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Please reply to JOHN CRIGLER
jcrigler@gsblaw.com TEL EXT 2521

FILED/ACCEPTED
AUG -5 2011
Federal Communications Commission
Office of the Secretary

August 5, 2011

VIA HAND DELIVERY

Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

Re: Joint Request for Approval of Settlement
Roanoke Valley Communications, Inc., Williamston, NC, BNPED-20071022AVD
Hampton Roads Educational Telecommunications Association, Inc.,
BPED-20030507ABV

Dear Ms. Dortch:

Roanoke Valley Communications, Inc. ("RVC"), and Hampton Roads Educational Telecommunications Association ("HRETA"), hereby submit the original and four copies of a "Joint Request for Approval of Settlement Agreement" whereby RVC and HRETA seek the Commission's approval of the attached Settlement Agreement.

If there are any questions concerning this submission, please contact this office directly.

Respectfully submitted,

for

John Crigler

JC:yg
Enclosures

DC_DOCS:703151.1

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington D.C. 20554

In re Applications of:	)	
	)	
Hampton Roads Educational Telecommunications Association, Inc.	)	
	)	
Application for a Minor Change to Noncommercial Educational FM, Station WHRO-FM, Norfolk, VA	)	File No. BPED-20030507ABV
	)	
Roanoke Valley Communications, Inc.	)	
	)	
Application for New Noncommercial Educational FM Station, Channel 213, at Williamston, NC	)	File No. BNPED-20071022AVD
	)	

To: Marlene Dortch, Secretary
Attn: Chief, Audio Division, Media Bureau

JOINT REQUEST FOR APPROVAL OF SETTLEMENT

Hampton Roads Educational Telecommunications Association, Inc. ("HRETA") and Roanoke Valley Communications, Inc. ("Roanoke Valley") (each a "Party" and, collectively, the "Parties"), by counsel and pursuant to Section 73.3525 of the Commission's Rules, hereby petition for FCC approval of the attached Settlement Agreement. As discussed below, the Agreement will expedite service to the public and conserve FCC resources and the resources of the Parties.

In support thereof, the following is shown:

1. HRETA's above-captioned application for a minor change to noncommercial educational FM station WHRO-FM, Norfolk, Virginia (the "WHRO-FM Application") is

mutually exclusive ("MX") with Roanoke Valley's above-captioned application for a new noncommercial educational radio station at Williamston, North Carolina (the "Williamston Application"). The Williamston Application was also mutually exclusive with applications for a new noncommercial educational FM station at Jamesville, North Carolina, in FCC File No. BNPED-20071015AEI (the "Jamesville Application"), and for a new noncommercial educational FM station at Oak City, North Carolina, in FCC File No. BNPED-20071019ABI (the "Oak City Application"); however, pursuant to a Settlement Agreement filed with the FCC on March 12, 2010, the mutual exclusivity between the Williamston Application, the Jamesville Application, and the Oak City Application was resolved by the dismissals of the Jamesville Application and the Oak City Application. In order to resolve the remaining mutual exclusivity with respect to each other's applications, HRETA and Roanoke Valley have reached a settlement agreement that will result in grantable applications for each.

2. Pursuant to the settlement agreement, Roanoke Valley will file an engineering amendment to the Williamston Application. In exchange for Roanoke Valley's filing of the amendment, HRETA will provide monetary consideration to cover a portion of Roanoke Valley's legitimate and prudent expenses associated with the preparing, filing, prosecution, and settling of the Williamston Application.

3. The Parties therefore respectfully request that the FCC: (1) approve the Settlement Agreement appended hereto; (2) grant HRETA's WHRO-FM Application; and (3) grant Roanoke Valley's Williamston Application, as amended.

4. Attached hereto as Exhibits A and B are the necessary declarations from each Party pursuant to Section 73.3525 of the Commission's rules.

5. Attached hereto as Exhibit C is the Settlement Agreement between HRETA and Roanoke Valley. The Agreement is executed by both parties, and its effectiveness is expressly conditioned upon prior FCC approval.

6. The Parties agree that, absent a settlement, the resolution the MX is likely to be protracted, expensive, subject to administrative delay and uncertainty, and a burden upon the Commission's and Parties' resources, as well as delaying or denying new and improved noncommercial radio service to the Williamston and Norfolk communities, respectively.

7. Approval of the attached Settlement Agreements will serve the public interest, convenience, and necessity and such approval will expedite the initiation of new and improved noncommercial radio service to the communities of Williamston, North Carolina and Norfolk, Virginia. In addition, approval of the attached Settlement Agreement will conserve scarce resources of the Parties (both of which are noncommercial educational applicants) and of the FCC.

8. Thus, this Settlement Agreement is consistent with Section 307(b) of the Communications Act of 1934, as amended, and will serve the public interest.

9. For the foregoing reasons, the Parties respectfully request that the FCC approve the attached Settlement Agreement and take the actions set forth in Paragraph 3 above.

[Remainder of Page Left Intentionally Blank]

Respectfully submitted,

HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOCIATION, INC.

By: Barry Persh
Margaret L. Miller
Barry S. Persh

DOW LOHNES PLLC
1200 New Hampshire Ave., N.W.
Washington, DC 20036-6802
202-776-2914
Its Attorneys

ROANOKE VALLEY COMMUNICATIONS, INC.

By: for
John Crigler

GARVEY, SCHUBERT BARER
5th Floor, Flour Mill Building
1000 Potomac Street, N.W.
Washington, DC 20007-3501
202-298-2521
Its Attorney

Dated: August 5, 2011

DECLARATION OF
HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOC., INC.

The undersigned declares and states under penalty of perjury as follows:

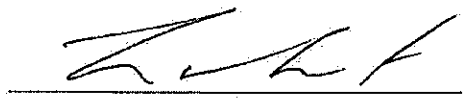
1. I am President and CEO of Hampton Roads Educational Telecommunications Association, Inc. ("HRETA"), applicant for a minor change to noncommercial educational radio Station WHRO-FM, Norfolk, Virginia, in FCC File No. BPED-20030507ABV (the "WHRO-FM Application").

2. HRETA entered into a Settlement Agreement, dated August 3, 2011 (the "Agreement"), with Roanoke Valley Communications, Inc. ("Roanoke Valley"), pursuant to which Roanoke Valley agrees to file a technical amendment to its application for a new noncommercial educational FM station at Williamston, North Carolina (the "Williamston Application"), and HRETA agrees to pay Roanoke Valley $45,000.00 to reimburse a portion of the reasonable and prudent expenses incurred by Roanoke Valley associated with the preparing, filing, prosecution, and settling of the Williamston Application.

3. Except as provided in the Agreement, neither HRETA nor its principals have directly or indirectly paid, received, promised or been promised any payment of any money or other consideration from any other party to the Agreement in connection with the matters described in the Agreement. Neither HRETA nor any of its principals have paid, received, promised, or been promised any money or other consideration in excess of its legitimate and prudent expenses.

4. HRETA's Application was not filed for the purpose of reaching or carrying out the Agreement or any agreement with any other party regarding dismissal or withdrawal of the WHRO-FM Application.

5. Approval of the Agreement will serve the public interest by conserving time and resources of the parties and the FCC and by hastening the initiation of new and improved noncommercial educational FM radio service to communities in Williamston, North Carolina and Norfolk, Virginia.



Name: Bert Schmidt
Title: President and CEO

Date: 08/03/2011

DECLARATION OF
ROANOKE VALLEY COMMUNICATIONS, INC.

The undersigned declares and states under penalty of perjury as follows:

1. I am President of Roanoke Valley Communications, Inc. ("Roanoke Valley"), applicant for a new noncommercial educational FM station at Williamston, North Carolina (the "Williamston Application"), in FCC File No. BNPED-20071022AVD.

2. Roanoke Valley entered into a Settlement Agreement, dated Aug 3, 2011 (the "Agreement"), with Hampton Roads Educational Telecommunications Association, Inc. ("HRETA"), pursuant to which Roanoke Valley agrees to file a technical amendment to its Williamston Application, and HRETA agrees to pay Roanoke Valley $45,000.00 to reimburse a portion of the reasonable and prudent expenses incurred by Roanoke Valley associated with the preparing, filing, prosecution, and settling of the Williamston Application.

3. Except as provided in the Agreement, neither Roanoke Valley nor its principals have directly or indirectly paid, received, promised or been promised any payment of any money or other consideration from any other party to the Agreement in connection with the matters described in the Agreement. Neither Roanoke Valley nor any of its principals have paid, received, promised, or been promised any money or other consideration in excess of its legitimate and prudent expenses. Itemization of Roanoke Valley's reasonable and prudent expenses as incurred in connection the preparing, filing, prosecution, and settling of its Williamston Application are as follows:

Engineering Costs (application): $8,712
Legal Costs (application, prosecution, settlement): $29,385
Antenna Upgrade Costs (to effectuate settlement and technical amendment): $153,824
Total: $191,921

4. Roanoke Valley's Application was not filed for the purpose of reaching or carrying out the Agreement or any agreement with any other party regarding dismissal or withdrawal of the Williamston Application.

5. Approval of the Agreement will serve the public interest by conserving time and resources of the parties and the FCC and by hastening the initiation of new and improved noncommercial educational FM radio service to communities in Williamston, North Carolina and Norfolk, Virginia.

Name: T.D. Worthington
Title: President

Date: 8/5/2011

SETTLEMENT AGREEMENT

This Settlement Agreement ("Agreement") is made this 3rd day of August, 2011, by and between HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOCIATION, INC. ("HRETA") and ROANOKE VALLEY COMMUNICATIONS, INC. ("Roanoke Valley") (each a "Party," and, collectively the "Parties").

WHEREAS, HRETA has applied to the Federal Communications Commission (the "FCC" or "Commission") for a minor change to the licensed facility of noncommercial educational FM station WHRO-FM, Norfolk, Virginia, FCC Facility ID No. 25940, in FCC File No. BNPED-20030507ABV (the "WHRO-FM Application");

WHEREAS, Roanoke Valley has applied to the FCC for authority to construct a new noncommercial educational FM station on 90.5 MHz at Williamston, North Carolina, FCC Facility ID No. 122715 (the "Williamston Station"), in FCC File No. BNPED-20071022AVD (the "Williamston Application");

WHEREAS, the Williamston Application was mutually exclusive with applications for a new noncommercial educational FM station at Jamesville, North Carolina, in FCC File No. BNPED-20071015AEI (the "Jamesville Application"), and for a new noncommercial educational FM station at Oak City, North Carolina, in FCC File No. BNPED-20071019ABI (the "Oak City Application");

WHEREAS, pursuant to a Settlement Agreement filed with the FCC on March 12, 2010, the mutual exclusivity between the Williamston Application, the Jamesville Application, and the Oak City Application was resolved by the dismissals of the Jamesville Application and the Oak City Application;

WHEREAS, the technical proposals of the WHRO-FM Application and the Williamston Application are mutually exclusive due to contour overlap;

WHEREAS, the Parties believe that this Agreement will be in the public interest in that it will resolve the mutual exclusivity between the WHRO-FM Application and Williamston Application, and thereby speed the inauguration of new and improved FM noncommercial broadcast services; and

NOW, THEREFORE, in consideration of the mutual covenants, agreements, conditions, representations and warranties contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties to this Agreement hereby agree as follows:

1. **Request for FCC Consent.** Within five (5) days after execution of this Agreement, the Parties, by their respective counsel, will file a Joint Request with the Commission pursuant to Section 73.3525 of the Commission's Rules (the "Joint Request"), which will request, among other things, that the Media Bureau: (a) grant the Joint Request and approve this Agreement; (b) grant the WHRO-FM Application; and (c) grant the Williamston Application, as amended. The Parties shall file with the Joint Request a copy of this Agreement

together with all supporting documentation required by Section 73.3525 of the Commission's Rules. The Parties agree that they will file and prosecute the Joint Request diligently and in good faith, including the timely submission of any information requested by the FCC in connection with the Joint Request and the timely filing and vigorous prosecution of any pleadings responsive to any opposition to the Joint Request that may be filed by any party. This Agreement is conditioned upon the Commission issuing an order (or orders) granting the Joint Request, approving this Agreement, and such order (or orders) becoming a Final Action (as defined below).

2. **Amendment to Williamston Application.** Within fourteen (14) days after execution of this Agreement, Roanoke Valley will file an FCC Form 340 minor amendment to the Williamston Application in accordance with the engineering proposal at Exhibit 1 to this Agreement. This technical amendment will resolve any mutual exclusivity between the WHRO-FM Application and the Williamston Application. Roanoke Valley further agrees to use its best efforts in the preparation and filing of all Commission applications and related documents that may be necessary or appropriate to reach the results contemplated by this Agreement. HRETA consents to FCC grant of the Williamston Application, as amended, and agrees not to seek reconsideration or interpose any objection with the FCC concerning grant or licensing of the Williamston Application, as amended. Roanoke Valley consents to FCC grant of the WHRO-FM Application and agrees not to seek reconsideration or interpose any objection with the FCC concerning grant or licensing of the WHRO-FM Application, nor seek any conditions upon HRETA's operation of the WHRO-FM facilities proposed by the WHRO-FM Application, including but not limited to the mounting or directionality of the WHRO-FM antenna.

3. **Consideration.** HRETA shall pay Roanoke Valley the sum of Forty-Five Thousand Dollars ($45,000.00) by wire transfer or other mutually agreed upon means, delivered to Roanoke Valley within ten (10) business days of the FCC taking Final Action, as defined below, granting the WHRO-FM Application. HRETA and Roanoke Valley shall provide declarations with the Joint Request as required by Section 73.3525 of the Commission's Rules which declare that the Parties have not paid, been paid, promised or received any consideration in excess of their legitimate and prudent expenses reasonably incurred in preparing, filing, prosecuting, and settling their respective applications. This Agreement provides for Roanoke Valley to implement a technical modification to its Williamston Station that requires the purchase and installation of an antenna designed to eliminate the mutually exclusivity between the Parties' applications (the "Williamston Antenna") at a cost of approximately One Hundred Fifty Thousand Dollars ($150,000.00). The Parties agree that HRETA's payment pursuant to this Section 3 will be applied by Roanoke Valley to the cost of the Williamston Antenna.

4. **Final Action.** For purposes of this Agreement, an action by the FCC shall be a "Final Action" when the time for filing any requests for administrative or judicial review of such action, or for the FCC to reconsider such action on its own motion, has lapsed without any such filing or motion having been filed or, in the event of any such filing or motion, it shall have been disposed of in a manner so as not to affect the validity of the action taken and the time for seeking further administrative or judicial review with respect to the action shall have expired without any request for such further review having been filed.

5. **Authorization and Binding Obligation.** The Parties hereto represent to one another that they each have the power and authority to enter into and carry out this Agreement and that this Agreement constitutes a valid and binding obligation of each of them in accordance with its terms. The Parties hereto represent to one another that there is no conflict with between this Agreement and any other agreement to which each Party is bound.

6. **Termination.** This Agreement may be terminated by mutual written agreement of the Parties. This Agreement shall terminate if the FCC denies or designates for evidentiary hearing the Joint Settlement Request and such denial becomes a Final Action.

7. **Entire Agreement.** This Agreement constitutes the entire understanding of the Parties, and no other consideration, action or forbearance is contemplated or relied upon by them. This Agreement may not be amended or modified except by a writing signed by both Parties.

8. **Assignment and Binding Effect.** This Agreement shall inure to the benefit of, and shall be binding upon, the Parties hereto and their heirs, successors, executors, legal representatives and assigns, provided however that neither Party may voluntarily assign this Agreement without the express written consent of the other Party.

9. **Enforcement.** Should the Parties engage in litigation arising out of this Agreement, the prevailing party in such litigation shall be entitled to reasonable attorneys' fees and costs as shall be determined by the court. The Parties recognize that this Agreement confers a unique benefit, the loss of which cannot be compensated for through monetary damages. Thus, in the event of a breach of this Agreement, the Parties acknowledge that specific performance or other equitable relief would be an appropriate remedy, and agree to waive any defense that there is an adequate remedy at law for breach of this Agreement.

10. **Counterparts.** The Parties agree that this Agreement may be executed in counterparts, all of which together shall constitute one and the same instrument. This Agreement shall be effective upon the delivery of facsimile signatures.

11. **Governing Law.** This Agreement shall be construed under the laws of the Commonwealth of Virginia.

12. **Headings.** The headings herein are included for ease of reference only and shall not control or affect the meaning or construction of the provisions of this Agreement.

13. **Notices.** Any notice or other communication required or permitted by this Agreement shall be in writing and shall be delivered in person or by first-class United States registered or certified mail, postage prepaid and return receipt requested, or by a nationally recognized overnight courier service, with delivery charges prepaid, to the Parties at the following addresses:

If to Roanoke Valley:

Roanoke Valley Radio, Inc.
232 Roanoke Avenue
Roanoke Rapids, NC 27870-1916
Attn: T.D. Worthington

with a copy to:

John Crigler, Esq.
Garvey, Schubert Barer
5th Floor, Flour Mill Building
1000 Potomac Street, N.W.
Washington, DC 20007-3501
Telephone: 202-298-2521
Email: jcrigler@gsblaw.com

If to HRETA:

Hampton Roads Educational Telecommunications Association, Inc.
5200 Hampton Blvd.
Norfolk, VA 23508
Telephone: 757-889-9400
Attn: Bert Schmidt, President/CEO

with a copy to:

Margaret L. Miller, Esq.
Dow Lohnes PLLC
1200 New Hampshire Avenue, Suite 800
Washington, DC 20036
Telephone: 202-776-2914
Email: mmiller@dowlohnes.com

[REMAINDER OF PAGE LEFT INTENTIONALLY BLANK]

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Agreement on the date(s) indicated below.

HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOCIATION, INC.

Name: Bert Schmidt
Title: President and CEO

Date: August 3, 2011

ROANOKE VALLEY COMMUNICATIONS, INC.

Name:
Title:

Date: _____, 2011

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Agreement on the date(s) indicated below.

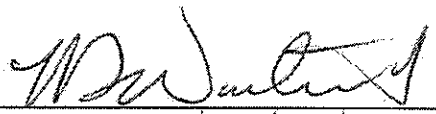
HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOCIATION, INC.

_____

Name:
Title:

Date: _____, 2011

ROANOKE VALLEY COMMUNICATIONS, INC.



Name: T. D. Worthington
Title: President

Date: 7/27, 2011

EXHIBIT 1 TO SETTLEMENT AGREEMENT
Technical Amendment to Williamston Application

[see attached]

New

BNPED-20071022AVD

Williamston, North Carolina

Application for Modified Facilities for New Noncommercial FM Station

On Channel 213 Class C2

by

Roanoke Valley Communications, Inc.

Exhibit 18

Allocations

August 2011

Timothy L. Warner, Inc.
Post Office Box 8045
Asheville, North Carolina 28814-8045
(828) 258-1238
twarner@tlwinc.net

Table of Contents

Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Exhibit 18, Allocations, for Roanoke Valley Communications, Inc., ("RVC") and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.

Timothy L. Warner, P.E.
Post Office Box 8045
Asheville, North Carolina 28801
(828) 258-1238
twarner@tlwinc.net
3 August 2011

Narrative

This Exhibit provides details of the allocations for the proposed modified facilities of a new station to serve Williamston, North Carolina. The application file number is BNPED-20071022AVD. This proposal complies fully with the requirements of 74 C.F.R. 73.509.

The changes include a new site 2.4 kilometers Northwest of the authorized site, a decrease in height, an increase in effective radiated power, a modification of the directional antenna pattern.

This modification removes a mutual exclusivity with the minor modification application of WHRO-FM.A, Norfolk, Virginia, BPED-20030507ABV. It is noted that the Williamston facilities were initially proposed in file number BPED-20000211ABG, and later affirmed in BNPED-20071022AVD as required to participate in the noncommercial filing window in October 2007.

Allocations

This application proposes service to Williamston, North Carolina, on channel 213 as a Class C2 facility. The Allocations Table in this exhibit provides a list of the stations, construction permits, allocations, and applications studied. All are protected by this application.

An Allocations Study is included as Figure 1. Where there are facilities whose overlap is less than 3.2 kilometers (2 miles) additional figures are provided, along with the output tables from the computer program FMOVER. Those facilities are identified below.

Figure/Table	Facility ID	Community	Channel and Relationship
2	WKNS	Kinston, North Carolina	212C2 first adjacent
3	WBUX.C	Buxton, North Carolina	213C2 co-channel
4	WHRO-FM.A	Norfolk, Virginia	212B, first adjacent
5	WZRN	Norlina, North Carolina	213A co-channel

Directional Antenna

This application proposes a directional antenna. The pattern is tabulated and plotted as a Figure in this Exhibit. The antenna will comply with the requirements of §73.316. A complete proof of performance from the antenna manufacturer will be provided in the license application. The antenna will be mounted to the tower as specified in the manufacturer's mounting instructions. The antenna will not be mounted on the top of an antenna tower which includes a top-mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antenna of any type will be mounted on the same tower level as a directional antenna, and that no antenna of any type will be mounted within any horizontal or vertical distance specified by the antenna manufacturer as being necessary for proper directional operation. Antenna installation will be supervised by an engineer experienced in directional antennas. The supervising engineer will provide a statement of qualifications and a statement that the antenna was assembled and installed according to the manufacturer's instruction. A registered land surveyor will verify the orientation of the antenna and provide a statement that the antenna is properly oriented. There are no other FM or TV broadcasting

antennas within 60 meters of the proposed site. There are no AM broadcasting antennas within 3.2 kilometers of the proposed site.

