	254	0.965	290	0.902	326	0.906
3	0.983	39	0.906	75	0.437	111	0.222	147	0.209	183	0.558	219	0.959	255	0.963	291	0.902	327	0.907
4	0.985	40	0.897	76	0.424	112	0.225	148	0.210	184	0.573	220	0.964	256	0.960	292	0.901	328	0.909
5	0.988	41	0.888	77	0.410	113	0.227	149	0.211	185	0.588	221	0.968	257	0.958	293	0.901	329	0.910
6	0.989	42	0.880	78	0.396	114	0.229	150	0.213	186	0.603	222	0.973	258	0.955	294	0.900	330	0.911
7	0.990	43	0.871	79	0.383	115	0.232	151	0.214	187	0.617	223	0.978	259	0.952	295	0.900	331	0.912
8	0.992	44	0.863	80	0.370	116	0.233	152	0.215	188	0.632	224	0.982	260	0.950	296	0.900	332	0.913
9	0.993	45	0.854	81	0.356	117	0.235	153	0.216	189	0.646	225	0.987	261	0.947	297	0.900	333	0.915
10	0.994	46	0.842	82	0.343	118	0.236	154	0.217	190	0.660	226	0.988	262	0.944	298	0.900	334	0.916
11	0.995	47	0.830	83	0.329	119	0.237	155	0.218	191	0.675	227	0.990	263	0.941	299	0.900	335	0.917
12	0.996	48	0.818	84	0.315	120	0.238	156	0.226	192	0.689	228	0.991	264	0.939	300	0.900	336	0.919
13	0.998	49	0.806	85	0.302	121	0.240	157	0.235	193	0.704	229	0.992	265	0.936	301	0.899	337	0.921
14	0.999	50	0.794	86	0.294	122	0.241	158	0.243	194	0.719	230	0.993	266	0.934	302	0.899	338	0.923
15	1.000	51	0.781	87	0.285	123	0.242	159	0.252	195	0.733	231	0.995	267	0.932	303	0.899	339	0.925
16	0.999	52	0.769	88	0.277	124	0.244	160	0.260	196	0.745	232	0.996	268	0.930	304	0.899	340	0.927
17	0.997	53	0.757	89	0.268	125	0.245	161	0.268	197	0.757	233	0.997	269	0.928	305	0.899	341	0.928
18	0.996	54	0.745	90	0.260	126	0.244	162	0.277	198	0.769	234	0.999	270	0.927	306	0.899	342	0.930
19	0.995	55	0.733	91	0.252	127	0.242	163	0.285	199	0.781	235	1.000	271	0.925	307	0.899	343	0.932
20	0.993	56	0.719	92	0.243	128	0.241	164	0.294	200	0.794	236	0.999	272	0.923	308	0.899	344	0.934
21	0.992	57	0.704	93	0.235	129	0.240	165	0.302	201	0.806	237	0.998	273	0.921	309	0.899	345	0.936
22	0.991	58	0.689	94	0.226	130	0.238	166	0.315	202	0.818	238	0.996	274	0.919	310	0.900	346	0.939
23	0.990	59	0.675	95	0.218	131	0.237	167	0.329	203	0.830	239	0.995	275	0.917	311	0.900	347	0.941
24	0.988	60	0.660	96	0.217	132	0.236	168	0.343	204	0.842	240	0.994	276	0.916	312	0.900	348	0.944
25	0.987	61	0.646	97	0.216	133	0.235	169	0.356	205	0.854	241	0.993	277	0.915	313	0.900	349	0.947
26	0.982	62	0.632	98	0.215	134	0.233	170	0.370	206	0.863	242	0.992	278	0.913	314	0.900	350	0.950
27	0.978	63	0.617	99	0.214	135	0.232	171	0.383	207	0.871	243	0.990	279	0.912	315	0.900	351	0.952
28	0.973	64	0.603	100	0.213	136	0.229	172	0.396	208	0.880	244	0.989	280	0.911	316	0.900	352	0.955
29	0.968	65	0.588	101	0.211	137	0.227	173	0.410	209	0.888	245	0.988	281	0.910	317	0.901	353	0.958
30	0.964	66	0.573	102	0.210	138	0.225	174	0.424	210	0.897	246	0.985	282	0.909	318	0.901	354	0.960
31	0.959	67	0.558	103	0.209	139	0.222	175	0.437	211	0.906	247	0.983	283	0.907	319	0.902	355	0.963
32	0.954	68	0.543	104	0.208	140	0.220	176	0.452	212	0.914	248	0.980	284	0.906	320	0.902	356	0.965
33	0.949	69	0.528	105	0.207	141	0.217	177	0.467	213	0.923	249	0.978	285	0.905	321	0.903	357	0.968
34	0.945	70	0.512	106	0.209	142	0.214	178	0.482	214	0.931	250	0.975	286	0.905	322	0.904	358	0.970
35	0.940	71	0.497	107	0.212	143	0.212	179	0.497	215	0.940	251	0.973	287	0.904	323	0.904	359	0.973



