EXHIBIT VI

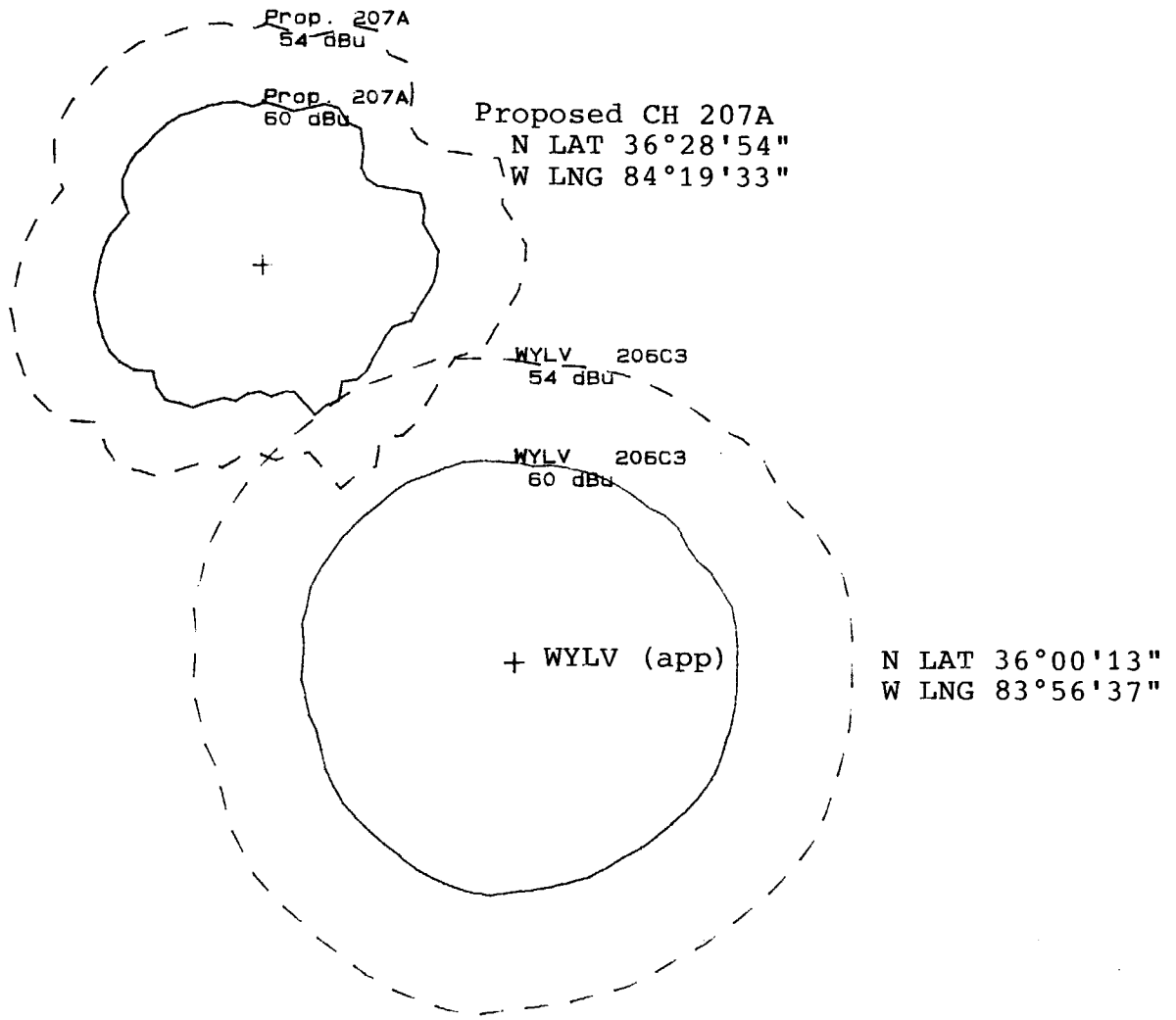
****** FM CHANNEL INTERFERENCE STUDY ******

Job title: Pioneer, TN
Channel: 207A
Transmit antenna elev: 749.8 meters

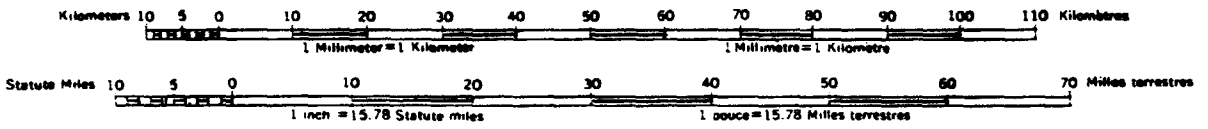
Latitude: 36 28 54
Longitude: 84 19 33
Proposed maximum ERP: .3000 kW

CH	Call	Record	City	ST	Status	Bear.	Dist.	Reqd. Dist.	Result
207C1	WLFJ	6367	Greenville	SC	LIC	134.2	243.4	172.5	
Prop F(50,10) 40 dBu 60.9 km + WLFJ F(50,50) 60 dBu 64.9 km = 125.8									
Prop F(50,50) 60 dBu 19.7 km + WLFJ F(50,10) 40 dBu 152.8 km = 172.5									
208C	WETS	6448	Johnson City	TN	LIC	90.9	196.4	162.8	
Prop F(50,10) 54 dBu 34.8 km + WETS F(50,50) 60 dBu 95.2 km = 129.9									
Prop F(50,50) 60 dBu 23.2 km + WETS F(50,10) 54 dBu 139.6 km = 162.8									
206A	WYLV	7025	Alcoa	TN	LIC	155.3	83.7	49.1	
Prop F(50,10) 54 dBu 30.9 km + WYLV F(50,50) 60 dBu 18.2 km = 49.1									
Prop F(50,50) 60 dBu 20.8 km + WYLV F(50,10) 54 dBu 26.6 km = 47.4									
206C3	WYLV	7031	Alcoa	TN	APP	147.1	63.2	62.2	1.0
Prop F(50,10) 54 dBu 29.2 km + WYLV F(50,50) 60 dBu 28.1 km = 57.3									
Prop F(50,50) 60 dBu 19.7 km + WYLV F(50,10) 54 dBu 42.5 km = 62.2									
205C1	WEKUFM	7746	Richmond	KY	LIC	.0	155.1	64.1	
Prop F(50,10) 80 dBu 6.7 km + WEKUFM F(50,50) 60 dBu 57.5 km = 64.1									
Prop F(50,50) 60 dBu 21.8 km + WEKUFM F(50,10) 80 dBu 23.4 km = 45.2									
209C1	WDCLFM	8526	Somerset	KY	LIC	315.5	105.9	64.7	
Prop F(50,10) 80 dBu 6.9 km + WDCLFM F(50,50) 60 dBu 57.8 km = 64.7									
Prop F(50,50) 60 dBu 22.5 km + WDCLFM F(50,10) 80 dBu 23.5 km = 45.9									
207C1	WFPL	8606	Louisville	KY	LIC	327.6	233.2	165.5	
Prop F(50,10) 40 dBu 68.8 km + WFPL F(50,50) 60 dBu 46.3 km = 115.1									
Prop F(50,50) 60 dBu 23.0 km + WFPL F(50,10) 40 dBu 142.5 km = 165.5									
207C1	WLRH	9075	Huntsville	AL	LIC	224.5	285.9	189.3	
Prop F(50,10) 40 dBu 62.7 km + WLRH F(50,50) 60 dBu 69.6 km = 132.4									
Prop F(50,50) 60 dBu 20.5 km + WLRH F(50,10) 40 dBu 168.8 km = 189.3									

****** End of channel 207 study ******



SCALE (ÉCHELLE) 1:1,000,000



PROPOSED 60 dBu CONTOUR

DISTANCES TO CONTOURS (Kilometers):

Frequency: 89.3000 MHz

F(50,50) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 60.0
140.0	217	-5.23	20.2
141.0	210	-5.23	19.9
142.0	201	-5.23	19.5
143.0	195	-5.23	19.2
144.0	193	-5.23	19.1
145.0	196	-5.23	19.2
146.0	201	-5.23	19.5
147.0	209	-5.23	19.9
148.0	219	-5.23	20.3
149.0	229	-5.23	20.8
150.0	238	-5.23	21.2
151.0	246	-5.23	21.5
152.0	249	-5.23	21.7
153.0	246	-5.23	21.5
154.0	239	-5.23	21.2
155.0	234	-5.23	21.0
156.0	241	-5.23	21.3
157.0	256	-5.23	21.9
158.0	267	-5.23	22.4
159.0	265	-5.23	22.3
160.0	249	-5.23	21.7
161.0	228	-5.23	20.7
162.0	206	-5.23	19.7
163.0	188	-5.23	18.9
164.0	176	-5.23	18.2
165.0	167	-5.23	17.7

