

Village of Trumansburg)

Tompkins County) SS.

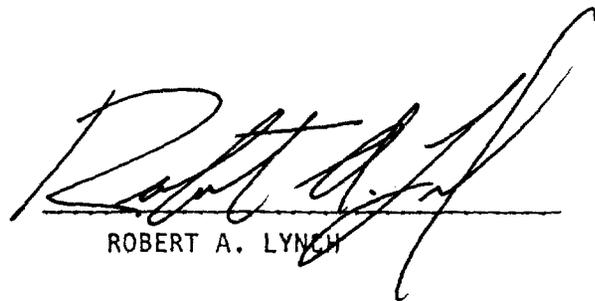
State of New York)

Robert A. Lynch, being duly sworn upon his oath, deposes and states that:

He is an employee and a consultant with the firm Independent Broadcast Consultants, Inc., with offices at 110 County Road 146, Trumansburg, New York 14886-9721.

His qualifications are a matter of record with the Federal Communications Commission, having filed numerous technical reports with them in the past and having participated in other technical projects and applications which have been accepted for filing and subsequently were granted construction permits.

That facts contained in this report subscribed by him are true of his own personal knowledge, except those stated on information and belief, and those facts he verily believes to be true.



ROBERT A. LYNCH

Subscribed and sworn before me this 7th day of August, 1992.



NOTARY PUBLIC
BARBARASUE DARRAH
Notary Public Duly Authorized
In Tompkins County 4921209
My Commission Expires March 7, 1994

NAZARETH COMMUNICATIONS, INC.

Proposed New NCE FM Station
Williamston, SC
Ch. 203C2; 50kW, DA, 91m AAT

ENGINEERING STATEMENT

This report has been prepared on behalf of Nazareth Communications, Inc. in support of its application for construction permit to build and operate a new, non-commercial educational FM broadcast station on Channel 203C2 (88.5 MHz.) with 50 kilowatts effective radiated power at 91 meters above average terrain to serve Williamston, South Carolina. This application is being tendered in response to a filing window established by the Commission due to close August 11, 1992 concerning the application of Toccoa Falls College for a new non-commercial educational FM station on Channel 203C2, file number BPED-920113ML, to be licensed to Belton, SC. As such, both this application and BPED-920113ML are mutually-exclusive.

ALLOCATION ANALYSIS:

To demonstrate the lack of prohibited contour overlap with any licensed or proposed broadcast station, aside from the mutually-exclusive BPED-920113ML, the following included exhibits have been prepared:

FIGURE 5, Pages 1-3: A commercially-prepared channel study dated August 5,

1992, including all licensed or proposed FM facilities from Channels 200 (87.9 MHz.) through 206 (89.1 MHz.) within 250 kilometers of the proposed Ch. 203C2 site. This study covers the pertinent range of frequencies for all co-channel or adjacent channel stations to this proposal. From among these listings, certain facilities were identified as warranting contour protection engineering analysis in accordance with paragraph 73.509 of the Rules:

WSBF-FM (Licensed)	Clemson, SC	Ch. 201A
WGWG (Application BPED-910531ME)	Boiling Springs, NC	Ch. 202C2
WGWG (Licensed)	Boiling Springs, NC	Ch. 202C2
WUOZ (CP BPED-900618MD)	Belvedere, SC	Ch. 202C2
WRAS (Licensed)	Atlanta, GA	Ch. 203C1
WFDD (CP BPED-881230MB)	Winston-Salem, NC	Ch. 203C1
WNCW (Licensed)	Spindale, NC	Ch. 204C
WYFV (Licensed)	Cayce, SC	Ch. 204A
WNSC-FM (Licensed)	Rock Hill, SC	Ch. 205C1
WMSL (Licensed)	Athens, GA	Ch. 205A

Also, as indicated on FIGURE 5, Page 3, a similar computer search was undertaken for the pertinent I.F.-related channels, Ch. 256-257 (99.1 MHz. & 99.3 MHz.) within a 50-kilometer radius of this proposal, and no licensed or proposed facilities were found. Since the most restrictive I.F. limitation (C2 to Class C) is 40 km, compliance with all I.F. spacing rules is assured.

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WSBF-FM (Licensed)	Clemson, SC	Ch. 201A
WGWG (Application BPED-910531ME)	Boiling Springs, NC	Ch. 202C2
WGWG (Licensed)	Boiling Springs, NC	Ch. 202C2

FIGURE 6A: A photoreduced portion of a World Aeronautical Chart providing site locations, protected and interfering contours for this proposal, that of mutually-exclusive BPED-920113ML, and those facilities or proposals sited on the previous page. Also shown are the site location, protected 60dBu and interfering 54dBu contours of WHGG, Knoxville, TN under construction permit BPED-861015SY and application BPED-900220IF, both for Ch. 202, class C2 and C3 respectively. Although these facilities did not show up in the latest channel search, they have appeared in previous studies, and are shown here for demonstration purposes regardless of their present status. In all instances on this map, this proposal for Ch. 203C2 would not contribute nor receive prohibited overlap aside from that with its mutually-exclusive application.

FIGURE 6B: A photoexpanded portion of the same map detailing the contour clearance between this proposal's 60dBu contour and the interfering 54dBu contour of first-adjacent WGWG, Boiling Springs, NC under application BPED-910531ME. As such, this exhibit complies with Commission directives to provide a map with a larger scale when further detail is required to prove lack of prohibited overlap.

FIGURES 7A & 7B: A printout of a computer-generated terrain averaging program for the proposed site, and then a manually-prepared tabulation of HAAT and service contours for this proposal at all standard bearings and those supplemental bearings required for allocation analysis. The terrain study employs the NGDC 30-second database.

FIGURES 8A - 8H: Terrain studies (where necessary) and contour calculations for those other facilities and proposals evaluated in this analysis; in succession, WRAS, WFDD-CP, WGWG (Licensed), WGWG (Proposed), WUOZ (CP), WNCW, WSBF and WNSC-FM. For all other non-mutually-exclusive facilities, uniform terrain and contours are assumed.

FIGURE 9: A tabulation of terrain data and service contours for the Ch. 203C2 application of Toccoa Falls College under BPED-920113ML, based upon data provided in that application's engineering.