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments. Terrain data is extracted from the V-Soft Communications NED 03 terrain database. The NED 03 database is derived from the USGS National Elevation Data 30 meter terrain database. The USGS National Elevation Dataset has been developed by merging the highest-resolution, best-quality elevation data available across the United States into a seamless raster format. NED is the result of the maturation of the USGS effort to provide 1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska.

All population data is from 2010 U.S. Census PL data files. Population is counted by considering the location of the centroid of each census block. The data for each block is counted if it falls within the area being counted.

Area and Population

The area within the proposed 60 dBu F(50,50) service contour is calculated by a computer program which sums the areas within the contours based on 360 radials. The area of any significant water is then measured and subtracted. The resulting area is shown on a Figure at the end of this Exhibit. The population is calculated by the centroid method and is also listed on the Figure.

Table 1: Allocations

Timothy L. Warner, Inc.
Asheville, North Carolina

Allocation Study
Roanoke Valley Communications, Inc.

REFERENCE
35 54 24.0 N.
77 00 32.0 W.

CH# 213C2- 90.5 MHz, Pwr= 32 kW DA, HAAT= 92.3 M, COR= 100 M
Average Protected F(50-50)= 39.7 km
Standard Directional

DISPLAY DATES
DATA 08-03-11
SEARCH 08-03-11

CH CALL / CITY	TYPE ANT / STATE	AZI. DIST / <-- FILE #	LAT. / LNG.	Pwr(kW) / HAAT(M)	INT(km) PRO(km) / COR(M) LICENSEE	*IN* (Overlap in km)	*OUT*
213C2 1212011 Williamston	APP DCX NC	121.0 2.4 301.1 BNPED20071022AVD	35 53 44.0 76 59 10.0	7.800 203	105.7 41.5 210 Roanoke Valley Communications	-144.2*	-158.6*
212C2 WKNS Kinston	LIC DE NC	233.5 91.1 53.0 BLED19980604KD	35 25 01.0 77 48 57.0	35.000 98	65.2 42.3 130 Craven Community College	0.6	10.0
212B WHRO-FM Norfolk	APP CX VA	24.1 109.9 204.4 BPED20030507ABV	36 48 31.0 76 30 13.0	8.800 350	75.3 50.9 353 Hampton Roads Educational	1.4	7.2
213C2 WBUX Buxton	CP CX NC	117.7 151.2 298.5 BPED20101209AIW	35 16 02.0 75 32 07.0	30.000 49	108.3 29.4 49 Board Of Trustees Universi	2.2	2.3
212B WHRO-FM Norfolk	LIC CX VA	24.1 109.9 204.4 BLED20030506AAW	36 48 31.0 76 30 13.0	7.300 350	74.1 50.0 353 Hampton Roads Educational	2.6	8.1
213A WZRN Norlina	LIC DCX NC	302.0 124.6 121.3 BLED20031029ADZ	36 29 38.0 78 11 23.0	2.300 91	68.5 20.8 186 Roanoke Valley Communications	22.1	3.2
211A WZPE Bath	LIC CX NC	159.6 51.0 339.7 BLED20100818ABQ	35 28 32.0 76 48 44.0	4.500 39	1.6 16.0 43 Educational Information Co	8.9	30.8
213A WBUX Buxton	LIC C NC	117.8 150.6 298.7 BLED20000203ABD	35 16 01.0 75 32 38.0	5.900 47	75.2 19.8 47 Board Of Trustees Universi	34.6	11.3
213A WVRD Zebulon	LIC C NC	265.8 117.9 85.0 BLED20080919AAH	35 49 19.0 78 18 36.0	1.200 64	55.6 15.8 147 Liberty University, Inc.	33.1	11.7
214C2 WOTJ Morehead City	LIC CN NC	174.6 125.8 354.6 BLED19960903KC	34 46 41.0 76 52 42.0	24.000 142	66.0 44.0 145 Grace Christian School	20.0	20.2
215C2 WRQM Rocky Mount	LIC CX NC	261.1 67.1 80.7 BLED20060406ACR	35 48 40.0 77 44 33.0	7.500 191	3.9 40.5 220 The Board Of Trustees Of T	34.4	23.7
211C2 WZRU Garysburg	LIC DCX NC	306.4 63.5 126.1 BLED20081119ASC	36 14 39.0 77 34 40.0	11.000 154	3.2 33.7 181 Roanoke Valley Communications	25.9	26.4
216C2 WZGO Aurora	LIC CX NC	149.1 78.1 329.4 BLED20060727AAI	35 18 09.0 76 34 00.0	40.000 107	4.8 44.1 108 Pathway Christian Academy,	32.8	29.7
266C2 WQZL« Belhaven	CP ZCX NC	164.7 49.7 344.8 BPH20091202AAT	35 28 30.0 76 51 51.0	50.000 141	8.1 39.6 146 Nm Licensing Llc	19.5R	30.2M
210C2 WRVS-FM Elizabeth City	LIC CN NC	59.5 83.0 240.0 BLED19910110KD	36 16 55.0 76 12 44.0	41.000 70	3.9 37.2 73 Elizabeth City State Unive	38.7	41.5
216A WVRP Roanoke Rapids	LIC C NC	317.5 85.0 137.2 BLED20000508AAF	36 28 08.0 77 39 02.0	2.000 21	1.7 16.7 75 Liberty University, Inc.	47.7	64.7
213C2 WWIL-FM Wilmington	CP DVX NC	209.1 210.6 28.4 BPED20090107ACK	34 14 37.0 78 07 24.0	40.000 145	132.1 49.5 155 Carolina Christian Radio I	50.2	72.4

Terrain database is NED 03 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd adj.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.

Table 2: FMOVER protection of WKNS, Kinston, North Carolina

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

1212011 WKNS BLED19980604KD

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Protected
60 dBu

Channel = 212C2
Max ERP = 35 kW
RCAMSL = 130 M
N. Lat. 35 25 01.0
W. Lng. 77 48 57.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
173.0	031.0094	0094.7	039.9	079.0	030.1303	0102.7	079.5	49.14	
174.0	030.6826	0094.5	039.8	078.9	030.1977	0102.6	078.8	49.35	
175.0	030.3576	0094.6	039.7	078.8	030.2412	0102.6	078.1	49.54	
176.0	030.0344	0094.4	039.6	078.7	030.3213	0102.5	077.4	49.74	
177.0	029.7128	0094.5	039.5	078.5	030.3815	0102.4	076.8	49.94	
178.0	029.3930	0094.7	039.5	078.4	030.4397	0102.4	076.1	50.14	
179.0	029.0749	0094.9	039.4	078.3	030.5073	0102.4	075.4	50.34	
180.0	028.7585	0094.8	039.3	078.1	030.6019	0102.4	074.8	50.55	
181.0	027.5935	0094.6	039.0	077.7	030.7980	0102.6	074.2	50.75	
182.0	026.4526	0094.5	038.6	077.3	031.0061	0103.1	073.6	50.97	
183.0	025.3358	0094.7	038.3	077.0	031.1988	0103.3	073.0	51.18	
184.0	024.2431	0094.9	038.0	076.6	031.4094	0103.1	072.5	51.36	
185.0	023.1744	0095.2	037.7	076.2	031.6121	0102.9	071.9	51.53	
186.0	022.1299	0095.5	037.4	075.8	031.8309	0102.9	071.4	51.71	
187.0	021.1094	0095.6	037.0	075.3	032.0721	0103.1	070.9	51.90	
188.0	020.1130	0095.6	036.6	074.9	032.3308	0103.4	070.5	52.09	
189.0	019.1407	0095.5	036.2	074.3	032.6096	0104.0	070.1	52.28	
190.0	018.1925	0095.6	035.8	073.8	032.8848	0104.4	069.7	52.46	
191.0	017.4570	0095.8	035.5	073.4	033.1239	0104.1	069.2	52.60	
192.0	016.7366	0095.7	035.2	072.9	033.3965	0104.0	068.8	52.75	
193.0	016.0314	0095.6	034.8	072.4	033.6800	0104.2	068.5	52.91	
194.0	015.3414	0095.6	034.5	071.9	033.9622	0104.8	068.1	53.08	
195.0	014.6665	0095.4	034.1	071.3	034.2598	0105.1	067.8	53.23	
196.0	014.0069	0095.0	033.6	070.7	034.5895	0105.2	067.6	53.34	
197.0	013.3624	0095.1	033.3	070.2	034.8861	0105.4	067.3	53.48	
198.0	012.7331	0094.6	032.8	069.6	035.0000	0105.4	067.2	53.54	
199.0	012.1189	0094.6	032.4	069.0	035.0000	0105.5	067.0	53.61	
200.0	011.5200	0094.3	032.0	068.4	035.0000	0106.1	066.8	53.69	
201.0	011.0525	0094.2	031.6	067.9	035.0000	0106.5	066.6	53.77	
202.0	010.5947	0094.3	031.4	067.4	035.0000	0107.0	066.4	53.85	
203.0	010.1466	0093.6	030.9	066.8	035.0000	0107.2	066.4	53.89	
204.0	009.7082	0093.5	030.6	066.2	035.0000	0106.9	066.2	53.91	
205.0	009.2794	0093.1	030.2	065.7	035.0000	0106.3	066.2	53.90	
206.0	008.8604	0092.2	029.7	065.1	035.0000	0105.7	066.2	53.86	
207.0	008.4510	0091.2	029.3	064.4	035.0000	0105.0	066.2	53.81	
208.0	008.0513	0090.3	028.8	063.9	035.0000	0104.2	066.3	53.74	
209.0	007.6613	0089.4	028.3	063.3	035.0000	0103.9	066.4	53.70	
210.0	007.2809	0089.0	028.0	062.7	035.0000	0103.9	066.4	53.68	
211.0	007.1442	0088.2	027.7	062.3	035.0000	0103.7	066.3	53.70	
212.0	007.0088	0087.2	027.5	061.8	035.0000	0103.6	066.3	53.69	
213.0	006.8746	0086.5	027.2	061.3	035.0000	0103.5	066.3	53.70	
214.0	006.7418	0086.0	027.0	060.9	035.0000	0103.4	066.2	53.71	
215.0	006.6102	0085.5	026.9	060.5	035.0000	0103.3	066.2	53.72	
216.0	006.4800	0085.4	026.7	060.0	035.0000	0103.3	066.1	53.74	
217.0	006.3510	0085.5	026.6	059.6	035.0000	0103.4	066.0	53.77	
218.0	006.2234	0085.0	026.4	059.2	035.0000	0103.5	066.0	53.78	
219.0	006.0970	0084.9	026.3	058.8	035.0000	0103.6	066.0	53.80	
220.0	005.9720	0084.7	026.1	058.4	035.0000	0103.6	066.0	53.80	
221.0	005.8948	0084.5	026.0	058.0	035.0000	0103.5	065.9	53.81	
222.0	005.8181	0084.5	026.0	057.6	035.0000	0103.5	065.9	53.83	
223.0	005.7420	0084.3	025.9	057.2	035.0000	0103.5	065.9	53.83	

224.0	005.6663	0084.0	025.7	056.8	035.0000	0103.4	065.9	53.82
225.0	005.5912	0083.9	025.6	056.4	035.0000	0103.3	065.9	53.82
226.0	005.5165	0084.1	025.6	056.0	035.0000	0103.3	065.8	53.83
227.0	005.4424	0084.0	025.5	055.6	035.0000	0103.4	065.8	53.83
228.0	005.3687	0084.0	025.4	055.2	035.0000	0103.4	065.8	53.82
229.0	005.2956	0083.9	025.3	054.8	035.0000	0103.2	065.9	53.80
230.0	005.2229	0083.9	025.3	054.4	035.0000	0103.1	065.9	53.79
231.0	005.2126	0083.9	025.2	054.0	035.0000	0103.1	065.9	53.79
232.0	005.2022	0084.1	025.2	053.6	035.0000	0103.2	065.9	53.81
233.0	005.1919	0084.2	025.3	053.2	035.0000	0102.9	065.9	53.80
234.0	005.1816	0084.8	025.3	052.9	035.0000	0102.8	065.8	53.81
235.0	005.1713	0085.0	025.4	052.5	035.0000	0102.8	065.8	53.82
236.0	005.1610	0085.0	025.3	052.1	035.0000	0102.9	065.8	53.81
237.0	005.1508	0085.5	025.4	051.7	035.0000	0102.9	065.8	53.82
238.0	005.1405	0086.3	025.5	051.3	035.0000	0102.7	065.7	53.82
239.0	005.1302	0086.8	025.5	050.9	035.0000	0102.6	065.7	53.82
240.0	005.1200	0087.5	025.6	050.5	035.0000	0102.5	065.7	53.82
241.0	005.1997	0087.7	025.8	050.1	035.0000	0102.3	065.7	53.82
242.0	005.2799	0087.6	025.8	049.7	035.0000	0102.3	065.7	53.82
243.0	005.3608	0087.7	025.9	049.3	035.0000	0102.4	065.7	53.82
244.0	005.4424	0087.6	026.0	048.9	035.0000	0102.4	065.7	53.81
245.0	005.5245	0087.8	026.1	048.5	035.0000	0102.6	065.7	53.82
246.0	005.6072	0088.2	026.3	048.1	035.0000	0103.0	065.7	53.84
247.0	005.6906	0088.6	026.4	047.7	035.0000	0103.2	065.7	53.86
248.0	005.7746	0089.2	026.6	047.2	035.0000	0103.4	065.7	53.87
249.0	005.8591	0089.8	026.8	046.8	035.0000	0103.5	065.7	53.87
250.0	005.9444	0089.8	026.8	046.4	035.0000	0103.4	065.8	53.84
251.0	006.1026	0090.1	027.0	046.0	035.0000	0103.3	065.8	53.83
252.0	006.2630	0089.7	027.1	045.5	035.0000	0103.3	065.9	53.79
253.0	006.4254	0089.4	027.2	045.1	035.0000	0102.9	066.1	53.74
254.0	006.5899	0089.6	027.4	044.7	035.0000	0102.7	066.1	53.70
255.0	006.7565	0089.5	027.6	044.3	035.0000	0102.5	066.2	53.66
256.0	006.9252	0090.0	027.8	043.8	035.0000	0102.5	066.3	53.64
257.0	007.0959	0090.8	028.1	043.3	035.0000	0102.5	066.3	53.63
258.0	007.2687	0091.4	028.3	042.9	035.0000	0102.8	066.4	53.62
259.0	007.4436	0091.6	028.5	042.4	035.0000	0103.0	066.5	53.60
260.0	007.6206	0091.7	028.7	042.0	035.0000	0103.4	066.7	53.57
261.0	007.7209	0091.7	028.7	041.6	035.0000	0103.7	066.9	53.51
262.0	007.8218	0092.1	028.9	041.2	035.0000	0104.1	067.2	53.47
263.0	007.9234	0092.1	029.0	040.8	035.0000	0104.0	067.4	53.38
264.0	008.0256	0092.0	029.0	040.5	035.0000	0103.6	067.7	53.27
265.0	008.1285	0092.1	029.1	040.1	035.0000	0103.1	068.0	53.16
266.0	008.2321	0092.2	029.2	039.8	034.8783	0102.7	068.3	53.03
267.0	008.3363	0092.0	029.3	039.4	034.7189	0102.5	068.6	52.90
268.0	008.4411	0091.6	029.3	039.1	034.5697	0102.6	069.0	52.78
269.0	008.5466	0091.9	029.5	038.8	034.3950	0102.6	069.3	52.67
270.0	008.6528	0092.7	029.6	038.4	034.2034	0102.6	069.6	52.56
271.0	008.7529	0092.8	029.8	038.0	034.0435	0102.4	069.9	52.43
272.0	008.8536	0093.3	029.9	037.7	033.8704	0102.3	070.2	52.30
273.0	008.9549	0093.5	030.0	037.4	033.7183	0102.4	070.6	52.18
274.0	009.0568	0093.4	030.1	037.1	033.5862	0102.3	071.0	52.04
275.0	009.1592	0092.6	030.0	036.9	033.4888	0102.2	071.4	51.89
276.0	009.2622	0091.6	030.0	036.7	033.4084	0102.2	071.9	51.73
277.0	009.3658	0091.0	029.9	036.5	033.3132	0102.0	072.4	51.58
278.0	009.4700	0090.2	029.9	036.4	033.2355	0102.0	072.9	51.43
279.0	009.5747	0090.2	029.9	036.1	033.1211	0102.1	073.3	51.29
280.0	009.6800	0092.0	030.3	035.7	032.9117	0102.4	073.6	51.19
281.0	009.8568	0094.6	030.9	035.1	032.6434	0102.3	073.9	51.08
282.0	010.0352	0096.6	031.3	034.6	032.4077	0102.8	074.2	50.98
283.0	010.2152	0097.1	031.5	034.3	032.2598	0103.1	074.6	50.86
284.0	010.3968	0097.3	031.7	034.0	032.1365	0103.3	075.0	50.72
285.0	010.5800	0097.2	031.8	033.8	032.0282	0103.3	075.5	50.57
286.0	010.7648	0097.3	032.0	033.6	031.9152	0103.5	076.0	50.42
287.0	010.9512	0097.5	032.1	033.3	031.8011	0103.6	076.5	50.28
288.0	011.1392	0097.5	032.3	033.1	031.7003	0103.7	077.0	50.12
289.0	011.3288	0097.5	032.4	032.9	031.6072	0103.8	077.5	49.97
290.0	011.5200	0097.4	032.5	032.7	031.5237	0103.9	078.0	49.81
291.0	011.7128	0097.4	032.7	032.5	031.4339	0103.9	078.5	49.65
292.0	011.9072	0097.5	032.8	032.3	031.3502	0103.9	079.1	49.49

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

WKNS BLED19980604KD 1212011

Channel = 212C2
Max ERP = 35 kW
RCAMSL = 130 M
N. Lat. 35 25 01.0
W. Lng. 77 48 57.0
Protected
60 dBu

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
353.0	015.0388	0100.3	035.1	256.0	006.9289	0090.0	079.6	42.08	
354.0	015.4314	0100.1	035.3	256.1	006.9384	0090.1	079.0	42.26	
355.0	015.8290	0100.0	035.5	256.1	006.9504	0090.1	078.4	42.45	
356.0	016.2316	0099.9	035.6	256.2	006.9583	0090.2	077.7	42.63	
357.0	016.6394	0099.6	035.8	256.2	006.9620	0090.2	077.1	42.81	
358.0	017.0521	0099.2	035.9	256.2	006.9634	0090.2	076.4	42.99	
359.0	017.4700	0099.6	036.2	256.3	006.9780	0090.3	075.8	43.19	
000.0	017.8929	0099.7	036.4	256.3	006.9829	0090.3	075.1	43.38	
001.0	018.3969	0099.3	036.5	256.3	006.9818	0090.3	074.4	43.56	
002.0	018.9079	0098.8	036.7	256.3	006.9766	0090.2	073.8	43.74	
003.0	019.4259	0098.9	036.9	256.3	006.9821	0090.3	073.1	43.94	
004.0	019.9509	0099.2	037.2	256.4	006.9884	0090.3	072.4	44.14	
005.0	020.4829	0100.2	037.5	256.5	007.0089	0090.3	071.7	44.36	
006.0	021.0219	0100.6	037.8	256.5	007.0144	0090.3	071.0	44.57	
007.0	021.5679	0100.5	038.0	256.5	007.0055	0090.3	070.3	44.76	
008.0	022.1209	0100.4	038.2	256.4	006.9951	0090.3	069.6	44.94	
009.0	022.6809	0100.2	038.3	256.3	006.9822	0090.3	068.9	45.13	
010.0	023.2479	0100.4	038.6	256.3	006.9736	0090.2	068.2	45.33	
011.0	023.6777	0101.0	038.8	256.2	006.9647	0090.2	067.5	45.53	
012.0	024.1115	0101.8	039.1	256.2	006.9584	0090.2	066.8	45.74	
013.0	024.5492	0103.0	039.4	256.2	006.9572	0090.2	066.0	45.96	
014.0	024.9909	0104.7	039.8	256.2	006.9624	0090.2	065.2	46.20	
015.0	025.4365	0105.7	040.1	256.2	006.9524	0090.1	064.4	46.42	
016.0	025.8860	0106.8	040.4	256.1	006.9390	0090.1	063.7	46.63	
017.0	026.3395	0106.8	040.6	255.9	006.9020	0089.9	063.0	46.81	
018.0	026.7969	0106.3	040.7	255.6	006.8527	0089.8	062.4	46.97	
019.0	027.2582	0105.9	040.7	255.3	006.8003	0089.6	061.7	47.13	
020.0	027.7235	0105.5	040.8	254.9	006.7459	0089.5	061.1	47.30	
021.0	027.9733	0105.1	040.8	254.5	006.6811	0089.5	060.5	47.45	
022.0	028.2241	0104.8	040.8	254.2	006.6163	0089.6	059.9	47.61	
023.0	028.4761	0104.8	040.9	253.8	006.5536	0089.5	059.3	47.77	
024.0	028.7293	0104.3	040.9	253.3	006.4794	0089.4	058.8	47.90	
025.0	028.9835	0103.3	040.8	252.8	006.3925	0089.4	058.3	48.01	
026.0	029.2389	0103.1	040.8	252.3	006.3183	0089.6	057.8	48.17	
027.0	029.4953	0103.1	040.9	251.9	006.2450	0089.7	057.2	48.32	
028.0	029.7529	0102.8	040.9	251.4	006.1636	0089.7	056.7	48.44	
029.0	030.0117	0103.0	041.0	250.9	006.0890	0090.1	056.1	48.63	
030.0	030.2715	0103.3	041.2	250.4	006.0127	0090.0	055.6	48.77	
031.0	030.7289	0103.8	041.4	250.0	005.9432	0089.8	055.0	48.92	
032.0	031.1898	0104.0	041.5	249.5	005.9006	0089.7	054.4	49.09	
033.0	031.6540	0103.8	041.6	248.9	005.8526	0089.8	053.9	49.25	
034.0	032.1217	0103.3	041.6	248.3	005.8005	0089.5	053.5	49.35	
035.0	032.5929	0102.4	041.6	247.6	005.7443	0089.0	053.1	49.41	
036.0	033.0674	0102.2	041.7	247.0	005.6915	0088.6	052.6	49.50	
037.0	033.5454	0102.3	041.8	246.4	005.6400	0088.3	052.1	49.62	
038.0	034.0269	0102.4	042.0	245.8	005.5868	0088.1	051.7	49.73	
039.0	034.5117	0102.6	042.1	245.1	005.5325	0087.8	051.2	49.84	
040.0	035.0000	0103.0	042.3	244.4	005.4775	0087.6	050.7	49.95	
041.0	035.0000	0104.1	042.5	243.7	005.4209	0087.7	050.3	50.07	
042.0	035.0000	0103.4	042.4	242.9	005.3530	0087.7	050.1	50.08	
043.0	035.0000	0102.7	042.2	242.1	005.2848	0087.6	050.0	50.07	
044.0	035.0000	0102.5	042.2	241.2	005.2192	0087.6	049.8	50.09	
045.0	035.0000	0102.8	042.3	240.4	005.1550	0087.6	049.5	50.13	
046.0	035.0000	0103.3	042.3	239.6	005.1238	0087.2	049.3	50.16	
047.0	035.0000	0103.4	042.4	238.8	005.1324	0086.7	049.1	50.19	