PROPOSED 54 dBu CONTOUR

DISTANCES TO CONTOURS (Kilometers):

Frequency: 89.3000 MHz

F(50,10) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 54.0
140.0	217	-5.23	30.0
141.0	210	-5.23	29.5
142.0	201	-5.23	28.9
143.0	195	-5.23	28.5
144.0	193	-5.23	28.4
145.0	196	-5.23	28.5
146.0	201	-5.23	28.9
147.0	209	-5.23	29.5
148.0	219	-5.23	30.2
149.0	229	-5.23	30.8
150.0	238	-5.23	31.4
151.0	246	-5.23	31.9
152.0	249	-5.23	32.1
153.0	246	-5.23	31.9
154.0	239	-5.23	31.4
155.0	234	-5.23	31.2
156.0	241	-5.23	31.6
157.0	256	-5.23	32.5
158.0	267	-5.23	33.2
159.0	265	-5.23	33.1
160.0	249	-5.23	32.1
161.0	228	-5.23	30.7
162.0	206	-5.23	29.3
163.0	188	-5.23	28.0
164.0	176	-5.23	27.0
165.0	167	-5.23	26.3

WYLV 60 dBu CONTOUR

DISTANCES TO CONTOURS (Kilometers):

Frequency: 89.1000 MHz

F(50,50) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 60.0
315.0	284	-1.37	28.5
316.0	282	-1.37	28.3
317.0	281	-1.37	28.3
318.0	281	-1.37	28.3
319.0	281	-1.37	28.3
320.0	281	-1.37	28.3
321.0	282	-1.37	28.3
322.0	283	-1.37	28.4
323.0	284	-1.37	28.4
324.0	285	-1.37	28.5
325.0	285	-1.37	28.5
326.0	285	-1.37	28.5
327.0	284	-1.37	28.4
328.0	284	-1.37	28.4
329.0	285	-1.37	28.5
330.0	285	-1.37	28.5
331.0	282	-1.37	28.4
332.0	278	-1.37	28.2
333.0	276	-1.37	28.0
334.0	275	-1.37	28.0
335.0	277	-1.37	28.1

WYLV 54 dBu CONTOUR

DISTANCES TO CONTOURS (Kilometers):

Frequency: 89.1000 MHz

F(50,10) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 54.0
315.0	284	-1.37	42.4
316.0	282	-1.37	42.2
317.0	281	-1.37	42.1
318.0	281	-1.37	42.1
319.0	281	-1.37	42.1
320.0	281	-1.37	42.1
321.0	282	-1.37	42.2
322.0	283	-1.37	42.2
323.0	284	-1.37	42.3
324.0	285	-1.37	42.4
325.0	285	-1.37	42.4
326.0	285	-1.37	42.4
327.0	284	-1.37	42.3
328.0	284	-1.37	42.3
329.0	285	-1.37	42.4
330.0	285	-1.37	42.4
331.0	282	-1.37	42.2
332.0	278	-1.37	41.9
333.0	276	-1.37	41.7
334.0	275	-1.37	41.7
335.0	277	-1.37	41.8

EXHIBIT VII

****** I.F. SPACING STUDY ******

Job title: Pioneer, TN
Channel: 207A

Latitude: 36 28 54
Longitude: 84 19 33

CH	Call	Record	City	ST	Status	Bear.	Dist.	Reqd. Dist.	Result

***** THERE ARE NO I.F. SEPARATED FACILITIES IN THE CLEARANCE AREA *****

****** End of channel 207 study ******

EXHIBIT VIII

CHANNEL 6 INTERFERENCE

Section 73.525 requires any new facility proposing operation on the NCE reserved channels to coordinate their proposal with all affected television channel 6 stations if the new proposal falls within the separation distances in Table A of Section 73.525(a)(1). Accordingly, Cumberland Communities Communications Corporation ("Cumberland") has appraised WATE-TV/6 located 63.2 km southeast from the proposed antenna site, of their intent to apply for FM channel 207.

Cumberland has designed its proposal to comply with Section 73.525(c) using the DATAWORLD FM/TV6 program to calculate the interference contour (see attached interference map & contour calculations) and the 1990 census block population data to count the residents within that contour. Initially Cumberland used 0.4 kw ERP with their antenna center-line located 762 meters AMSL and found that 3264 people reside within the channel 6 interference contour and proposed to provide up to 264 filters to any person(s) requesting one who live inside the projected interference area per Section 73.525(c)(2). This information was forwarded to WATE-TV by letter of October 21, 1991.

WATE-TV, by its consulting engineer, objected to the accuracy of the Cumberland methodology by letter dated November 6, 1991. Cumberland then contacted the

Commission's FM Branch to ascertain an appropriate method for resolving how the interference population should be determined. The FM Branch replied by telephone December 2, 1991 that using the 1990 census block data was an acceptable method. Once again, on December 11, 1991, Cumberland requested that WATE-TV provide a letter that WATE-TV had no objection to the Cumberland proposal, based upon its use of the 1990 census block level population data as set forth above. WATE-TV has not responded to Cumberland's most recent request.

Subsequent to the above calculations and exchange of information, WYLV, Alcoa, TN applied to move their antenna site, raise their antenna center and increase their power. Cumberland found that WYLV's application would conflict with Cumberland's original proposal and has reduced their power/height to 0.3 kw and 749.8 meters to protect WYLV. The reduced power and antenna height decreases the size of the WATE-TV interference area. The population included in the interference area is also reduced to 2492.

Cumberland has shown that its proposal meets the requirements of section 73.525 and, furthermore, has attempted to satisfy WATE-TV and and comply with all requirements of the Commission in the absence of any published rules or policy for determining the interference population.

Cumberland will also provide appropriate remedies on a case-by-case basis should interference to WATE-TV's audio, greater than that allowed by Section 73.525(c), result as a consequence of this proposal. Cumberland will provide public service announcements for one year after program test authority. These announcements will inform the public about the new operation and provide a means and procedure to resolve the channel 6 interference.

All correspondence between Cumberland-WATE and between Cumberland-FM Branch is attached at the end of this exhibit. The references to "Sexton Mountain" are to the antenna site where Cumberland proposes to locate their tower. The references to "Briceville, TN" and to channel 210 in Cumberland's December 11, 1991 letter to WATE-TV refer to a separately planned facility, not the one proposed herein.

WATE-TV INTERFERING CONTOUR
PINE
MOUNTAIN
WALNUT MOUNTAIN
SHORT MTN
Powell Valley
Jacksboro
Grantsboro
Oneida
Newcomb
Elk Valley
WHITLEY COUNTY
KENTUCKY
TENNESSEE
CLAIBORNE COUNTY
SCOTT CO
CAMPBELL CO
CHUCK SWAN MANAGEMENT AREA
White Oak
Mill Creek
Lookout tower
Jasper's Four Corners
Oak Grove
Dixie
Mountain Ash
Scale 1:250,000
5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 15 Nautical Miles
MIDDLESBORO 25 MI
25 MI TO U. S. 25E
11 MI TO TENNESSEE 33
000 000 FEET (KY. SOUTH)
30′
15′

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Title: Pioneer, Tennessee
Channel span: 207 - 207
FM site coordinates: 36-28-54 84-19-33
FM height above mean sea level: 749 m
6 dB TV receiving antenna directivity applied per 73.525(e)(1)(iii).
FM effective radiated power (in kW): .300

TV site coordinates: 36-00-13 83-56-35
TV height above average terrain: 454 m
TV effective radiated power (in kW): 99.999