Since FIGURE 6B indicates close clearance of the proposed 60dBu and WGWG (App.) interfering contours, despite the expanded scale, further mathematical analysis has been performed. FIGURE 5 indicates site-to-site distance between these proposals is 88.9 km @ 39.5°T from this proposal. The referenced tabulations indicate that in the span from 30°T to 50°T, the largest 60dBu contour distance for this proposal is

24.6 km at 50°T. Similarly, for WGWG (App.) in the span from 200°T to 235°T, the largest 54dBu contour distance is 63.8 km at 225°T. Adding "worst-case" contours (24.6 km + 63.8 km), one produces the sum of 88.4 km, a figure less than the closest site-to-site distance between the two locations. Thus, contour clearance is verified.

DIRECTIONAL ANTENNA:

The applicant proposes to use a Shively Labs 6810-3-DA three-bay, circularly-polarized directional FM antenna side mounted on a pole approximately 12 meters tall and placed atop a uniform cross-section guyed steel tower 85 meters (280') in height. This antenna will be mounted, oriented, and tested in accordance with manufacturer's instructions. The antenna will not be mounted at the same level as any other antenna (none others are currently proposed.) The tower would not include any top-mounted platform in contravention of § 73.316(c)(6). The applicant further expresses its willingness to comply with any and all requirements the Commission may attach to this installation, including that for certification of proper installation by a licensed surveyor and qualified engineering personnel.

FIGURE 1: A vertical plane sketch of the proposed antenna and supporting structure. The applicant proposes use of 99.1 meters (325') of Cablewave HCC300-50J air-dielectric transmission line.

FIGURE 4, Pages 1 - 5: A report by Mr. Robert A. Surette, Manager of RF Engineering, Shively Labs, providing tabulations, graph representation, and all other technical information required by § 73.316 of Commission rules to properly evaluate the compliance of this antenna with Commission standards.

TV-6 INTERFERENCE STUDY:

Two television stations licensed to TV Channel 6 are located within the 246 km distance of this proposal, and are thus consider to be "affected" under § 73.525(a)(1):

WJBF(TV)	Augusta, GA	140.6 km @ 161.4°T
WATE-TV	Knoxville, TN	214.3 km @ 317.1°T

First, as to WATE-TV, with notified facilities of 100kW ERP(Vis.) at 454 meters above average terrain, assumption of uniform terrain produces a 47dBu Grade B contour of 114.3 km (71.0 miles). Under these circumstances, this proposal's interfering 53.5 dBu F(50,10) contour (see FIG. 10E; ignore adjustment for TV receiving directivity) would have to reach a distance of 100.0 km from its site to produce interference. Inspection of FIGURE 7B indicates that at the closest site-to-site azimuth, 315°T, the proposed station's 54dBu contour extends 33.8 km, and the 40dBu contour 78.9 km, both considerably less than the 100 km distance cited above. Thus, this proposal causes no interference to WATE-TV's Grade B contour.

As for WJBF-TV, Augusta, a more complicated analysis is required. As FIGURE 10 of this filing indicates, this proposal contributes interference within the calculated Grade B contour of WJBF(TV), but solely to areas outside WJBF's Grade A contour and outside the Augusta, GA Area of Dominant Influence (ADI); see FIGURE 10B. However, in accordance with § 73.525(e)(3)(iii), much of this interference area may be excluded as it falls within the 80dBu "City Grade" contour of WAXA(TV), Channel 40, Anderson, SC. As of this date, according to contacted station personnel, both WJBF and WAXA are exclusive affiliates of the ABC television network. As a result, the only areas of recognized FM/TV-6 interference from this proposal lie within two narrow slices of rural area in Laurens County (Interference Area "A") and Abbeville County (Interference Area "B"). The following exhibits provide documentation of compliance with § 73.525(c):

FIGURE 10A: A computation of total population within the two FM/TV-6 interference areas, utilizing 1990 U.S. Census data and standard Commission procedures (§ 73.525(e)(2)). Under this method, total interference area population numbers 557 persons, well below the 3,000 person threshold established by § 73.525(c.)

FIGURE 10A: Connected portions of U.S. Census Minor Civil Division maps, on which are located the proposed Ch. 203C2 antenna site; the sites of both WJBF(TV) and WAXA(TV); terrain radials used for contour calculation for WJBF and this proposal respectively; signal strength contours in increments of one dBu for WJBF; the 80dBu "City Grade" WAXA(TV) contour; and the FM/TV-6 Interference Areas "A" and "B."

FIGURE 10C: An expanded portion of the same map, showing the two interference areas in greater detail. From this map, planimetric analysis was performed to indicate community sizes and proportionate areas receiving interference.

FIGURE 10D: A tabulation of manually-computed interference contours for this proposal at those azimuths toward WJBF(TV) for which terrain was calculated. Contours were calculated for incremental units of WJBF(TV) signal strength within which interference might be received outside of WAXA(TV)'s 80dBu contour.

FIGURE 10E: A table based on § 73.599 of the Rules providing designation of each interfering Ch. 203 interference contour for each corresponding TV-6 coverage contour from 62dBu to 47dBu.

FIGURE 10F: A printout of a computer-generated terrain averaging program for WJBF(TV), employing the NGDC 30-second database from ground level at the station's designated coordinates.

FIGURE 10G, Pages 1 & 2: A manually-calculated tabulation of signal strength contours in both kilometers and then miles for all WJBF(TV) contours from 62dBu to 47dBu at designated azimuths toward the proposed Ch. 203C2 station.

FIGURE 10H: A printout of a computer-generated terrain averaging program for WAXA(TV) at its designated coordinates, employing the NGDC 30-second database.

FIGURE 10I: A printout of a computer-generated set of service contours for WAXA(TV), based on terrain in the previous exhibit, and WAXA's designated facilities.

RADIOFREQUENCY EMISSION COMPLIANCE:

Utilizing the procedures and formulas established by OST Bulletin No. 65, an analysis has been performed evaluating this proposal's compliance with radiofrequency emission criteria outlined in § 1.1305 and § 1.1307 of the Rules. Assuming worst-case conditions of full ERP (vertical & horizontal) being radiated at ground level, the formulas indicate maximum ground-level power density from this proposal would total 0.4218 mw/cm², or just 42.18% of the 1 mw/cm² allowed for facilities of this type.