048.0	035.0000	0103.0	042.3	237.9	005.1412	0086.2	049.0	50.18
049.0	035.0000	0102.4	042.2	237.1	005.1502	0085.5	049.0	50.13
050.0	035.0000	0102.3	042.2	236.2	005.1590	0085.1	048.9	50.13
051.0	035.0000	0102.6	042.2	235.3	005.1678	0084.9	048.8	50.16
052.0	035.0000	0102.9	042.3	234.5	005.1767	0085.0	048.7	50.20
053.0	035.0000	0102.8	042.3	233.6	005.1856	0084.6	048.7	50.18
054.0	035.0000	0103.1	042.3	232.7	005.1946	0084.1	048.7	50.16
055.0	035.0000	0103.3	042.3	231.9	005.2036	0084.0	048.7	50.16
056.0	035.0000	0103.3	042.3	231.0	005.2126	0083.9	048.7	50.14
057.0	035.0000	0103.4	042.4	230.1	005.2215	0083.9	048.8	50.13
058.0	035.0000	0103.5	042.4	229.3	005.2757	0083.9	048.9	50.14
059.0	035.0000	0103.5	042.4	228.4	005.3380	0084.0	049.0	50.15
060.0	035.0000	0103.3	042.3	227.6	005.3995	0084.0	049.2	50.14
061.0	035.0000	0103.5	042.4	226.7	005.4616	0084.1	049.3	50.14
062.0	035.0000	0103.7	042.4	225.9	005.5238	0084.1	049.5	50.13
063.0	035.0000	0103.9	042.4	225.1	005.5857	0083.9	049.7	50.10
064.0	035.0000	0104.3	042.5	224.2	005.6484	0083.9	049.8	50.09
065.0	035.0000	0105.7	042.7	223.4	005.7153	0084.2	049.9	50.15
066.0	035.0000	0106.7	042.9	222.5	005.7806	0084.4	050.0	50.16
067.0	035.0000	0107.2	043.0	221.7	005.8429	0084.5	050.3	50.13
068.0	035.0000	0106.4	042.8	221.0	005.8965	0084.5	050.7	50.01
069.0	035.0000	0105.5	042.7	220.3	005.9480	0084.7	051.2	49.90
070.0	035.0000	0105.4	042.7	219.6	006.0220	0084.8	051.6	49.82
071.0	034.4422	0105.2	042.5	219.0	006.0972	0084.9	052.1	49.69
072.0	033.8890	0104.6	042.3	218.5	006.1660	0085.1	052.7	49.54
073.0	033.3402	0104.0	042.1	217.9	006.2313	0085.1	053.3	49.36
074.0	032.7958	0104.4	042.0	217.4	006.3060	0085.5	053.8	49.27
075.0	032.2560	0103.3	041.7	216.9	006.3586	0085.5	054.5	49.05
076.0	031.7206	0102.8	041.5	216.5	006.4162	0085.3	055.1	48.85
077.0	031.1898	0103.3	041.4	216.0	006.4842	0085.4	055.6	48.72
078.0	030.6634	0102.5	041.1	215.6	006.5312	0085.4	056.3	48.50
079.0	030.1414	0102.7	041.0	215.2	006.5903	0085.5	056.9	48.35
080.0	029.6240	0103.4	041.0	214.7	006.6543	0085.7	057.4	48.22
081.0	029.1110	0103.2	040.8	214.3	006.7023	0085.9	058.1	48.05
082.0	028.6026	0102.0	040.5	214.1	006.7333	0086.0	058.8	47.82
083.0	028.0986	0101.0	040.2	213.8	006.7621	0086.1	059.5	47.59
084.0	027.5990	0100.5	040.0	213.6	006.7974	0086.2	060.2	47.39
085.0	027.1040	0100.4	039.8	213.3	006.8363	0086.4	060.9	47.22
086.0	026.6134	0100.7	039.7	213.0	006.8789	0086.5	061.5	47.05
087.0	026.1274	0100.5	039.5	212.7	006.9108	0086.7	062.1	46.87
088.0	025.6458	0099.9	039.3	212.6	006.9345	0086.8	062.8	46.67
089.0	025.1686	0099.6	039.1	212.4	006.9605	0086.9	063.5	46.49
090.0	024.6960	0099.3	038.9	212.2	006.9838	0087.0	064.2	46.30
091.0	023.8219	0099.0	038.5	212.1	006.9924	0087.1	065.0	46.09
092.0	022.9635	0098.9	038.2	212.1	006.9999	0087.1	065.7	45.88
093.0	022.1209	0098.6	037.9	212.0	007.0032	0087.1	066.4	45.67
094.0	021.2940	0098.4	037.5	212.0	007.0057	0087.2	067.2	45.46
095.0	020.4829	0099.0	037.3	211.9	007.0177	0087.2	067.9	45.27
096.0	019.6875	0099.5	037.1	211.9	007.0272	0087.3	068.5	45.09
097.0	018.9079	0100.0	036.9	211.8	007.0342	0087.3	069.2	44.90
098.0	018.1440	0100.8	036.7	211.7	007.0432	0087.4	069.9	44.72
099.0	017.3959	0100.2	036.2	211.9	007.0258	0087.3	070.7	44.48
100.0	016.6635	0099.1	035.7	212.1	006.9991	0087.1	071.4	44.24
101.0	016.1840	0098.7	035.4	212.1	006.9944	0087.1	072.1	44.04
102.0	015.7115	0098.3	035.1	212.2	006.9878	0087.1	072.8	43.84
103.0	015.2460	0098.1	034.9	212.2	006.9817	0087.0	073.5	43.65
104.0	014.7875	0097.8	034.6	212.3	006.9729	0087.0	074.1	43.46
105.0	014.3360	0097.3	034.2	212.4	006.9595	0086.9	074.8	43.26
106.0	013.8915	0096.8	033.9	212.5	006.9439	0086.9	075.5	43.06
107.0	013.4540	0096.3	033.6	212.6	006.9271	0086.8	076.1	42.86
108.0	013.0235	0095.9	033.2	212.7	006.9098	0086.7	076.8	42.67
109.0	012.6000	0095.3	032.9	212.9	006.8900	0086.6	077.4	42.47
110.0	012.1835	0095.2	032.6	213.0	006.8750	0086.5	078.1	42.29
111.0	012.1835	0095.3	032.6	212.9	006.8876	0086.6	078.6	42.15
112.0	012.1835	0095.4	032.6	212.8	006.9012	0086.6	079.2	42.01

Table 3: FMOVER Protection of WBUX.C, Buxton, North Carolina

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

1212011 WBUX-C BPED20101209AIW

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Protected
60 dBu

Channel = 213C2
Max ERP = 30 kW
RCAMSL = 49 M
N. Lat. 35 16 02.0
W. Lng. 75 32 07.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
058.0	030.6701	0095.8	040.0	313.2	030.0000	0049.0	135.6	34.96	
059.0	031.3315	0096.2	040.3	313.3	030.0000	0049.0	134.9	35.10	
060.0	032.0000	0096.5	040.5	313.3	030.0000	0049.0	134.1	35.24	
061.0	032.0000	0096.3	040.4	313.2	030.0000	0049.0	133.5	35.36	
062.0	032.0000	0095.8	040.4	313.0	030.0000	0049.0	132.8	35.48	
063.0	032.0000	0096.1	040.4	312.9	030.0000	0049.0	132.2	35.60	
064.0	032.0000	0095.8	040.3	312.8	030.0000	0049.0	131.5	35.72	
065.0	032.0000	0095.0	040.2	312.6	030.0000	0049.0	130.9	35.83	
066.0	032.0000	0094.5	040.1	312.5	030.0000	0049.0	130.3	35.95	
067.0	032.0000	0094.3	040.1	312.3	030.0000	0049.0	129.7	36.06	
068.0	032.0000	0094.0	040.0	312.2	030.0000	0049.0	129.1	36.17	
069.0	032.0000	0093.6	040.0	312.0	030.0000	0049.0	128.5	36.28	
070.0	032.0000	0093.6	040.0	311.9	030.0000	0049.0	127.9	36.39	
071.0	032.0000	0094.0	040.0	311.7	030.0000	0049.0	127.3	36.51	
072.0	032.0000	0094.3	040.1	311.6	030.0000	0049.0	126.6	36.63	
073.0	032.0000	0094.5	040.1	311.4	030.0000	0049.0	126.0	36.74	
074.0	032.0000	0094.7	040.2	311.3	030.0000	0049.0	125.4	36.85	
075.0	032.0000	0094.7	040.2	311.1	030.0000	0049.0	124.8	36.96	
076.0	032.0000	0095.0	040.2	310.9	030.0000	0049.0	124.2	37.07	
077.0	032.0000	0095.0	040.2	310.7	030.0000	0049.0	123.7	37.17	
078.0	032.0000	0095.0	040.2	310.5	030.0000	0049.0	123.1	37.27	
079.0	032.0000	0095.2	040.2	310.3	030.0000	0049.0	122.5	37.38	
080.0	032.0000	0095.1	040.2	310.1	030.0000	0049.0	122.0	37.47	
081.0	032.0000	0094.6	040.1	309.9	030.0000	0049.0	121.6	37.56	
082.0	032.0000	0094.1	040.0	309.6	030.0000	0049.0	121.1	37.64	
083.0	032.0000	0093.9	040.0	309.4	030.0000	0049.0	120.6	37.73	
084.0	032.0000	0093.8	040.0	309.1	030.0000	0049.0	120.1	37.82	
085.0	032.0000	0093.6	040.0	308.9	030.0000	0049.0	119.7	37.90	
086.0	032.0000	0093.7	040.0	308.6	030.0000	0049.0	119.2	37.99	
087.0	032.0000	0093.9	040.0	308.4	030.0000	0049.0	118.7	38.08	
088.0	032.0000	0094.0	040.0	308.1	030.0000	0049.0	118.3	38.16	
089.0	032.0000	0094.1	040.0	307.9	030.0000	0049.0	117.8	38.25	
090.0	032.0000	0094.1	040.0	307.6	030.0000	0049.0	117.4	38.32	
091.0	032.0000	0093.9	040.0	307.3	030.0000	0049.0	117.0	38.39	
092.0	032.0000	0093.8	040.0	307.0	030.0000	0049.0	116.6	38.46	
093.0	032.0000	0093.6	040.0	306.7	030.0000	0049.0	116.3	38.53	
094.0	032.0000	0093.6	040.0	306.5	030.0000	0049.0	115.9	38.60	
095.0	032.0000	0094.3	040.1	306.2	030.0000	0049.0	115.4	38.68	
096.0	032.0000	0094.7	040.1	305.9	030.0000	0049.0	115.0	38.76	
097.0	032.0000	0095.3	040.3	305.6	030.0000	0049.0	114.6	38.84	
098.0	032.0000	0096.2	040.4	305.3	030.0000	0049.0	114.1	38.92	
099.0	032.0000	0096.5	040.5	305.0	030.0000	0049.0	113.8	38.99	
100.0	032.0000	0097.8	040.7	304.8	030.0000	0049.0	113.3	39.08	
101.0	032.0000	0098.2	040.8	304.4	030.0000	0049.0	112.9	39.14	
102.0	032.0000	0098.1	040.7	304.1	030.0000	0049.0	112.7	39.19	
103.0	032.0000	0098.3	040.8	303.8	030.0000	0049.0	112.4	39.24	
104.0	032.0000	0098.4	040.8	303.4	030.0000	0049.0	112.1	39.29	
105.0	032.0000	0098.3	040.8	303.1	030.0000	0049.0	111.9	39.33	
106.0	032.0000	0098.3	040.8	302.7	030.0000	0049.0	111.7	39.36	
107.0	032.0000	0098.3	040.8	302.4	030.0000	0049.0	111.5	39.40	
108.0	032.0000	0098.2	040.8	302.0	030.0000	0049.0	111.4	39.43	

109.0	032.0000	0098.2	040.8	301.6	030.0000	0049.0	111.2	39.45
110.0	032.0000	0098.2	040.8	301.3	030.0000	0049.0	111.1	39.48
111.0	032.0000	0098.2	040.8	300.9	030.0000	0049.0	111.0	39.50
112.0	032.0000	0098.2	040.8	300.6	030.0000	0049.0	110.9	39.52
113.0	032.0000	0098.2	040.8	300.2	030.0000	0049.0	110.8	39.54
114.0	032.0000	0098.3	040.8	299.8	030.0000	0049.0	110.7	39.55
115.0	032.0000	0098.3	040.8	299.5	030.0000	0049.0	110.6	39.56
116.0	032.0000	0098.4	040.8	299.1	030.0000	0049.0	110.6	39.57
117.0	032.0000	0098.4	040.8	298.7	030.0000	0049.0	110.6	39.58
118.0	032.0000	0098.4	040.8	298.4	030.0000	0049.0	110.6	39.58
119.0	032.0000	0098.5	040.8	298.0	030.0000	0049.0	110.6	39.58
120.0	032.0000	0098.6	040.8	297.6	030.0000	0049.0	110.6	39.57
121.0	032.0000	0098.6	040.8	297.2	030.0000	0049.0	110.6	39.57
122.0	032.0000	0098.8	040.9	296.9	030.0000	0049.0	110.7	39.56
123.0	032.0000	0099.0	040.9	296.5	030.0000	0049.0	110.7	39.55
124.0	032.0000	0099.1	040.9	296.1	030.0000	0049.0	110.8	39.54
125.0	032.0000	0099.1	040.9	295.8	030.0000	0049.0	110.9	39.52
126.0	032.0000	0099.1	040.9	295.4	030.0000	0049.0	111.0	39.49
127.0	032.0000	0099.0	040.9	295.0	030.0000	0049.0	111.2	39.46
128.0	032.0000	0099.0	040.9	294.7	030.0000	0049.0	111.4	39.43
129.0	032.0000	0098.9	040.9	294.3	030.0000	0049.0	111.5	39.40
130.0	032.0000	0098.9	040.9	294.0	030.0000	0049.0	111.8	39.36
131.0	032.0000	0098.8	040.9	293.6	030.0000	0049.0	112.0	39.32
132.0	032.0000	0098.7	040.9	293.3	030.0000	0049.0	112.2	39.27
133.0	032.0000	0098.6	040.8	293.0	030.0000	0049.0	112.5	39.22
134.0	032.0000	0098.3	040.8	292.6	030.0000	0049.0	112.8	39.17
135.0	032.0000	0098.2	040.8	292.3	030.0000	0049.0	113.1	39.11
136.0	032.0000	0097.4	040.6	292.0	030.0000	0049.0	113.5	39.03
137.0	032.0000	0097.1	040.6	291.7	030.0000	0049.0	113.9	38.97
138.0	032.0000	0097.0	040.6	291.4	030.0000	0049.0	114.2	38.91
139.0	032.0000	0096.9	040.5	291.1	030.0000	0049.0	114.5	38.85
140.0	032.0000	0097.0	040.5	290.7	030.0000	0049.0	114.9	38.78
141.0	032.0000	0097.2	040.6	290.4	030.0000	0049.0	115.2	38.72
142.0	032.0000	0097.2	040.6	290.1	030.0000	0049.0	115.6	38.65
143.0	032.0000	0096.9	040.5	289.9	030.0000	0049.0	116.0	38.57
144.0	032.0000	0096.8	040.5	289.6	030.0000	0049.0	116.4	38.50
145.0	032.0000	0096.9	040.5	289.3	030.0000	0049.0	116.8	38.42
146.0	032.0000	0097.1	040.6	289.0	030.0000	0049.0	117.2	38.35
147.0	032.0000	0097.2	040.6	288.7	030.0000	0049.0	117.6	38.27
148.0	032.0000	0097.1	040.6	288.5	030.0000	0049.0	118.1	38.19
149.0	032.0000	0096.9	040.5	288.2	030.0000	0049.0	118.6	38.10
150.0	032.0000	0097.2	040.6	287.9	030.0000	0049.0	119.0	38.02
151.0	032.0000	0097.6	040.7	287.7	030.0000	0049.0	119.5	37.94
152.0	032.0000	0097.5	040.6	287.4	030.0000	0049.0	120.0	37.85
153.0	032.0000	0097.0	040.5	287.2	030.0000	0049.0	120.6	37.74
154.0	032.0000	0096.7	040.5	287.0	030.0000	0049.0	121.1	37.64
155.0	032.0000	0096.5	040.5	286.8	030.0000	0049.0	121.7	37.54
156.0	032.0000	0096.4	040.4	286.6	030.0000	0049.0	122.2	37.44
157.0	032.0000	0096.7	040.5	286.4	030.0000	0049.0	122.7	37.34
158.0	032.0000	0096.5	040.5	286.2	030.0000	0049.0	123.3	37.24
159.0	032.0000	0096.6	040.5	286.0	030.0000	0049.0	123.8	37.14
160.0	032.0000	0096.5	040.5	285.8	030.0000	0049.0	124.4	37.03
161.0	032.0000	0096.2	040.4	285.6	030.0000	0049.0	125.1	36.92
162.0	032.0000	0096.1	040.4	285.5	030.0000	0049.0	125.6	36.81
163.0	032.0000	0095.7	040.3	285.3	030.0000	0049.0	126.3	36.69
164.0	032.0000	0095.6	040.3	285.2	030.0000	0049.0	126.9	36.58
165.0	032.0000	0095.4	040.3	285.0	030.0000	0049.0	127.5	36.46
166.0	032.0000	0095.3	040.3	284.9	030.0000	0049.0	128.1	36.35
167.0	032.0000	0095.2	040.2	284.7	030.0000	0049.0	128.8	36.23
168.0	032.0000	0095.2	040.2	284.6	030.0000	0049.0	129.4	36.12
169.0	032.0000	0095.1	040.2	284.5	030.0000	0049.0	130.0	36.00
170.0	032.0000	0095.0	040.2	284.3	030.0000	0049.0	130.7	35.88
171.0	031.6681	0094.8	040.1	284.3	030.0000	0049.0	131.4	35.75
172.0	031.3379	0094.9	040.0	284.2	030.0000	0049.0	132.1	35.62
173.0	031.0094	0094.7	039.9	284.1	030.0000	0049.0	132.7	35.49
174.0	030.6826	0094.5	039.8	284.1	030.0000	0049.0	133.4	35.36
175.0	030.3576	0094.6	039.7	284.0	030.0000	0049.0	134.1	35.24
176.0	030.0344	0094.4	039.6	284.0	030.0000	0049.0	134.8	35.11
177.0	029.7128	0094.5	039.5	283.9	030.0000	0049.0	135.5	34.98

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

WBUX-C BPED20101209AIW 1212011

Channel = 213C2
Max ERP = 30 kW
RCAMSL = 49 M
N. Lat. 35 16 02.0
W. Lng. 75 32 07.0
Protected
60 dBu