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ----
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
.0	13.7	333.0	75.0	424	100	62.7	5.2	.0	13.7	254	.30	67.9
1.0	13.6	333.1	74.9	424	100	62.7	5.2	1.0	13.6	252	.30	67.9
2.0	13.6	333.2	74.7	424	100	62.8	5.1	2.0	13.6	250	.30	67.9
3.0	13.5	333.4	74.5	424	100	62.9	5.1	3.0	13.5	249	.30	68.0
4.0	13.4	333.5	74.4	424	100	63.0	5.0	4.0	13.4	247	.30	68.0
5.0	13.4	333.6	74.2	424	100	63.0	5.0	5.0	13.4	246	.30	68.0
6.0	13.3	333.8	74.0	424	100	63.1	4.9	6.0	13.3	244	.30	68.0
7.0	13.3	333.9	73.8	424	100	63.2	4.9	7.0	13.3	242	.30	68.1
8.0	13.2	334.0	73.7	424	100	63.2	4.8	8.0	13.2	241	.30	68.1
9.0	13.1	334.1	73.5	423	100	63.3	4.8	9.0	13.1	239	.30	68.1
10.0	13.1	334.2	73.3	423	100	63.4	4.8	10.0	13.1	238	.30	68.1
11.0	13.0	334.4	73.1	423	100	63.4	4.7	11.0	13.0	236	.30	68.2
12.0	13.0	334.5	72.9	423	100	63.5	4.7	12.0	13.0	234	.30	68.2
13.0	12.9	334.6	72.7	423	100	63.6	4.6	13.0	12.9	233	.30	68.2
14.0	12.8	334.7	72.6	423	100	63.7	4.6	14.0	12.8	231	.30	68.2
15.0	12.8	334.8	72.4	423	100	63.7	4.5	15.0	12.8	230	.30	68.3
16.0	12.7	334.9	72.2	423	100	63.8	4.5	16.0	12.7	228	.30	68.3
17.0	12.7	335.0	72.0	423	100	63.9	4.4	17.0	12.7	226	.30	68.3
18.0	12.6	335.1	71.8	423	100	64.0	4.4	18.0	12.6	225	.30	68.3
19.0	12.5	335.2	71.6	423	100	64.0	4.3	19.0	12.5	223	.30	68.3
20.0	12.5	335.3	71.4	423	100	64.1	4.3	20.0	12.5	222	.30	68.4
21.0	12.4	335.4	71.2	423	100	64.2	4.2	21.0	12.4	220	.30	68.4
22.0	12.4	335.4	71	423	100	64.3	4.2	22.0	12.4	218	.30	68.4
23.0	12.3	335.5	70.8	423	100	64.4	4.1	23.0	12.3	217	.30	68.5
24.0	12.2	335.6	70.6	423	100	64.4	4.1	24.0	12.2	215	.30	68.5
25.0	12.2	335.7	70.4	423	100	64.5	4.0	25.0	12.2	214	.30	68.5
26.0	12.1	335.7	70.2	423	100	64.6	3.9	26.0	12.1	212	.30	68.6
27.0	12.1	335.8	70.0	423	100	64.7	3.9	27.0	12.1	210	.30	68.6
28.0	12.0	335.9	69.8	423	100	64.8	3.8	28.0	12.0	209	.30	68.6
29.0	11.9	335.9	69.6	423	100	64.9	3.8	29.0	11.9	207	.30	68.6
30.0	11.9	336.0	69.4	422	100	64.9	3.7	30.0	11.9	206	.30	68.7
31.0	11.8	336.1	69.2	422	100	65.0	3.7	31.0	11.8	204	.30	68.7
32.0	11.7	336.1	69.0	422	100	65.1	3.6	32.0	11.7	202	.30	68.7
33.0	11.7	336.2	68.8	422	100	65.2	3.6	33.0	11.7	201	.30	68.8
34.0	11.6	336.2	68.6	422	100	65.3	3.6	34.0	11.6	199	.30	68.8
35.0	11.5	336.2	68.4	422	100	65.3	3.5	35.0	11.5	198	.30	68.8
36.0	11.5	336.3	68.1	422	100	65.4	3.5	36.0	11.5	196	.30	68.9
37.0	11.4	336.3	67.9	422	100	65.5	3.4	37.0	11.4	194	.30	68.9
38.0	7.8	333.6	66.1	424	100	66.3	9.1*	38.0	7.78	193	.30	75.3
39.0	7.7	333.7	66	424	100	66.3	9.0*	39.0	7.73	191	.30	75.4
40.0	7.7	333.7	65.9	424	100	66.4	9.0*	40.0	7.69	190	.30	75.4
41.0	7.6	333.7	65.7	424	100	66.5	9.0*	41.0	7.64	188	.30	75.4
42.0	7.6	333.7	65.6	424	100	66.5	9.0*	42.0	7.59	186	.30	75.5
43.0	7.5	333.7	65.4	424	100	66.6	8.9*	43.0	7.54	185	.30	75.5

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ----
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
44.0	7.5	333.7	65.3	424	100	66.6	8.9*	44.0	7.49	183	.30	75.5
45.0	7.4	333.7	65.2	424	100	66.7	8.9*	45.0	7.44	182	.30	75.6
46.0	7.5	333.7	65.0	424	100	66.7	8.9*	46.0	7.48	184	.30	75.6
47.0	7.5	333.8	64.9	424	100	66.8	8.9*	47.0	7.51	187	.30	75.7
48.0	7.5	333.9	64.8	424	100	66.8	8.8*	48.0	7.55	189	.30	75.7
49.0	7.6	333.9	64.7	424	100	66.9	8.8*	49.0	7.59	192	.30	75.7
50.0	7.6	334.0	64.6	424	100	66.9	8.8*	50.0	7.62	195	.30	75.8
51.0	7.7	334.0	64.5	423	100	67.0	8.8*	51.0	7.66	197	.30	75.8
52.0	7.7	334.1	64.3	423	100	67.0	8.8*	52.0	7.70	200	.30	75.8
53.0	7.7	334.1	64.2	423	100	67.1	8.8*	53.0	7.72	202	.30	75.9
54.0	7.8	334.2	64.1	423	100	67.1	8.8*	54.0	7.76	205	.30	75.9
55.0	7.8	334.2	63.9	423	100	67.2	8.7*	55.0	7.79	208	.30	75.9
56.0	7.8	334.3	63.8	423	100	67.2	8.7*	56.0	7.83	210	.30	76.0
57.0	7.9	334.3	63.7	423	100	67.3	8.7*	57.0	7.86	213	.30	76.0
58.0	7.9	334.4	63.6	423	100	67.4	8.7*	58.0	7.89	215	.30	76.0
59.0	7.9	334.4	63.4	423	100	67.4	8.7*	59.0	7.92	218	.30	76.1
60.0	8.0	334.5	63.3	423	100	67.5	8.7*	60.0	7.96	221	.30	76.1
61.0	8.0	334.5	63.2	423	100	67.5	8.6*	61.0	7.99	223	.30	76.2
62.0	8.0	334.5	63.0	423	100	67.6	8.6*	62.0	8.02	226	.30	76.2
63.0	8.0	334.6	62.9	423	100	67.7	8.6*	63.0	8.04	228	.30	76.3
64.0	8.1	334.6	62.7	423	100	67.7	8.6*	64.0	8.07	231	.30	76.3
65.0	8.1	334.6	62.6	423	100	67.8	8.6*	65.0	8.10	234	.30	76.3
66.0	8.1	334.6	62.5	423	100	67.8	8.5*	66.0	8.12	236	.30	76.4
67.0	8.1	334.6	62.3	423	100	67.9	8.5*	67.0	8.14	239	.30	76.4
68.0	8.2	334.7	62.2	423	100	68.0	8.5*	68.0	8.16	241	.30	76.5
69.0	8.2	334.7	62.0	423	100	68.0	8.5*	69.0	8.18	244	.30	76.5
70.0	8.2	334.7	61.9	423	100	68.1	8.5*	70.0	8.21	247	.30	76.5
71.0	8.2	334.7	61.7	423	100	68.1	8.5*	71.0	8.23	249	.30	76.6
72.0	8.3	334.7	61.6	423	100	68.2	8.4*	72.0	8.25	252	.30	76.6
73.0	8.3	334.7	61.4	423	100	68.3	8.4*	73.0	8.27	254	.30	76.7
74.0	8.3	334.7	61.3	423	100	68.3	8.4*	74.0	8.29	257	.30	76.7
75.0	8.3	334.7	61.2	423	100	68.4	8.4*	75.0	8.31	260	.30	76.8
76.0	8.3	334.7	61	423	100	68.5	8.4*	76.0	8.33	262	.30	76.8
77.0	8.3	334.7	60.9	423	100	68.5	8.3*	77.0	8.35	265	.30	76.9
78.0	11.8	337.8	60.0	422	100	68.9	2.2	78.0	11.8	267	.30	71.1
79.0	11.8	337.8	59.8	422	100	69.0	2.2	79.0	11.8	270	.30	71.2
80.0	11.8	337.8	59.6	422	100	69.1	2.2	80.0	11.8	273	.30	71.2
81.0	11.8	337.7	59.4	422	100	69.1	2.2	81.0	11.8	275	.30	71.3
82.0	11.8	337.7	59.2	422	100	69.2	2.1	82.0	11.8	278	.30	71.4
83.0	11.9	337.7	59.0	422	100	69.3	2.1	83.0	11.9	280	.30	71.4
84.0	11.9	337.6	58.8	422	100	69.4	2.1	84.0	11.9	283	.30	71.5
85.0	11.9	337.6	58.6	422	100	69.5	2.0	85.0	11.9	286	.30	71.5
86.0	11.9	337.5	58.4	422	100	69.6	2.0	86.0	11.9	288	.30	71.6
87.0	11.9	337.5	58.2	422	100	69.7	2.0	87.0	11.9	291	.30	71.7

