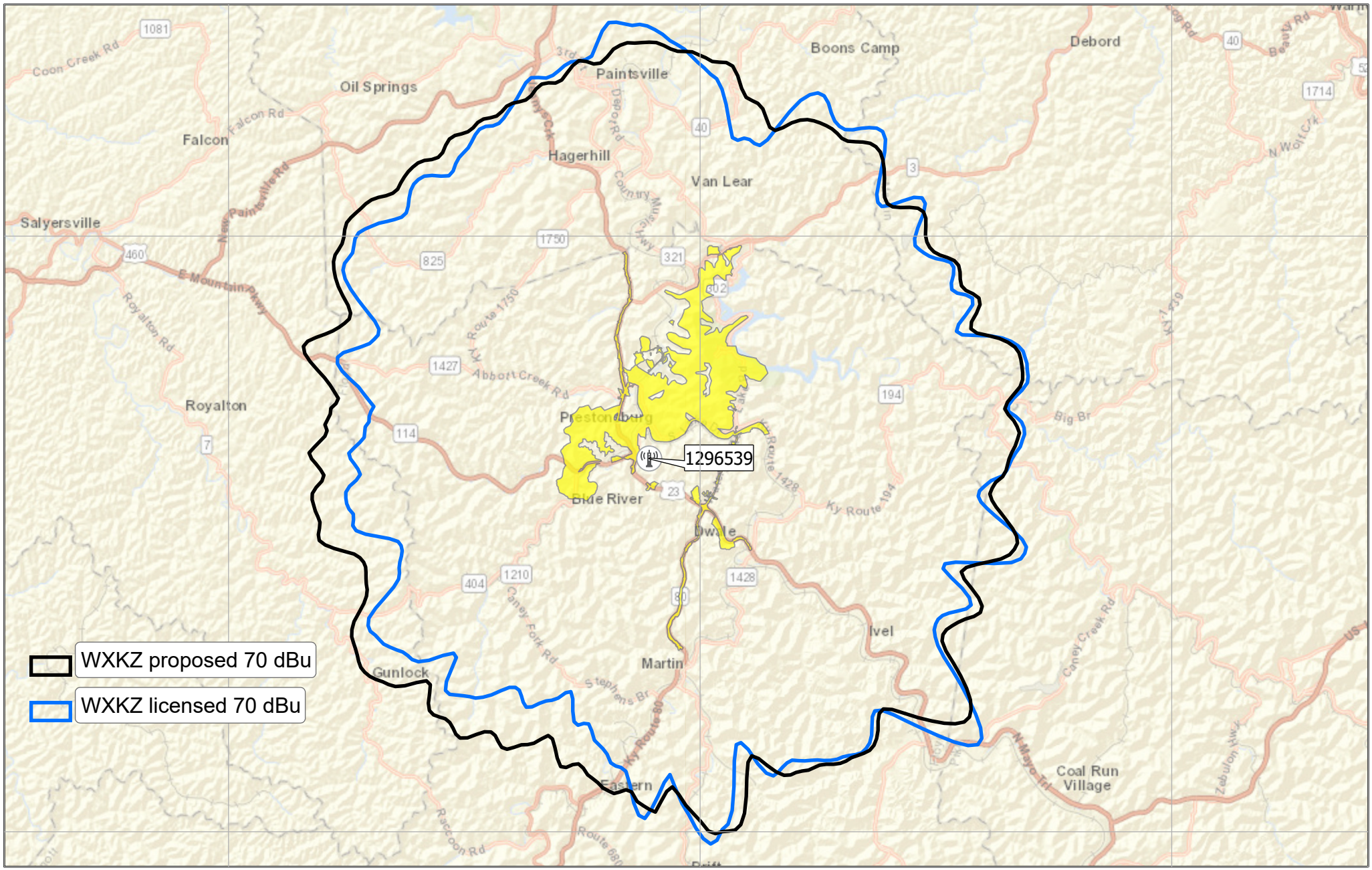
WXKZ Minor Change to Licensed Facility

Table 1
Channel Study with respect to 73.207 minimum spacing

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO	FCC Dist.(km)	Rule 73.207 Req. (km)	Clearance (km)	
234	C3	WKLW-FM	FM	L-L2C	PAINTSVILLE	KY	US	S.I.P. BROADCASTING COMPANY, INC.	352.3	15.5	12	3.5	
284	A	WJMD	FM	L-L2C	HAZARD	KY	US	HAZARD BROADCASTING, INC.	215.0	62.8	31	31.8	
285	**A**	**WXLR**	**FM**	**L-L2C**	**HAROLD**	**KY**	**US**	**ADAM D. GEARHEART**	**118.8**	**28.5**	**73.213(c) Req. (km): 27**	**1.5**	**(See NOTE)**
286	A	WTUK	FM	L-L2C	HARLAN	KY	US	EASTERN BROADCASTING COMPANY	209.1	95.7	72	23.7	
286	A	WTUK	FM	C-MOD	HARLAN	KY	US	EASTERN BROADCASTING COMPANY	209.1	95.7	72	23.7	
286	B	WKLC-FM	FM	L-L2C	ST. ALBANS	WV	US	WKLC, INC.	42.2	113.3	113	0.3	
287	**A**	**WXKZ-FM**	**FM**	**L-L2C**	**PRESTONSBURG**	**KY**	**US**	**ADAM D. GEARHEART**	**90.2**	**1.0**	**115**	**-114.0**	(same facility)
