

## **ENGINEERING EXHIBIT**

### **Application for Construction Permit**

prepared for

#### **Hampton Roads Educational Telecommunications Association Inc.**

New NCE-FM Gloucester Point, VA  
Ch. 203B1 88.5 MHz 8 kW 122 m

*Hampton Roads Educational Telecommunications Association Inc. (“HRETA”)* proposes herein to construct a new non-commercial educational FM (“NCE-FM”) radio station on Channel 203B1 to serve Gloucester Point, VA. An effective radiated power (“ERP”) of 8 kW with a directional antenna at 122 meters height above average terrain (“HAAT”) is proposed.

The proposed transmitting antenna will be side mounted on an existing tower structure, having FCC Antenna Structure Registration number 1027467. No change in overall structure height is proposed.

A directional antenna system is proposed. The attached **Figure 1** supplies relative field data and a plot of the proposed directional antenna “envelope” pattern. Tabulated relative field data is also supplied in the accompanying FCC Form 340 Section VII “Tech Box” item 12. The principal community of Gloucester Point is encompassed by the proposed NCE-FM 60 dB $\mu$  coverage contour as depicted in the coverage contour map of **Figure 2**. The land area and population within the 60 dB $\mu$  coverage contour is 1,340.1 square km and 63,775 persons, respectively.

The 60 dB $\mu$  contours of other licensed NCE-FM stations overlapping that of the instant proposal are depicted on **Figure 3**. The proposed Channel 203B1 facility would provide a “first” NCE-FM service to 14,361 persons (22.5 percent of the total 60 dB $\mu$  contour population) and a “second” NCE-FM service to 36,983 persons (58.0 percent of the total). First and second NCE-FM service would be provided to 51,344 persons, which is 80.5 percent of the total population within the proposed 60 dB $\mu$  contour.

Contour locations provided herein were calculated pursuant to §73.313(c). Population within the contours was determined using the centroid method using 2000 U.S. Census block data.

*HRETA* is seeking a waiver of §73.1125 concerning the location of the main studio. Justification for the waiver request is provided in a separate exhibit prepared by counsel for *HRETA*.

### Allocation Considerations

A study of the minimum separation requirements for the proposed transmitter site shows that the FM facilities listed in the following are close enough to warrant study in regard to prohibited overlap under §73.509 of the Commission's Rules.

Channel Status	Call Sign Service	City/State File Number	Fac. ID	Latitude Longitude	Power HAAT	Distance Bearing
201B1 LIC	WFOV FM	HAMPTON, VA BLED-19920701KA	25952	37 01 03 76 20 13	8.0 59	46.49 180.61
202B CP	WRAU FM	OCEAN CITY, MD BPED-19960516ME	81959	38 23 12 75 17 27	50.0 150	139.64 40.51
203A APP	NEW FM	WILLIAMSBURG, VA BNPED-20000306AAA	122741	37 12 57 76 36 07	0.22 79	34.27 224.37
203A LIC	WJLZ FM	VIRGINIA BEACH, VA BLED-20050318AAJ	69636	36 50 31 76 05 37	1.2 36	69.28 162.24
203B LIC	WAMU FM	WASHINGTON, DC BMLED-20070112AHP	65399	38 56 10 77 05 33	50.0 152	179.32 338.49
204B1 LIC	WFOS FM	CHESAPEAKE, VA BLED-19900921KA	10757	36 43 18 76 18 03	15.5 48	79.36 178.04
206B LIC	WWIP FM	CHERITON, VA BLED-20050429AEW	90265	37 10 53 75 57 47	20.0 137	43.21 130.93
206A LIC	WCNV FM	HEATHSVILLE, VA BLED-20070221ACN	90292	37 54 22 76 29 09	3.8 97	53.88 345.46

The instant application proposes technical parameters which conflict with BNPED-20000306AAA, a pending application for Channel 203A at Williamsburg, VA, listed above. Since the pending application BNPED-20000306AAA has not been "cut off" regarding consideration of competing applications, the instant proposal should be held as mutually exclusive with BNPED-20000306AAA. Under the procedures announced in the FCC Public Notice<sup>1</sup> of April 4, 2007, the applicant for BNPED-20000306AAA will have to amend its application during the filing window in order to avoid dismissal.

<sup>1</sup> Media Bureau Announces NCE FM New Stations and Major Modification Application Filing Window for New and Certain Pending Proposals; Window to Open on October 12, 2007, DA 07-1613.

The attached **Figures 4, 5, and 6** depict the pertinent protected and interfering contours of the stations listed and the proposed Channel 203B1 facility. Co-channel stations and first-adjacent channel stations protected and interfering contours are depicted in **Figures 4 and 5**, respectively. **Figure 6** provides an allocation map regarding second and third adjacent stations.

Regarding co-channel stations, **Figure 4A** supplies a detailed map of the contours which are close but do not overlap with WAMU(FM) (Ch. 203B, Washington, DC). Similarly, a detail map regarding WJLZ(FM) (Ch. 203A, Virginia Beach, VA) is provided in **Figure 4B**, where the contours are close but do not overlap (even if overlapping, such overlap over water is permitted under §73.509(e)). These exhibits demonstrate compliance with §73.509 with respect to WAMU and WJLZ.