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ---
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
88.0	11.9	337.4	58.0	422	100	69.8	2.0	88.0	11.9	293	.30	71.7
89.0	11.9	337.3	57.8	422	100	69.9	1.9	89.0	11.9	296	.30	71.8
90.0	11.9	337.3	57.6	422	100	70.0	1.9	90.0	11.9	299	.30	71.9
91.0	11.9	337.1	57.4	422	100	70.0	1.9	91.0	11.9	297	.30	71.9
92.0	11.8	337.0	57.3	422	100	70.1	1.9	92.0	11.8	295	.30	72.0
93.0	11.7	336.8	57.1	422	100	70.2	1.8	93.0	11.7	293	.30	72.0
94.0	11.7	336.7	57.0	422	100	70.2	1.8	94.0	11.7	291	.30	72.1
95.0	11.6	336.5	56.8	422	100	70.3	1.8	95.0	11.6	289	.30	72.1
96.0	11.5	336.4	56.7	422	100	70.4	1.8	96.0	11.5	288	.30	72.2
97.0	11.5	336.2	56.5	422	100	70.4	1.8	97.0	11.5	286	.30	72.2
98.0	11.4	336.0	56.4	422	100	70.5	1.7	98.0	11.4	284	.30	72.3
99.0	11.3	335.9	56.3	423	100	70.6	1.7	99.0	11.3	282	.30	72.3
100.0	11.3	335.7	56.1	423	100	70.6	1.7	100.0	11.3	280	.30	72.3
101.0	11.2	335.5	56	423	100	70.7	1.7	101.0	11.2	278	.30	72.4
102.0	11.1	335.4	55.9	423	100	70.7	1.7	102.0	11.1	277	.30	72.4
103.0	11.1	335.2	55.8	423	100	70.8	1.7	103.0	11.1	275	.30	72.4
104.0	11.0	335.0	55.7	423	100	70.9	1.6	104.0	11.0	273	.30	72.5
105.0	11.0	334.8	55.6	423	100	70.9	1.6	105.0	11.0	271	.30	72.5
106.0	10.9	334.7	55.4	423	100	71.0	1.6	106.0	10.9	269	.30	72.6
107.0	10.8	334.5	55.4	423	100	71.0	1.6	107.0	10.8	267	.30	72.6
108.0	10.8	334.3	55.2	423	100	71.1	1.6	108.0	10.8	266	.30	72.6
109.0	10.7	334.1	55.2	423	100	71.1	1.6	109.0	10.7	264	.30	72.7
110.0	10.7	334.0	55.1	424	100	71.1	1.6	110.0	10.7	262	.30	72.7
111.0	10.6	333.8	55.0	424	100	71.2	1.5	111.0	10.6	260	.30	72.7
112.0	10.6	333.6	54.9	424	100	71.2	1.5	112.0	10.6	258	.30	72.7
113.0	10.5	333.4	54.8	424	100	71.3	1.5	113.0	10.5	256	.30	72.8
114.0	10.5	333.2	54.7	424	100	71.3	1.5	114.0	10.5	254	.30	72.8
115.0	10.4	333.0	54.7	424	100	71.3	1.5	115.0	10.4	253	.30	72.8
116.0	10.4	332.9	54.6	424	100	71.4	1.5	116.0	10.4	251	.30	72.8
117.0	10.3	332.7	54.5	424	100	71.4	1.5	117.0	10.3	249	.30	72.9
118.0	10.3	332.5	54.5	424	100	71.4	1.5	118.0	10.3	247	.30	72.9
119.0	10.2	332.3	54.4	424	100	71.5	1.5	119.0	10.2	245	.30	72.9
120.0	10.2	332.1	54.4	424	100	71.5	1.5	120.0	10.2	243	.30	72.9
121.0	10.1	331.9	54.3	425	100	71.5	1.5	121.0	10.1	242	.30	73.0
122.0	10.1	331.8	54.3	425	100	71.5	1.4	122.0	10.1	240	.30	73.0
123.0	10.0	331.6	54.2	425	100	71.6	1.4	123.0	10	238	.30	73.0
124.0	10.0	331.4	54.2	425	100	71.6	1.4	124.0	9.96	236	.30	73.0
125.0	9.9	331.2	54.1	425	100	71.6	1.4	125.0	9.92	234	.30	73.0
126.0	9.9	331.0	54.1	425	100	71.6	1.4	126.0	9.87	232	.30	73.0
127.0	9.8	330.8	54.1	426	100	71.6	1.4	127.0	9.82	231	.30	73.0
128.0	9.8	330.6	54.1	426	100	71.6	1.4	128.0	9.78	229	.30	73.1
129.0	9.7	330.5	54.0	426	100	71.7	1.4	129.0	9.74	227	.30	73.1
130.0	9.7	330.3	54.0	426	100	71.7	1.4	130.0	9.70	225	.30	73.1
131.0	9.6	330.1	54.0	426	100	71.7	1.4	131.0	9.65	223	.30	73.1

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ---
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
132.0	9.6	329.9	54.0	426	100	71.7	1.4	132.0	9.60	221	.30	73.1
133.0	9.6	329.7	54	426	100	71.7	1.4	133.0	9.56	220	.30	73.1
134.0	9.5	329.5	54.0	426	100	71.7	1.4	134.0	9.52	218	.30	73.1
135.0	9.5	329.4	54.0	426	100	71.7	1.4	135.0	9.48	216	.30	73.1
136.0	9.4	329.2	54.0	426	100	71.7	1.4	136.0	9.44	215	.30	73.1
137.0	9.4	329.0	54.0	426	100	71.7	1.4	137.0	9.41	213	.30	73.1
138.0	9.4	328.8	54.0	427	100	71.7	1.4	138.0	9.38	212	.30	73.1
139.0	9.4	328.6	54.0	427	100	71.7	1.4	139.0	9.36	211	.30	73.1
140.0	9.3	328.5	54.0	427	100	71.7	1.4	140.0	9.33	209	.30	73.1
141.0	9.3	328.3	54.0	427	100	71.7	1.4	141.0	9.30	208	.30	73.1
142.0	9.3	328.1	54	427	100	71.7	1.4	142.0	9.27	207	.30	73.1
143.0	9.2	327.9	54.0	427	100	71.7	1.4	143.0	9.24	206	.30	73.1
144.0	9.2	327.8	54.0	427	100	71.7	1.4	144.0	9.21	204	.30	73.1
145.0	9.2	327.6	54.1	427	100	71.7	1.4	145.0	9.19	203	.30	73.1
146.0	9.2	327.4	54.1	427	100	71.7	1.4	146.0	9.16	202	.30	73.1
147.0	9.1	327.3	54.1	427	100	71.7	1.4	147.0	9.14	201	.30	73.1
148.0	9.1	327.1	54.1	427	100	71.7	1.4	148.0	9.11	199	.30	73.1
149.0	9.1	326.9	54.2	428	100	71.7	1.4	149.0	9.08	198	.30	73.1
150.0	9.1	326.8	54.2	428	100	71.6	1.4	150.0	9.06	197	.30	73.0
151.0	9.0	326.6	54.2	428	100	71.6	1.4	151.0	9.03	195	.30	73.0
152.0	9.0	326.4	54.3	428	100	71.6	1.4	152.0	9.01	194	.30	73.0
153.0	9.0	326.3	54.3	428	100	71.6	1.4	153.0	8.99	193	.30	73.0
154.0	9.0	326.1	54.4	428	100	71.6	1.4	154.0	8.96	192	.30	73.0
155.0	8.9	326.0	54.4	428	100	71.6	1.4	155.0	8.95	190	.30	73.0
156.0	8.9	325.8	54.5	429	100	71.5	1.4	156.0	8.92	189	.30	73.0
157.0	8.9	325.6	54.5	428	100	71.5	1.5	157.0	8.90	188	.30	73.0
158.0	8.9	325.5	54.6	428	100	71.5	1.5	158.0	8.88	187	.30	72.9
159.0	8.9	325.3	54.6	428	100	71.5	1.5	159.0	8.86	185	.30	72.9
160.0	8.8	325.2	54.7	428	100	71.4	1.5	160.0	8.84	184	.30	72.9
161.0	8.8	325.0	54.7	428	100	71.4	1.5	161.0	8.82	183	.30	72.9
162.0	8.8	324.9	54.8	429	100	71.4	1.5	162.0	8.79	181	.30	72.9
163.0	8.8	324.7	54.9	429	100	71.4	1.5	163.0	8.77	180	.30	72.9
164.0	8.8	324.6	54.9	429	100	71.3	1.5	164.0	8.75	179	.30	72.8
165.0	8.7	324.5	55	429	100	71.3	1.5	165.0	8.73	178	.30	72.8
166.0	8.7	324.3	55.1	429	100	71.3	1.5	166.0	8.71	176	.30	72.8
167.0	8.7	324.2	55.2	429	100	71.2	1.5	167.0	8.69	175	.30	72.8
168.0	8.7	324.0	55.2	429	100	71.2	1.5	168.0	8.67	174	.30	72.7
169.0	8.6	323.9	55.3	429	100	71.2	1.6	169.0	8.64	172	.30	72.7
170.0	8.6	323.8	55.4	429	100	71.1	1.6	170.0	8.62	171	.30	72.7
171.0	8.6	323.7	55.5	429	100	71.1	1.6	171.0	8.60	170	.30	72.7
172.0	8.6	323.5	55.6	429	100	71.0	1.6	172.0	8.58	169	.30	72.6
173.0	8.6	323.4	55.7	429	100	71.0	1.6	173.0	8.56	167	.30	72.6
174.0	8.5	323.3	55.8	429	100	71.0	1.6	174.0	8.54	166	.30	72.6
175.0	8.5	323.2	55.9	429	100	70.9	1.6	175.0	8.53	165	.30	72.5