The applicant proposes a one-story transmitter building with roof no higher than 20 feet (6 meters) AGL. Thus, at building rooftop level, calculated RF power density would equal 0.4850 mw/cm², or 48.50% of the 1 mw/cm² allowable limit. Thus safety for those working at rooftop level is assured. The applicant further states that should work be performed on the tower above rooftop level (or above 6 m AGL, whichever is higher), the transmitter will be de-activated for the duration of those repairs.

OTHER EXHIBITS:

The following additional exhibits are provided with this application:

FIGURES 2A & 2B: A full-size portion of the Fork Shoals, SC USGS 7½-min. topo map, and then a photoreduced copy of that entire map, both designating the proposed transmitter site, and carrying distance scales in miles and kilometers. Terrain data on these maps is provided in meters.

FIGURES 3A & 3B: A copy of FAA application form 7460-1 filed with the Southern Regional Office this date, and then a portion of an aeronautical sectional chart on which this proposed antenna site is designated along with pertinent airways and airports and a distance scale in miles and

kilometers. As shown, there are no designated landing areas within 8 kilometers of this site.

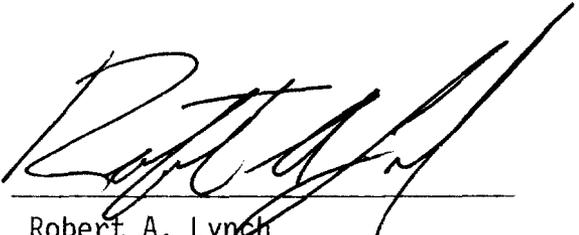
FIGURE 11: Connected photoreduced portions of USGS 1:250,000 scale topo maps on which is designated the proposed antenna site; radials on which terrain data were gathered; the proposed 60dBu coverage contour; distance scales in kilometers and miles; site coordinates; the boundaries (shaded within) of Williamston; and the estimates of area and population within the predicted 60dBu contour.

EFFECTIVE RADIATED POWER:

Effective radiated power for this proposal was calculated using the following gain/loss figures:

Transmitter power output:	+ 13.55 dBk	22.65 kW
Transmission line loss:	- 0.40 dB	99.1m (325') HCC300-50J (F= .912)
Power input to antenna:	+ 13.15 dBk	20.65 kW
Antenna gain:	+ 3.84 dB	Shively 6810-3-DA (PG = 2.42)
Effective Radiated Power:	+ 16.99 dBk	50.0 kW