AZIMUTH PATTERN
Vertical Polarization

In Free Space

Proposal No.	**C-71275-3**
Date	**30-Apr-19**
Call Letters	**KMTR**
Channel	**17**
Frequency	**491 MHz**
Antenna Type	**TFU-24JSC/VP-R C170**
Gain	**2.39 (3.79dB)**
	Calculated

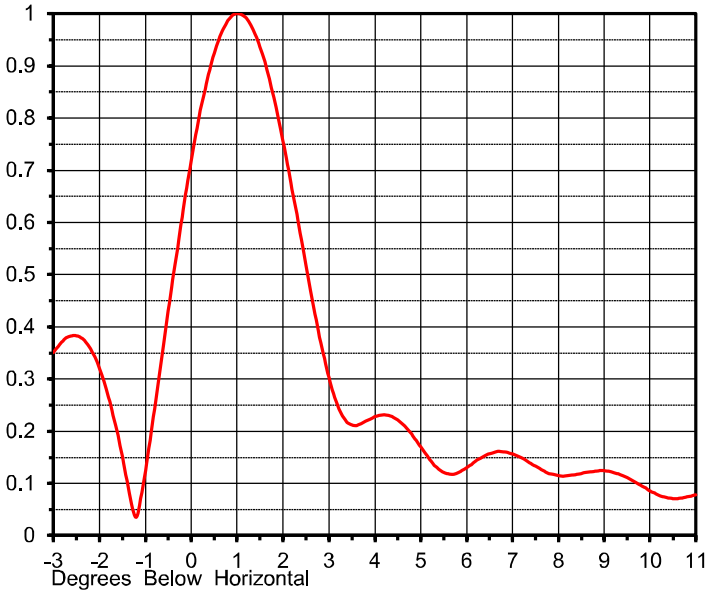
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.417	36	0.281	72	0.134	108	0.065	144	0.065	180	0.142	216	0.289	252	0.423	288	0.493	324	0.491
1	0.414	37	0.277	73	0.131	109	0.065	145	0.065	181	0.146	217	0.293	253	0.426	289	0.493	325	0.490
2	0.410	38	0.272	74	0.127	110	0.065	146	0.065	182	0.149	218	0.297	254	0.429	290	0.494	326	0.489
3	0.407	39	0.268	75	0.123	111	0.065	147	0.065	183	0.153	219	0.301	255	0.432	291	0.495	327	0.487
4	0.404	40	0.264	76	0.120	112	0.065	148	0.065	184	0.157	220	0.306	256	0.434	292	0.496	328	0.486
5	0.401	41	0.260	77	0.116	113	0.066	149	0.066	185	0.161	221	0.310	257	0.437	293	0.496	329	0.485
6	0.397	42	0.256	78	0.113	114	0.066	150	0.066	186	0.165	222	0.314	258	0.440	294	0.497	330	0.484
7	0.394	43	0.252	79	0.110	115	0.066	151	0.067	187	0.169	223	0.318	259	0.442	295	0.497	331	0.482
8	0.390	44	0.247	80	0.107	116	0.066	152	0.068	188	0.173	224	0.322	260	0.445	296	0.498	332	0.481
9	0.387	45	0.243	81	0.103	117	0.067	153	0.069	189	0.177	225	0.326	261	0.447	297	0.498	333	0.479
10	0.383	46	0.239	82	0.100	118	0.067	154	0.070	190	0.181	226	0.330	262	0.450	298	0.499	334	0.478
11	0.380	47	0.235	83	0.097	119	0.067	155	0.071	191	0.185	227	0.334	263	0.452	299	0.499	335	0.476
12	0.376	48	0.231	84	0.095	120	0.067	156	0.073	192	0.189	228	0.338	264	0.455	300	0.499	336	0.475
13	0.372	49	0.227	85	0.092	121	0.067	157	0.074	193	0.193	229	0.342	265	0.457	301	0.500	337	0.473
14	0.369	50	0.222	86	0.089	122	0.068	158	0.076	194	0.197	230	0.346	266	0.459	302	0.500	338	0.471
15	0.365	51	0.218	87	0.087	123	0.068	159	0.078	195	0.202	231	0.350	267	0.461	303	0.500	339	0.469
16	0.361	52	0.214	88	0.084	124	0.068	160	0.080	196	0.206	232	0.354	268	0.463	304	0.500	340	0.467
17	0.357	53	0.210	89	0.082	125	0.068	161	0.082	197	0.210	233	0.357	269	0.465	305	0.500	341	0.465
18	0.354	54	0.206	90	0.080	126	0.068	162	0.084	198	0.214	234	0.361	270	0.467	306	0.500	342	0.463
19	0.350	55	0.202	91	0.078	127	0.068	163	0.087	199	0.218	235	0.365	271	0.469	307	0.500	343	0.461
20	0.346	56	0.197	92	0.076	128	0.068	164	0.089	200	0.222	236	0.369	272	0.471	308	0.500	344	0.459
21	0.342	57	0.193	93	0.074	129	0.067	165	0.092	201	0.227	237	0.372	273	0.473	309	0.500	345	0.457
22	0.338	58	0.189	94	0.073	130	0.067	166	0.095	202	0.231	238	0.376	274	0.475	310	0.499	346	0.455
23	0.334	59	0.185	95	0.071	131	0.067	167	0.097	203	0.235	239	0.380	275	0.476	311	0.499	347	0.452
24	0.330	60	0.181	96	0.070	132	0.067	168	0.100	204	0.239	240	0.383	276	0.478	312	0.499	348	0.450
25	0.326	61	0.177	97	0.069	133	0.067	169	0.103	205	0.243	241	0.387	277	0.479	313	0.498	349	0.447
26	0.322	62	0.173	98	0.068	134	0.066	170	0.107	206	0.247	242	0.390	278	0.481	314	0.498	350	0.445
27	0.318	63	0.169	99	0.067	135	0.066	171	0.110	207	0.252	243	0.394	279	0.482	315	0.497	351	0.442
28	0.314	64	0.165	100	0.066	136	0.066	172	0.113	208	0.256	244	0.397	280	0.484	316	0.497	352	0.440
29	0.310	65	0.161	101	0.066	137	0.066	173	0.116	209	0.260	245	0.401	281	0.485	317	0.496	353	0.437
30	0.306	66	0.157	102	0.065	138	0.065	174	0.120	210	0.264	246	0.404	282	0.486	318	0.496	354	0.434
31	0.301	67	0.153	103	0.065	139	0.065	175	0.123	211	0.268	247	0.407	283	0.487	319	0.495	355	0.432
32	0.297	68	0.149	104	0.065	140	0.065	176	0.127	212	0.272	248	0.410	284	0.489	320	0.494	356	0.429
33	0.293	69	0.146	105	0.065	141	0.065	177	0.131	213	0.277	249	0.414	285	0.490	321	0.493	357	0.426
34	0.289	70	0.142	106	0.065	142	0.065	178	0.134	214	0.281	250	0.417	286	0.491	322	0.493	358	0.423
35	0.285	71	0.138	107	0.065	143	0.065	179	0.138	215	0.285	251	0.420	287	0.492	323	0.492	359	0.420