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ---
Lat 36-28-54
Lon 84-19-33

------ WATE Channel 6 ------
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
176.0	8.5	323.0	56.0	429	100	70.9	1.6	176.0	8.50	164	.30	72.5
177.0	8.5	322.9	56.1	430	100	70.8	1.6	177.0	8.48	162	.30	72.5
178.0	8.5	322.8	56.2	430	100	70.8	1.7	178.0	8.46	161	.30	72.4
179.0	8.4	322.7	56.3	430	100	70.7	1.7	179.0	8.43	160	.30	72.4
180.0	8.4	322.6	56.4	430	100	70.7	1.7	180.0	8.41	158	.30	72.4
181.0	8.5	322.5	56.4	430	100	70.7	1.7	181.0	8.47	160	.30	72.4
182.0	8.5	322.3	56.5	430	100	70.7	1.7	182.0	8.53	162	.30	72.3
183.0	8.6	322.1	56.5	430	100	70.6	1.7	183.0	8.58	163	.30	72.3
184.0	8.6	322.0	56.6	430	100	70.6	1.7	184.0	8.63	165	.30	72.3
185.0	8.7	321.8	56.7	430	100	70.6	1.7	185.0	8.69	167	.30	72.3
186.0	8.8	321.7	56.7	430	100	70.6	1.7	186.0	8.75	168	.30	72.3
187.0	8.8	321.5	56.8	430	100	70.5	1.7	187.0	8.81	170	.30	72.3
188.0	8.9	321.4	56.9	430	100	70.5	1.8	188.0	8.87	171	.30	72.2
189.0	8.9	321.2	56.9	430	100	70.5	1.8	189.0	8.93	173	.30	72.2
190.0	9.0	321.1	57.0	430	100	70.4	1.8	190.0	8.98	175	.30	72.2
191.0	9.0	321.0	57.1	431	100	70.4	1.8	191.0	9.03	176	.30	72.2
192.0	9.1	320.8	57.2	431	100	70.4	1.8	192.0	9.09	178	.30	72.1
193.0	9.2	320.7	57.3	431	100	70.3	1.8	193.0	9.15	179	.30	72.1
194.0	9.2	320.5	57.4	431	100	70.3	1.8	194.0	9.21	181	.30	72.1
195.0	9.3	320.4	57.5	431	100	70.2	1.8	195.0	9.26	183	.30	72.1
196.0	9.3	320.3	57.6	431	100	70.2	1.8	196.0	9.32	184	.30	72.0
197.0	9.4	320.1	57.7	431	100	70.1	1.9	197.0	9.38	186	.30	72.0
198.0	9.4	320.0	57.8	431	100	70.1	1.9	198.0	9.43	188	.30	72.0
199.0	9.5	319.8	57.9	431	100	70.0	1.9	199.0	9.49	189	.30	71.9
200.0	9.6	319.7	58.0	431	100	70.0	1.9	200.0	9.55	191	.30	71.9
201.0	9.6	319.6	58.1	431	100	69.9	1.9	201.0	9.61	192	.30	71.9
202.0	9.7	319.5	58.3	431	100	69.9	1.9	202.0	9.67	194	.30	71.8
203.0	9.7	319.3	58.4	431	100	69.8	1.9	203.0	9.74	196	.30	71.8
204.0	9.8	319.2	58.5	431	100	69.8	2.0	204.0	9.79	197	.30	71.7
205.0	9.9	319.1	58.6	431	100	69.7	2.0	205.0	9.85	199	.30	71.7
206.0	9.9	319.0	58.8	432	100	69.7	2.0	206.0	9.91	200	.30	71.7
207.0	10.0	318.8	58.9	432	100	69.6	2.0	207.0	9.98	202	.30	71.6
208.0	10.0	318.7	59.0	432	100	69.6	2.0	208.0	10.0	204	.30	71.6
209.0	10.1	318.6	59.2	432	100	69.5	2.1	209.0	10.1	205	.30	71.5
210.0	10.2	318.5	59.3	432	100	69.4	2.1	210.0	10.2	207	.30	71.5
211.0	10.2	318.4	59.5	432	100	69.4	2.1	211.0	10.2	209	.30	71.4
212.0	10.3	318.3	59.6	432	100	69.3	2.1	212.0	10.3	210	.30	71.4
213.0	10.4	318.1	59.8	432	100	69.2	2.1	213.0	10.4	212	.30	71.3
214.0	10.4	318.0	60.0	432	100	69.1	2.2	214.0	10.4	213	.30	71.3
215.0	10.5	317.9	60.1	432	100	69.1	2.2	215.0	10.5	215	.30	71.2
216.0	10.6	317.8	60.3	432	100	69.0	2.2	216.0	10.6	217	.30	71.2
217.0	10.6	317.7	60.5	432	100	68.9	2.2	217.0	10.6	218	.30	71.1
218.0	7.6	320.6	61.2	431	100	68.6	8.3*	218.0	7.57	220	.30	76.9
219.0	7.6	320.5	61.3	431	100	68.5	8.3*	219.0	7.61	221	.30	76.9