288	A	WSWV-FM	FM	L-L2C	PENNINGTON GAP	VA	US	B C BROADCASTING COMPANY, INC.	193.0	105.1	72	33.1	
288	A	WGTH-FM	FM	L-L2C	RICHLANDS	VA	US	HIGH KNOB BROADCASTERS, INC.	121.7	105.1	72	33.1	

NOTE: WXLR is authorized under 73.213(c) as a grandfathered 3kW Class A facility which requires 27 km seperation between WXKZ and WXLR which is achieved plus a 1.5 km margin. It is noted that under 73.207, WXKZ and WXLR would currently be short-spaced by 3.36 km and this proposal would reduce the existing short spacing to 2.5 km as it increases the separation between WXKZ and WXLR.



WXKZ-FM - PRESTONSBURG, KY- Channel 287A (105.3MHz)
ADAM D. GEARHEART

0 4.25 8.5 17 Kilometers

73.315 Community of license coverage (100%) of Prestonsburg, Kentucky

Tower ASR: 1296539 RCAGL: 76.2 meters, Ground elevation: 376.7 meters AMSL
RCAMSL: 452.92 meters HAAT: 162 meters (GLOBE) ERP: 2.35 kW

Robert J. Robbins, Ph.D.
www.radiodataservices.com
radiodataservices@radiodataservices.com
(305) 234-9309