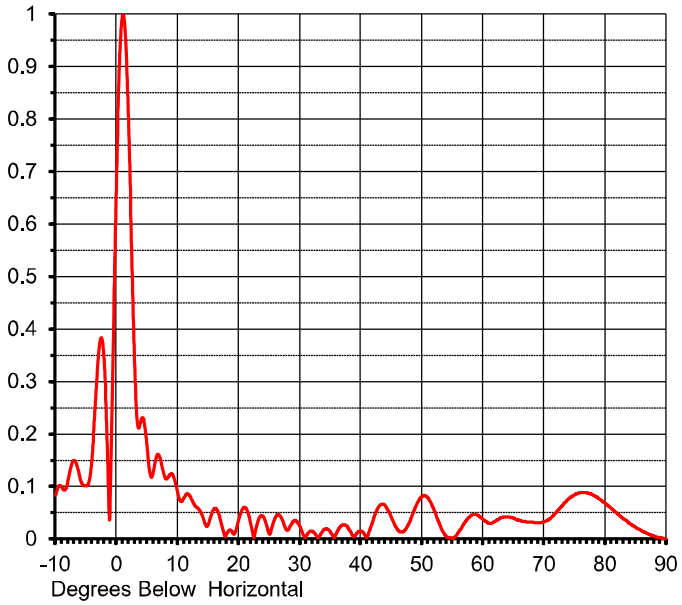
Dielectric®

ELEVATION PATTERN

Proposal No.	**C-71275-3**
Date	**30-Apr-19**
Call Letters	**KMTR**
Channel	**17**
Frequency	**491 MHz**
Antenna Type	**TFU-24JSC/VP-R C170**