The allocation study summarized above concludes that the NCE-FM proposal is in compliance with §73.509 regarding prohibited contour overlap. The contour locations were determined using the actual ERP and height above terrain along each radial for each facility, as specified in §73.509(c). For the facilities under study, the antenna elevation above mean sea level, geographic coordinates, and ERP (including directional antenna relative field values, where appropriate) were retrieved from the FCC's engineering database. The requisite contours were determined using U.S.G.S. NED 3-second digitized terrain data along each radial of interest from each transmitter site and an implementation of the Commission's TVFMFS computer program which simulates the FM propagation curves. The F(50,10) distances are used to calculate distance to interfering contours, however if the distance is less than 16 km the F(50,50) curves are used, as specified by §73.509(c)(2).

A spacing study was performed as required by §73.507(c) (regarding facilities differing in frequency by 10.6 or 10.8 MHz from the proposal). The proposed facility meets the minimum distance separation requirements of §73.207 in all such instances. The nearest station on the pertinent channels is summarized in the following.

Channel Status	Call Sign Service	City/State File Number	Fac. ID	Latitude Longitude	Power HAAT	Distance Bearing	Required Clear
256A LIC	WXGM-FM FM	GLOUCESTER, VA BLH-19910805KE	74209	37 24 36 76 32 52	6.0 100	19.38 261.34	12.00 7.38

### TV Channel 6 Considerations

Under §73.525(a)(1), an affected TV Channel 6 station must be considered with a proposed non-commercial educational facility on Channel 203B1 if the distance between the respective transmitter sites is 246 km or less. No authorized Channel 6 Class A television stations are located within 246 km of the proposed site. All authorized full-power TV Channel 6 facilities within a 246 km radius of the proposed NCE-FM facility are listed below.

Channel Status	Call Sign Service	City/State File Number	Fac. ID	Latitude Longitude	Power HAAT	Distance Bearing
6+ LIC	WTVR-TV TV	RICHMOND, VA BLCT-193	57832	37 34 00 77 28 36	100.0 256	102.30 278.51

The proposed NCE-FM site is very near the Grade B contour of WTVR-TV. The instant proposal would result in predicted interference to WTVR-TV in excess of the population limits permitted in §73.525. The area of predicted interference to WTVR-TV calculated pursuant to §73.525(e) is depicted on **Figure 7**, which shows that 50,821 persons could be affected (2000 Census). WTVR-TV's post-transition digital "Appendix B" allotment<sup>2</sup> specifies operation on Channel 25, the present WTVR-TV digital channel. In the Commission's final digital television channel election proceeding (MB Docket 03-15) WTVR-TV released its Channel 6 in favor of its digital Channel 25. WTVR-TV's analog operations on Channel 6 are to cease on February 17, 2009 pursuant to the Digital Television and Public Safety Act of 2005.<sup>3</sup> *HRETA* proposes to commence

<sup>2</sup> *Advanced Television Systems and their Impact Upon the Existing Television Broadcast Service*, Seventh Report and Order and Eighth Further Notice of Proposed Rulemaking, MB Docket 87-268, FCC 07-138, released August 6, 2007.

<sup>3</sup> Title III of the Deficit Reduction Act of 2005: Digital Television Transition and Public Safety - Digital Television Transition and Public Safety Act of 2005 - (Sec. 3002) Amends the Communications Act of 1934 to direct the

operation with the NCE-FM facilities specified herein only after WTVR-TV ceases operation, to occur well within the three-year buildout requirement of a construction permit. Thus, no actual interference would occur to WTVR-TV. *HRETA* requests a waiver of §73.525, to the extent required, with respect to theoretical interference to WTVR-TV until February 17, 2009. A separate exhibit, prepared by counsel for *HRETA*, provides additional discussion of the waiver request.

### **Other Allocation Matters**

The site is not within a border area requiring international coordination. The nearest FCC monitoring station is 197 km distant at Laurel, MD. This exceeds by a great margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The proposed site is also located outside the areas specified in §73.1030(a)(1) and §73.1030(b). Thus, notification of the instant proposal to the National Radio Astronomy Observatory at Green Bank, West Virginia, or the Table Mountain Radio Receiving Zone in Boulder County, Colorado is not required. There are no AM broadcast stations located within 3.2 km (2 miles) of the proposed site, according to information extracted from the Commission's engineering database.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed transmitting antenna will be side-mounted on an existing antenna support structure. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No change in structure height is proposed, thus no change in current structure marking and lighting requirements is anticipated. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed NCE-FM operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering a worst-case situation of 100 percent field in downward elevations, the

calculated RF electromagnetic field attributable to the proposed NCE-FM facility is 16.6 percent of the “uncontrolled / general public” maximum permissible exposure limit at the base of the antenna structure two meters above ground level. The calculated RF exposure will be even lower when the antenna’s actual elevation pattern is considered. No other FM, AM, or Television stations are authorized to operate at or within 5 km of this site according to CDBS data.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC’s guidelines. RF exposure warning signs will be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

## **Certification**

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.