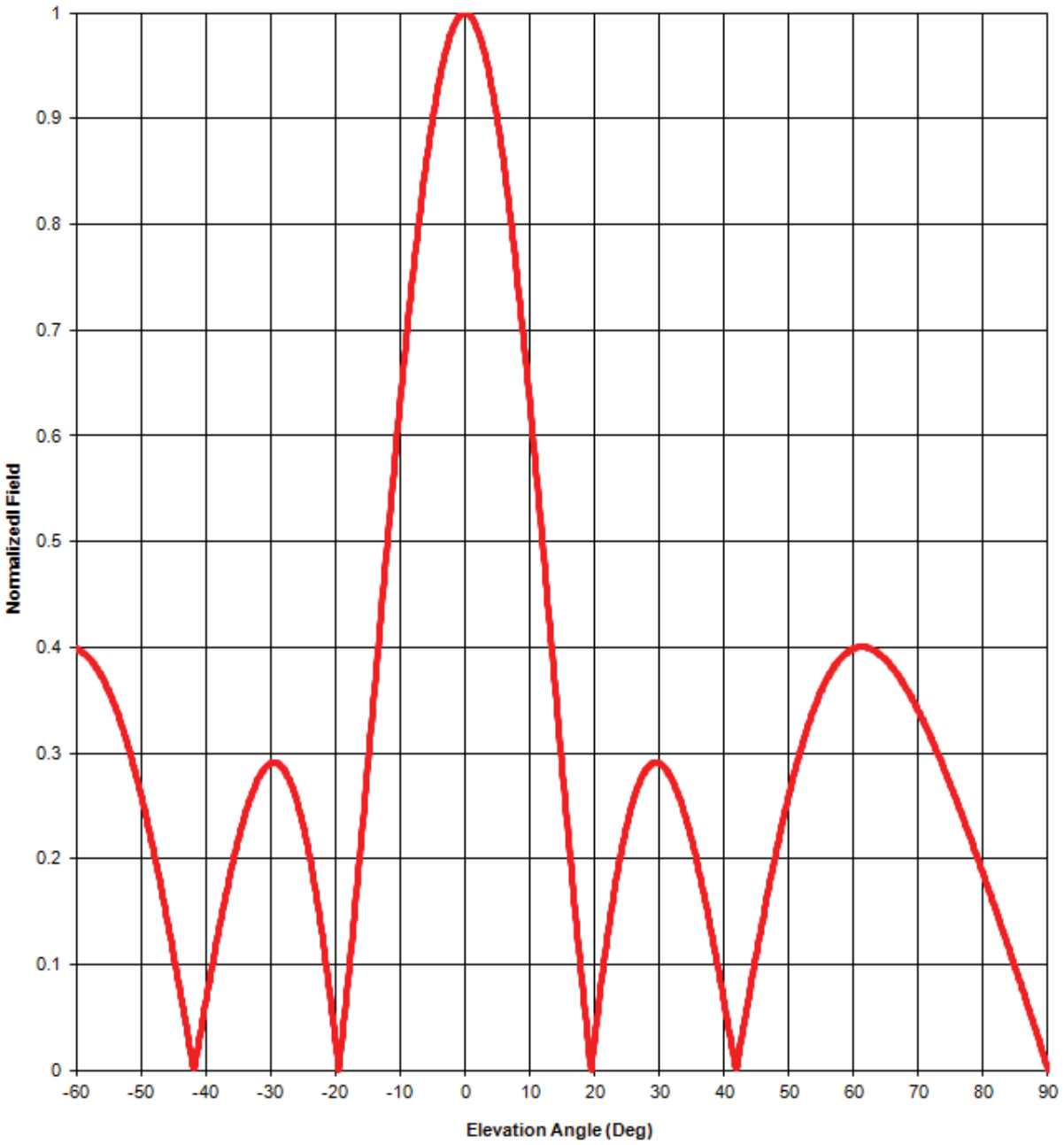
Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu W/cm^2$ at 2 meters AGL: within 10 meters distance	% controlled environment limit (1000 $\mu W/cm^2$)	Max. PD	% uncontrolled environment limit (200 $\mu W/cm^2$)	Distance to maximum PD (m)
WXKZ proposed	76.2	SHI-SLV-3	3	2.350	2.350	0.62	0.06%	3.54	1.77%	49.2
						0.62	**0.06%**	3.54	**1.77%**	49.2

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using antenna data from manufacturer per OET Bulletin 65

Elevation pattern



Antenna models: 6014, 6015, 6020, 6510, 6513, 6600, 68xx except 6832, & Versa2une, 3-bay full-wave-spaced

Test frequency: 98.1 MHz

Gain (maximum):

	Power	dB
6014, 6015, 68xx:	1.56	1.92 dB
6510, 6513, 6600:	3.12	4.92 dB

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Degrees	Rel. Field	Degrees	Rel. Field	Degrees	Rel. Field	Degrees	Rel. Field	Degrees	Rel. Field
1	0.996	19	0.028	37	0.163	55	0.359	73	0.299
2	0.983	20	0.029	38	0.132	56	0.372	74	0.284
3	0.963	21	0.080	39	0.099	57	0.382	75	0.269
4	0.935	22	0.127	40	0.065	58	0.390	76	0.253
5	0.899	23	0.168	41	0.030	59	0.395	77	0.237
6	0.857	24	0.203	42	0.006	60	0.399	78	0.220
7	0.808	25	0.233	43	0.041	61	0.400	79	0.203
8	0.754	26	0.256	44	0.076	62	0.400	80	0.186
9	0.695	27		45	0.111	63	0.398	81	0.168
10	0.632	28	0.285	46	0.144	64	0.393	82	0.150
11	0.566	29	0.290	47	0.176	65	0.388	83	0.132
12	0.497	30	0.290	48	0.206	66	0.381	84	0.114
13	0.428	31	0.285	49	0.234	67	0.372	85	0.096
14	0.357	32	0.275	50	0.261	68	0.363	86	0.078
15	0.287	33	0.260	51	0.285	69	0.352	87	0.059
16	0.219	34	0.241	52	0.307	70	0.340	88	0.040
17	0.152	35	0.218	53	0.327	71	0.327	89	0.021
18	0.088	36	0.192	54	0.344	72	0.314	90	0.000

Elevation Pattern Tabulation

Antenna models: 6014, 6015, 6020, 6510, 6513, 6600, 68xx except 6832, & Versa2une, 3-bay full-wave-spaced.

Relative Field at 0° Depression = 1.000