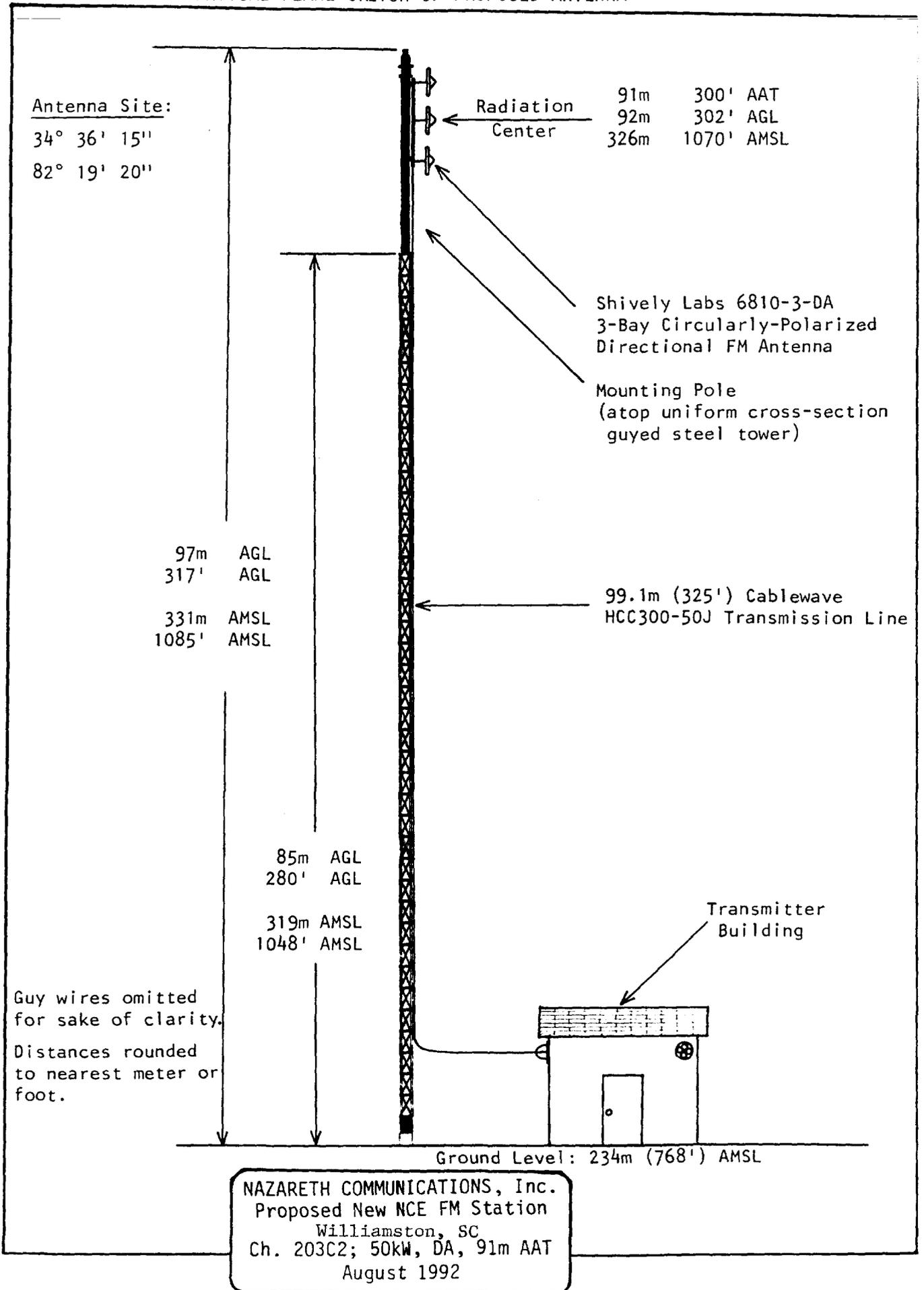
August 7, 1992



Robert A. Lynch
Consulting Engineer

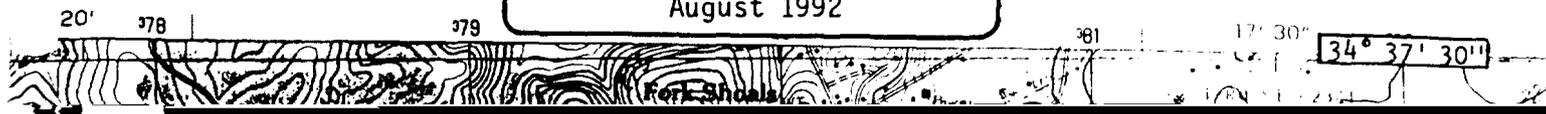
FIGURE 1

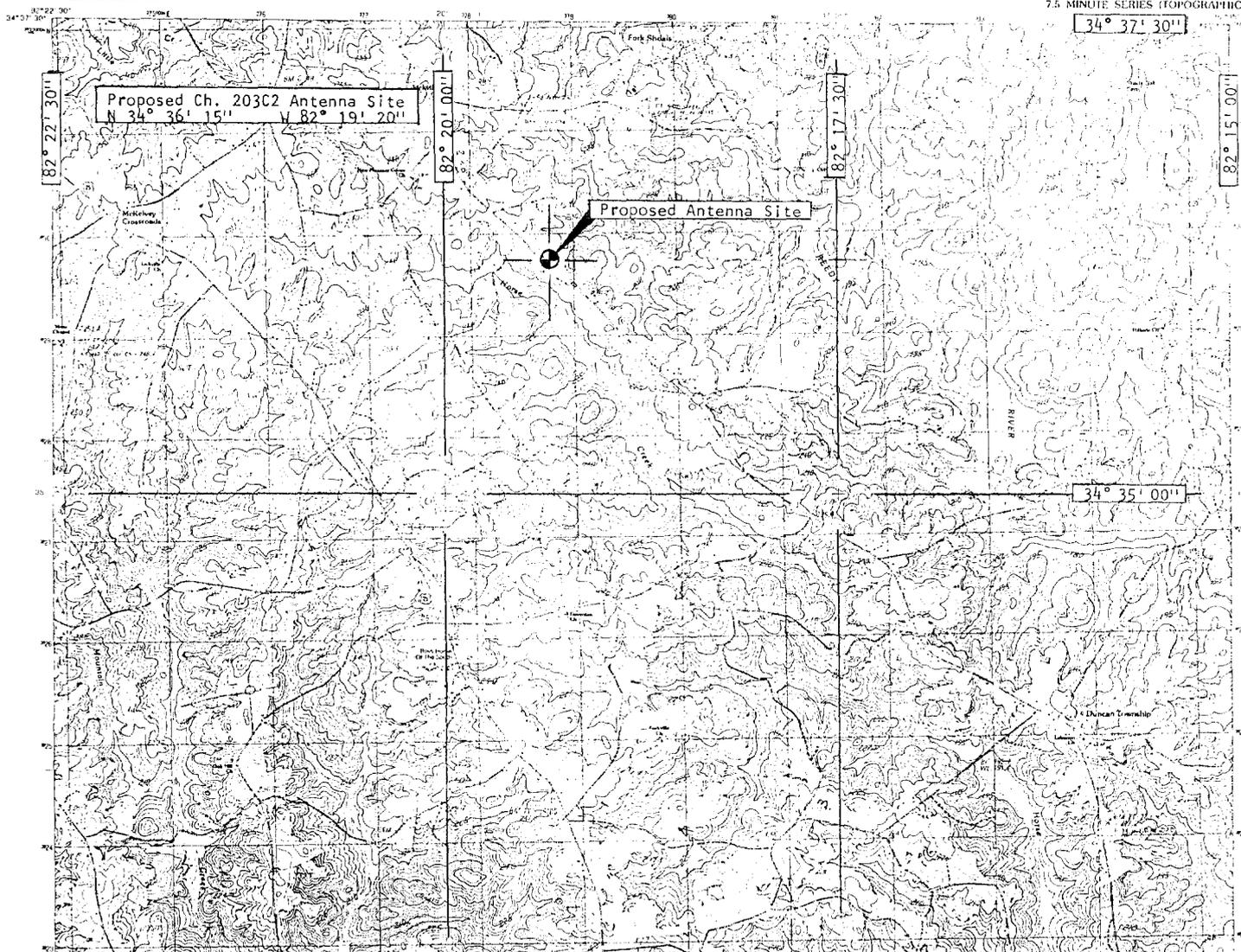
VERTICAL PLANE SKETCH OF PROPOSED ANTENNA



NAZARETH COMMUNICATIONS, Inc.
Proposed New NCE FM Station
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August 1992