Joseph M. Davis, P.E.  
October 18, 2007

**Chesapeake RF Consultants, LLC**  
11993 Kahns Road  
Manassas, VA 20112  
703-650-9600

## List of Attachments

Figure 1	Directional Antenna Envelope Pattern
Figure 2	Proposed Coverage Contour
Figure 3	Coverage Contour Comparison – First and Second NCE-FM Service
Figure 4	Co-Channel Allocation Study
Figure 4A	Co-Channel Allocation Study - Detail
Figure 4B	Co-Channel Allocation Study - Detail
Figure 5	First-Adjacent Channel Allocation Study
Figure 6	Second and Third-Adjacent Channel Allocation Study
Figure 7	TV Channel 6 Allocation Study – Detail to WTVR-TV
Form 340	Saved Version of Engineering Sections from FCC Form at Time of Upload

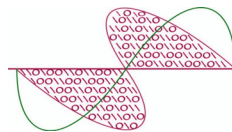
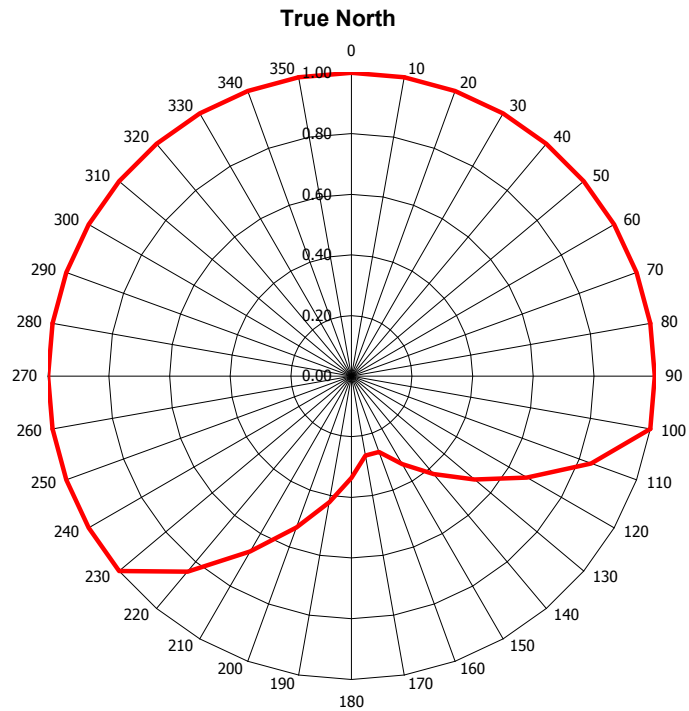
*This material was entered October 18, 2007 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.*

**Figure 1**  
**Directional Antenna Envelope Pattern**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

prepared for  
**Hampton Roads Educational**  
**Telecommunications Association Inc.**

October, 2007

Azimuth (°T)	Relative Field
0	1.000
10	1.000
20	1.000
30	1.000
40	1.000
50	1.000
60	1.000
70	1.000
80	1.000
90	1.000
100	1.000
110	0.841
120	0.668
130	0.531
140	0.422
150	0.335
160	0.266
170	0.266
180	0.335
190	0.422
200	0.531
210	0.668
220	0.841
230	1.000
240	1.000
250	1.000
260	1.000
270	1.000
280	1.000
290	1.000
300	1.000
310	1.000
320	1.000
330	1.000
340	1.000
350	1.000



