

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
27A36-33-02	84-26-34			19	48	47	0	0	1	0	0
34 36-32-30	84-26-46			20	46	46	0	0	0	0	0
Total Blocks :				58	125	124	0	0	1	0	0
Winfield division (pt.), Winfield town											
BNA 9750 (pt.), BG 3 (pt.)											
16B36-32-30	84-27-17			11	28	28	0	0	0	0	0
18A36-33-01	84-27-14			8	25	25	0	0	0	0	0
19 36-33-43	84-27-02			8	18	18	0	0	0	0	0
30A36-33-29	84-27-13			4	6	6	0	0	0	0	0
31 36-32-28	84-27-30			5	19	19	0	0	0	0	0
32 36-32-23	84-27-40			2	5	5	0	0	0	0	0
33B36-32-28	84-27-44			1	4	4	0	0	0	0	0
35A36-32-16	84-27-52			1	3	3	0	0	0	0	0
38A36-32-48	84-27-06			2	4	4	0	0	0	0	0
38B36-32-25	84-26-54			1	2	2	0	0	0	0	0
39A36-32-11	84-26-36			1	6	6	0	0	0	0	0
39B36-32-13	84-26-55			3	7	7	0	0	0	0	0
Total Blocks :				47	127	127	0	0	0	0	0
Winfield division (pt.), Remainder of Winfield division (pt.)											
BNA 9750 (pt.), BG 1 (pt.)											
02 36-35-10	84-18-42			10	26	26	0	0	0	0	0
03 36-35-29	84-22-09			2	6	6	0	0	0	0	0
04B36-34-50	84-23-22			43	95	94	1	0	0	0	0
09 36-33-07	84-22-27			15	42	42	0	0	0	0	0
10 36-34-11	84-24-12			7	18	18	0	0	0	0	0
11 36-34-08	84-24-57			8	19	19	0	0	0	0	0
12 36-34-37	84-24-56			1	3	3	0	0	0	0	0
13B36-34-55	84-25-29			12	34	34	0	0	0	0	0
16C36-34-06	84-26-01			18	45	45	0	0	0	0	0
17 36-34-26	84-25-22			10	22	22	0	0	0	0	0
18 36-33-49	84-25-10			2	6	6	0	0	0	0	0
19 36-33-49	84-25-59			6	10	10	0	0	0	0	0
20 36-33-33	84-26-09			16	42	42	0	0	0	0	0
21B36-33-55	84-26-28			17	45	45	0	0	0	0	0
25 36-33-34	84-26-33			4	9	9	0	0	0	0	0
26B36-33-22	84-26-25			1	3	3	0	0	0	0	0
27B36-32-17	84-24-48			15	34	34	0	0	0	0	0
30 36-33-23	84-25-42			10	19	19	0	0	0	0	0
31 36-33-17	84-25-56			1	1	1	0	0	0	0	0
33 36-33-10	84-25-46			3	7	7	0	0	0	0	0
35B36-31-56	84-26-13			6	17	17	0	0	0	0	0
36 36-31-55	84-26-30			1	5	5	0	0	0	0	0
37 36-34-27	84-20-09			1	6	6	0	0	0	0	0
Total Blocks :				209	514	513	1	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
Winfield division (pt.), Remainder of Winfield division (pt.)											
BNA 9750 (pt.), B6 2 (pt.)											
01	36-32-47	84-16-13		1	2	2	0	0	0	0	0
03	36-33-41	84-17-47		2	7	7	0	0	0	0	0
Total Blocks :				3	9	9	0	0	0	0	0
Winfield division (pt.), Remainder of Winfield division (pt.)											
BNA 9750 (pt.), B6 3 (pt.)											
30C	36-33-31	84-27-11		1	2	2	0	0	0	0	0
38C	36-32-26	84-27-03		1	3	3	0	0	0	0	0
40B	36-32-06	84-26-43		4	10	10	0	0	0	0	0
Total Blocks :				6	15	15	0	0	0	0	0
Total Subdivision :				329	805	803	1	0	1	0	0
County Total:				599	1472	1469	1	0	2	0	0
State Total :				973	2455	2440	1	0	3	11	0
Total Run Population:				984	2492	2477	1	0	3	11	0

DWIGHT R. MAGNUSON, P.E.
Consulting Engineer

October 21, 1991

Bob Williams, Chief Engineer
WATE-TV6
P.O. Box 2349
Knoxville, TN 37901

RE: New Non-Commercial FM Proposal
Channel 207
Pioneer, Tennessee

Dear Bob:

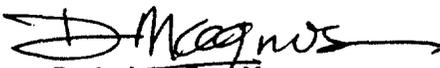
Cumberland Communications has decided to file for another NCE channel in addition to the Briceville proposal sent to you October 7, 1991. Cumberland is proposing channel 207 and .4 kw ERP with the antenna centered on 762 meters AMSL situated atop Sexton Mountain.