FIGURE 2A





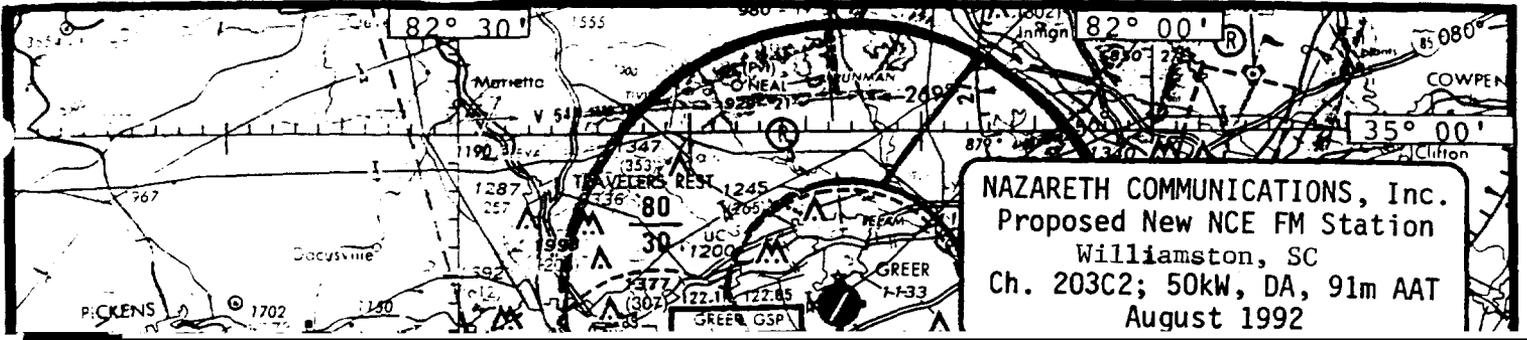
DO NOT REMOVE CARBONS

Form Approved OMB No. 2120-000

 US Department of Transportation Federal Aviation Administration	NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION	Aeronautical Study Number
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1. Nature of Proposal			2. Complete Description of Structure	
A. Type <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration	B. Class <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary	C. Work Schedule Dates Beginning <u>Upon FCC grant</u> End <u>Within 90 days</u>	A. Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure	

FIGURE 3B



Shively Labs, a division of Howell Laboratories, Inc.

BRIDGTON, MAINE 04009
TWX 710-223-8910 SHIVELY BRGT

(207) 647-3327
FAX (207) 647-8273

Report of Test 6810-3-DA
NAZARETH COMMUNICATIONS, INC.
New FM at Williamston, South Carolina

OBJECTIVE:

The objective of this report is to demonstrate the directional characteristics of a 6810-3-DA antenna to meet the needs of a new FM and to meet the requirements of the FCC in accordance with the provisions of Section 73.316(h) of the FCC rules. the composite

Test Report 6810-3-DA
NAZARETH COMMUNICATIONS, INC.
Page Two

EQUIPMENT:

The scale model pattern range consists of a wooden rotating pedestal equipped with a position indicator. The scale model bay is placed on the top of this pedestal and is used in the transmission mode at approximately 20 feet above ground level. The receiving corner reflector is spaced 50 feet away from the rotating pedestal at the same level above ground as the transmitting model. The transmitting and receiving signals are carried to a control building by means of RG-9/U double shielded coax cable.

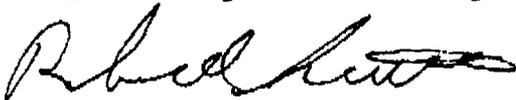
The control building is equipped with:

Hewlett Packard Model 8505 Network Analyzer
Hewlett Packard Model 16 Series 200 Computer
Hewlett Packard 9122 Dual Disc Drive
Hewlett Packard 7475A Plotter

TEST PROCEDURES:

The corner reflector is mounted so that the horizontal and vertical azimuth patterns are measured independently by rotating the corner reflector by 90 degrees. The signal generator was set to 466.65 MHz. The network analyzer is tuned to that frequency. Calibrated pads were used to check the linearity of the measuring system. For example, 6 dB padding yields a scale reading of 50 from an unpadding reading of 100 in voltage. From the recorded patterns, the R.M.S. values are calculated and recorded as shown in Figure 1.

Respectfully submitted by,



Robert A. Surette
Manager of RF Engineering
Inquiry No. 930080
August 4, 1992

NAZARETH COMMUNICATIONS, Inc.
 Proposed New NCE FM Station
 Williamston, SC
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 August 1992

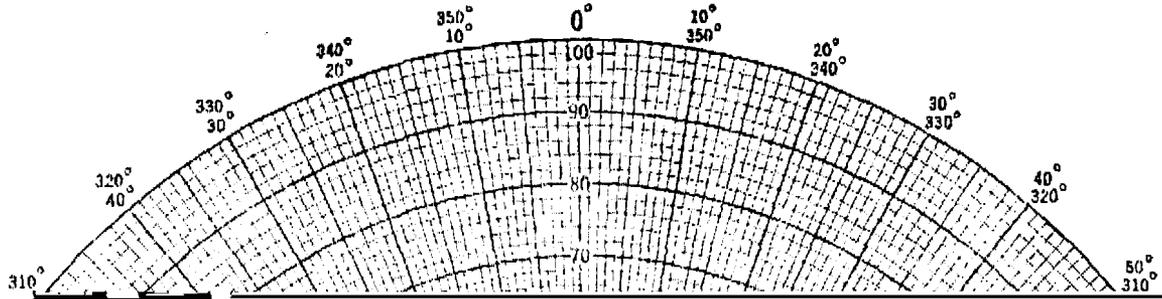
**TABULATION OF COMPOSITE PATTERN
 NEW FM STATION AT WILLIAMSTON, SC**

DEGREE	RELATIVE FIELD	DEGREE	RELATIVE FIELD
0	0.220- MINIMA (from 350°T)	180	1.000
10	0.260	190	1.000
20	0.300	200	1.000
30	0.280	210	1.000
40	0.290	220	1.000
45	0.300	225	1.000
50	0.320	230	1.000
60	0.380	240	1.000
70	0.475	250	1.000
80	0.595	260	1.000- MAXIMA (from 110°T)
90	0.745	270	0.890
100	0.935	280	0.715
110	1.000- MAXIMA (to 260°T)	290	0.570
120	1.000	300	0.455
130	1.000	310	0.365
135	1.000	315	0.320
140	1.000	320	0.290
150	1.000	330	0.250
160	1.000	340	0.230
170	1.000	350	0.220- MINIMA (to 0°T)

Shively Labs

PROJECT NAME New, Williamston, S. Carolina
PROJECT NUMBER 930080 DATE 8/4/92

ANTENNA TYPE 6810-3-DA
PATTERN TYPE Directional Azimuth



FIELD ELEVATION PATTERN

ANT. MFG.: SHIVELY LABS

ANT. TYPE: 6810-3-DA

STATION: NEW

FREQ: 88.5 MHz CHAN: 203

Power Gain: 2.42 - 3.84 dB

DATE: 08/04/92

FIGURE NO.:

NAZARETH COMMUNICATIONS, Inc.
Proposed New NCE FM Station
Williamston, SC
Ch. 203C2; 50kW, DA, 91m AAT
August 1992