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
239.0	030.0000	0047.9	029.1	128.1	032.0000	0099.0	138.6	36.48	
240.0	030.0000	0047.8	029.1	128.0	032.0000	0099.0	138.1	36.57	
241.0	030.0000	0047.5	029.0	127.9	032.0000	0099.0	137.7	36.65	
242.0	030.0000	0047.1	028.9	127.8	032.0000	0099.0	137.3	36.74	
243.0	030.0000	0047.2	028.9	127.7	032.0000	0099.0	136.8	36.83	
244.0	030.0000	0047.4	029.0	127.6	032.0000	0099.0	136.3	36.92	
245.0	030.0000	0047.2	028.9	127.5	032.0000	0099.0	135.9	37.01	
246.0	030.0000	0047.6	029.0	127.5	032.0000	0099.0	135.4	37.11	
247.0	030.0000	0048.2	029.2	127.4	032.0000	0099.0	134.8	37.21	
248.0	030.0000	0048.3	029.2	127.3	032.0000	0099.0	134.4	37.30	
249.0	030.0000	0048.4	029.3	127.2	032.0000	0099.0	133.9	37.39	
250.0	030.0000	0048.5	029.3	127.1	032.0000	0099.0	133.5	37.48	
251.0	030.0000	0048.6	029.3	127.0	032.0000	0099.0	133.0	37.56	
252.0	030.0000	0048.6	029.3	126.9	032.0000	0099.0	132.6	37.65	
253.0	030.0000	0048.7	029.4	126.8	032.0000	0099.0	132.2	37.73	
254.0	030.0000	0048.8	029.4	126.7	032.0000	0099.1	131.7	37.81	
255.0	030.0000	0048.8	029.4	126.5	032.0000	0099.1	131.3	37.89	
256.0	030.0000	0048.8	029.4	126.4	032.0000	0099.1	130.9	37.97	
257.0	030.0000	0048.8	029.4	126.2	032.0000	0099.1	130.5	38.05	
258.0	030.0000	0048.8	029.4	126.1	032.0000	0099.1	130.1	38.12	
259.0	030.0000	0048.7	029.4	125.9	032.0000	0099.1	129.8	38.19	
260.0	030.0000	0048.4	029.3	125.8	032.0000	0099.1	129.5	38.25	
261.0	030.0000	0048.5	029.3	125.6	032.0000	0099.1	129.1	38.32	
262.0	030.0000	0048.8	029.4	125.5	032.0000	0099.1	128.6	38.40	
263.0	030.0000	0048.9	029.4	125.3	032.0000	0099.1	128.3	38.47	
264.0	030.0000	0049.0	029.4	125.1	032.0000	0099.1	127.9	38.53	
265.0	030.0000	0049.0	029.4	125.0	032.0000	0099.1	127.6	38.60	
266.0	030.0000	0049.0	029.4	124.8	032.0000	0099.1	127.2	38.66	
267.0	030.0000	0049.0	029.4	124.6	032.0000	0099.1	126.9	38.72	
268.0	030.0000	0049.0	029.4	124.4	032.0000	0099.1	126.6	38.77	
269.0	030.0000	0049.0	029.4	124.2	032.0000	0099.1	126.3	38.83	
270.0	030.0000	0049.0	029.4	124.1	032.0000	0099.1	126.0	38.88	
271.0	030.0000	0049.0	029.4	123.9	032.0000	0099.1	125.7	38.93	
272.0	030.0000	0049.0	029.4	123.7	032.0000	0099.0	125.4	38.98	
273.0	030.0000	0049.0	029.4	123.5	032.0000	0099.0	125.2	39.03	
274.0	030.0000	0049.0	029.4	123.3	032.0000	0099.0	124.9	39.07	
275.0	030.0000	0049.0	029.4	123.1	032.0000	0099.0	124.6	39.12	
276.0	030.0000	0049.0	029.4	122.8	032.0000	0098.9	124.4	39.16	
277.0	030.0000	0049.0	029.4	122.6	032.0000	0098.9	124.2	39.20	
278.0	030.0000	0049.0	029.4	122.4	032.0000	0098.8	123.9	39.23	
279.0	030.0000	0049.0	029.4	122.2	032.0000	0098.8	123.7	39.27	
280.0	030.0000	0049.0	029.4	122.0	032.0000	0098.8	123.5	39.30	
281.0	030.0000	0049.0	029.4	121.8	032.0000	0098.7	123.3	39.34	
282.0	030.0000	0049.0	029.4	121.5	032.0000	0098.7	123.2	39.37	
283.0	030.0000	0049.0	029.4	121.3	032.0000	0098.7	123.0	39.40	
284.0	030.0000	0049.0	029.4	121.1	032.0000	0098.6	122.8	39.42	
285.0	030.0000	0049.0	029.4	120.9	032.0000	0098.6	122.7	39.45	
286.0	030.0000	0049.0	029.4	120.6	032.0000	0098.6	122.5	39.47	
287.0	030.0000	0049.0	029.4	120.4	032.0000	0098.6	122.4	39.49	
288.0	030.0000	0049.0	029.4	120.2	032.0000	0098.6	122.3	39.51	
289.0	030.0000	0049.0	029.4	119.9	032.0000	0098.6	122.2	39.53	
290.0	030.0000	0049.0	029.4	119.7	032.0000	0098.5	122.1	39.55	
291.0	030.0000	0049.0	029.4	119.4	032.0000	0098.5	122.0	39.56	
292.0	030.0000	0049.0	029.4	119.2	032.0000	0098.5	121.9	39.57	
293.0	030.0000	0049.0	029.4	119.0	032.0000	0098.5	121.9	39.59	

294.0	030.0000	0049.0	029.4	118.7	032.0000	0098.5	121.8	39.59
295.0	030.0000	0049.0	029.4	118.5	032.0000	0098.4	121.8	39.60
296.0	030.0000	0049.0	029.4	118.2	032.0000	0098.4	121.7	39.61
297.0	030.0000	0049.0	029.4	118.0	032.0000	0098.4	121.7	39.61
298.0	030.0000	0049.0	029.4	117.8	032.0000	0098.4	121.7	39.61
299.0	030.0000	0049.0	029.4	117.5	032.0000	0098.4	121.7	39.61
300.0	030.0000	0049.0	029.4	117.3	032.0000	0098.4	121.7	39.61
301.0	030.0000	0049.0	029.4	117.0	032.0000	0098.4	121.7	39.60
302.0	030.0000	0049.0	029.4	116.8	032.0000	0098.4	121.8	39.60
303.0	030.0000	0049.0	029.4	116.5	032.0000	0098.4	121.8	39.59
304.0	030.0000	0049.0	029.4	116.3	032.0000	0098.4	121.9	39.58
305.0	030.0000	0049.0	029.4	116.1	032.0000	0098.4	122.0	39.56
306.0	030.0000	0049.0	029.4	115.8	032.0000	0098.4	122.0	39.55
307.0	030.0000	0049.0	029.4	115.6	032.0000	0098.3	122.1	39.53
308.0	030.0000	0049.0	029.4	115.3	032.0000	0098.3	122.2	39.52
309.0	030.0000	0049.0	029.4	115.1	032.0000	0098.3	122.3	39.50
310.0	030.0000	0049.0	029.4	114.9	032.0000	0098.3	122.5	39.48
311.0	030.0000	0049.0	029.4	114.6	032.0000	0098.3	122.6	39.45
312.0	030.0000	0049.0	029.4	114.4	032.0000	0098.3	122.7	39.43
313.0	030.0000	0049.0	029.4	114.2	032.0000	0098.3	122.9	39.40
314.0	030.0000	0049.0	029.4	114.0	032.0000	0098.3	123.1	39.37
315.0	030.0000	0049.0	029.4	113.7	032.0000	0098.3	123.2	39.34
316.0	030.0000	0049.0	029.4	113.5	032.0000	0098.2	123.4	39.31
317.0	030.0000	0049.0	029.4	113.3	032.0000	0098.2	123.6	39.27
318.0	030.0000	0049.0	029.4	113.1	032.0000	0098.2	123.8	39.23
319.0	030.0000	0049.0	029.4	112.9	032.0000	0098.2	124.0	39.20
320.0	030.0000	0049.0	029.4	112.6	032.0000	0098.2	124.3	39.16
321.0	030.0000	0049.0	029.4	112.4	032.0000	0098.2	124.5	39.11
322.0	030.0000	0049.0	029.4	112.2	032.0000	0098.2	124.8	39.07
323.0	030.0000	0049.0	029.4	112.0	032.0000	0098.2	125.0	39.03
324.0	030.0000	0049.0	029.4	111.8	032.0000	0098.2	125.3	38.98
325.0	030.0000	0049.0	029.4	111.6	032.0000	0098.2	125.6	38.93
326.0	030.0000	0049.0	029.4	111.4	032.0000	0098.2	125.8	38.88
327.0	030.0000	0049.0	029.4	111.2	032.0000	0098.2	126.1	38.83
328.0	030.0000	0049.0	029.4	111.0	032.0000	0098.2	126.4	38.77
329.0	030.0000	0049.0	029.4	110.8	032.0000	0098.2	126.7	38.72
330.0	030.0000	0049.0	029.4	110.7	032.0000	0098.2	127.1	38.66
331.0	030.0000	0049.0	029.4	110.5	032.0000	0098.2	127.4	38.60
332.0	030.0000	0049.0	029.4	110.3	032.0000	0098.2	127.7	38.54
333.0	030.0000	0049.0	029.4	110.1	032.0000	0098.2	128.1	38.48
334.0	030.0000	0049.0	029.4	110.0	032.0000	0098.2	128.4	38.41
335.0	030.0000	0049.0	029.4	109.8	032.0000	0098.2	128.8	38.35
336.0	030.0000	0049.0	029.4	109.6	032.0000	0098.2	129.1	38.28
337.0	030.0000	0049.0	029.4	109.5	032.0000	0098.2	129.5	38.21
338.0	030.0000	0049.0	029.4	109.3	032.0000	0098.2	129.9	38.14
339.0	030.0000	0049.0	029.4	109.2	032.0000	0098.2	130.3	38.06
340.0	030.0000	0049.0	029.4	109.0	032.0000	0098.2	130.7	37.99
341.0	030.0000	0049.0	029.4	108.9	032.0000	0098.2	131.1	37.91
342.0	030.0000	0049.0	029.4	108.7	032.0000	0098.2	131.5	37.84
343.0	030.0000	0049.0	029.4	108.6	032.0000	0098.2	131.9	37.76
344.0	030.0000	0049.0	029.4	108.5	032.0000	0098.2	132.3	37.68
345.0	030.0000	0049.0	029.4	108.4	032.0000	0098.2	132.7	37.60
346.0	030.0000	0049.0	029.4	108.2	032.0000	0098.2	133.1	37.51
347.0	030.0000	0049.0	029.4	108.1	032.0000	0098.2	133.6	37.43
348.0	030.0000	0049.0	029.4	108.0	032.0000	0098.2	134.0	37.34
349.0	030.0000	0049.0	029.4	107.9	032.0000	0098.2	134.5	37.26
350.0	030.0000	0049.0	029.4	107.8	032.0000	0098.2	134.9	37.17
351.0	030.0000	0049.0	029.4	107.7	032.0000	0098.3	135.4	37.08
352.0	030.0000	0049.0	029.4	107.6	032.0000	0098.3	135.8	36.99
353.0	030.0000	0049.0	029.4	107.5	032.0000	0098.3	136.3	36.90
354.0	030.0000	0049.0	029.4	107.4	032.0000	0098.3	136.8	36.81
355.0	030.0000	0049.0	029.4	107.3	032.0000	0098.3	137.2	36.72
356.0	030.0000	0049.0	029.4	107.2	032.0000	0098.3	137.7	36.63
357.0	030.0000	0049.0	029.4	107.1	032.0000	0098.3	138.2	36.53
358.0	030.0000	0049.0	029.4	107.1	032.0000	0098.3	138.7	36.44

Table 4: FMOVER Protection of WHRO-FM.A, Norfolk, Virginia

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

1212011 WHRO-FM.A BPED20030507ABV

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Protected
60 dBu

Channel = 212B
Max ERP = 8.8 kW
RCAMSL = 353.3 M
N. Lat. 36 48 31.0
W. Lng. 76 30 13.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
324.0	025.1199	0090.4	037.4	224.0	008.8000	0346.3	096.9	47.45	
325.0	026.2088	0090.1	037.7	224.1	008.8000	0346.4	096.2	47.65	
326.0	027.3208	0090.0	038.0	224.2	008.8000	0346.4	095.5	47.86	
327.0	028.4560	0089.9	038.3	224.3	008.8000	0346.4	094.8	48.08	
328.0	029.6142	0089.7	038.6	224.4	008.8000	0346.4	094.1	48.30	
329.0	030.7956	0089.7	038.9	224.5	008.8000	0346.5	093.4	48.53	
330.0	032.0000	0089.8	039.3	224.6	008.8000	0346.5	092.6	48.76	
331.0	032.0000	0089.8	039.3	224.5	008.8000	0346.5	092.0	48.97	
332.0	032.0000	0089.8	039.3	224.3	008.8000	0346.4	091.3	49.17	
333.0	032.0000	0089.8	039.3	224.2	008.8000	0346.4	090.7	49.38	
334.0	032.0000	0089.9	039.3	224.0	008.8000	0346.3	090.0	49.58	
335.0	032.0000	0090.0	039.3	223.9	008.8000	0346.4	089.4	49.79	
336.0	032.0000	0090.2	039.3	223.8	008.8000	0346.4	088.7	50.00	
337.0	032.0000	0090.3	039.3	223.6	008.8000	0346.3	088.1	50.20	
338.0	032.0000	0090.2	039.3	223.4	008.8000	0346.2	087.4	50.40	
339.0	032.0000	0090.1	039.3	223.2	008.8000	0346.1	086.8	50.60	
340.0	032.0000	0090.0	039.3	223.0	008.8000	0345.9	086.2	50.79	
341.0	032.0000	0090.1	039.3	222.8	008.8000	0345.7	085.6	50.98	
342.0	032.0000	0090.2	039.3	222.6	008.8000	0345.7	085.0	51.18	
343.0	032.0000	0090.0	039.3	222.3	008.8000	0345.7	084.4	51.37	
344.0	032.0000	0089.8	039.3	222.0	008.8000	0345.6	083.9	51.56	
345.0	032.0000	0089.7	039.2	221.8	008.8000	0345.4	083.3	51.74	
346.0	032.0000	0089.6	039.2	221.5	008.8000	0345.2	082.7	51.92	
347.0	032.0000	0089.6	039.2	221.2	008.8000	0345.2	082.2	52.10	
348.0	032.0000	0089.5	039.2	220.9	008.8000	0345.1	081.6	52.28	
349.0	032.0000	0089.5	039.2	220.6	008.8000	0344.8	081.1	52.45	
350.0	032.0000	0089.4	039.2	220.3	008.8000	0344.6	080.6	52.62	
351.0	031.2366	0089.4	039.0	219.9	008.8000	0344.3	080.2	52.74	
352.0	030.4824	0089.5	038.8	219.5	008.8000	0344.4	079.8	52.87	
353.0	029.7375	0089.7	038.6	219.0	008.8000	0344.3	079.4	53.00	
354.0	029.0017	0089.8	038.5	218.6	008.8000	0344.0	079.0	53.11	
355.0	028.2752	0090.1	038.3	218.2	008.8000	0343.6	078.7	53.22	
356.0	027.5579	0090.5	038.2	217.7	008.8000	0343.5	078.3	53.33	
357.0	026.8498	0090.7	038.0	217.3	008.8000	0343.3	078.0	53.43	
358.0	026.1509	0090.5	037.8	216.8	008.8000	0343.1	077.8	53.50	
359.0	025.4612	0090.2	037.5	216.3	008.8000	0343.0	077.6	53.57	
000.0	024.7808	0090.0	037.3	215.8	008.8000	0343.1	077.4	53.63	
001.0	023.9432	0089.7	036.9	215.3	008.8000	0343.0	077.3	53.67	
002.0	023.1200	0089.6	036.6	214.8	008.8000	0343.0	077.2	53.71	
003.0	022.3112	0089.7	036.4	214.2	008.8000	0343.2	077.1	53.75	
004.0	021.5168	0089.9	036.1	213.7	008.8000	0343.3	077.0	53.79	
005.0	020.7368	0090.2	035.9	213.2	008.8000	0343.4	076.9	53.83	
006.0	019.9712	0090.9	035.7	212.8	008.8000	0343.5	076.8	53.88	
007.0	019.2200	0091.3	035.5	212.3	008.8000	0343.7	076.7	53.91	
008.0	018.4832	0091.6	035.2	211.8	008.8000	0344.1	076.7	53.93	
009.0	017.7608	0091.3	034.9	211.3	008.8000	0344.4	076.8	53.90	
010.0	017.0528	0091.2	034.5	210.7	008.8000	0344.1	076.9	53.86	
011.0	016.7273	0091.0	034.3	210.3	008.8000	0343.9	076.8	53.87	
012.0	016.4050	0090.7	034.1	209.8	008.8000	0343.6	076.8	53.85	
013.0	016.0858	0090.9	034.0	209.3	008.8000	0343.5	076.8	53.87	
014.0	015.7697	0090.8	033.8	208.9	008.8000	0343.5	076.8	53.86	

015.0	015.4568	0090.9	033.7	208.4	008.8000	0343.5	076.8	53.86
016.0	015.1470	0090.8	033.5	208.0	008.8000	0343.5	076.8	53.85
017.0	014.8404	0090.8	033.4	207.5	008.8000	0343.5	076.9	53.84
018.0	014.5368	0091.2	033.3	207.1	008.8000	0343.7	076.9	53.85
019.0	014.2365	0091.5	033.2	206.7	008.8000	0343.9	076.9	53.85
020.0	013.9392	0092.0	033.1	206.2	008.8000	0343.9	076.9	53.84
021.0	013.9392	0092.4	033.2	205.8	008.8000	0343.8	076.8	53.89
022.0	013.9392	0092.8	033.2	205.4	008.8000	0343.8	076.7	53.92
023.0	013.9392	0092.6	033.2	204.9	008.8000	0343.8	076.7	53.92
024.0	013.9392	0092.3	033.1	204.5	008.8000	0343.8	076.7	53.91
025.0	013.9392	0092.2	033.1	204.1	008.8000	0343.8	076.7	53.90
026.0	013.9392	0092.2	033.1	203.6	008.8000	0344.0	076.7	53.90
027.0	013.9392	0092.4	033.1	203.2	008.8000	0344.1	076.8	53.90
028.0	013.9392	0092.7	033.2	202.8	008.8000	0344.2	076.7	53.91
029.0	013.9392	0092.7	033.2	202.3	008.8000	0344.3	076.8	53.89
030.0	013.9392	0092.8	033.2	201.9	008.8000	0344.4	076.9	53.88
031.0	014.1938	0092.7	033.3	201.5	008.8000	0344.5	076.8	53.89
032.0	014.4507	0092.7	033.5	201.0	008.8000	0344.7	076.8	53.91
033.0	014.7099	0092.7	033.6	200.6	008.8000	0344.9	076.8	53.92
034.0	014.9714	0092.9	033.8	200.1	008.8000	0345.0	076.7	53.94
035.0	015.2352	0093.0	034.0	199.7	008.8000	0345.3	076.7	53.95
036.0	015.5013	0093.1	034.1	199.2	008.8000	0345.5	076.7	53.95
037.0	015.7697	0093.3	034.3	198.7	008.8000	0345.8	076.8	53.95
038.0	016.0404	0093.1	034.4	198.3	008.8000	0346.0	076.9	53.93
039.0	016.3135	0092.9	034.5	197.8	008.8000	0346.2	077.0	53.89
040.0	016.5888	0093.0	034.6	197.4	008.8000	0346.4	077.1	53.87
041.0	017.4050	0092.9	035.0	196.9	008.8000	0346.5	077.0	53.90
042.0	018.2408	0092.5	035.3	196.4	008.8000	0346.5	077.0	53.91
043.0	019.0962	0092.9	035.7	195.8	008.8000	0346.5	076.9	53.95
044.0	019.9712	0093.2	036.1	195.2	008.8000	0346.4	076.8	53.96
045.0	020.8658	0093.5	036.5	194.7	008.8000	0346.4	076.8	53.98
046.0	021.7800	0093.4	036.9	194.1	008.8000	0346.4	076.8	53.96
047.0	022.7138	0093.2	037.2	193.6	008.8000	0346.4	076.9	53.92
048.0	023.6672	0093.0	037.4	193.1	008.8000	0346.3	077.0	53.88
049.0	024.6402	0093.0	037.8	192.6	008.8000	0346.3	077.2	53.83
050.0	025.6328	0093.4	038.2	192.0	008.8000	0346.2	077.3	53.80
051.0	026.2378	0093.8	038.4	191.5	008.8000	0346.3	077.5	53.73
052.0	026.8498	0094.0	038.6	191.0	008.8000	0346.3	077.7	53.63
053.0	027.4689	0093.9	038.8	190.6	008.8000	0346.3	078.1	53.52
054.0	028.0950	0094.5	039.1	190.1	008.8000	0346.2	078.3	53.43
055.0	028.7282	0094.7	039.3	189.6	008.8000	0346.2	078.7	53.32
056.0	029.3684	0094.9	039.5	189.1	008.8000	0346.2	079.0	53.20
057.0	030.0158	0095.5	039.8	188.7	008.8000	0346.1	079.3	53.09
058.0	030.6701	0095.8	040.0	188.2	008.8000	0346.1	079.7	52.96
059.0	031.3315	0096.2	040.3	187.7	008.8000	0346.1	080.1	52.83
060.0	032.0000	0096.5	040.5	187.3	008.8000	0346.0	080.5	52.68
061.0	032.0000	0096.3	040.4	187.0	008.8000	0346.0	081.1	52.49
062.0	032.0000	0095.8	040.4	186.8	008.8000	0346.0	081.7	52.28
063.0	032.0000	0096.1	040.4	186.5	008.8000	0346.0	082.3	52.09
064.0	032.0000	0095.8	040.3	186.3	008.8000	0346.0	082.9	51.89
065.0	032.0000	0095.0	040.2	186.1	008.8000	0346.0	083.6	51.66
066.0	032.0000	0094.5	040.1	185.9	008.8000	0346.0	084.2	51.45
067.0	032.0000	0094.3	040.1	185.7	008.8000	0346.0	084.8	51.24
068.0	032.0000	0094.0	040.0	185.5	008.8000	0345.9	085.5	51.03
069.0	032.0000	0093.6	040.0	185.3	008.8000	0345.9	086.1	50.82
070.0	032.0000	0093.6	040.0	185.1	008.8000	0345.9	086.8	50.61
071.0	032.0000	0094.0	040.0	184.9	008.8000	0345.9	087.4	50.41
072.0	032.0000	0094.3	040.1	184.7	008.8000	0345.9	088.0	50.21
073.0	032.0000	0094.5	040.1	184.5	008.8000	0345.9	088.6	50.01
074.0	032.0000	0094.7	040.2	184.3	008.8000	0345.9	089.3	49.80
075.0	032.0000	0094.7	040.2	184.2	008.8000	0345.9	089.9	49.59
076.0	032.0000	0095.0	040.2	184.0	008.8000	0345.9	090.6	49.38
077.0	032.0000	0095.0	040.2	183.9	008.8000	0345.9	091.2	49.17
078.0	032.0000	0095.0	040.2	183.7	008.8000	0345.9	091.9	48.96
079.0	032.0000	0095.2	040.2	183.6	008.8000	0345.9	092.6	48.75
080.0	032.0000	0095.1	040.2	183.5	008.8000	0345.9	093.3	48.54
081.0	032.0000	0094.6	040.1	183.5	008.8000	0346.0	094.0	48.32
082.0	032.0000	0094.1	040.0	183.4	008.8000	0346.0	094.7	48.11
083.0	032.0000	0093.9	040.0	183.4	008.8000	0346.0	095.4	47.90