Using the 6 dB TV receiving antenna directivity per section 73.525(e)(1)(iii) and the 1990 census and "block" level counting, I find that 3264 persons reside within the FM-TV6 interference area. Cumberland will provide up to 264 filters to any person(s) requesting one in the interference area per section 73.525(c)(2).

I have attached copies of the Dataworld interference prediction and the 1990 population count within the interference area.

Again, absent any findings contrary to section 73.525 of the Commissions Rules, Cumberland requests that WATE provide a letter to Cumberland stating that WATE has no objections to this proposal.

Sincerely,


Dwight R. Magnuson

cc. T. Lawson, Cumberland Communications

COHEN, DIPPELL AND EVERIST, P. C.
CONSULTING ENGINEERS
RADIO-TELEVISION

1300 L STREET, N. W.
SUITE 1100
WASHINGTON, D. C. 20005

TELEPHONE
(202) 898-0111
TELECOPIER
(202) 898-0895

JULIUS COHEN
RALPH E. DIPPELL, JR.
DONALD G. EVERIST
SUDHIR K. KHANNA
WARREN M. POWIS
JOHN R. URAM, JR.
ROBERT W. GUILL
WILSON A. LA FOLLETTE

November 6, 1991

Mr. Robert Williams
Station WATE-TV
P.O. Box 2349
Knoxville, TN 37901

Re: Cumberland Communities Communications
Corporation, Channel 207,
Sexton Mountain, Tennessee

Dear Bob:

We have conducted a preliminary review of the proposal of Cumberland Communities Communications Corporation ("CCCC") to operate a 400 watt ERP non-commercial educational FM station on Channel 207 (89.3 MHz). Operation is proposed from a transmitter site on Sexton Mountain with circular polarization and an antenna radiation center of 762 meters (2500 feet) above mean sea level.

CCCC have used the services of Dataworld Inc. to compute the population within the interference area based on the 1990 census block information. We understand that the computerized population count method uses "centroids" of block data which may tend to provide inaccurate population values when relatively small contours such as interference contours are involved.

Using the data provided by CCCC, we have computed a population of 3445 within the interfering contour. CCCC had computed 3264 persons, and therefore, had offered 264 filters as a solution. Furthermore, due to our concerns of potential accuracy, we have shifted the interfering contour by plus and minus 2 km to determine any trend in population differences, and they are as follows:

	<u>Block Centroid Population (1990 Census)</u>
Interfering Contour minus 2 km	2001
Interfering Contour plus 2 km	7412

COHEN, DIPPELL AND EVERIST, P. C.

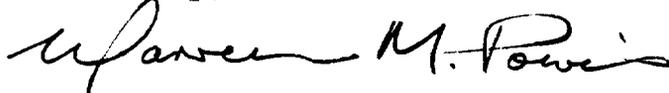
Mr. Robert Williams
November 6, 1991
Page 2

Moving the contour radials by approximately 15% results in radical changes in population. Therefore, proposing 264 filters may not be a realistic solution.

Since the predicted population within the contour changes rapidly for a relatively small change in interfering contour location, we do not recommend supporting the CCCC request. Section 73.525(e)(2)(iv) of the FCC Rules states that more detailed population data may be used to determine the number of persons within the predicted interference area. We, therefore, recommend that WATE-TV not foreclose on that option.

Please call if you have any questions on this study.

Sincerely,

A handwritten signature in cursive script that reads "Warren M. Powis".

Warren M. Powis

WMP:mcw
cc: Don Watkins
Ed Hummers

DWIGHT R. MAGNUSON, P.E.
Consulting Engineer

November 27, 1991

Arthur Doak
Federal Communications Commission
FM Branch
1919 M Street, NW
Washington, D.C. 20054

RE: NCE-FM/TV Ch 6 protection
47 CFR 73.525(c)

Dear Mr. Doak:

I'm sorry that I've missed you via the telephone and with the coming holiday I thought I might just as well contact you by mail.