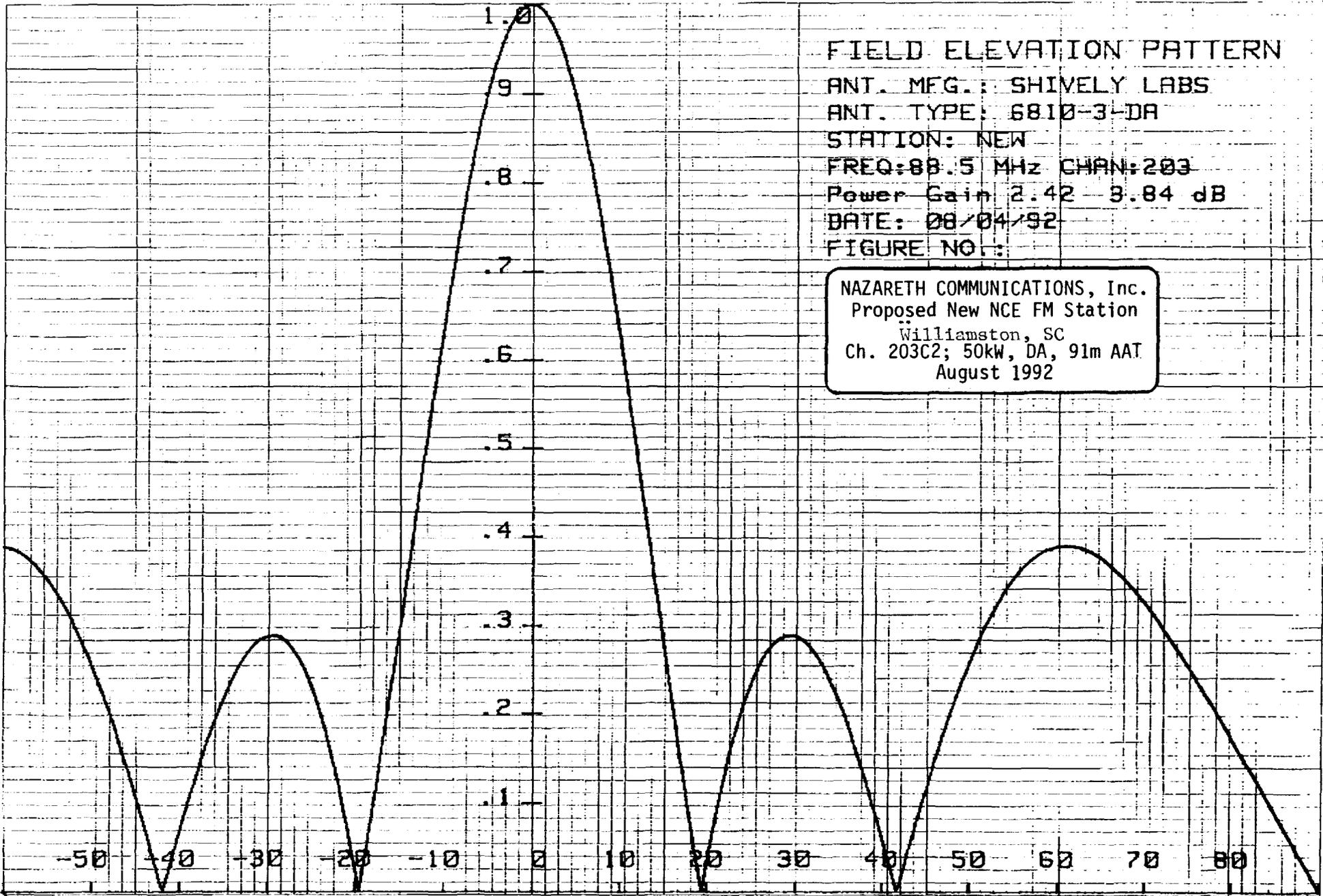


FIGURE 4 Page 5

INDEPENDENT BROADCAST CONSULTANTS, INC.
TRUMANSBURG, NEW YORK

Page 1
August 5, 1992

FM within 250.0 km

Title: Williamston, SC
Channel 200 to 206
Database: DW 08/05/92

Latitude: 34-36-15
Longitude: 82-19-20

Call City of license	Auth Licensee name St FCC file no.	Channel freq	H-kW H-m	V-kW V-m	Latitude Longitude	Br-to -from	Dist (km)
WNDN-FM	APC NEW HORIZONS FOUNDATION, *200D	87.9	.010	.010	35-27-01	58.0	180.4
CONCORD	NC BPED-910510MB	87.9	30	30	80-38-05	239.0	