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ---
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
220.0	7.7	320.4	61.5	431	100	68.5	8.4*	220.0	7.66	223	.30	76.8
221.0	7.7	320.4	61.6	431	100	68.4	8.4*	221.0	7.71	225	.30	76.8
222.0	7.8	320.3	61.7	431	100	68.4	8.4*	222.0	7.75	226	.30	76.7
223.0	7.8	320.2	61.8	431	100	68.3	8.4*	223.0	7.80	228	.30	76.7
224.0	7.9	320.2	62.0	431	100	68.2	8.4*	224.0	7.85	229	.30	76.7
225.0	7.9	320.1	62.1	431	100	68.2	8.4*	225.0	7.90	231	.30	76.6
226.0	7.9	320.1	62.2	431	100	68.1	8.5*	226.0	7.94	232	.30	76.6
227.0	8.0	320.0	62.4	431	100	68.1	8.5*	227.0	7.97	232	.30	76.5
228.0	8.0	320.0	62.5	431	100	68.0	8.5*	228.0	8.00	233	.30	76.5
229.0	8.0	320.0	62.7	431	100	68.0	8.5*	229.0	8.03	234	.30	76.5
230.0	8.1	319.9	62.8	431	100	67.9	8.5*	230.0	8.06	234	.30	76.4
231.0	8.1	319.9	62.9	431	100	67.8	8.5*	231.0	8.10	235	.30	76.4
232.0	8.1	319.9	63.1	431	100	67.8	8.6*	232.0	8.13	235	.30	76.3
233.0	8.2	319.9	63.2	431	100	67.7	8.6*	233.0	8.16	236	.30	76.3
234.0	8.2	319.8	63.4	431	100	67.7	8.6*	234.0	8.19	237	.30	76.2
235.0	8.2	319.8	63.5	431	100	67.6	8.6*	235.0	8.23	237	.30	76.2
236.0	8.3	319.8	63.7	431	100	67.5	8.6*	236.0	8.26	238	.30	76.2
237.0	8.3	319.8	63.8	431	100	67.5	8.7*	237.0	8.30	238	.30	76.1
238.0	8.3	319.8	63.9	431	100	67.4	8.7*	238.0	8.33	239	.30	76.1
239.0	8.4	319.8	64.1	431	100	67.3	8.7*	239.0	8.37	240	.30	76.0
240.0	8.4	319.8	64.2	431	100	67.3	8.7*	240.0	8.40	240	.30	76.0
241.0	8.4	319.8	64.4	431	100	67.2	8.7*	241.0	8.43	241	.30	75.9
242.0	8.5	319.8	64.6	431	100	67.1	8.8*	242.0	8.47	241	.30	75.9
243.0	8.5	319.8	64.7	431	100	67.1	8.8*	243.0	8.51	242	.30	75.8
244.0	8.5	319.8	64.9	431	100	67.0	8.8*	244.0	8.54	243	.30	75.8
245.0	8.6	319.8	65	431	100	67.0	8.8*	245.0	8.57	243	.30	75.8
246.0	8.6	319.8	65.2	431	100	66.9	8.8*	246.0	8.60	244	.30	75.7
247.0	8.6	319.8	65.3	431	100	66.8	8.9*	247.0	8.64	244	.30	75.7
248.0	8.7	319.8	65.5	431	100	66.8	8.9*	248.0	8.67	245	.30	75.6
249.0	8.7	319.8	65.6	431	100	66.7	8.9*	249.0	8.71	246	.30	75.6
250.0	8.7	319.8	65.8	431	100	66.6	8.9*	250.0	8.74	246	.30	75.5
251.0	8.8	319.8	65.9	431	100	66.6	8.9*	251.0	8.77	247	.30	75.5
252.0	8.8	319.9	66.1	431	100	66.5	9.0*	252.0	8.81	247	.30	75.5
253.0	8.8	319.9	66.2	431	100	66.4	9.0*	253.0	8.84	248	.30	75.4
254.0	8.9	319.9	66.4	431	100	66.4	9.0*	254.0	8.87	249	.30	75.4
255.0	8.9	320.0	66.6	431	100	66.3	9.0*	255.0	8.91	249	.30	75.3
256.0	8.9	320.0	66.7	431	100	66.3	9.1*	256.0	8.94	250	.30	75.3
257.0	9.0	320.0	66.9	431	100	66.2	9.1*	257.0	8.97	250	.30	75.3
258.0	12.9	317.2	69.0	432	100	65.4	3.5	258.0	12.9	251	.30	68.9
259.0	12.9	317.3	69.2	432	100	65.3	3.5	259.0	12.9	252	.30	68.8
260.0	13.0	317.3	69.4	432	100	65.2	3.6	260.0	13.0	252	.30	68.8
261.0	13.0	317.4	69.6	432	100	65.1	3.6	261.0	13.0	253	.30	68.7
262.0	13.1	317.5	69.8	432	100	65.0	3.7	262.0	13.1	253	.30	68.7
263.0	13.1	317.6	70.0	432	100	64.9	3.7	263.0	13.1	254	.30	68.7

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ----
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
264.0	13.2	317.7	70.2	432	100	64.9	3.8	264.0	13.2	255	.30	68.6
265.0	13.2	317.7	70.4	432	100	64.8	3.8	265.0	13.2	255	.30	68.6
266.0	13.2	317.8	70.6	432	100	64.7	3.9	266.0	13.2	256	.30	68.6
267.0	13.3	317.9	70.8	432	100	64.6	3.9	267.0	13.3	256	.30	68.6
268.0	13.3	318.0	71.0	432	100	64.5	4.0	268.0	13.3	257	.30	68.5
269.0	13.3	318.1	71.2	432	100	64.4	4.1	269.0	13.3	258	.30	68.5
270.0	13.4	318.2	71.4	432	100	64.4	4.1	270.0	13.4	258	.30	68.5
271.0	13.4	318.3	71.6	432	100	64.3	4.2	271.0	13.4	259	.30	68.4
272.0	13.4	318.4	71.8	432	100	64.2	4.2	272.0	13.4	259	.30	68.4
273.0	13.5	318.6	72	432	100	64.1	4.3	273.0	13.5	259	.30	68.4
274.0	13.5	318.7	72.2	432	100	64.1	4.3	274.0	13.5	260	.30	68.4
275.0	13.5	318.8	72.4	432	100	64.0	4.4	275.0	13.5	260	.30	68.3
276.0	13.5	318.9	72.6	432	100	63.9	4.4	276.0	13.5	260	.30	68.3
277.0	13.6	319.0	72.7	431	100	63.8	4.5	277.0	13.6	261	.30	68.3
278.0	13.6	319.2	72.9	431	100	63.8	4.5	278.0	13.6	261	.30	68.3
279.0	13.6	319.3	73.1	431	100	63.7	4.6	279.0	13.6	262	.30	68.2
280.0	13.7	319.4	73.3	431	100	63.6	4.6	280.0	13.7	262	.30	68.2
281.0	13.7	319.6	73.4	431	100	63.6	4.6	281.0	13.7	262	.30	68.2
282.0	13.7	319.7	73.6	431	100	63.5	4.7	282.0	13.7	263	.30	68.2
283.0	13.7	319.8	73.8	431	100	63.4	4.7	283.0	13.7	263	.30	68.1
284.0	13.8	320.0	73.9	431	100	63.4	4.8	284.0	13.8	264	.30	68.1
285.0	13.8	320.1	74.1	431	100	63.3	4.8	285.0	13.8	264	.30	68.1
286.0	13.8	320.2	74.2	431	100	63.2	4.9	286.0	13.8	264	.30	68.1
287.0	13.9	320.4	74.4	431	100	63.1	4.9	287.0	13.9	265	.30	68.0
288.0	13.9	320.5	74.6	431	100	63.1	4.9	288.0	13.9	265	.30	68.0
289.0	13.9	320.7	74.7	431	100	63.0	5.0	289.0	13.9	265	.30	68.0
290.0	13.9	320.8	74.9	431	100	63.0	5.0	290.0	13.9	266	.30	68.0
291.0	14.0	321.0	75	431	100	62.9	5.1	291.0	14.0	266	.30	68.0
292.0	14.0	321.1	75.1	430	100	62.8	5.1	292.0	14	267	.30	67.9
293.0	14.0	321.3	75.3	430	100	62.8	5.1	293.0	14.0	267	.30	67.9
294.0	14.1	321.4	75.4	430	100	62.7	5.2	294.0	14.1	267	.30	67.9
295.0	14.1	321.6	75.6	430	100	62.7	5.2	295.0	14.1	268	.30	67.9
296.0	14.1	321.7	75.7	430	100	62.6	5.2	296.0	14.1	268	.30	67.8
297.0	14.2	321.9	75.8	430	100	62.6	5.3	297.0	14.2	269	.30	67.8
298.0	14.2	322.1	76.0	430	100	62.5	5.3	298.0	14.2	269	.30	67.8
299.0	14.2	322.2	76.1	430	100	62.4	5.3	299.0	14.2	269	.30	67.8
300.0	14.2	322.4	76.2	430	100	62.4	5.4	300.0	14.2	270	.30	67.7
301.0	14.3	322.6	76.3	430	100	62.3	5.4	301.0	14.3	270	.30	67.7
302.0	14.3	322.7	76.4	430	100	62.3	5.4	302.0	14.3	270	.30	67.7
303.0	14.3	322.9	76.5	430	100	62.3	5.4	303.0	14.3	271	.30	67.7
304.0	14.4	323.1	76.7	429	100	62.2	5.5	304.0	14.4	271	.30	67.6
305.0	14.4	323.2	76.8	429	100	62.2	5.5	305.0	14.4	272	.30	67.6
306.0	14.4	323.4	76.9	429	100	62.1	5.5	306.0	14.4	272	.30	67.6
307.0	14.4	323.6	77.0	429	100	62.1	5.5	307.0	14.4	272	.30	67.6