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

WHRO-FM.A BPED20030507ABV 1212011

Channel = 212B
Max ERP = 8.8 kW
RCAMSL = 353.3 M
N. Lat. 36 48 31.0
W. Lng. 76 30 13.0
Protected
60 dBu

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
144.0	008.8000	0347.2	052.0	052.3	027.0330	0094.0	095.7	43.90	
145.0	008.8000	0347.2	052.0	052.3	027.0068	0094.0	094.7	44.13	
146.0	008.8000	0347.0	052.0	052.2	026.9884	0094.0	093.8	44.36	
147.0	008.8000	0347.1	052.0	052.2	026.9670	0094.0	092.9	44.58	
148.0	008.8000	0347.1	052.0	052.1	026.9405	0094.0	092.0	44.81	
149.0	008.8000	0347.2	052.0	052.1	026.9067	0094.0	091.1	45.04	
150.0	008.8000	0347.2	052.0	052.0	026.8657	0094.0	090.2	45.27	
151.0	008.8000	0347.2	052.0	051.9	026.8175	0094.0	089.3	45.50	
152.0	008.8000	0347.2	052.0	051.9	026.7599	0094.0	088.4	45.73	
153.0	008.8000	0347.1	052.0	051.7	026.6957	0093.9	087.5	45.96	
154.0	008.8000	0347.1	052.0	051.6	026.6254	0093.9	086.6	46.19	
155.0	008.8000	0347.1	052.0	051.5	026.5456	0093.9	085.8	46.42	
156.0	008.8000	0347.1	052.0	051.4	026.4591	0093.8	084.9	46.65	
157.0	008.8000	0347.1	052.0	051.2	026.3651	0093.8	084.0	46.87	
158.0	008.8000	0347.1	052.0	051.0	026.2624	0093.8	083.1	47.09	
159.0	008.8000	0347.2	052.0	050.9	026.1514	0093.7	082.3	47.31	
160.0	008.8000	0347.2	052.0	050.7	026.0319	0093.7	081.4	47.52	
161.0	008.8000	0347.2	052.0	050.4	025.9031	0093.6	080.6	47.73	
162.0	008.8000	0347.2	052.0	050.2	025.7662	0093.5	079.7	47.94	
163.0	008.8000	0347.2	052.0	050.0	025.6118	0093.4	078.9	48.14	
164.0	008.8000	0347.2	052.0	049.7	025.3525	0093.3	078.0	48.32	
165.0	008.8000	0347.1	052.0	049.4	025.0729	0093.2	077.2	48.50	
166.0	008.8000	0347.0	052.0	049.1	024.7813	0093.1	076.4	48.67	
167.0	008.8000	0347.0	052.0	048.8	024.4771	0092.9	075.6	48.83	
168.0	008.8000	0347.0	052.0	048.5	024.1576	0092.9	074.8	49.00	
169.0	008.8000	0347.0	052.0	048.2	023.8224	0092.9	074.0	49.16	
170.0	008.8000	0346.9	052.0	047.8	023.4712	0093.1	073.2	49.32	
171.0	008.8000	0346.9	052.0	047.4	023.1059	0093.2	072.5	49.48	
172.0	008.8000	0346.9	052.0	047.0	022.7244	0093.2	071.7	49.62	
173.0	008.8000	0346.7	051.9	046.6	022.3259	0093.3	071.0	49.76	
174.0	008.8000	0346.7	051.9	046.1	021.9154	0093.4	070.3	49.89	
175.0	008.8000	0346.5	051.9	045.7	021.4879	0093.4	069.6	50.01	
176.0	008.8000	0346.5	051.9	045.2	021.0518	0093.5	068.9	50.13	
177.0	008.8000	0346.5	051.9	044.7	020.6026	0093.5	068.2	50.24	
178.0	008.8000	0346.4	051.9	044.2	020.1394	0093.2	067.5	50.32	
179.0	008.8000	0346.4	051.9	043.6	019.6624	0093.1	066.9	50.40	
180.0	008.8000	0346.3	051.9	043.1	019.1738	0093.0	066.2	50.46	
181.0	008.8000	0346.2	051.9	042.5	018.6744	0092.6	065.6	50.50	
182.0	008.8000	0346.1	051.9	041.9	018.1641	0092.5	065.0	50.56	
183.0	008.8000	0346.0	051.9	041.3	017.6470	0092.8	064.5	50.62	
184.0	008.8000	0345.9	051.9	040.7	017.1181	0093.0	063.9	50.66	
185.0	008.8000	0345.9	051.9	040.0	016.5877	0093.0	063.4	50.70	
186.0	008.8000	0346.0	051.9	039.3	016.4020	0092.9	062.9	50.80	
187.0	008.8000	0346.0	051.9	038.6	016.2124	0093.0	062.4	50.92	
188.0	008.8000	0346.1	051.9	037.9	016.0188	0093.1	061.9	51.02	
189.0	008.8000	0346.2	051.9	037.2	015.8220	0093.2	061.5	51.13	
190.0	008.8000	0346.2	051.9	036.4	015.6209	0093.3	061.0	51.21	
191.0	008.8000	0346.3	051.9	035.7	015.4169	0093.1	060.6	51.28	
192.0	008.8000	0346.2	051.9	034.9	015.2091	0093.0	060.3	51.34	
193.0	008.8000	0346.3	051.9	034.1	014.9996	0092.9	059.9	51.39	
194.0	008.8000	0346.4	051.9	033.3	014.7877	0092.7	059.6	51.42	
195.0	008.8000	0346.4	051.9	032.5	014.5738	0092.7	059.3	51.46	
196.0	008.8000	0346.5	051.9	031.6	014.3584	0092.7	059.1	51.50	
197.0	008.8000	0346.4	051.9	030.8	014.1409	0092.6	058.8	51.50	
198.0	008.8000	0346.1	051.9	029.9	013.9392	0092.8	058.6	51.52	

199.0	008.8000	0345.6	051.9	029.1	013.9392	0092.7	058.5	51.57
200.0	008.8000	0345.1	051.8	028.2	013.9392	0092.7	058.4	51.60
201.0	008.8000	0344.7	051.8	027.3	013.9392	0092.5	058.3	51.62
202.0	008.8000	0344.4	051.8	026.4	013.9392	0092.2	058.2	51.62
203.0	008.8000	0344.1	051.8	025.5	013.9392	0092.3	058.2	51.65
204.0	008.8000	0343.9	051.8	024.6	013.9392	0092.2	058.2	51.65
205.0	008.8000	0343.8	051.8	023.8	013.9392	0092.3	058.2	51.65
206.0	008.8000	0343.8	051.8	022.9	013.9392	0092.7	058.2	51.67
207.0	008.8000	0343.7	051.8	022.0	013.9392	0092.8	058.3	51.65
208.0	008.8000	0343.5	051.7	021.1	013.9392	0092.5	058.4	51.59
209.0	008.8000	0343.5	051.7	020.2	013.9392	0092.0	058.5	51.52
210.0	008.8000	0343.7	051.8	019.4	014.1238	0091.8	058.6	51.51
211.0	008.8000	0344.3	051.8	018.5	014.3828	0091.3	058.8	51.50
212.0	008.8000	0343.9	051.8	017.7	014.6382	0091.1	059.0	51.48
213.0	008.8000	0343.5	051.7	016.8	014.8919	0090.8	059.3	51.45
214.0	008.8000	0343.2	051.7	016.0	015.1448	0090.8	059.5	51.42
215.0	008.8000	0343.0	051.7	015.2	015.3958	0090.8	059.8	51.39
216.0	008.8000	0343.0	051.7	014.4	015.6464	0090.8	060.2	51.35
217.0	008.8000	0343.2	051.7	013.6	015.8957	0090.8	060.5	51.31
218.0	008.8000	0343.6	051.7	012.8	016.1438	0090.9	060.8	51.26
219.0	008.8000	0344.3	051.8	012.0	016.3919	0090.7	061.2	51.20
220.0	008.8000	0344.3	051.8	011.3	016.6315	0090.9	061.6	51.13
221.0	008.8000	0345.1	051.8	010.5	016.8738	0091.1	062.0	51.08
222.0	008.8000	0345.6	051.9	009.8	017.1748	0091.2	062.5	51.02
223.0	008.8000	0345.9	051.9	009.1	017.6724	0091.3	062.9	51.00
224.0	008.8000	0346.3	051.9	008.4	018.1647	0091.5	063.4	50.98
225.0	008.8000	0346.5	051.9	007.8	018.6446	0091.6	064.0	50.94
226.0	008.8000	0346.9	052.0	007.1	019.1215	0091.3	064.5	50.87
227.0	008.8000	0346.7	051.9	006.5	019.5740	0091.1	065.1	50.78
228.0	008.8000	0346.6	051.9	005.9	020.0227	0090.8	065.7	50.69
229.0	008.8000	0346.1	051.9	005.4	020.4441	0090.5	066.3	50.56
230.0	008.8000	0345.2	051.9	004.9	020.8462	0090.2	067.0	50.43
231.0	008.8000	0344.9	051.8	004.3	021.2539	0090.0	067.7	50.31
232.0	008.8000	0344.0	051.8	003.9	021.6286	0089.8	068.4	50.17
233.0	008.8000	0343.7	051.8	003.4	022.0106	0089.7	069.1	50.04
234.0	008.8000	0343.3	051.7	002.9	022.3774	0089.7	069.8	49.91
235.0	008.8000	0343.2	051.7	002.5	022.7384	0089.7	070.5	49.78
236.0	008.8000	0343.3	051.7	002.0	023.0952	0089.7	071.2	49.64
237.0	008.8000	0343.6	051.7	001.6	023.4449	0089.6	071.9	49.49
238.0	008.8000	0343.6	051.7	001.2	023.7740	0089.7	072.7	49.35
239.0	008.8000	0343.4	051.7	000.8	024.0818	0089.8	073.4	49.19
240.0	008.8000	0343.1	051.7	000.5	024.3733	0089.9	074.2	49.03
241.0	008.8000	0343.2	051.7	000.1	024.6642	0090.0	075.0	48.87
242.0	008.8000	0343.2	051.7	359.8	024.9088	0090.1	075.8	48.70
243.0	008.8000	0343.2	051.7	359.5	025.1176	0090.2	076.6	48.51
244.0	008.8000	0342.9	051.7	359.2	025.3081	0090.2	077.4	48.32
245.0	008.8000	0342.6	051.7	359.0	025.4880	0090.3	078.3	48.12
246.0	008.8000	0343.1	051.7	358.7	025.6794	0090.3	079.1	47.94
247.0	008.8000	0342.8	051.7	358.4	025.8410	0090.3	079.9	47.73
248.0	008.8000	0342.5	051.7	358.2	025.9899	0090.4	080.8	47.53
249.0	008.8000	0342.0	051.7	358.0	026.1230	0090.5	081.6	47.32
250.0	008.8000	0341.0	051.6	357.9	026.2314	0090.5	082.5	47.10
251.0	008.8000	0340.3	051.5	357.7	026.3393	0090.6	083.4	46.88
252.0	008.8000	0339.7	051.5	357.6	026.4417	0090.6	084.2	46.66
253.0	008.8000	0339.5	051.5	357.4	026.5447	0090.7	085.1	46.44
254.0	008.8000	0339.5	051.5	357.3	026.6465	0090.7	086.0	46.22
255.0	008.8000	0339.9	051.5	357.1	026.7470	0090.7	086.9	46.00
256.0	008.8000	0340.1	051.5	357.0	026.8375	0090.7	087.7	45.78
257.0	008.8000	0340.2	051.5	356.9	026.9153	0090.7	088.6	45.56
258.0	008.8000	0339.9	051.5	356.8	026.9725	0090.7	089.5	45.33
259.0	008.8000	0339.6	051.5	356.8	027.0234	0090.7	090.4	45.10
260.0	008.8000	0339.9	051.5	356.7	027.0818	0090.7	091.3	44.88
261.0	008.8000	0340.1	051.5	356.6	027.1304	0090.7	092.2	44.66
262.0	008.8000	0340.5	051.6	356.5	027.1754	0090.7	093.1	44.43
263.0	008.8000	0341.5	051.6	356.5	027.2307	0090.7	094.0	44.22

Table 5: FMOVER Protection of WZRN, Norlina, North Carolina

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

1212011 WZRN BLED20031029ADZ

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Protected
60 dBu

Channel = 213A
Max ERP = 2.3 kW
RCAMSL = 186 M
N. Lat. 36 29 38.0
W. Lng. 78 11 23.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
242.0	005.2799	0087.6	025.8	132.7	002.3000	0074.4	113.7	28.78	
243.0	005.3608	0087.7	025.9	132.6	002.3000	0074.4	113.3	28.86	
244.0	005.4424	0087.6	026.0	132.6	002.3000	0074.4	112.8	28.94	
245.0	005.5245	0087.8	026.1	132.5	002.3000	0074.4	112.4	29.02	
246.0	005.6072	0088.2	026.3	132.5	002.3000	0074.4	111.9	29.11	
247.0	005.6906	0088.6	026.4	132.5	002.3000	0074.4	111.4	29.20	
248.0	005.7746	0089.2	026.6	132.5	002.3000	0074.4	110.9	29.29	
249.0	005.8591	0089.8	026.8	132.5	002.3000	0074.5	110.4	29.38	
250.0	005.9444	0089.8	026.8	132.4	002.3000	0074.5	110.0	29.47	
251.0	006.1026	0090.1	027.0	132.4	002.3000	0074.5	109.5	29.56	
252.0	006.2630	0089.7	027.1	132.3	002.3000	0074.5	109.0	29.65	
253.0	006.4254	0089.4	027.2	132.2	002.3000	0074.6	108.5	29.74	
254.0	006.5899	0089.6	027.4	132.2	002.3000	0074.6	108.0	29.84	
255.0	006.7565	0089.5	027.6	132.1	002.3000	0074.6	107.5	29.93	
256.0	006.9252	0090.0	027.8	132.1	002.3000	0074.6	107.0	30.03	
257.0	007.0959	0090.8	028.1	132.0	002.3000	0074.7	106.5	30.14	
258.0	007.2687	0091.4	028.3	132.0	002.3000	0074.7	105.9	30.24	
259.0	007.4436	0091.6	028.5	131.9	002.3000	0074.7	105.4	30.34	
260.0	007.6206	0091.7	028.7	131.8	002.3000	0074.7	104.9	30.44	
261.0	007.7209	0091.7	028.7	131.7	002.3000	0074.7	104.5	30.53	
262.0	007.8218	0092.1	028.9	131.6	002.3000	0074.7	104.0	30.63	
263.0	007.9234	0092.1	029.0	131.4	002.3000	0074.8	103.5	30.72	
264.0	008.0256	0092.0	029.0	131.3	002.3000	0074.9	103.1	30.80	
265.0	008.1285	0092.1	029.1	131.1	002.3000	0075.0	102.7	30.90	
266.0	008.2321	0092.2	029.2	131.0	002.3000	0075.1	102.2	30.99	
267.0	008.3363	0092.0	029.3	130.8	002.3000	0075.2	101.8	31.07	
268.0	008.4411	0091.6	029.3	130.6	002.3000	0075.2	101.5	31.15	
269.0	008.5466	0091.9	029.5	130.4	002.3000	0075.3	101.0	31.25	
270.0	008.6528	0092.7	029.6	130.3	002.3000	0075.5	100.5	31.36	
271.0	008.7529	0092.8	029.8	130.1	002.3000	0075.8	100.1	31.46	
272.0	008.8536	0093.3	029.9	129.9	002.3000	0076.1	099.7	31.57	
273.0	008.9549	0093.5	030.0	129.7	002.3000	0076.3	099.3	31.66	
274.0	009.0568	0093.4	030.1	129.5	002.3000	0076.3	098.9	31.74	
275.0	009.1592	0092.6	030.0	129.2	002.3000	0076.5	098.6	31.81	
276.0	009.2622	0091.6	030.0	128.9	002.3000	0077.2	098.4	31.88	
277.0	009.3658	0091.0	029.9	128.7	002.3000	0077.7	098.1	31.96	
278.0	009.4700	0090.2	029.9	128.4	002.3000	0078.3	097.9	32.04	
279.0	009.5747	0090.2	029.9	128.2	002.3000	0078.9	097.6	32.13	
280.0	009.6800	0092.0	030.3	128.0	002.3000	0079.4	097.0	32.28	
281.0	009.8568	0094.6	030.9	127.9	002.3000	0079.7	096.3	32.47	
282.0	010.0352	0096.6	031.3	127.7	002.3000	0080.0	095.6	32.63	
283.0	010.2152	0097.1	031.5	127.5	002.3000	0079.8	095.2	32.73	
284.0	010.3968	0097.3	031.7	127.2	002.3000	0079.2	094.8	32.79	
285.0	010.5800	0097.2	031.8	126.9	002.3000	0079.0	094.5	32.86	
286.0	010.7648	0097.3	032.0	126.6	002.3000	0079.0	094.1	32.94	
287.0	010.9512	0097.5	032.1	126.4	002.3000	0079.1	093.8	33.03	
288.0	011.1392	0097.5	032.3	126.1	002.3000	0079.2	093.5	33.11	
289.0	011.3288	0097.5	032.4	125.8	002.3000	0079.3	093.2	33.19	
290.0	011.5200	0097.4	032.5	125.4	002.3000	0079.4	092.9	33.26	
291.0	011.7128	0097.4	032.7	125.1	002.3000	0079.5	092.6	33.34	
292.0	011.9072	0097.5	032.8	124.8	002.3000	0079.7	092.3	33.41	