RMS Directivity at Main Lobe	**22.4 (13.50 dB)**	Beam Tilt	**1.00 deg**
RMS Directivity at Horizontal	**11.5 (10.61 dB)**	Pattern Number	**24J224100**
	Calculated		





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.083	10.0	0.085	30.0	0.023	50.0	0.081	70.0	0.032
-9.0	0.098	11.0	0.078	31.0	0.005	51.0	0.077	71.0	0.039
-8.0	0.111	12.0	0.081	32.0	0.015	52.0	0.054	72.0	0.051
-7.0	0.149	13.0	0.061	33.0	0.002	53.0	0.024	73.0	0.064
-6.0	0.115	14.0	0.044	34.0	0.018	54.0	0.004	74.0	0.076
-5.0	0.101	15.0	0.028	35.0	0.013	55.0	0.000	75.0	0.084
-4.0	0.167	16.0	0.058	36.0	0.011	56.0	0.013	76.0	0.088
-3.0	0.351	17.0	0.035	37.0	0.027	57.0	0.031	77.0	0.088
-2.0	0.320	18.0	0.010	38.0	0.019	58.0	0.044	78.0	0.083
-1.0	0.124	19.0	0.011	39.0	0.006	59.0	0.045	79.0	0.076
0.0	0.718	20.0	0.038	40.0	0.015	60.0	0.037	80.0	0.068
1.0	1.000	21.0	0.060	41.0	0.004	61.0	0.030	81.0	0.058
2.0	0.756	22.0	0.025	42.0	0.037	62.0	0.034	82.0	0.048
3.0	0.303	23.0	0.029	43.0	0.063	63.0	0.040	83.0	0.038
4.0	0.228	24.0	0.042	44.0	0.063	64.0	0.042	84.0	0.030
5.0	0.170	25.0	0.009	45.0	0.040	65.0	0.039	85.0	0.022
6.0	0.130	26.0	0.041	46.0	0.017	66.0	0.035	86.0	0.015
7.0	0.156	27.0	0.039	47.0	0.014	67.0	0.032	87.0	0.010
8.0	0.115	28.0	0.016	48.0	0.033	68.0	0.032	88.0	0.005
9.0	0.124	29.0	0.034	49.0	0.062	69.0	0.031	89.0	0.002
								90.0	0.000