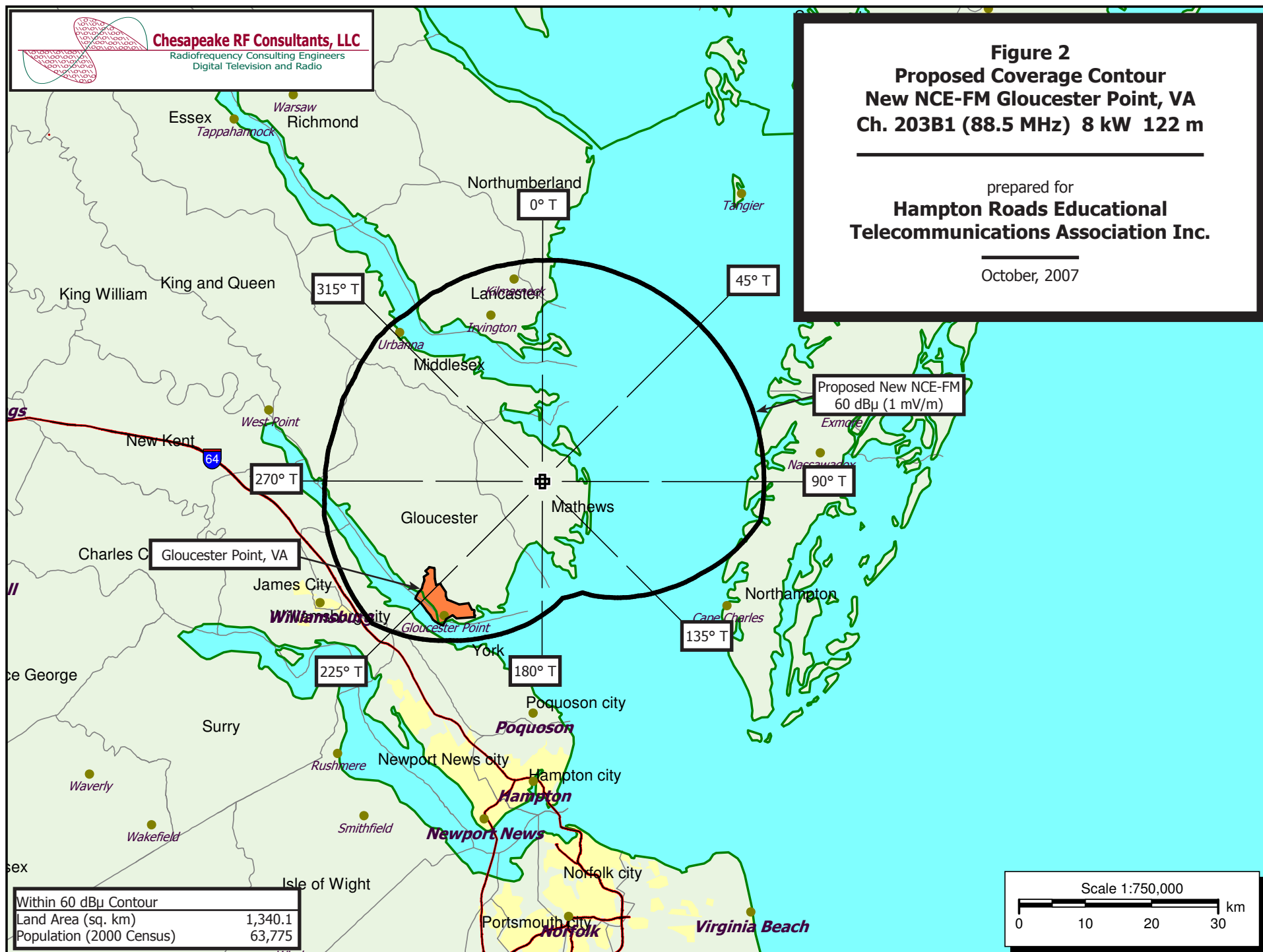
**Chesapeake RF Consultants, LLC**

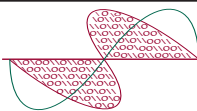
Radiofrequency Consulting Engineers  
 Digital Television and Radio

**Figure 2**  
**Proposed Coverage Contour**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

prepared for  
**Hampton Roads Educational  
Telecommunications Association Inc.**