Ordered by FCC release #14897 dated 05/28/91. Call log 08/15/91 A-224. PGM 1

INDEPENDENT BROADCAST CONSULTANTS, INC.
TRUMANSBURG, NEW YORK

FM within 250.0 km

Title: Williamston, SC
Channel 200 to 206
Database: DW 08/05/92

Latitude: 34-36-15
Longitude: 82-19-20

Call	Auth	Licensee name	Channel	H-kW	V-kW	Latitude	Br-to	Dist
City of license	St	FCC file no.	freq	H-m	V-m	Longitude	-from	(km)
WPGB	CP	BLOUNTVILLE EDUC ASSOCIA	*202C2	1.00	1.00	36-27-30	5.7	206.8
BLOUNTVILLE	TN	BPED-8404041A	88.3	552	552	82-05-30	185.8	
CP Granted 04/02/90 per FCC release #20828 dated 04/10/90; CHANGE COMMUNITY OF LICENSE TO KINGSPORT, TN; Call Granted 06/01/90 per FCC release #135 dated 06/01/90								
WPGB	APP	BLOUNTVILLE EDUC ASSOCIA	*202C2	1.00	1.00	36-27-30	5.7	206.8
KINGSPORT	TN		88.3	552	552	82-05-30	185.8	
Tendered per FCC release #15111 dated 10/23/91; CHANGE COMMUNITY OF LICENSE FROM BLOUNTVILLE, TN								
WECE	CP	ERSKINE COLLEGE	*203C2	20.0	17.1DA	34-29-54	164.7	12.2
DUE WEST	SC	BPED-851231MZ	88.5	91	91	82-17-14	344.8	
CP Granted 08/06/87; CP IS HEREBY FORFEITED 3/22/91; Call Granted 09/30/87								
NEW	APC	TOCCOA FALLS COLLEGE	*203C2	50.0	50.0DA	34-23-43	214.6	28.2
BELTON	SC	BPED-920113ML	88.5	91	91	82-29-49	34.5	
Tendered per FCC release #15274 dated 05/28/92; Cut-off 08/11/92 A-240								
WRAS	LIC	GEORGIA STATE UNIVERSITY	*203C1	100	100	## 33-41-04	241.1	208.2
ATLANTA	GA	BLED-870417KD	88.5	133	133	84-17-23	60.0	
WFDD	CP	WAKE FOREST UNIVERSITY	*203C1	38.0	38.0	## 35-55-02	51.0	235.2
WINSTON-SALEM	NC	BPED-881230MB	88.5	346	346	80-17-37	232.2	
CP Granted 12/06/89; Was WFDD-FM 09/23/87								
WFDD	LIC	WAKE FOREST UNIVERSITY	*203C1	100	100	36-05-35	47.7	248.8
WINSTON-SALEM	NC	BLED-820921AM	88.5	118	118	80-16-31	228.9	
Was WFDD-FM 09/23/87								
WNCW	LIC	ISOTHERMAL COMMUNITY COL	*204C	17.0	10.5DA	##35-44-05	1.5	125.5
SPINDALE	NC	BLED-891002KA	88.7	931	931BT	82-17-10	181.5	
License Granted 01/23/90 per FCC release #20782 dated 02/05/90; Call Granted 03/31/87								
WYFV	LIC	BIBLE BROADCASTING NETWO	*204A	.15	.15	## 33-55-22	123.2	137.3
CAYCE	SC	BLED-901022KI	88.7	43	43	81-04-42	303.9	
License Granted 07/22/91 per FCC release #21172 dated 07/26/91; Call Granted 07/25/90 per FCC release #139 dated 07/27/90								
WNSC-FM	LIC	SOUTH CAROLINA ED TV COM	*205C1	97.0	97.0	## 34-50-24	77.2	122.2
ROCK HILL	SC		88.9	183	183	81-01-07	258.0	
WMSL	LIC	PRINCE AVE BAPTIST CHRIS	*205A	1.33	1.33	## 33-54-25	234.6	132.7
ATHENS	GA	BLED-871021KG	88.9	100	100	83-29-35	53.9	
Was WPBS 09/16/87								

Facilities or proposals deemed close enough to proposed Ch. 203C2 to be given contour protection analysis.

INDEPENDENT BROADCAST CONSULTANTS, INC.
TRUMANSBURG, NEW YORK

Page 3
August 5, 1992

FM within 250.0 km

Title: Williamston, SC
Channel 200 to 206
Database: DW 08/05/92

Latitude: 34-36-15
Longitude: 82-19-20

Call	Auth	Licensee name	Channel	H-kW	V-kW	Latitude	Br-to	Dist
City of license	St	FCC file no.	freq	H-m	V-m	Longitude	-from	(km)
WXGC	LIC	GEORGIA COLLEGE	*205D	.010		33-04-44	206.6	189.0
MILLEDGEVILLE	GA		88.9			83-13-55	26.1	
NEW	APP	MIDDLE GA COMMUNITY RAD	*205C2	9.00	9.00	32-50-43	213.0	231.9
MACON	GA		88.9	136	136	83-40-28	32.2	
NEW	APC	HOLY SPIRIT HARVEST CHUR	*205C2	12.0	12.0	32-46-55	212.4	238.8
MACON	GA	BPED-870417MB	88.9	110	110	83-41-39	31.7	
Cut-off 04/19/88 A-143; Hearing DOC-92-110, adopted 05/05/92, released 05/14/92								
WLJK	LIC	SC EDUCATIONAL TV COMMIS	*206C1	10.0		33-24-18	161.3	140.3
AIKEN	SC	BLED-890814KA	89.1	377		81-50-15	341.6	
License Granted 05/31/90 per FCC release #20874 dated 06/06/90; Call Granted 02/13/89								
WBCX	LIC	BRENAU COLLEGE	*206A	.83	.83	34-19-01	257.4	142.1
JAINESVILLE	GA	BLED-851202KD	89.1	166	166	83-49-45	76.6	
WYLV	CP	FOOTHILLS BROADCASTING I	*206A	.080	3.00	35-47-47	312.5	197.9
ALCOA	TN	BMPED-8811301	89.1	31	31	83-56-17	131.6	
CP Granted 04/20/90 per FCC release #20842 dated 04/26/90								
WYLV	APC	FOOTHILLS BROADCASTING,	*206C3	.73		36-00-13	317.1	214.1
ALCOA	TN	BPED-920128MJ	89.1	303		83-56-37	136.1	
Tendered per FCC release #15189 dated 02/06/92; Cut-off 05/11/92 A-235								

>> End of FM within 250.0 km <<

NOTE: WECE-CP, Ch. 203C2, Due West, SC is, as noted, a forfeited CP; it is not considered in allocation analysis.

New APC of Toccoa Falls College for Ch. 203C2 at Belton, SC is mutually-exclusive with this application.

I.F. CHANNEL SPACINGS:

A computer search of Commission database (08-07-92) reveals no licensed or proposed FM facilities on Channels 256 (99.1 MHz.) or 257 (99.3 MHz.) within 50 km. of this proposal. Thus, all pertinent I.F. protection requirements for this Class C2 proposal are met.