293.0	012.1032	0097.5	032.9	124.5	002.3000	0080.0	092.1	33.49
294.0	012.3008	0097.5	033.1	124.1	002.3000	0079.8	091.9	33.54
295.0	012.5000	0097.4	033.2	123.8	002.3000	0079.8	091.7	33.59
296.0	012.7008	0097.2	033.3	123.4	002.3000	0079.7	091.5	33.63
297.0	012.9032	0097.2	033.4	123.1	002.3000	0079.5	091.3	33.67
298.0	013.1072	0097.1	033.5	122.7	002.3000	0079.8	091.1	33.73
299.0	013.3128	0097.3	033.7	122.4	002.3000	0080.6	090.9	33.81
300.0	013.5200	0097.1	033.7	122.0	002.3000	0081.4	090.8	33.88
301.0	013.7288	0097.1	033.9	121.6	002.3000	0082.6	090.7	33.97
302.0	013.9392	0096.8	033.9	121.2	002.3000	0083.5	090.6	34.03
303.0	014.1512	0096.6	034.0	120.9	002.3000	0084.1	090.5	34.07
304.0	014.3648	0096.1	034.0	120.5	002.3000	0084.6	090.5	34.10
305.0	014.5800	0096.2	034.2	120.1	002.3000	0084.8	090.4	34.13
306.0	014.7968	0096.3	034.3	119.7	002.3000	0084.7	090.3	34.15
307.0	015.0152	0096.1	034.4	119.3	002.3000	0084.9	090.3	34.16
308.0	015.2352	0096.2	034.5	119.0	002.3000	0085.2	090.3	34.19
309.0	015.4568	0095.6	034.5	118.6	002.3000	0084.7	090.3	34.15
310.0	015.6800	0094.3	034.4	118.2	002.3000	0083.9	090.6	34.05
311.0	016.1767	0093.5	034.5	117.8	002.3000	0083.3	090.6	34.02
312.0	016.6811	0093.0	034.7	117.4	002.3000	0083.2	090.6	34.01
313.0	017.1932	0092.2	034.8	117.0	002.3000	0083.5	090.7	34.01
314.0	017.7132	0091.8	034.9	116.6	002.3000	0083.9	090.7	34.03
315.0	018.2408	0091.7	035.2	116.2	002.3000	0083.9	090.6	34.03
316.0	018.7762	0091.6	035.4	115.8	002.3000	0084.0	090.7	34.03
317.0	019.3193	0091.3	035.5	115.4	002.3000	0083.8	090.7	34.01
318.0	019.8702	0090.8	035.7	115.0	002.3000	0083.9	090.8	33.98
319.0	020.4288	0090.6	035.8	114.6	002.3000	0084.6	090.9	34.00
320.0	020.9952	0090.7	036.1	114.2	002.3000	0085.3	090.9	34.02
321.0	021.9917	0090.7	036.4	113.7	002.3000	0086.3	090.9	34.08
322.0	023.0113	0090.6	036.8	113.3	002.3000	0087.1	090.9	34.11
323.0	024.0540	0090.4	037.1	112.8	002.3000	0087.3	090.9	34.11
324.0	025.1199	0090.4	037.4	112.4	002.3000	0087.5	091.0	34.11
325.0	026.2088	0090.1	037.7	111.9	002.3000	0087.3	091.1	34.08
326.0	027.3208	0090.0	038.0	111.5	002.3000	0087.3	091.2	34.05
327.0	028.4560	0089.9	038.3	111.0	002.3000	0088.0	091.3	34.05
328.0	029.6142	0089.7	038.6	110.5	002.3000	0088.8	091.5	34.04
329.0	030.7956	0089.7	038.9	110.1	002.3000	0088.6	091.6	33.99
330.0	032.0000	0089.8	039.3	109.6	002.3000	0088.0	091.8	33.92
331.0	032.0000	0089.8	039.3	109.3	002.3000	0088.0	092.3	33.80
332.0	032.0000	0089.8	039.3	109.0	002.3000	0088.1	092.7	33.69
333.0	032.0000	0089.8	039.3	108.7	002.3000	0088.5	093.2	33.59
334.0	032.0000	0089.9	039.3	108.4	002.3000	0088.7	093.7	33.48
335.0	032.0000	0090.0	039.3	108.1	002.3000	0089.2	094.1	33.38
336.0	032.0000	0090.2	039.3	107.8	002.3000	0089.9	094.6	33.29
337.0	032.0000	0090.3	039.3	107.5	002.3000	0089.9	095.1	33.17
338.0	032.0000	0090.2	039.3	107.2	002.3000	0089.6	095.6	33.03
339.0	032.0000	0090.1	039.3	107.0	002.3000	0089.8	096.2	32.90
340.0	032.0000	0090.0	039.3	106.7	002.3000	0090.2	096.7	32.79
341.0	032.0000	0090.1	039.3	106.5	002.3000	0090.6	097.3	32.68
342.0	032.0000	0090.2	039.3	106.2	002.3000	0090.9	097.8	32.56
343.0	032.0000	0090.0	039.3	106.0	002.3000	0091.1	098.4	32.44
344.0	032.0000	0089.8	039.3	105.8	002.3000	0091.1	099.0	32.30
345.0	032.0000	0089.7	039.2	105.6	002.3000	0091.0	099.6	32.16
346.0	032.0000	0089.6	039.2	105.4	002.3000	0091.1	100.2	32.03
347.0	032.0000	0089.6	039.2	105.2	002.3000	0091.3	100.8	31.90
348.0	032.0000	0089.5	039.2	105.1	002.3000	0091.4	101.4	31.77
349.0	032.0000	0089.5	039.2	104.9	002.3000	0091.4	102.0	31.64
350.0	032.0000	0089.4	039.2	104.7	002.3000	0091.5	102.7	31.51
351.0	031.2366	0089.4	039.0	104.7	002.3000	0091.4	103.4	31.36
352.0	030.4824	0089.5	038.8	104.6	002.3000	0091.4	104.1	31.21
353.0	029.7375	0089.7	038.6	104.6	002.3000	0091.4	104.7	31.07
354.0	029.0017	0089.8	038.5	104.5	002.3000	0091.4	105.4	30.93
355.0	028.2752	0090.1	038.3	104.4	002.3000	0091.3	106.1	30.79
356.0	027.5579	0090.5	038.2	104.4	002.3000	0091.3	106.8	30.65
357.0	026.8498	0090.7	038.0	104.4	002.3000	0091.3	107.5	30.52
358.0	026.1509	0090.5	037.8	104.4	002.3000	0091.3	108.2	30.38
359.0	025.4612	0090.2	037.5	104.4	002.3000	0091.3	108.9	30.24
000.0	024.7808	0090.0	037.3	104.5	002.3000	0091.4	109.6	30.11
001.0	023.9432	0089.7	036.9	104.5	002.3000	0091.4	110.3	29.98

08-03-2011 Terrain Data: NED 03 SEC FMOver Analysis

WZRN BLED20031029ADZ 1212011

Channel = 213A
Max ERP = 2.3 kW
RCAMSL = 186 M
N. Lat. 36 29 38.0
W. Lng. 78 11 23.0
Protected
60 dBu

Channel = 213C2
Max ERP = 32 kW
RCAMSL = 100 M
N. Lat. 35 54 24.0
W. Lng. 77 00 32.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
061.0	002.3000	0111.7	024.0	312.5	016.9151	0092.8	114.7	37.88	
062.0	002.3000	0110.7	023.9	312.3	016.8565	0092.8	114.3	37.94	
063.0	002.3000	0108.9	023.7	312.2	016.7769	0092.9	114.0	37.98	
064.0	002.3000	0108.7	023.7	312.1	016.7309	0093.0	113.6	38.03	
065.0	002.3000	0108.8	023.7	312.0	016.6916	0093.0	113.2	38.10	
066.0	002.3000	0109.7	023.8	312.0	016.6688	0093.0	112.8	38.17	
067.0	002.3000	0110.2	023.9	311.9	016.6345	0093.0	112.4	38.23	
068.0	002.3000	0110.8	023.9	311.8	016.6003	0093.1	112.0	38.30	
069.0	002.3000	0111.0	023.9	311.7	016.5534	0093.1	111.6	38.35	
070.0	002.3000	0110.1	023.9	311.6	016.4820	0093.2	111.3	38.40	
071.0	002.3000	0110.1	023.9	311.5	016.4277	0093.2	110.9	38.45	
072.0	002.3000	0108.5	023.7	311.3	016.3362	0093.3	110.7	38.48	
073.0	002.3000	0105.4	023.4	311.1	016.2096	0093.5	110.5	38.49	
074.0	002.3000	0103.7	023.2	310.9	016.1124	0093.6	110.2	38.51	
075.0	002.3000	0102.3	023.0	310.7	016.0206	0093.8	110.0	38.54	
076.0	002.3000	0101.5	023.0	310.5	015.9419	0094.0	109.7	38.58	
077.0	002.3000	0100.3	022.8	310.3	015.8521	0094.1	109.5	38.60	
078.0	002.3000	0100.9	022.9	310.2	015.8021	0094.1	109.1	38.66	
079.0	002.3000	0101.7	023.0	310.1	015.7532	0094.2	108.8	38.72	
080.0	002.3000	0102.6	023.1	310.1	015.7056	0094.3	108.4	38.78	
081.0	002.3000	0102.5	023.1	309.9	015.6590	0094.3	108.1	38.83	
082.0	002.3000	0102.8	023.1	309.8	015.6298	0094.4	107.8	38.89	
083.0	002.3000	0101.4	022.9	309.6	015.5833	0094.6	107.6	38.91	
084.0	002.3000	0100.0	022.8	309.4	015.5372	0094.8	107.4	38.95	
085.0	002.3000	0098.4	022.6	309.1	015.4884	0095.3	107.3	38.98	
086.0	002.3000	0097.9	022.6	309.0	015.4490	0095.7	107.0	39.02	
087.0	002.3000	0098.2	022.6	308.8	015.4169	0095.9	106.7	39.08	
088.0	002.3000	0098.7	022.6	308.7	015.3851	0096.1	106.5	39.14	
089.0	002.3000	0098.1	022.6	308.5	015.3435	0096.2	106.3	39.17	
090.0	002.3000	0098.1	022.6	308.3	015.3065	0096.3	106.0	39.21	
091.0	002.3000	0097.9	022.6	308.1	015.2677	0096.3	105.8	39.25	
092.0	002.3000	0097.9	022.6	308.0	015.2288	0096.2	105.6	39.28	
093.0	002.3000	0097.0	022.5	307.8	015.1837	0096.1	105.4	39.29	
094.0	002.3000	0096.4	022.4	307.6	015.1399	0096.1	105.3	39.31	
095.0	002.3000	0095.6	022.3	307.4	015.0940	0096.1	105.1	39.32	
096.0	002.3000	0094.2	022.1	307.1	015.0445	0096.1	105.1	39.32	
097.0	002.3000	0094.3	022.1	307.0	015.0049	0096.1	104.9	39.36	
098.0	002.3000	0093.9	022.1	306.8	014.9616	0096.2	104.7	39.38	
099.0	002.3000	0094.3	022.1	306.6	014.9230	0096.2	104.5	39.41	
100.0	002.3000	0094.4	022.2	306.4	014.8820	0096.2	104.3	39.44	
101.0	002.3000	0094.8	022.2	306.2	014.8423	0096.3	104.1	39.47	
102.0	002.3000	0093.3	022.0	306.0	014.7914	0096.4	104.1	39.46	
103.0	002.3000	0092.6	021.9	305.8	014.7452	0096.4	104.0	39.46	
104.0	002.3000	0091.3	021.8	305.5	014.6962	0096.4	104.0	39.45	
105.0	002.3000	0091.4	021.8	305.3	014.6538	0096.3	103.9	39.46	
106.0	002.3000	0091.1	021.8	305.1	014.6096	0096.3	103.8	39.47	
107.0	002.3000	0089.7	021.6	304.9	014.5604	0096.2	103.9	39.44	
108.0	002.3000	0089.4	021.6	304.7	014.5161	0096.2	103.8	39.44	
109.0	002.3000	0088.1	021.4	304.5	014.4681	0096.2	103.8	39.42	
110.0	002.3000	0088.4	021.4	304.3	014.4261	0096.1	103.7	39.43	
111.0	002.3000	0088.0	021.4	304.1	014.3813	0096.1	103.7	39.42	
112.0	002.3000	0087.3	021.3	303.9	014.3362	0096.2	103.7	39.41	
113.0	002.3000	0087.1	021.3	303.7	014.2924	0096.3	103.6	39.41	
114.0	002.3000	0085.6	021.1	303.4	014.2457	0096.4	103.8	39.37	
115.0	002.3000	0083.9	020.9	303.2	014.1993	0096.5	103.9	39.33	

116.0	002.3000	0084.0	020.9	303.0	014.1569	0096.5	103.9	39.33
117.0	002.3000	0083.6	020.8	302.8	014.1137	0096.6	103.9	39.31
118.0	002.3000	0083.6	020.8	302.6	014.0712	0096.7	103.9	39.31
119.0	002.3000	0085.2	021.0	302.4	014.0297	0096.7	103.6	39.34
120.0	002.3000	0084.7	021.0	302.2	013.9865	0096.7	103.7	39.32
121.0	002.3000	0083.9	020.9	302.0	013.9436	0096.8	103.8	39.29
122.0	002.3000	0081.4	020.6	301.8	013.9016	0097.0	104.1	39.22
123.0	002.3000	0079.6	020.3	301.6	013.8610	0097.0	104.3	39.16
124.0	002.3000	0079.8	020.4	301.4	013.8198	0097.1	104.3	39.15
125.0	002.3000	0079.6	020.3	301.2	013.7790	0097.1	104.4	39.13
126.0	002.3000	0079.2	020.3	301.0	013.7388	0097.1	104.4	39.10
127.0	002.3000	0079.0	020.3	300.9	013.6987	0097.1	104.5	39.07
128.0	002.3000	0079.4	020.3	300.7	013.6575	0097.0	104.5	39.05
129.0	002.3000	0077.0	020.0	300.5	013.6231	0096.9	104.9	38.97
130.0	002.3000	0075.9	019.9	300.3	013.5868	0097.0	105.1	38.91
131.0	002.3000	0075.1	019.7	300.1	013.5506	0097.0	105.2	38.87
132.0	002.3000	0074.7	019.7	300.0	013.5137	0097.1	105.4	38.83
133.0	002.3000	0074.1	019.6	299.8	013.4778	0097.2	105.5	38.79
134.0	002.3000	0072.8	019.4	299.6	013.4455	0097.2	105.8	38.73
135.0	002.3000	0070.5	019.1	299.5	013.4184	0097.3	106.1	38.65
136.0	002.3000	0068.7	018.9	299.4	013.3909	0097.3	106.5	38.57
137.0	002.3000	0067.6	018.8	299.2	013.3610	0097.3	106.7	38.51
138.0	002.3000	0067.4	018.7	299.1	013.3275	0097.3	106.8	38.48
139.0	002.3000	0067.8	018.8	298.9	013.2918	0097.3	106.9	38.45
140.0	002.3000	0069.5	019.0	298.7	013.2485	0097.3	106.8	38.45
141.0	002.2624	0071.1	019.1	298.5	013.2089	0097.2	106.8	38.44
142.0	002.2252	0072.0	019.2	298.3	013.1734	0097.2	106.9	38.41
143.0	002.1882	0072.0	019.1	298.2	013.1435	0097.2	107.1	38.35
144.0	002.1516	0071.0	018.9	298.1	013.1214	0097.1	107.5	38.28
145.0	002.1153	0070.6	018.8	297.9	013.0962	0097.1	107.7	38.22
146.0	002.0792	0070.0	018.6	297.8	013.0733	0097.1	108.0	38.15
147.0	002.0435	0070.3	018.5	297.7	013.0450	0097.1	108.2	38.10
148.0	002.0081	0070.3	018.5	297.6	013.0201	0097.1	108.5	38.05
149.0	001.9730	0068.5	018.1	297.5	013.0090	0097.2	108.9	37.96
150.0	001.9383	0065.8	017.7	297.5	013.0065	0097.2	109.5	37.85
151.0	001.8593	0065.2	017.4	297.5	012.9959	0097.2	109.9	37.77
152.0	001.7819	0066.8	017.4	297.3	012.9683	0097.2	110.0	37.73
153.0	001.7062	0068.0	017.4	297.2	012.9457	0097.2	110.2	37.68
154.0	001.6322	0069.6	017.4	297.1	012.9200	0097.2	110.4	37.64
155.0	001.5598	0069.9	017.2	297.0	012.9060	0097.2	110.7	37.57
156.0	001.4890	0069.5	016.9	297.0	012.8996	0097.2	111.1	37.50
157.0	001.4198	0070.4	016.8	296.9	012.8837	0097.2	111.4	37.44
158.0	001.3524	0072.9	016.9	296.8	012.8547	0097.2	111.5	37.41
159.0	001.2865	0074.5	016.9	296.7	012.8341	0097.2	111.8	37.36
160.0	001.2223	0075.5	016.8	296.6	012.8205	0097.2	112.0	37.30
161.0	001.1725	0072.6	016.2	296.7	012.8399	0097.2	112.6	37.20
162.0	001.1238	0070.0	015.7	296.8	012.8568	0097.2	113.2	37.10
163.0	001.0761	0068.9	015.4	296.8	012.8609	0097.2	113.6	37.03
164.0	001.0294	0071.7	015.5	296.7	012.8324	0097.2	113.7	37.00
165.0	000.9837	0072.6	015.4	296.6	012.8212	0097.2	114.0	36.95
166.0	000.9391	0073.4	015.3	296.5	012.8116	0097.2	114.2	36.90
167.0	000.8956	0073.4	015.1	296.5	012.8094	0097.2	114.6	36.84
168.0	000.8530	0076.5	015.3	296.4	012.7822	0097.2	114.7	36.80
169.0	000.8115	0076.4	015.1	296.4	012.7828	0097.2	115.0	36.75
170.0	000.7711	0075.6	014.8	296.4	012.7898	0097.2	115.4	36.68
171.0	000.7397	0076.0	014.7	296.4	012.7846	0097.2	115.7	36.63
172.0	000.7090	0076.5	014.6	296.4	012.7799	0097.2	116.0	36.58
173.0	000.6789	0073.6	014.1	296.5	012.8013	0097.2	116.4	36.51
174.0	000.6495	0073.1	013.9	296.5	012.8051	0097.2	116.7	36.46
175.0	000.6207	0072.8	013.8	296.5	012.8081	0097.2	117.0	36.41
176.0	000.5926	0075.4	013.8	296.4	012.7896	0097.2	117.2	36.37
177.0	000.5652	0075.5	013.7	296.4	012.7913	0097.2	117.5	36.32
178.0	000.5383	0076.6	013.6	296.4	012.7858	0097.2	117.7	36.28
179.0	000.5122	0075.0	013.3	296.5	012.8014	0097.2	118.0	36.22
180.0	000.4867	0075.2	013.2	296.5	012.8039	0097.2	118.3	36.18

Figure 1: Allocation Study
Roanoke Valley Communications, Inc.

FMCommander Full Allocation Study - NED 03 SEC

08-03-2011

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR

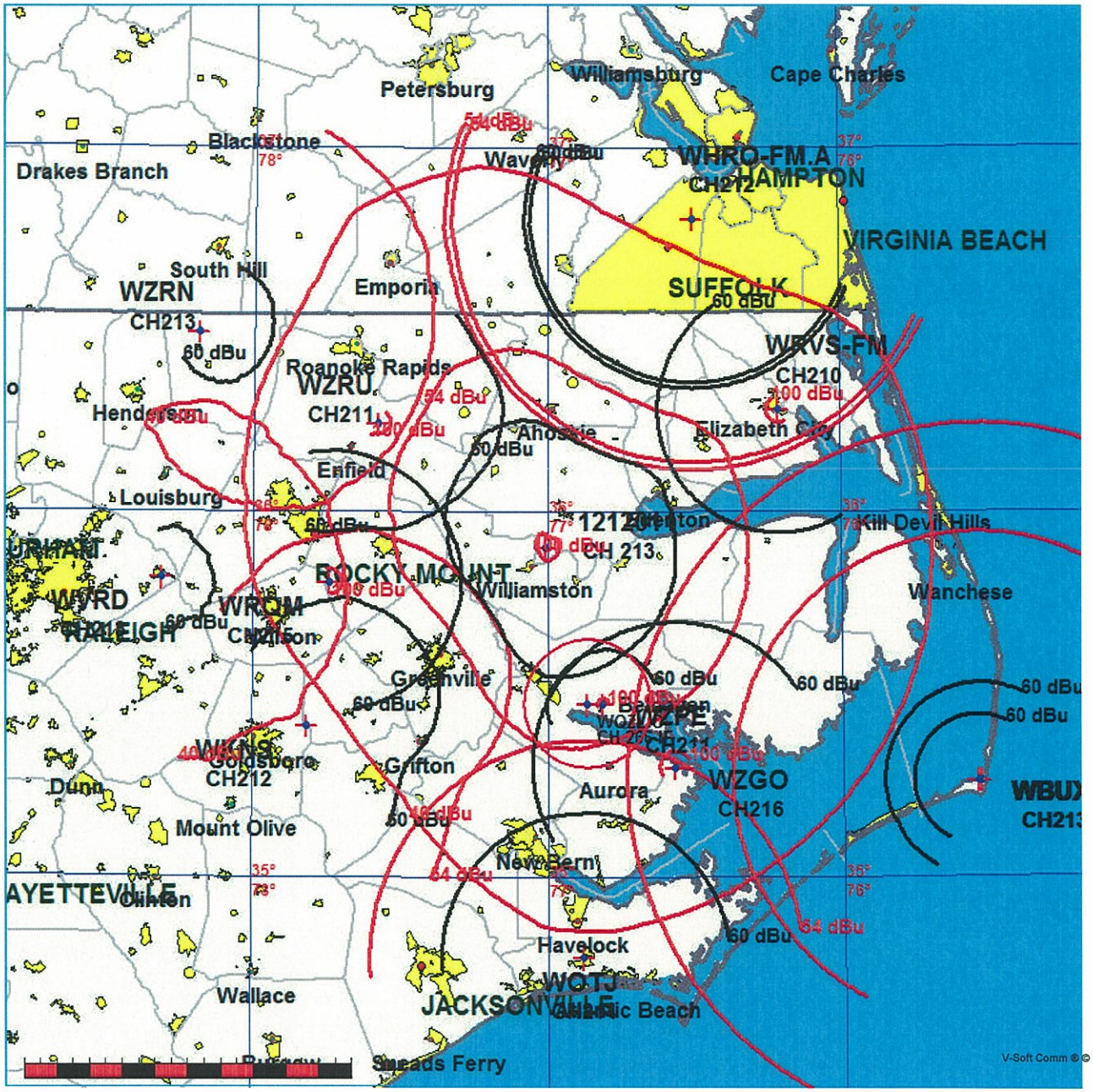


Figure 2: Allocation Study: WKNS
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 0.58 km, Out= 10.04 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WKNS CH 212 C2 DA BLED19980604KD
Lat= 35 25 01.0, Lng= 77 48 57.0
35.0 kW 98 M HAAT, 130 M COR
Prot.= 60 dBu, Intef.= 54 dBu