October, 2007



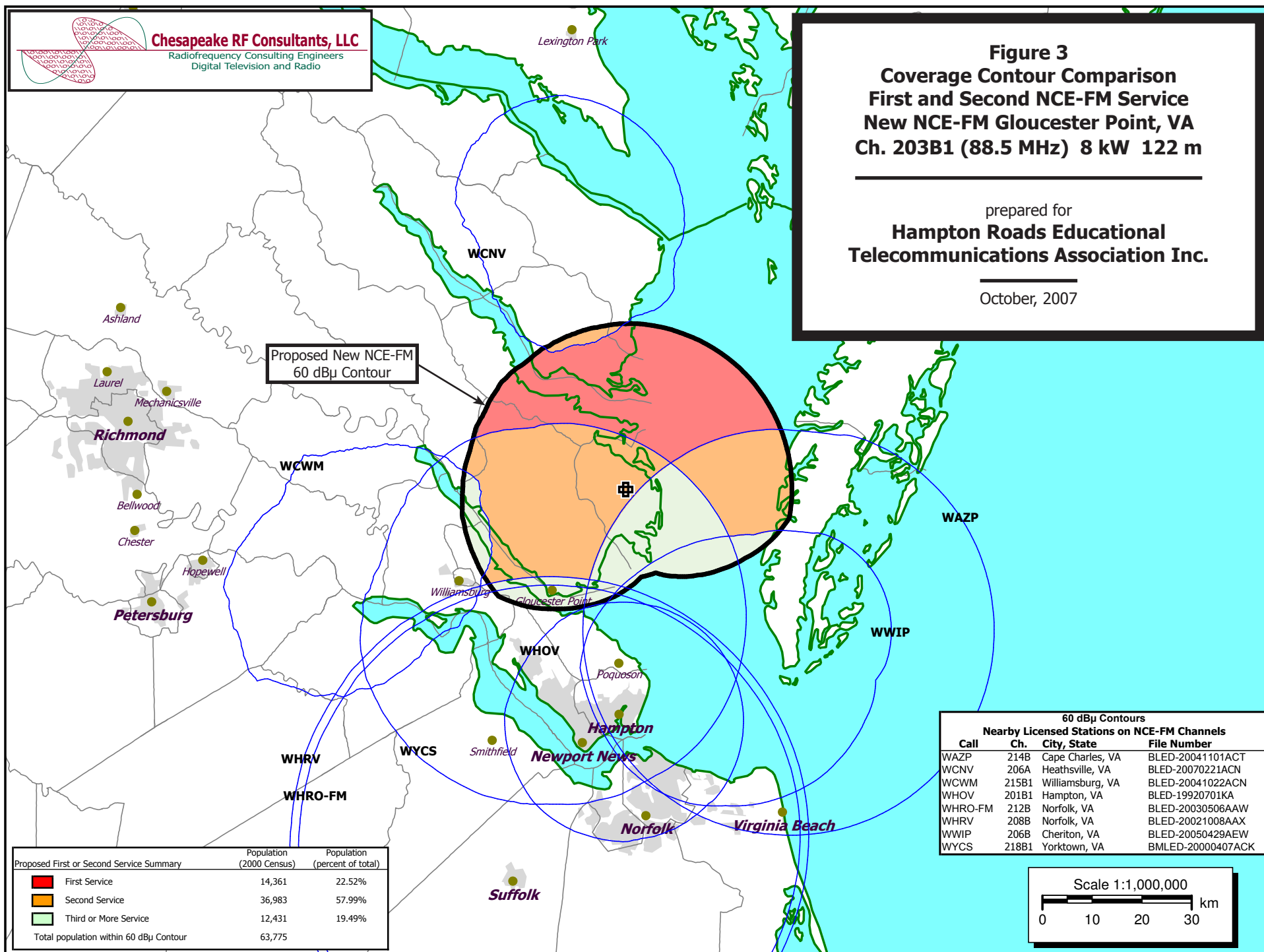


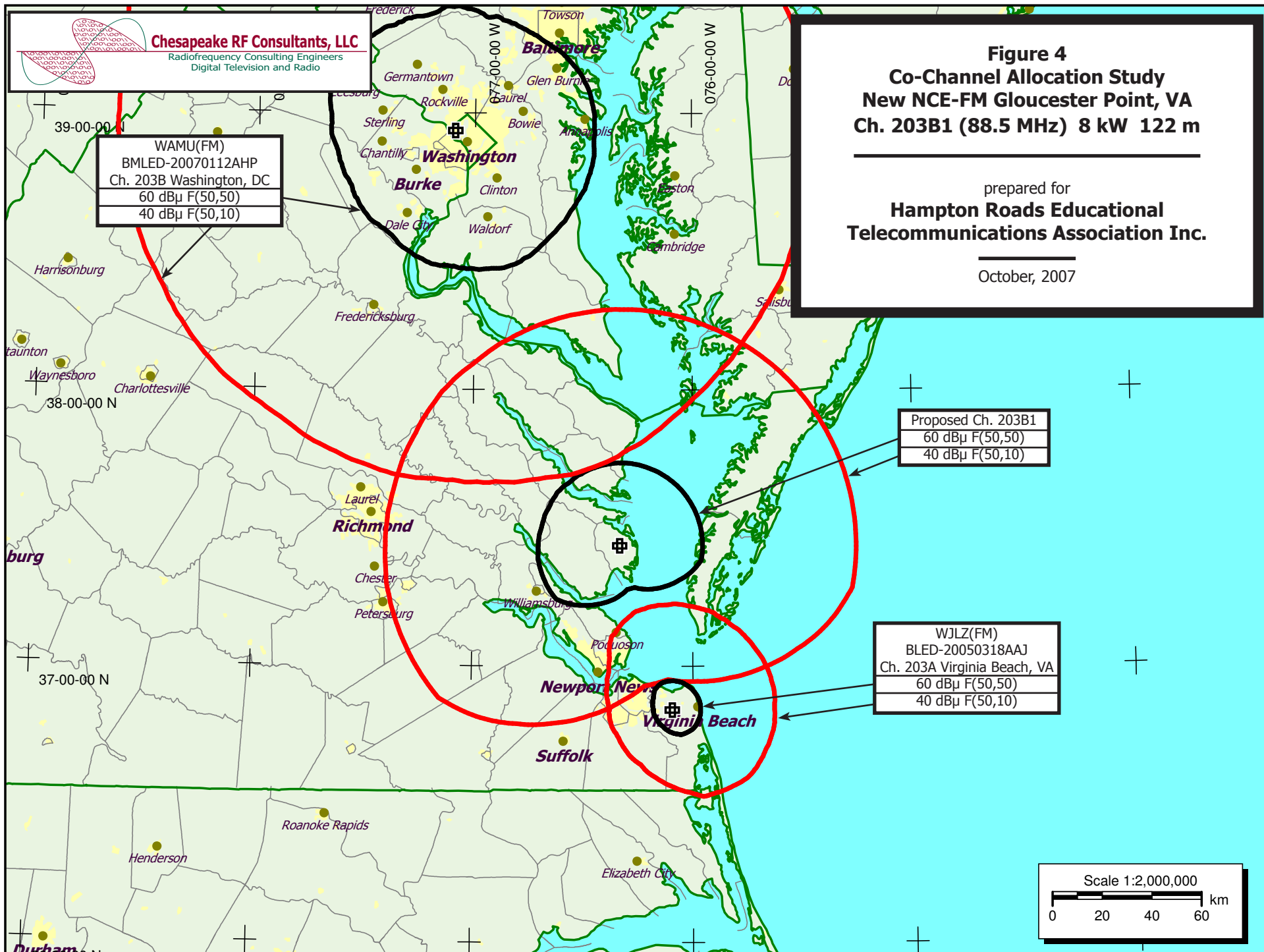
**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

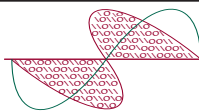
**Figure 3**  
**Coverage Contour Comparison**  
**First and Second NCE-FM Service**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

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October, 2007







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Digital Television and Radio

**Figure 4A - Detail**  
**Co-Channel Allocation Study**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

prepared for  
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**Telecommunications Association Inc.**

October, 2007

WAMU(FM)  
BMLED-20070112AHP  
Ch. 203B Washington, DC  
40 dBμ F(50,10)

Proposed Ch. 203B1  
60 dBμ F(50,50)