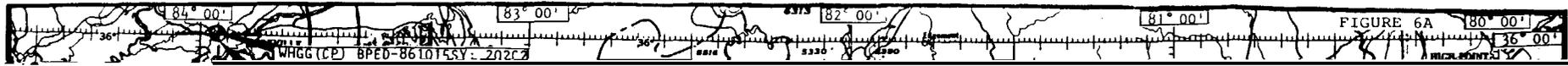
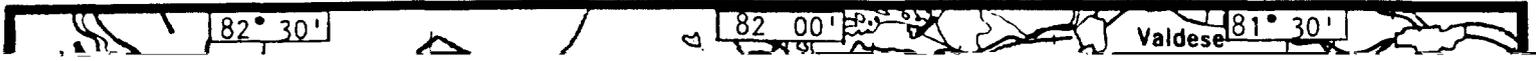


FIGURE 6B



Terrain Averages from NGDC 30-second Topographic database

Job Title: WILLIAMSTON, SC

Latitude: 34-36-15
Longitude: 82-19-20

Bearing (Degrees true)	3.0 to 16.0 kilometer average terrain elevation (meters)	3.0 to 16.0 kilometer average terrain elevation (feet)
.0	239.4	785.4
* 10.0	243.1	797.6
* 20.0	240.1	787.7
* 30.0	242.0	794.0
* 40.0	244.2	801.2
45.0	246.2	807.7
* 50.0	249.2	817.6
* 60.0	246.4	808.4
* 70.0	241.0	790.7
* 80.0	234.2	768.4
90.0	226.7	743.8
135.0	204.0	669.3
* 150.0	207.0	679.1
* 165.0	228.9	751.0
180.0	224.5	736.5
* 195.0	222.5	730.0
* 210.0	229.9	754.3
225.0	230.0	754.6
* 241.0	234.6	769.7
270.0	246.8	809.7
* 280.0	248.8	816.3
* 290.0	253.3	831.0
* 300.0	251.6	825.5
* 310.0	258.3	847.4
315.0	260.2	853.7
* 320.0	257.9	846.1
* 330.0	256.5	841.5
* 340.0	254.2	834.0
* 350.0	248.0	813.6
Average:	234.7	770.0

* = Radial not included in average

Average (9) radials:	234.4	769.0
Average (12) radials:	234.2	768.4
Average (18) radials:	234.6	769.7
Average (24) radials:	235.0	771.0
Average (36) radials:	235.3	772.0
Average (72) radials:	235.4	772.3

PREDICTED SERVICE/INTERFERENCE CONTOURS

Nazareth Communications, Inc.
 Proposed New NCE FM Station
 Williamston, SC

PROPOSED FACILITIES:
 Ch. 203C2 (88.5 MHz.)
 50.0kW (H&V), DA, 91m AAT
 Radiation Ctr: 326.1m (1070') AMSL

Proposed Site Coordinates:
 N 34° 36' 15"
 W 82° 19' 20"

BEARING (°T)	AVERAGE TERRAIN (m & ft)	RAD. CTR. HAAT (m & ft)	EFFEC. RAD. POWER (kW & dBk)	PROTECTED/INTERFERING CONTOURS			
				PROTECTED	INTERFERING		
				F(50,50) 60dBu	F(50,10) 80dBu	F(50,10) 54dBu	F(50,10) 40dBu
0°T	239.4 m 785.4 ft	86.7 m 284.6 ft	2.42 kW 3.84dBk	21.2 km 13.2 mi	6.8 km 4.2 mi	31.9 km 19.8 mi	70.5 km 43.8 mi
10°T	243.1 m 797.6 ft	83.0 m 272.4 ft	3.38 kW 5.29dBk	22.9 km 14.2 mi	7.2 km 4.5 mi	34.1 km 21.2 mi	74.0 km 46.0 mi
20°T	240.1 m 787.7 ft	86.0 m 282.3 ft	4.50 kW 6.53dBk	24.6 km 15.3 mi	7.9 km 4.9 mi	37.8 km 23.5 mi	80.1 km 49.8 mi
30°T	242.0 m 794.0 ft	84.1 m 276.0 ft	3.92 kW 5.93dBk	24.0 km 14.9 mi	7.6 km 4.7 mi	35.1 km 21.8 mi	77.2 km 48.0 mi
40°T	244.2 m 801.2 ft	81.9 m 268.8 ft	4.21 kW 6.24dBk	24.1 km 15.0 mi	7.6 km 4.7 mi	35.9 km 22.3 mi	79.5 km 49.4 mi
45°T	246.2 m 807.7 ft	79.9 m 262.3 ft	4.50 kW 6.53dBk	24.1 km 15.0 mi	7.7 km 4.8 mi	36.5 km 22.7 mi	79.8 km 49.6 mi
50°T	249.2 m 817.6 ft	76.9 m 252.4 ft	5.12 kW 7.09dBk	24.6 km 15.3 mi	7.9 km 4.9 mi	37.5 km 23.3 mi	80.1 km 49.8 mi
60°T	246.4 m 808.4 ft	79.7 m 261.6 ft	7.22 kW 8.59dBk	25.9 km 16.1 mi	8.5 km 5.3 mi	41.2 km 25.6 mi	88.2 km 54.8 mi
70°T	241.0 m 790.7 ft	85.1 m 279.3 ft	11.30 kW 10.52dBk	30.3 km 18.8 mi	9.8 km 6.1 mi	47.8 km 29.7 mi	93.3 km 58.0 mi
80°T	234.2 m 768.4 ft	91.9 m 301.6 ft	17.70 kW 12.48dBk	35.4 km 22.0 mi	11.6 km 7.2 mi	54.9 km 34.1 mi	106.5 km 66.2 mi
90°T	226.7 m 743.8 ft	99.4 m 326.2 ft	27.75 kW 14.43dBk	40.4 km 25.1 mi	13.5 km 8.4 mi	63.7 km 39.6 mi	117.5 km 73.0 mi
135°T	204.0 m 669.3 ft	122.1 m 400.7 ft	50.00 kW 16.99dBk	48.4 km 30.1 mi	18.0 km 11.2 mi	73.2 km 45.5 mi	136.3 km 84.7 mi
150°T	207.0 m 679.1 ft	119.1 m 390.9 ft	50.00 kW 16.99dBk	48.0 km 29.8 mi	17.5 km 10.9 mi	72.4 km 45.0 mi	134.4 km 83.5 mi
165°T	228.9 m 751.0 ft	97.2 m 319.0 ft	50.00 kW 16.99dBk	44.7 km 27.8 mi	15.3 km 9.5 mi	67.9 km 42.2 mi	129.2 km 80.3 mi
180°T	224.5 m 736.5 ft	101.6 m 333.5 ft	50.00 kW 16.99dBk	45.7 km 28.4 mi	15.6 km 9.7 mi	69.5 km 43.2 mi	130.7 km 81.2 mi