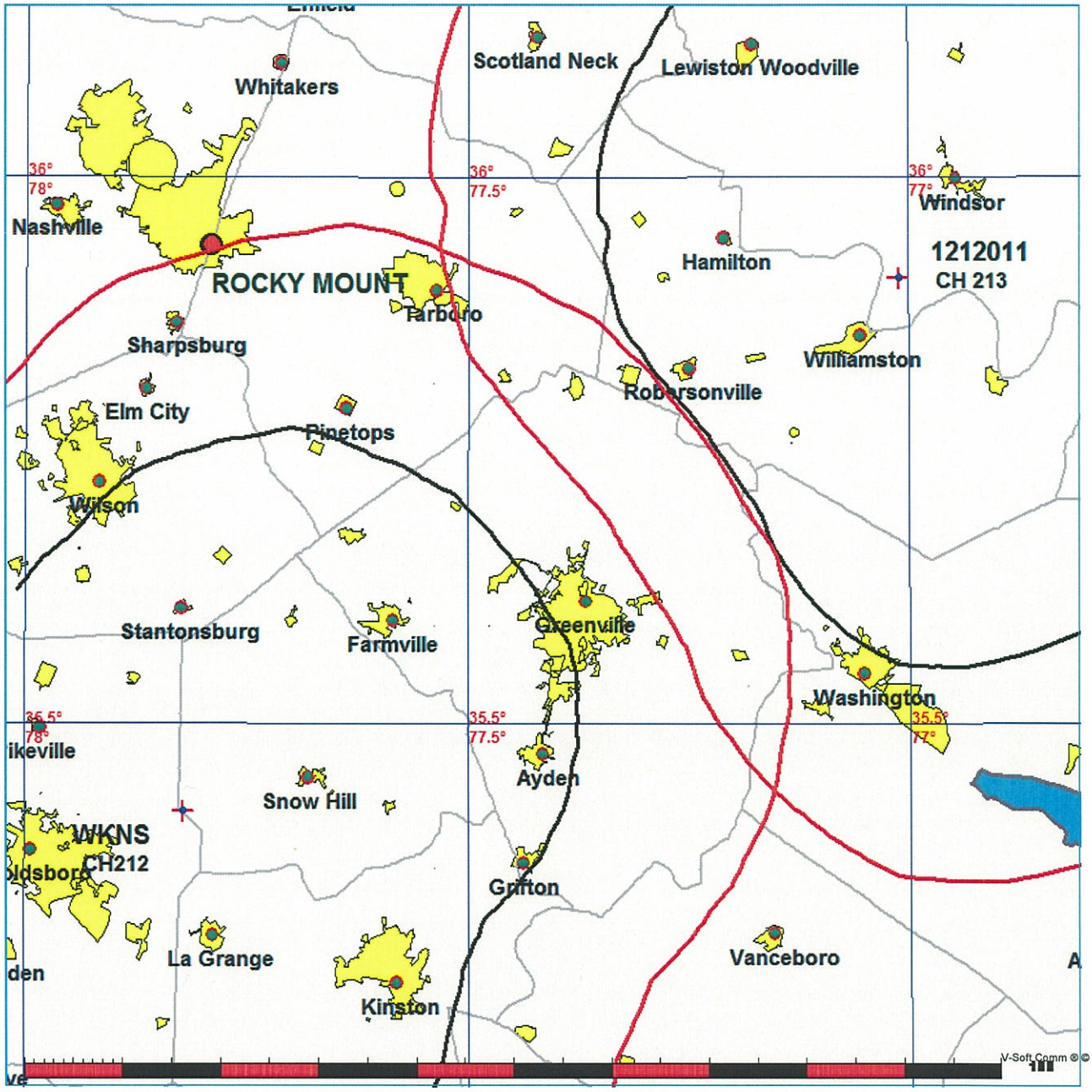


Figure 2A: Allocation Study: WKNS Detail
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 0.58 km, Out= 10.04 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WKNS CH 212 C2 DA BLED19980604KD
Lat= 35 25 01.0, Lng= 77 48 57.0
35.0 kW 98 M HAAT, 130 M COR
Prot.= 60 dBu, Intef.= 54 dBu

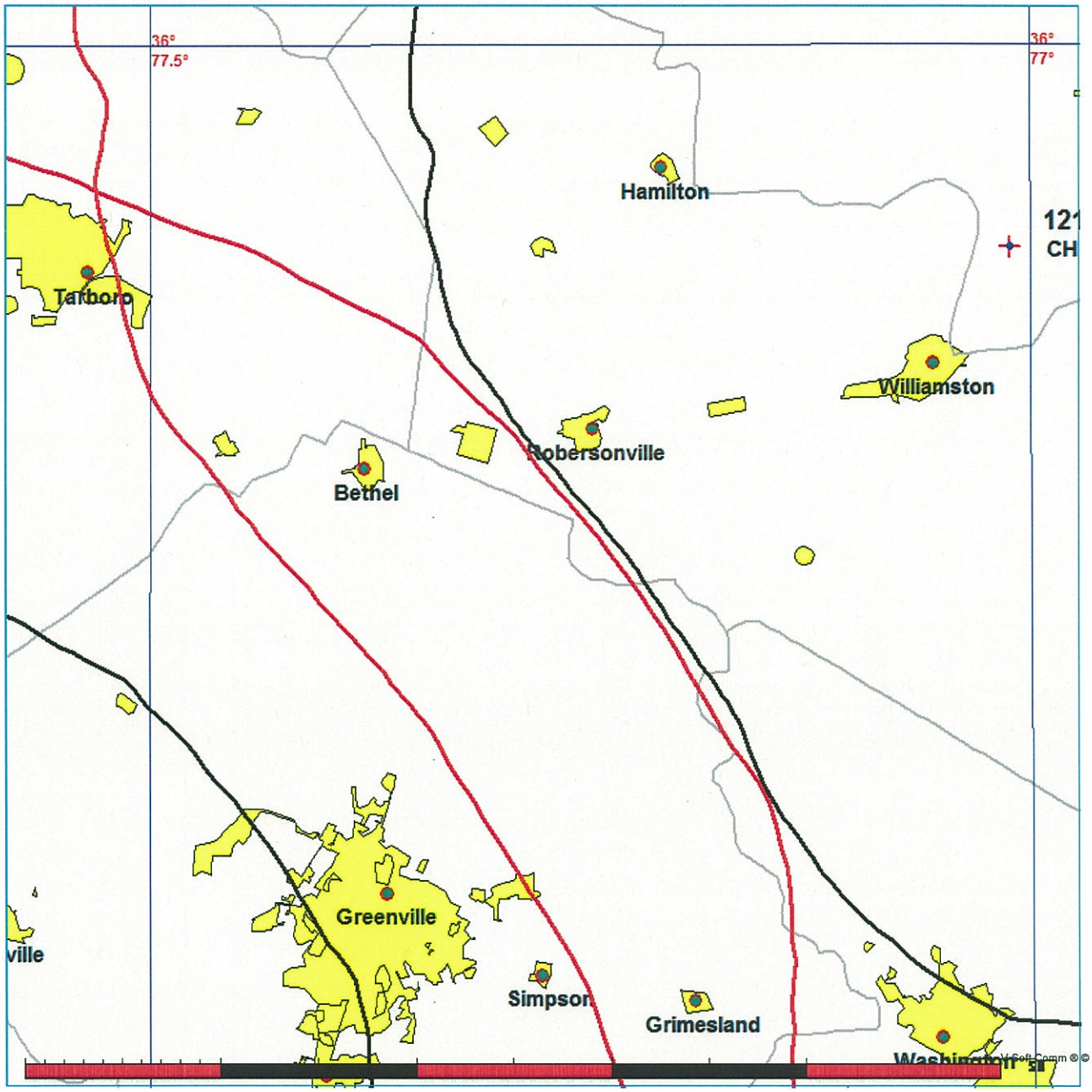


Figure 3: Allocation Study: WBUX
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 2.17 km, Out= 2.35 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WBUX-C CH 213 C2 BPED20101209AIW
Lat= 35 16 02.0, Lng= 75 32 07.0
30.0 kW 49 M HAAT, 49 M COR
Prot.= 60 dBu, Intef.= 40 dBu

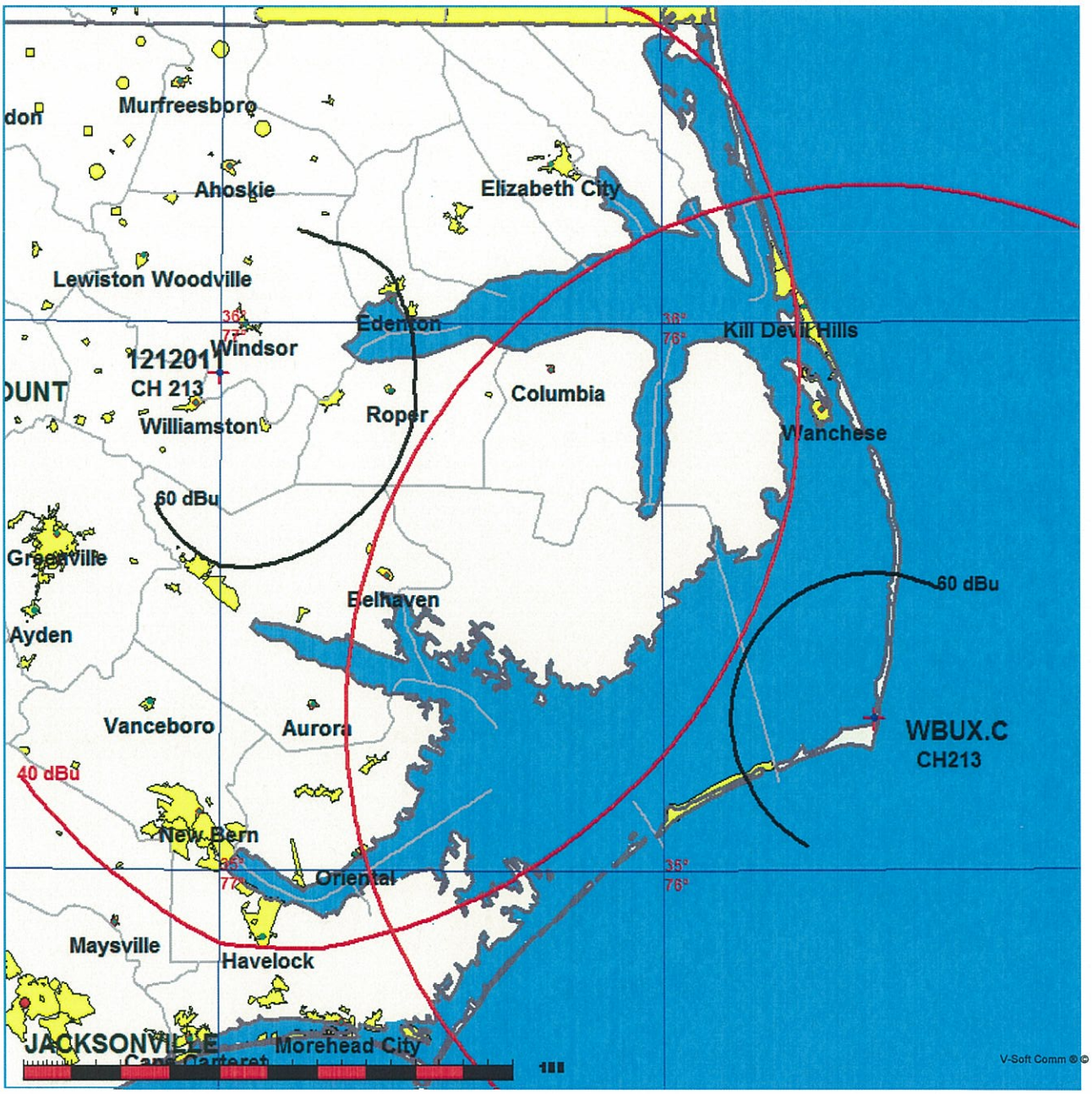


Figure 3A: Allocation Study: WBUX Detail
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 2.17 km, Out= 2.35 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WBUX-C CH 213 C2 BPED20101209AIW
Lat= 35 16 02.0, Lng= 75 32 07.0
30.0 kW 49 M HAAT, 49 M COR
Prot.= 60 dBu, Intef.= 40 dBu

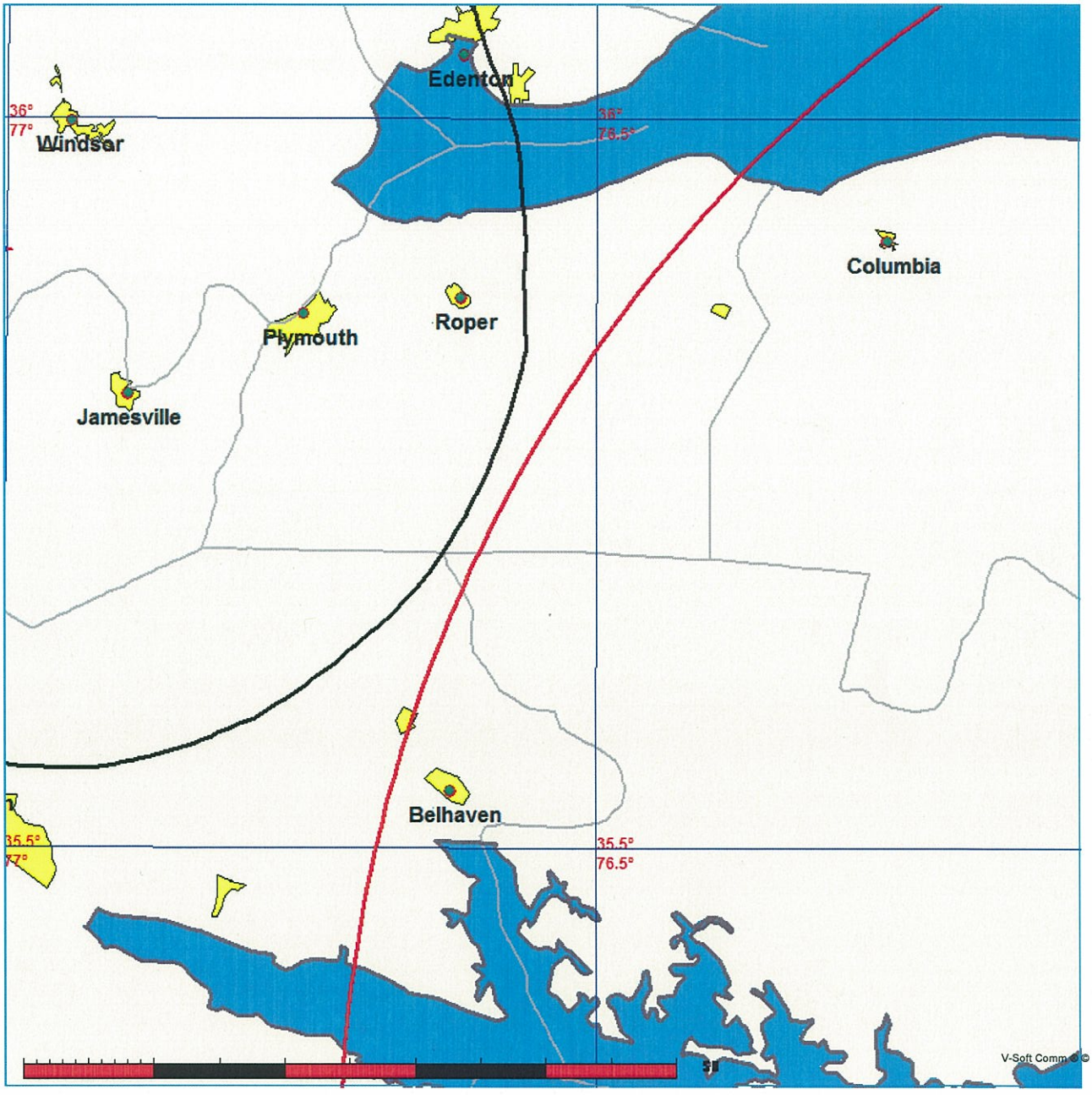


Figure 4: Allocation Study: WHRO.A
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 1.45 km, Out= 7.19 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WHRO-FM.A CH 212 B BPED20030507ABV
Lat= 36 48 31.0, Lng= 76 30 13.0
8.8 kW 350.3 M HAAT, 353.3 M COR
Prot.= 60 dBu, Intef.= 54 dBu

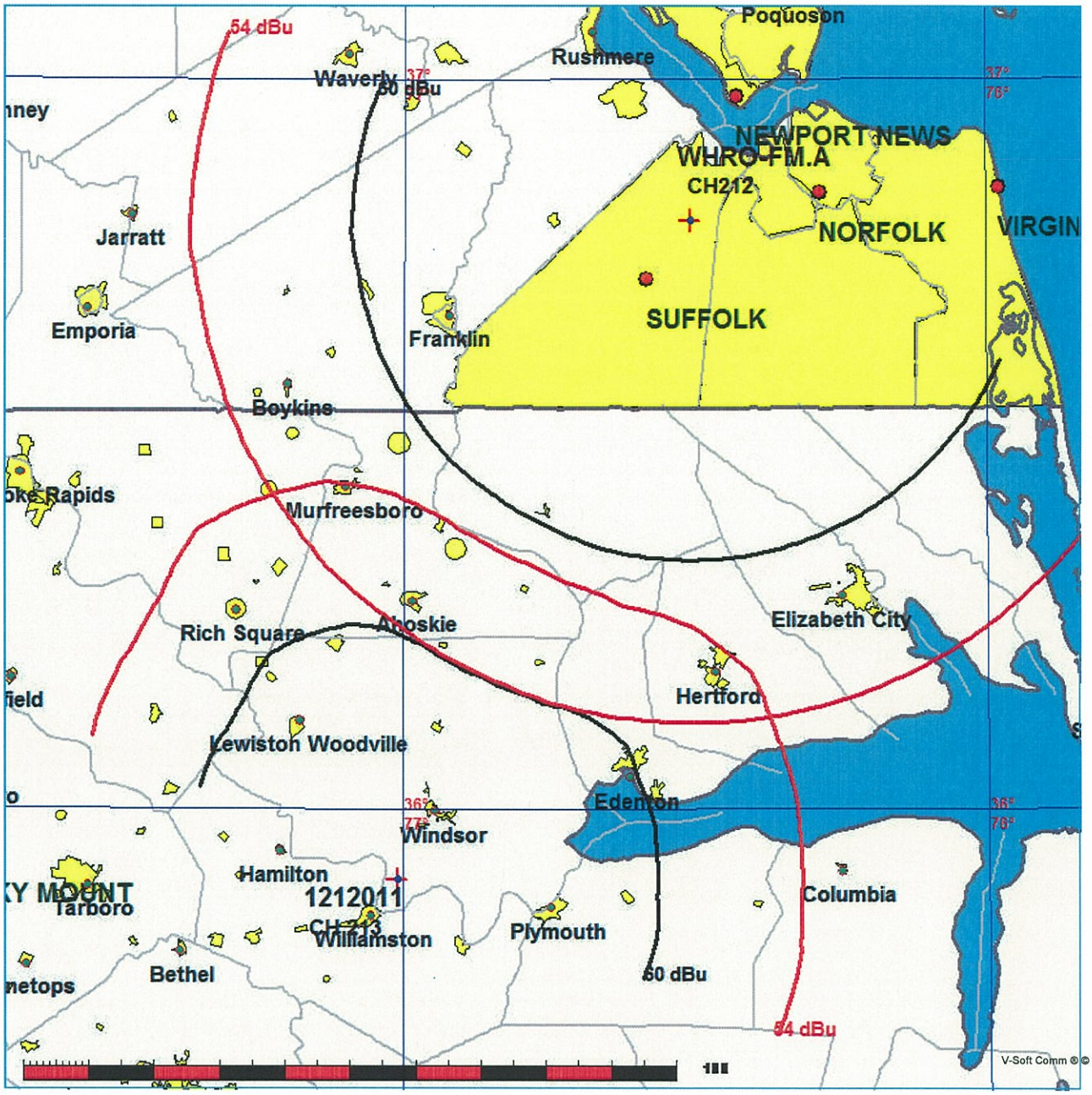


Figure 4A: Allocation Study: WHRO.A Detail
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 1.45 km, Out= 7.19 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WHRO-FM.A CH 212 B BPED20030507ABV
Lat= 36 48 31.0, Lng= 76 30 13.0
8.8 kW 350.3 M HAAT, 353.3 M COR
Prot.= 60 dBu, Intef.= 54 dBu