I am working for a client who wishes to apply for a non-commercial FM facility which will be located nearby an existing TV channel 6 station. To comply with section 73.525(c) of the FCC's rules, I must determine the number of residents inside the NCE-FM/TV 6 interference area.

Does the FM Branch have a policy with regard to the population counting methodology? If such policy exists, would you please send it to me. If no policy exists, I propose to use the 1990 census, BLOCK level grid database to demonstrate that this proposal is in compliance with the above rule. The BLOCK level is the smallest increment available using the 1990 census; in contrast to the 1980 census which only had a BLOCK GROUP division. Is this proposed method acceptable?

Sincerely,

Dwight R. Magnuson

DWIGHT R. MAGNUSON, P.E.
Consulting Engineer

December 2, 1991

Arthur Doak
Federal Communications Commission
FM Branch
1919 M Street, NW
Washington, D.C. 20554

Re: Telephone conversation of
December 2, 1991

Dear Mr. Doak:

Thank-you for calling in response to my letter of
November 27, 1991.

In my letter I asked if a methodology for determining
the population within the NCE-FM/TV6 interference area
existed in the FM Branch. In our telephone conversation you
said that the Commission did not have a methodology or
policy that you could provide. We then discussed my
proposal of using the 1990 census block level grid database
if no policy existed.

I understand that you consulted with Dale Bickle and
that he advised that using the 1990 census (block level) was
an acceptable method for determining the population within
the channel 6 interference area.

I agreed to summarize our conversation and that I was
going to pass it on to Nationwide Communications, Inc.,
licensee of WATE-TV6. We concluded our conversation with
you asking me to encourage Nationwide to call you if they
had any questions.

Sincerely,

Dwight R. Magnuson

cc T. Lawson, CCCC
B. Williams, WATE

DWIGHT R. MAGNUSON, P.E.
Consulting Engineer

December 11, 1991

Bob Williams, Chief Engineer
WATE-TV6
P.O. Box 2349
Knoxville, TN 37901

Re: NCE-FM, Briceville, TN and
NCE-FM, Pioneer, TN

Dear Bob:

Cumberland Communities Communications Corporation desires to proceed with the two NCE-FM applications for Briceville and Pioneer. Our studies of channel 210 for Briceville and of channel 207 for Pioneer indicate that these proposals comply with the Commission's rules and regulations.

Cumberland's proposal to use the 1990 census block level population data to demonstrate compliance with 73.525(c) has also been approved by the FM Branch.

Cumberland believes that these two proposals will be favorably received by the Commission and, again, requests that WATE provide a letter to Cumberland stating that WATE has no objections to either proposal.

Sincerely,

Dwight R. Magnuson, P.E.

cc. Tony Lawson, Cumberland Communications
Robert S. Stone, Counsel to Cumberland

EXHIBIT IX

ENVIRONMENTAL ASSESSMENT

The instant proposal is categorically excluded from environmental processing since none of the conditions of Section 1.1306(b)(2) and (3) would be involved for the following reason:

- 1) The proposed site is not in or near any location referenced in Section 1.1306(b)(1) as being of environmental interest,
- 2) The provisions of Section 1.1306(b)(2) regarding the use of high intensity strobe lighting does not apply since the tower height proposed with this application does not require this form of lighting to be utilized and,
- 3) The proposed operation will be well within the FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation as detailed in OST Bulletin No. 65, October, 1985.

As an additional precaution to prevent unauthorized or accidental exposure to radiofrequency radiation, a fence will be erected completely surrounding the antenna tower base. The fence will be a "chain-link" type topped with barbed wire. The fence will be over seven feet in height and a single entry gate will be padlocked to prevent unauthorized entry.

At any time that it is necessary for engineers, technicians, service personnel, or others to be in the immediate area of the transmitting antenna, applicant states that power will be reduced or operation will cease to protect these individuals and prevent exposure to high radiofrequency radiation levels.

DOCUMENT OFF-LINE

This page has been substituted for one of the following:

- o An oversize page or document (such as a map) which was too large to be scanned into the RIPS system.
- o Microfilm, microform, certain photographs or videotape.
- o Other materials which, for one reason or another, could not be scanned into the RIPS system.

The actual document, page(s) or materials may be reviewed by contacting an Information Technician. Please note the applicable docket or rulemaking number, document type and any other relevant information about the document in order to ensure speedy retrieval by the Information Technician.

1 map - Pioneer, TN