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ---
Lat 36-28-54
Lon 84-19-33

------ WATE Channel 6 ------
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
308.0	14.5	323.8	77.0	429	100	62.0	5.5	308.0	14.5	273	.30	67.6
309.0	14.5	323.9	77.1	429	100	62.0	5.6	309.0	14.5	273	.30	67.6
310.0	14.5	324.1	77.2	429	100	61.9	5.6	310.0	14.5	274	.30	67.5
311.0	14.5	324.3	77.3	429	100	61.9	5.6	311.0	14.5	274	.30	67.5
312.0	14.6	324.5	77.4	429	100	61.9	5.6	312.0	14.6	274	.30	67.5
313.0	14.6	324.6	77.4	429	100	61.9	5.7	313.0	14.6	275	.30	67.5
314.0	14.6	324.8	77.5	429	100	61.8	5.7	314.0	14.6	275	.30	67.5
315.0	14.6	325.0	77.6	428	100	61.8	5.7	315.0	14.6	275	.30	67.5
316.0	14.6	325.2	77.6	428	100	61.8	5.7	316.0	14.6	275	.30	67.5
317.0	14.6	325.4	77.6	428	100	61.8	5.7	317.0	14.6	274	.30	67.5
318.0	14.6	325.6	77.7	428	100	61.7	5.7	318.0	14.6	274	.30	67.5
319.0	14.6	325.8	77.7	428	100	61.7	5.7	319.0	14.6	274	.30	67.5
320.0	14.6	325.9	77.7	428	100	61.7	5.7	320.0	14.6	273	.30	67.4
321.0	14.6	326.1	77.7	428	100	61.7	5.7	321.0	14.6	273	.30	67.4
322.0	14.6	326.3	77.7	428	100	61.7	5.7	322.0	14.6	272	.30	67.4
323.0	14.5	326.5	77.7	428	100	61.7	5.7	323.0	14.5	272	.30	67.4
324.0	14.5	326.7	77.7	428	100	61.7	5.7	324.0	14.5	271	.30	67.4
325.0	14.5	326.9	77.7	428	100	61.7	5.7	325.0	14.5	271	.30	67.4
326.0	14.5	327.1	77.7	427	100	61.7	5.7	326.0	14.5	270	.30	67.4
327.0	14.5	327.3	77.7	427	100	61.7	5.7	327.0	14.5	270	.30	67.4
328.0	14.5	327.4	77.7	427	100	61.7	5.7	328.0	14.5	269	.30	67.4
329.0	14.5	327.6	77.7	427	100	61.7	5.7	329.0	14.5	269	.30	67.4
330.0	14.4	327.8	77.6	427	100	61.7	5.7	330.0	14.4	268	.30	67.4
331.0	14.4	328.0	77.6	427	100	61.7	5.7	331.0	14.4	268	.30	67.5
332.0	14.4	328.2	77.6	427	100	61.7	5.7	332.0	14.4	267	.30	67.4
333.0	14.4	328.4	77.5	427	100	61.8	5.7	333.0	14.4	267	.30	67.5
334.0	14.4	328.5	77.5	427	100	61.8	5.7	334.0	14.4	266	.30	67.5
335.0	14.3	328.7	77.4	427	100	61.8	5.7	335.0	14.3	266	.30	67.5
336.0	14.3	328.9	77.4	427	100	61.8	5.7	336.0	14.3	265	.30	67.5
337.0	14.3	329.1	77.3	426	100	61.8	5.7	337.0	14.3	265	.30	67.5
338.0	14.3	329.3	77.3	426	100	61.8	5.7	338.0	14.3	264	.30	67.5
339.0	14.3	329.5	77.2	426	100	61.9	5.6	339.0	14.3	264	.30	67.5
340.0	14.2	329.6	77.1	426	100	61.9	5.6	340.0	14.2	263	.30	67.5
341.0	14.2	329.8	77.1	426	100	61.9	5.6	341.0	14.2	263	.30	67.5
342.0	14.2	330.0	77.0	426	100	62.0	5.6	342.0	14.2	262	.30	67.5
343.0	14.2	330.2	76.9	426	100	62.0	5.6	343.0	14.2	262	.30	67.5
344.0	14.1	330.3	76.8	426	100	62.0	5.6	344.0	14.1	261	.30	67.6
345.0	14.1	330.5	76.8	426	100	62.0	5.5	345.0	14.1	261	.30	67.6
346.0	14.1	330.7	76.7	426	100	62.1	5.5	346.0	14.1	260	.30	67.6
347.0	14.1	330.9	76.6	426	100	62.1	5.5	347.0	14.1	260	.30	67.6
348.0	14.0	331.0	76.5	425	100	62.1	5.5	348.0	14.0	259	.30	67.6
349.0	14.0	331.2	76.4	425	100	62.2	5.5	349.0	14.0	259	.30	67.6
350.0	14.0	331.4	76.3	425	100	62.2	5.4	350.0	14.0	258	.30	67.7
351.0	14.0	331.5	76.2	425	100	62.3	5.4	351.0	14.0	258	.30	67.7

Title: Pioneer, Tennessee

Educational FM/TV Channel 6 Interference area

Interference
--- Site ----
Lat 36-28-54
Lon 84-19-33

----- WATE Channel 6 -----
C/R 454 m AAT
Latitude: 36-00-13
Longitude: 83-56-35

---- Proposed Ch. 207 ----
C/R 234 m AAT
Latitude: 36-28-54
Longitude: 84-19-33

Bear. (deg)	Dist (km)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)	U/D (dB)	Bear. (deg)	Dist (km)	Haat (m)	ERP (kW)	F.S. (dBu)
352.0	13.9	331.7	76.0	425	100	62.3	5.4	352.0	13.9	257	.30	67.7
353.0	13.9	331.9	75.9	425	100	62.4	5.4	353.0	13.9	257	.30	67.7
354.0	13.9	332.0	75.8	424	100	62.4	5.4	354.0	13.9	256	.30	67.7
355.0	13.8	332.2	75.7	424	100	62.4	5.3	355.0	13.8	256	.30	67.8
356.0	13.8	332.3	75.6	424	100	62.5	5.3	356.0	13.8	256	.30	67.8
357.0	13.8	332.5	75.5	424	100	62.5	5.3	357.0	13.8	255	.30	67.8
358.0	13.8	332.6	75.3	424	100	62.6	5.2	358.0	13.8	255	.30	67.8
359.0	13.7	332.8	75.2	424	100	62.6	5.2	359.0	13.7	254	.30	67.9

Total interference area: 393.862 sq km (152.071 sq mi)

Mr. Dwight Magnuson, P.E.
Knoxville, TN

May 4, 1992

1990 Population Count

Title: Pioneer, TN
Audit File: pcx05042.A02

Latitude: 36-28-54
Longitude: 84-19-33

Azimuth	Dist (km)	Azimuth	Dist (km)	Azimuth	Dist (km)
0.00	13.70	10.00	13.10	20.00	12.50
30.00	11.90	37.00	11.40	38.00	7.80
40.00	7.70	50.00	7.60	60.00	8.00
70.00	8.20	77.00	8.30	78.00	11.80
80.00	11.80	90.00	11.90	100.00	11.30
110.00	10.70	120.00	10.20	130.00	9.70
140.00	9.30	150.00	9.10	160.00	8.80
170.00	8.60	180.00	8.40	190.00	9.00
200.00	9.60	210.00	10.20	217.00	10.60
218.00	7.60	220.00	7.70	230.00	8.10
240.00	8.40	250.00	8.70	257.00	9.00
258.00	12.90	260.00	13.00	270.00	13.40
280.00	13.70	290.00	13.90	300.00	14.20
310.00	14.50	320.00	14.60	330.00	14.40
340.00	14.20	350.00	14.00		

Block Level Count Displayed by Block
Area of contour : 393.896 square km
Area of contour : 152.084 square mi