37-40-00 N

77-00-00 W

37-20-00 N

076-40

076-20

76-40-00 W

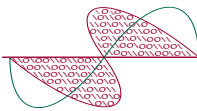
76-20-00 W

76-00-00 W

Williamsburg

Scale 1:500,000

0 7 14 21 km

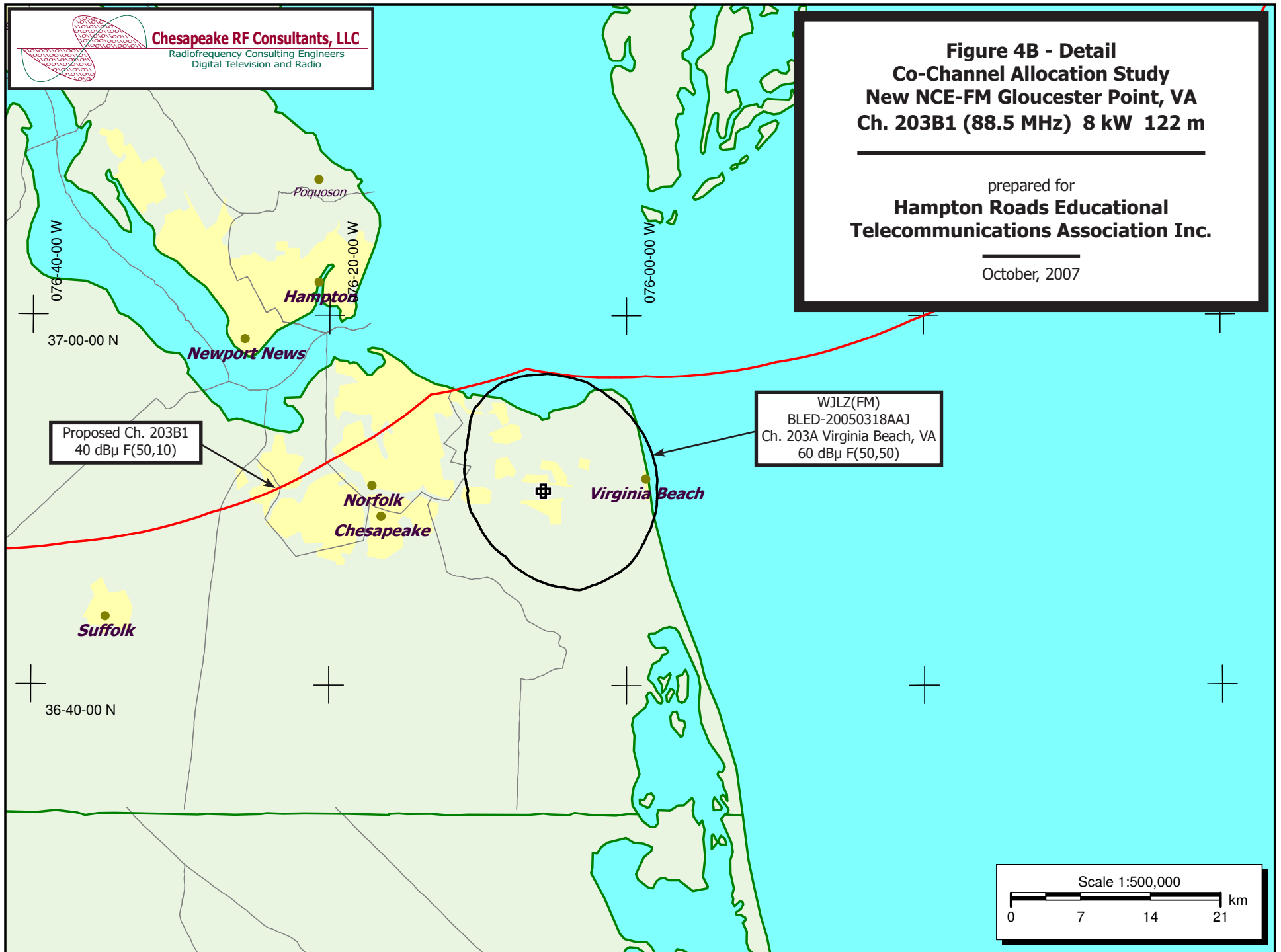


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 4B - Detail**  
**Co-Channel Allocation Study**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

prepared for  
**Hampton Roads Educational**  
**Telecommunications Association Inc.**

October, 2007



**Figure 5**  
**First-Adjacent Channel Allocation Study**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

prepared for  
**Hampton Roads Educational**  
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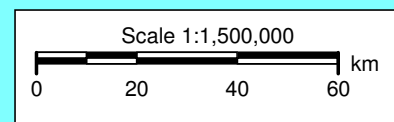
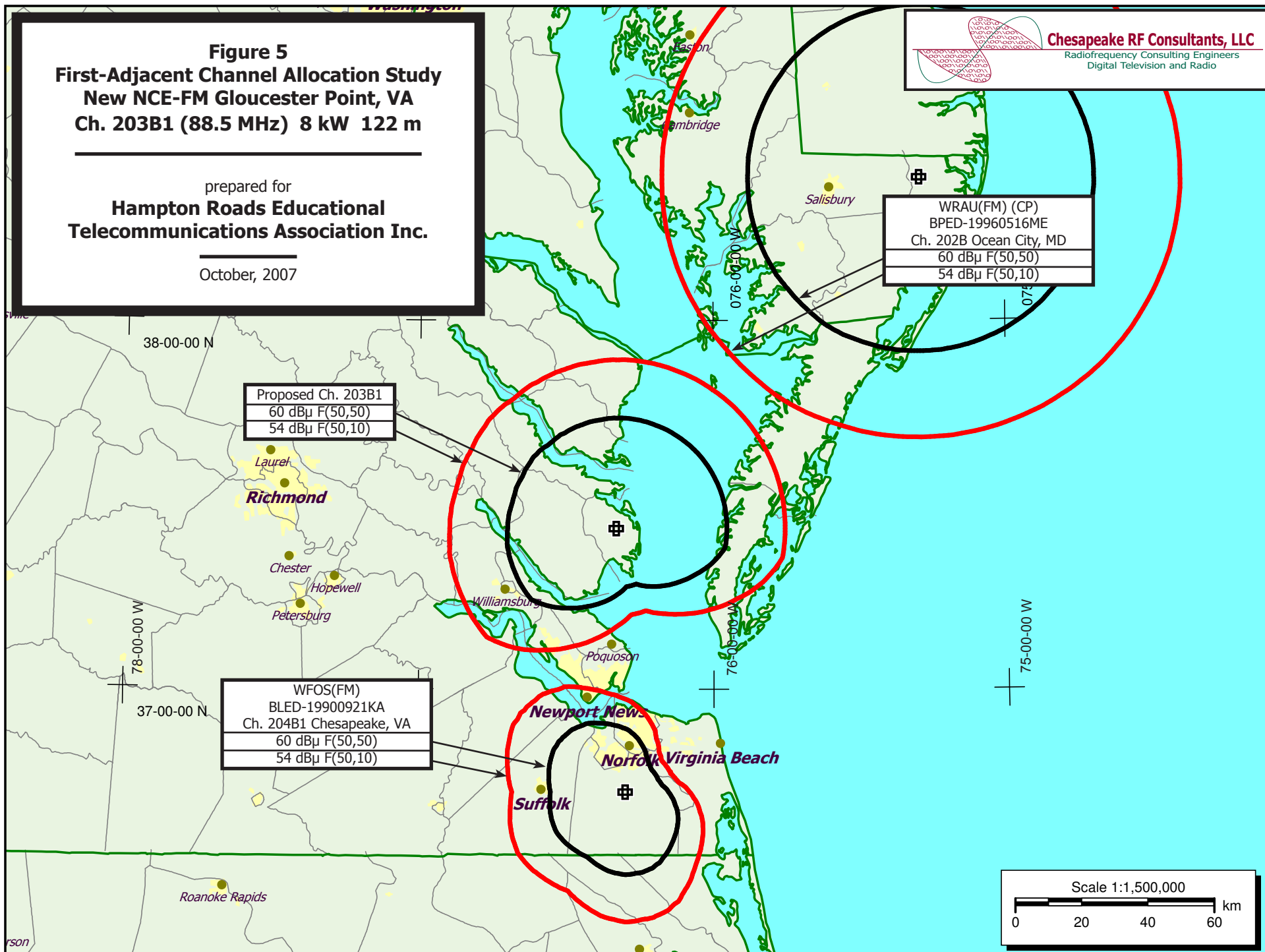
October, 2007