KMTR - Main Facility
Channel 17 - Eugene, Oregon
ERP = 300000.00 WATTS

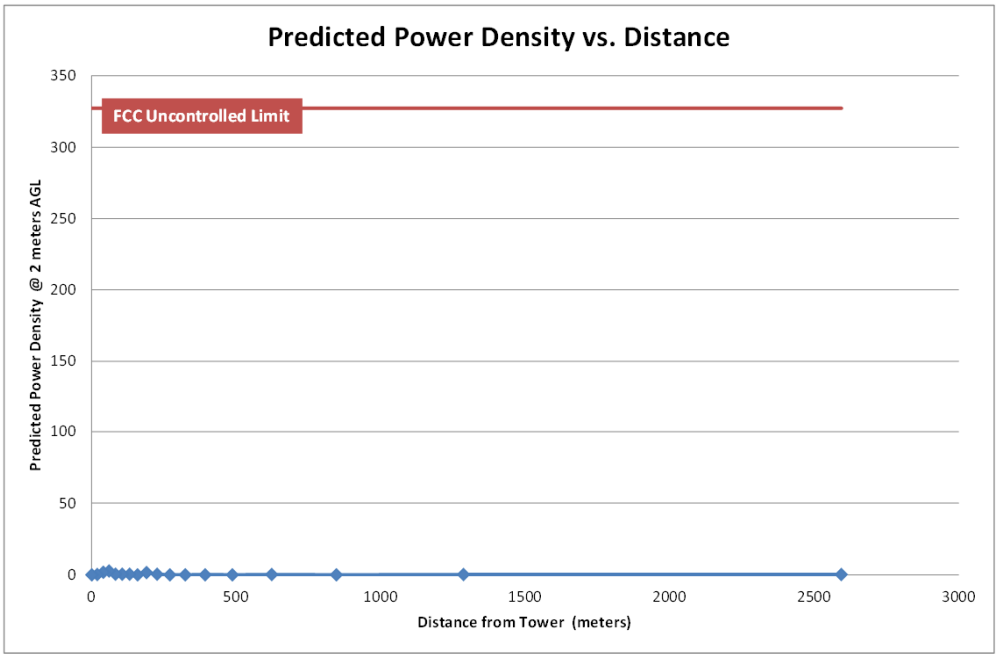
APPENDIX A

Maximum ERP 300 kW

Polarization ----------	2	Circular		
Antenna Height Above Ground --	229	meters	751.3	feet
FCC Uncontrolled RFR Limit ----	327.33	µW/cm²		

Maximum Computed Power Density *2.560* µW/cm²
0.78% 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)	KMTR - Main Facili ERP (kW)	KMTR - Main Facility Calculated Power Density µW/cm²	Percent Limit	Limit Exceeded?
0			1.000	300.0000			
5	2594.6	2604.5	0.170	8.6700	0.085	0.03%	No
10	1287.4	1307.2	0.085	2.1675	0.085	0.03%	No
15	847.2	877.1	0.028	0.2352	0.020	0.01%	No
20	623.7	663.7	0.038	0.4332	0.066	0.02%	No
25	486.8	537.1	0.009	0.0243	0.006	0.00%	No
30	393.2	454.0	0.023	0.1587	0.051	0.02%	No
35	324.2	395.8	0.013	0.0507	0.022	0.01%	No
40	270.5	353.1	0.015	0.0675	0.036	0.01%	No
45	227.0	321.0	0.040	0.4800	0.311	0.10%	No
50	190.5	296.3	0.081	1.9683	1.497	0.46%	No
55	158.9	277.1	0.000	0.0000	0.000	0.00%	No
60	131.1	262.1	0.037	0.4107	0.399	0.12%	No
65	105.9	250.5	0.039	0.4563	0.486	0.15%	No
70	82.6	241.6	0.032	0.3072	0.352	0.11%	No
75	60.8	235.0	0.084	2.1168	2.560	0.78%	No
80	40.0	230.5	0.068	1.3872	1.744	0.53%	No
85	19.9	227.9	0.022	0.1452	0.187	0.06%	No
90	0.0	227.0	0.000	0.0000	0.000	0.00%	No