1990 Population Count

Title: Pioneer, TN
Audit File: pcx05042.A02

Latitude: 36-28-54
Longitude: 84-19-33

County Subdivision, Place, Tract, Block Group	Latitude	Longitude	Houses	Total	White	Hisp	Black	Asian	AmIn	other
Kentucky, McCreary County										
Pine Knot division, Remainder of Pine Knot division										
BNA 9604 (pt.), BG 4										
40	36-35-51	84-19-21	11	37	37	0	0	0	0	0
Total Blocks :			11	37	37	0	0	0	0	0
Total Subdivision :			11	37	37	0	0	0	0	0
County Total:			11	37	37	0	0	0	0	0
State Total :			11	37	37	0	0	0	0	0
Tennessee, Campbell County										
Elk Valley division (pt.), Remainder of Elk Valley division (pt.)										
BNA 9503 (pt.), BG 2 (pt.)										
16	36-28-53	84-14-25	16	48	47	0	0	1	0	0
17	36-29-06	84-14-35	6	17	17	0	0	0	0	0
20	36-29-07	84-14-49	10	27	27	0	0	0	0	0
21	36-29-03	84-14-48	5	9	9	0	0	0	0	0
22	36-28-59	84-14-59	6	15	15	0	0	0	0	0
23	36-28-54	84-15-13	1	2	2	0	0	0	0	0
24	36-29-05	84-15-24	3	8	8	0	0	0	0	0
25	36-30-16	84-18-32	28	71	68	0	0	0	3	0
31	36-27-54	84-19-34	44	106	106	0	0	0	0	0
41	36-29-18	84-17-33	4	6	6	0	0	0	0	0
43	36-28-42	84-17-26	5	14	14	0	0	0	0	0
44	36-28-30	84-17-30	2	4	4	0	0	0	0	0
45	36-28-13	84-17-05	1	5	5	0	0	0	0	0
46	36-28-00	84-16-28	5	9	9	0	0	0	0	0
48	36-28-38	84-15-39	2	6	6	0	0	0	0	0
49	36-28-47	84-15-42	10	23	23	0	0	0	0	0
50	36-28-58	84-15-20	5	4	4	0	0	0	0	0
51	36-28-31	84-15-28	1	2	2	0	0	0	0	0
53	36-28-30	84-14-15	15	31	31	0	0	0	0	0
57	36-28-07	84-15-42	5	18	18	0	0	0	0	0
59	36-27-32	84-16-57	1	5	5	0	0	0	0	0
60	36-27-47	84-17-05	2	6	6	0	0	0	0	0
62	36-27-22	84-17-17	4	7	7	0	0	0	0	0
63	36-27-26	84-17-37	1	2	2	0	0	0	0	0
64	36-27-15	84-17-35	1	1	1	0	0	0	0	0
65	36-27-11	84-17-45	4	7	7	0	0	0	0	0
66	36-27-18	84-17-46	3	4	4	0	0	0	0	0
67	36-26-58	84-18-06	1	3	3	0	0	0	0	0

1990 Population Count

Title: Pioneer, TN
Audit File: pcx05042.A02

Latitude: 36-28-54
Longitude: 84-19-33

County Subdivision, Place, Tract, Block Group

	Latitude	Longitude	Houses	Total	White	Hisp	Black	Asian	AmIn	other
68	36-26-51	84-17-58	7	22	22	0	0	0	0	0
69	36-27-01	84-18-16	2	2	2	0	0	0	0	0
72	36-25-30	84-18-11	12	18	18	0	0	0	0	0
74	36-27-20	84-16-45	1	4	4	0	0	0	0	0
76	36-27-23	84-16-25	2	3	3	0	0	0	0	0
81	36-26-07	84-18-50	2	6	6	0	0	0	0	0
85	36-24-52	84-19-23	4	13	13	0	0	0	0	0
90	36-28-33	84-16-03	8	14	14	0	0	0	0	0
91	36-28-14	84-16-23	4	8	8	0	0	0	0	0
96	36-29-35	84-15-34	1	6	6	0	0	0	0	0
Total Blocks :			234	556	552	0	0	1	3	0
Total Subdivision :			234	556	552	0	0	1	3	0

Elk Valley division (pt.), Remainder of Elk Valley division (pt.)
BNA 9503 (pt.), BG 2 (pt.)

13	36-29-44	84-14-50	61	183	179	0	0	0	4	0
14	36-29-40	84-14-09	9	13	13	0	0	0	0	0
93	36-29-44	84-15-30	3	10	10	0	0	0	0	0
Total Blocks :			73	206	202	0	0	0	4	0
Total Subdivision :			73	206	202	0	0	0	4	0

Caryville division (pt.), Remainder of Caryville division (pt.)
BNA 9504 (pt.), BG 4 (pt.)

05	36-24-51	84-18-08	1	10	10	0	0	0	0	0
Total Blocks :			1	10	10	0	0	0	0	0
Total Subdivision :			1	10	10	0	0	0	0	0

Habersham division (pt.), Remainder of Habersham division (pt.)
BNA 9501 (pt.), BG 3 (pt.)

01	36-28-40	84-11-58	63	205	201	0	0	0	4	0
37	36-28-31	84-11-50	1	2	2	0	0	0	0	0
79	36-25-52	84-15-51	1	2	2	0	0	0	0	0
81	36-25-21	84-16-19	1	2	2	0	0	0	0	0
Total Blocks :			66	211	207	0	0	0	4	0
Total Subdivision :			66	211	207	0	0	0	4	0

County Total:			374	983	971	0	0	1	11	0

Tennessee, Scott County
Huntsville division (pt.), Remainder of Huntsville division (pt.)
BNA 9752 (pt.), BG 1 (pt.)

47	36-24-35	84-23-36	2	3	3	0	0	0	0	0
Total Blocks :			2	3	3	0	0	0	0	0

1990 Population Count

Title: Pioneer, TN
Audit File: pcx05042.A02

Latitude: 36-28-54
Longitude: 84-19-33

County Subdivision, Place, Tract, Block Group Latitude Longitude	Houses	Total	White	Hisp	Black	Asian	AmIn	other
Total Subdivision :	2	3	3	0	0	0	0	0
Norma division (pt.), Norma division (pt.)								
BNA 9753 (pt.), BG 1 (pt.)								
02 36-25-09 84-21-54	1	2	2	0	0	0	0	0
04 36-24-49 84-22-14	4	17	17	0	0	0	0	0
05 36-24-45 84-22-58	10	26	26	0	0	0	0	0
09 36-24-05 84-22-15	104	273	273	0	0	0	0	0
Total Blocks :	119	318	318	0	0	0	0	0
Total Subdivision :	119	318	318	0	0	0	0	0
Winfield division (pt.), Remainder of Winfield division (pt.)								
BNA 9750 (pt.), BG 2 (pt.)								
26 36-28-19 84-28-13	12	23	23	0	0	0	0	0
31 36-27-45 84-27-19	4	6	6	0	0	0	0	0
Total Blocks :	16	29	29	0	0	0	0	0
Winfield division (pt.), Remainder of Winfield division (pt.)								
BNA 9750 (pt.), BG 2 (pt.)								
04B36-31-10 84-22-35	36	91	90	0	0	1	0	0
18 36-25-16 84-22-50	2	8	8	0	0	0	0	0
19 36-30-38 84-27-42	3	7	7	0	0	0	0	0
20 36-30-23 84-26-33	14	38	38	0	0	0	0	0
25 36-28-28 84-26-37	63	144	144	0	0	0	0	0
56 36-26-38 84-23-52	1	2	2	0	0	0	0	0
59 36-28-17 84-25-39	2	3	3	0	0	0	0	0
Total Blocks :	121	293	292	0	0	1	0	0
Winfield division (pt.), Remainder of Winfield division (pt.)								
BNA 9750 (pt.), BG 3 (pt.)								
39C36-31-44 84-27-23	6	13	13	0	0	0	0	0
51 36-30-27 84-28-05	6	11	11	0	0	0	0	0
Total Blocks :	12	24	24	0	0	0	0	0
Total Subdivision :	149	346	345	0	0	1	0	0
Winfield division (pt.), Oneida town (pt.)								
BNA 9750 (pt.), BG 3 (pt.)								
33A36-32-26 84-27-50	6	15	15	0	0	0	0	0
Total Blocks :	6	15	15	0	0	0	0	0
Winfield division (pt.), Winfield town								
BNA 9750 (pt.), BG 1 (pt.)								
16A36-34-28 84-26-24	12	17	17	0	0	0	0	0
21A36-34-00 84-26-48	2	5	5	0	0	0	0	0
24 36-33-35 84-26-49	3	6	6	0	0	0	0	0
26A36-33-17 84-26-42	2	3	3	0	0	0	0	0