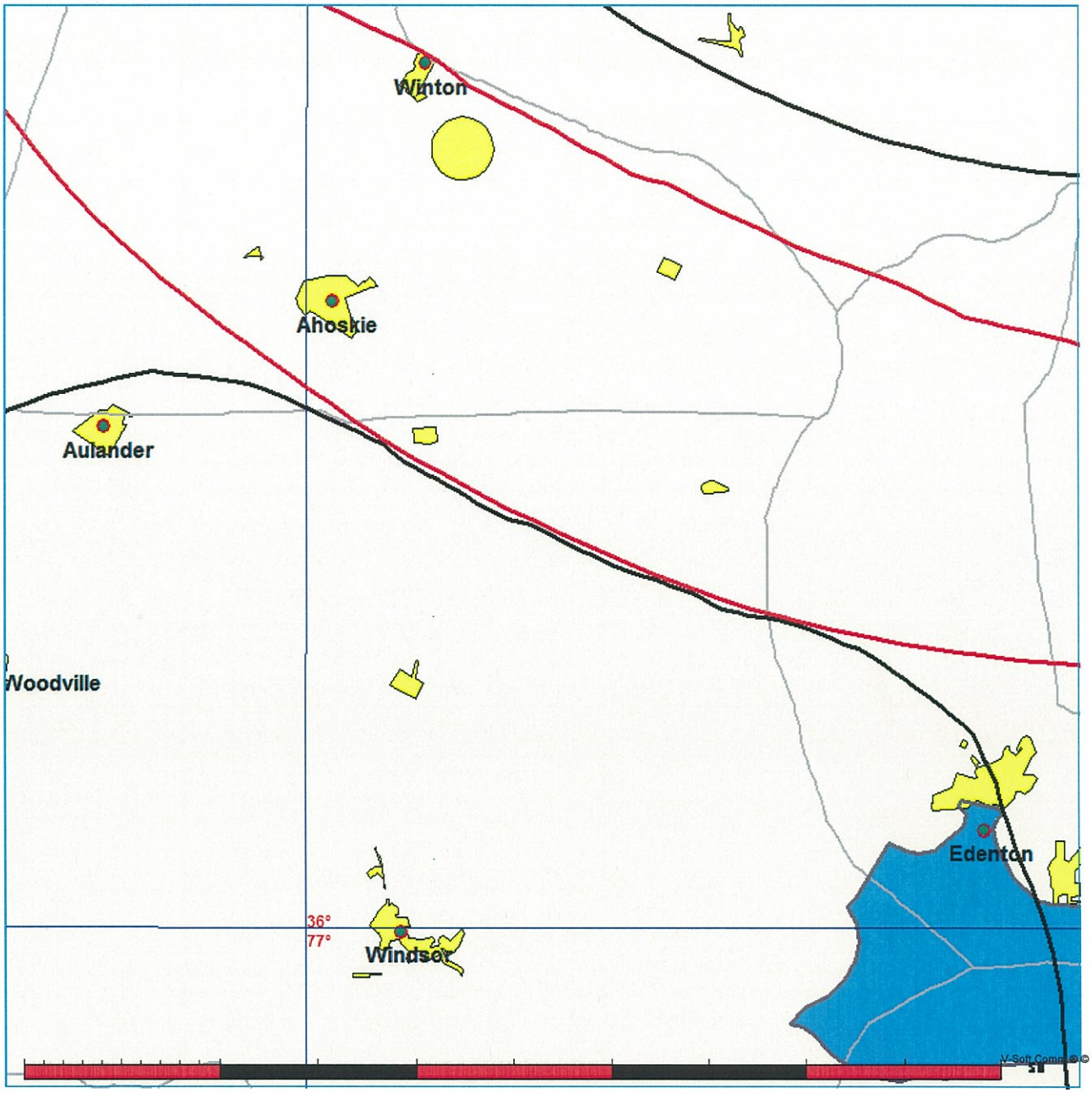


Figure 5: Allocation Study: WZRN
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 22.13 km, Out= 3.24 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WZRN CH 213 A DA BLED20031029ADZ
Lat= 36 29 38.0, Lng= 78 11 23.0
2.3 kW 91 M HAAT, 186 M COR
Prot.= 60 dBu, Intef.= 40 dBu

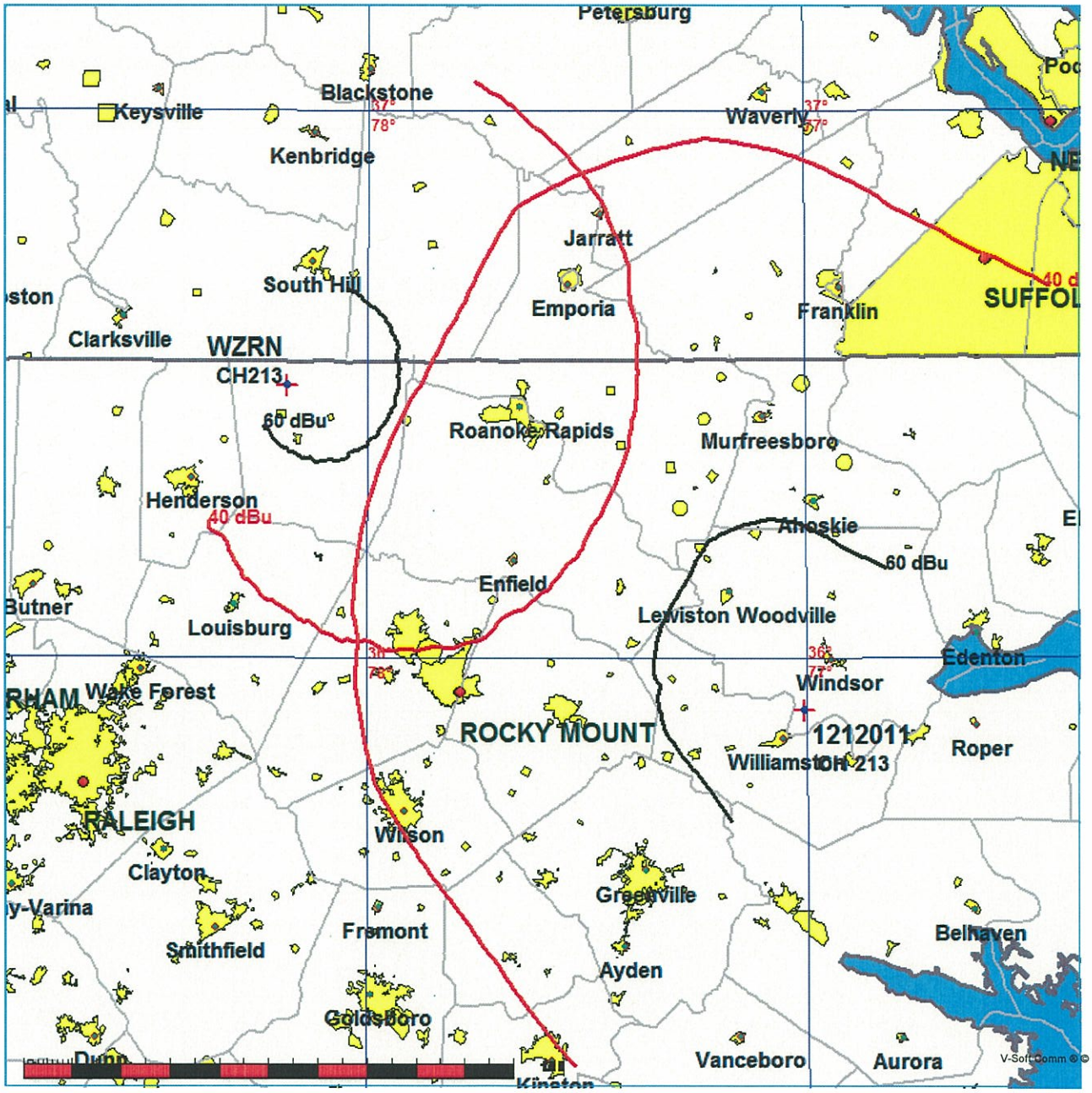


Figure 5A: Allocation Study: WZRN Detail
Roanoke Valley Communications, Inc.

FMCommander Single Allocation Study - 08-03-2011 - NED 03 SEC
1212011's Overlaps (In= 22.13 km, Out= 3.24 km)

1212011 CH 213 C2 DA
Lat= 35 54 24.0, Lng= 77 00 32.0
32.0 kW 92.3 M HAAT, 100 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WZRN CH 213 A DA BLED20031029ADZ
Lat= 36 29 38.0, Lng= 78 11 23.0
2.3 kW 91 M HAAT, 186 M COR
Prot.= 60 dBu, Intef.= 40 dBu

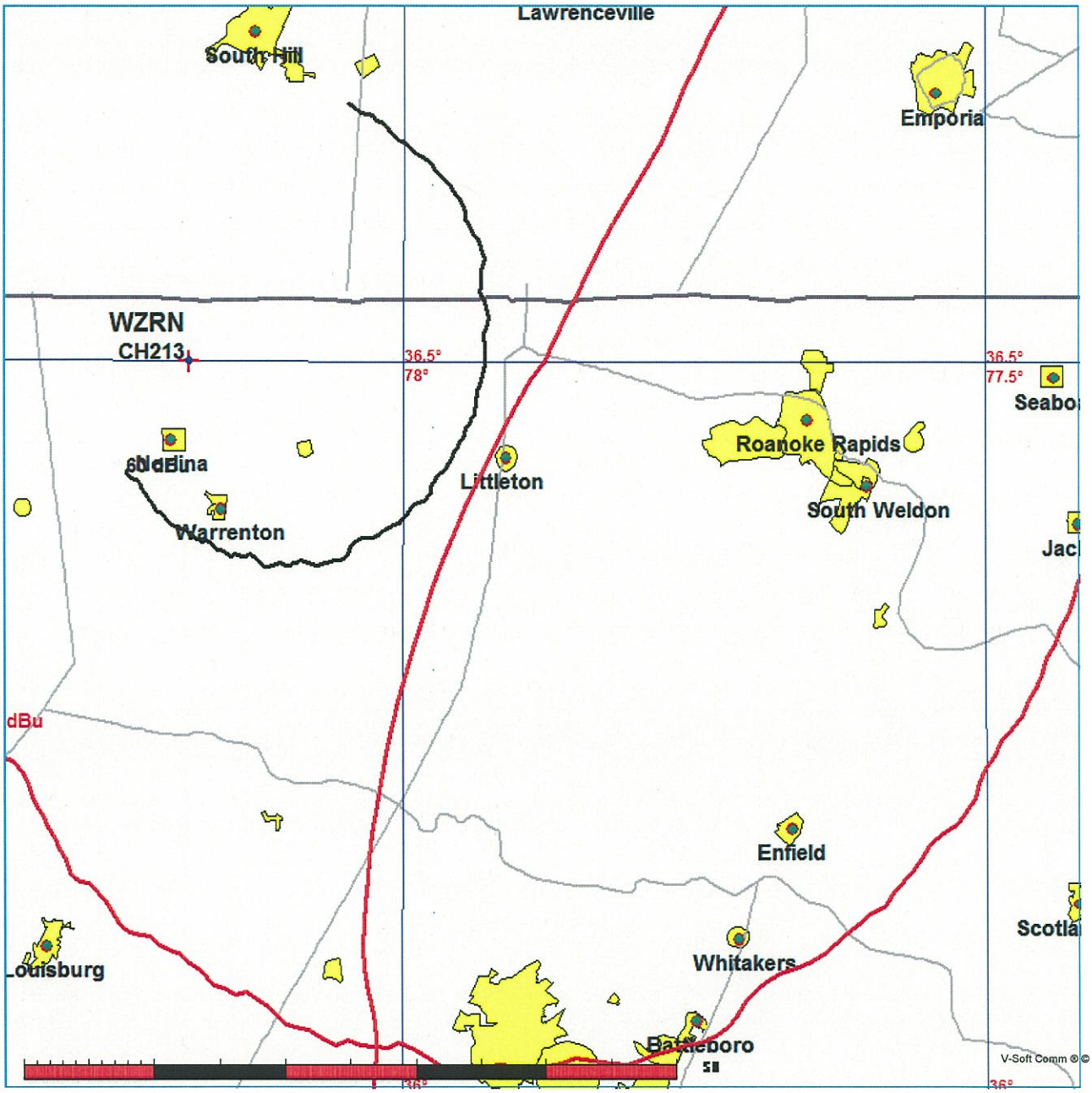
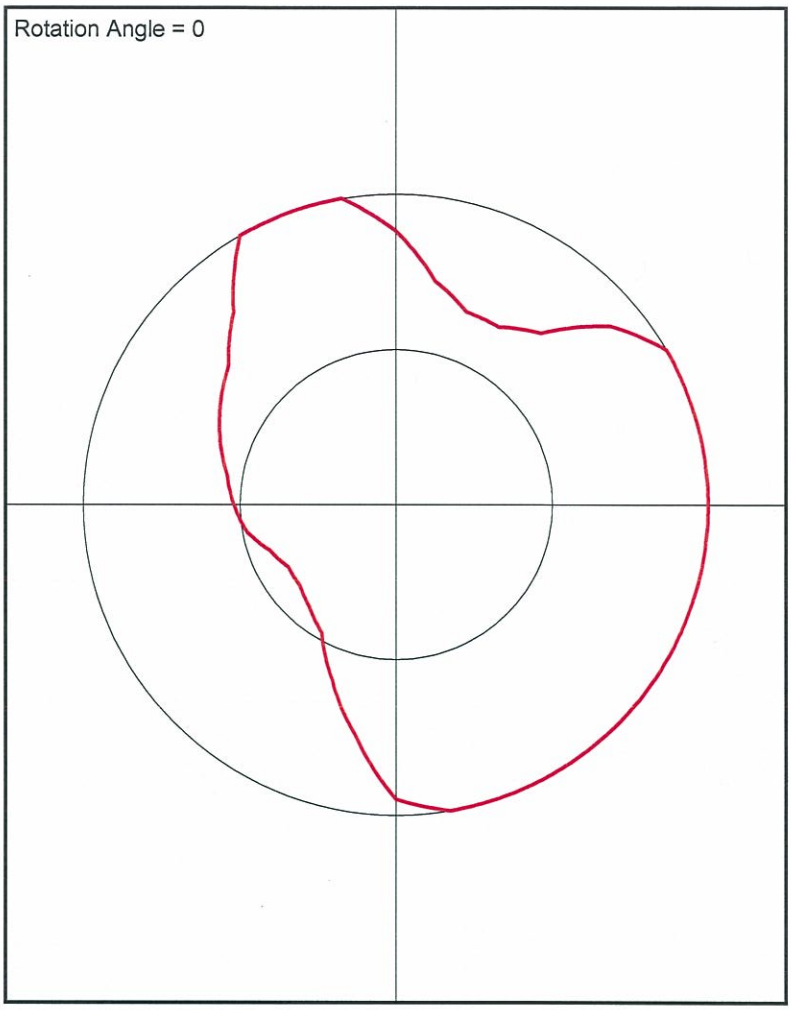
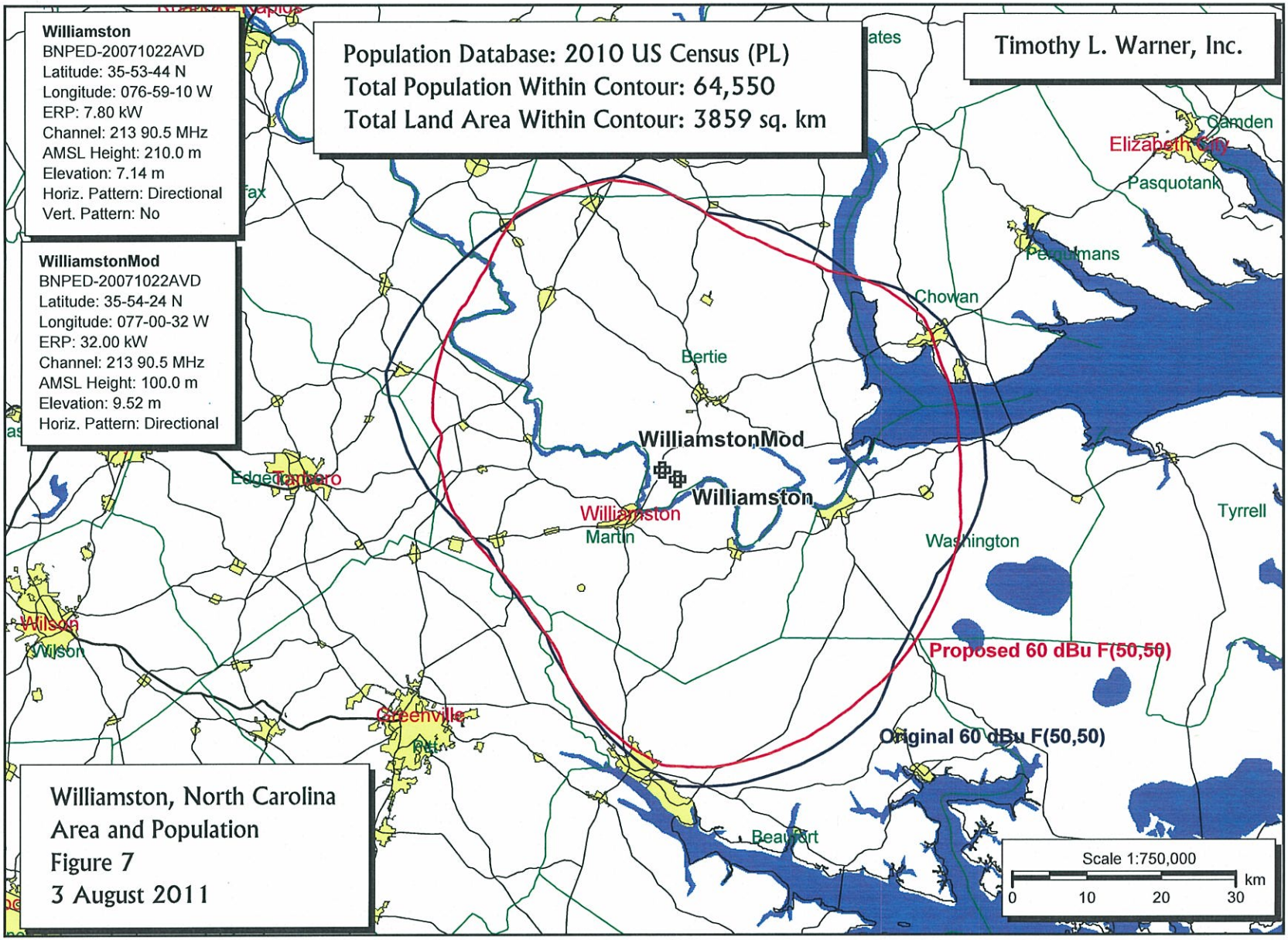


Figure 6: Directional Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.88
10.0	0.73
20.0	0.66
30.0	0.66
40.0	0.72
50.0	0.895
60.0	1.0
70.0	1.0
80.0	1.0
90.0	1.0
100.0	1.0
110.0	1.0
120.0	1.0
130.0	1.0
140.0	1.0
150.0	1.0
160.0	1.0
170.0	1.0
180.0	0.948
190.0	0.754
200.0	0.6
210.0	0.477
220.0	0.432
230.0	0.404
240.0	0.4
250.0	0.431
260.0	0.488
270.0	0.52
280.0	0.55
290.0	0.6
300.0	0.65
310.0	0.7
320.0	0.81
330.0	1.0
340.0	1.0
350.0	1.0




Williamston
BNPED-20071022AVD
Latitude: 35-53-44 N
Longitude: 076-59-10 W
ERP: 7.80 kW
Channel: 213 90.5 MHz
AMSL Height: 210.0 m
Elevation: 7.14 m
Horiz. Pattern: Directional
Vert. Pattern: No
WilliamstonMod
BNPED-20071022AVD
Latitude: 35-54-24 N
Longitude: 077-00-32 W
ERP: 32.00 kW
Channel: 213 90.5 MHz
AMSL Height: 100.0 m
Elevation: 9.52 m
Horiz. Pattern: Directional
Population Database: 2010 US Census (PL)
Total Population Within Contour: 64,550
Total Land Area Within Contour: 3859 sq. km
Timothy L. Warner, Inc.
Camden
Elizabeth City
Pasquotank
Perquimans
Chowan
Bertie
WilliamstonMod
Williamston
Williamston
Martin
Washington
Tyrrell
Edgecombe
Tarboro
Wilson
Wilson
Greenville
Pitt
Beaufort
Proposed 60 dBu F(50,50)
Original 60 dBu F(50,50)
Scale 1:750,000
km
0
10
20
30
Williamston, North Carolina
Area and Population
Figure 7
3 August 2011

CERTIFICATE OF SERVICE

I, Yvette J. Graves, hereby certify that a copy of the foregoing "Joint Request for Approval of Settlement" was served this 5th day of August 2011, by first class United States mail, postage prepaid, or by courier, upon the following:

Irene Bleiweiss*
Audio Division, Media Bureau
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

James Bradshaw*
Audio Division, Media Bureau
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Yvette J. Graves

*VIA HAND DELIVERY