Consulting Engineers
CTJC
CARL T. JONES CORPORATION

KMTR - EUGENE, OREGON
DECEMBER 2021
APPENDIX B
Longley-Rice Interference Analysis

```
tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: KMTR 17 AP 300 kW C170,  Model: Longley-Rice
Start: 2021.12.29 16:14:10

Study created: 2021.12.29 16:14:10

Study build station data: LMS TV 2021-12-29

    Proposal: KMTR D17 DT APP EUGENE, OR
 File number: KMTR 17 AP 300 kW C170
 Facility ID: 35189
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   KTVL      D16        DT  APP     MEDFORD, OR              BLANK0000127637        215.9 km
No   KORS-CD   D16        DC  LIC     PORTLAND, OR             BLANK0000108949        171.5
No   DKJRW     D17        DT  BL      EUREKA, CA               DTVBL42640             365.9
No   KCVU      D17        DT  BL      PARADISE, CA             DTVBL58605             463.6
Yes  KABH-CD   D17        DC  LIC     BEND, OR                 BLDTA20131029ABN       142.9
No   KCTS-TV   D17        DT  APP     SEATTLE, WA              BLANK0000130792        406.5
No   KOHD      D18        DT  LIC     BEND, OR                 BLANK0000002204        142.6
Yes  KTVC      D18        DT  CP      ROSEBURG, OR             BLANK0000036020         91.4
Yes  KTVC      D18        DT  LIC     ROSEBURG, OR             BLCDT20060721AAR        86.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D17
   Latitude:  44  0  6.00 N (NAD83)
  Longitude: 123  6 57.00 W
Height AMSL: 623.7 m
       HAAT: 428.0 m
   Peak ERP: 300 kW
    Antenna: DIE TFU C170 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.00

39.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg    285 kW   502.8 m  107.0 km
 45.0        214      447.3     99.6
 90.0       20.3      415.5     80.6
```

```
135.0       15.7      423.6     79.3
180.0       78.6      306.3     80.3
225.0        287      395.0     98.4
270.0        258      466.4    102.9
315.0        244      491.9    104.6

Database HAAT does not agree with computed HAAT
Database HAAT: 428 m   Computed HAAT: 431 m

Distance to Canadian border: 470.5 km

Distance to Mexican border: 1360.0 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 4.3 degrees   Distance: 552.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 100.0 degrees   Distance: 1531.0 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 BLDTA20131029ABN LIC scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     KABH-CD   D17   DC  LIC     BEND, OR                 BLDTA20131029ABN

Undesireds:  KMTR      D17   DT  BL      EUGENE, OR               DTVBL35189              133.4 km
             KMTR      D17   DT  APP     EUGENE, OR               KMTR 17 AP 300 kW C170  142.9
             K17ED-D   D17   DC  LIC     PAYETTE, ID              BLDTA20141002AAE        353.2
             KOHD      D18   DT  LIC     BEND, OR                 BLANK0000002204           0.4

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  7836.8     180,101    6600.6     169,979    6532.5     169,638    6528.5     169,638     0.06     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
KMTR D17 DT BL                        8.0           0       8.0           0
KMTR D17 DT APP                      12.0           0                    12.0           0
KOHD D18 DT LIC                      60.0         341      60.0         341      60.0         341

-------------------------------------------------------------------------------------------------------
Interference to BLANK0000036020 CP scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     KTVC      D18   DT  CP      ROSEBURG, OR             BLANK0000036020

Undesireds:  KMTR      D17   DT  BL      EUGENE, OR               DTVBL35189              106.1 km
             KMTR      D17   DT  APP     EUGENE, OR               KMTR 17 AP 300 kW C170   91.4
             K19GH-D   D19   DC  LIC     EUGENE, ETC., OR         BLDTA20091211AEO        106.1
             KPIC      D19   DT  LIC     ROSEBURG, OR             BLCDT20120423ABP          6.1

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
 11340.5     106,275    8732.9      92,322    8506.2      91,699    8454.4      91,640     0.61     0.06

Undesired                          Total IX     Unique IX, before      Unique IX, after
KMTR D17 DT BL                       48.0          43      12.1           0
KMTR D17 DT APP                      75.8          84                     63.8          59
K19GH-D D19 DC LIC                   35.9          43       0.0           0      23.9          18
KPIC D19 DT LIC                     178.8         580     178.8         580     178.8         580
```

Appendix B - Interference Analysis
KMTR - Eugene, Oregon
Channel 17 -300 kW - Page 3

Interference to BLCDT20060721AAR LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	
Undesireds:	KMTR	D17	DT	BL	EUGENE, OR	DTVBL35189	101.2 km
	KMTR	D17	DT	APP	EUGENE, OR	KMTR 17 AP 300 kW C170	86.7
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	101.2
	KPIC	D19	DT	LIC	ROSEBURG, OR	BLCDT20120423ABP	0.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13290.5	137,239	9824.2	100,204	9732.4	100,070	9676.5	100,045	0.57	0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
KMTR D17 DT BL	60.0	124	20.1	53	
KMTR D17 DT APP	115.8	152		75.9	78
K19GH-D D19 DC LIC	59.9	81	19.9	10	20.0	7
KPIC D19 DT LIC	11.9	0	11.9	0	11.9	0

Interference to proposal scenario 1
9.46% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMTR	D17	DT	APP	EUGENE, OR	KMTR 17 AP 300 kW C170	
Undesireds:	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLANK0000108949	171.5 km
	KTVC	D18	DT	CP	ROSEBURG, OR	BLANK0000036020	91.4

Service area		Terrain-limited		IX-free		Percent IX	
28282.5	858,155	21941.2	715,362	21792.8	647,694	0.68	9.46

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KORS-CD D16 DC LIC	96.8	66,372	96.8	66,372	0.44	9.28
KTVC D18 DT CP	51.6	1,296	51.6	1,296	0.24	0.18

Interference to proposal scenario 2
9.35% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMTR	D17	DT	APP	EUGENE, OR	KMTR 17 AP 300 kW C170	
Undesireds:	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLANK0000108949	171.5 km
	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	86.7

Service area		Terrain-limited		IX-free		Percent IX	
28282.5	858,155	21941.2	715,362	21781.0	648,447	0.73	9.35

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KORS-CD D16 DC LIC	96.8	66,372	96.8	66,372	0.44	9.28
KTVC D18 DT LIC	63.5	543	63.5	543	0.29	0.08

Applicant accepts the predicted received interference in the two scenarios above.
KORS-CD's licensed facility employs a STRINGENT mask filter.