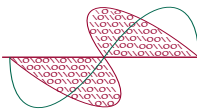


WRAU(FM) (CP)  
BPED-19960516ME  
Ch. 202B Ocean City, MD  
60 dBμ F(50,50)  
54 dBμ F(50,10)

Proposed Ch. 203B1  
60 dBμ F(50,50)  
54 dBμ F(50,10)

WFOS(FM)  
BLED-19900921KA  
Ch. 204B1 Chesapeake, VA  
60 dBμ F(50,50)  
54 dBμ F(50,10)



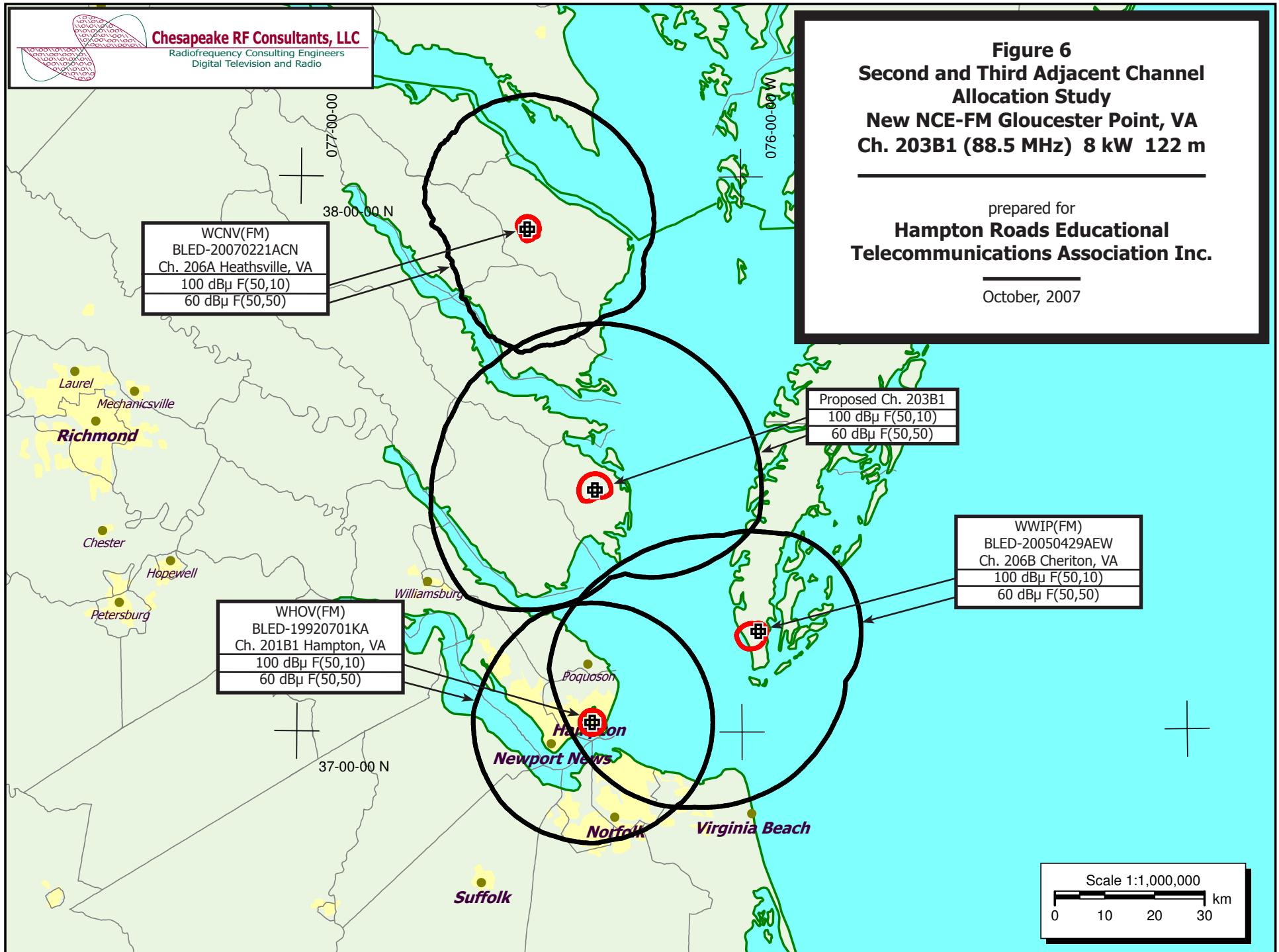


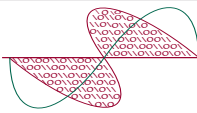
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**Figure 6**  
**Second and Third Adjacent Channel**  
**Allocation Study**  
**New NCE-FM Gloucester Point, VA**  
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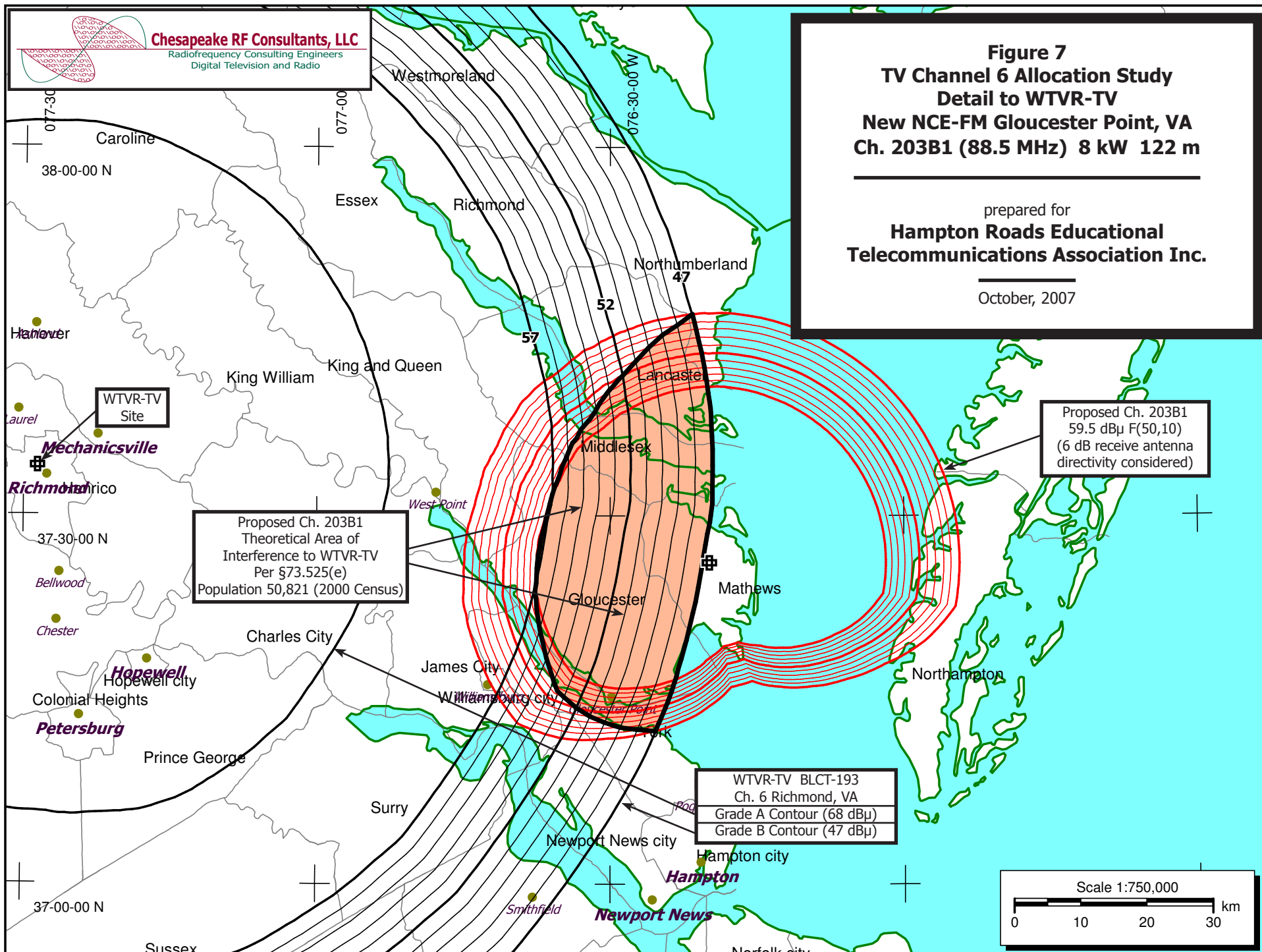


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 7**  
**TV Channel 6 Allocation Study**  
**Detail to WTVR-TV**  
**New NCE-FM Gloucester Point, VA**  
**Ch. 203B1 (88.5 MHz) 8 kW 122 m**

prepared for  
**Hampton Roads Educational**  
**Telecommunications Association Inc.**

October, 2007



**Section VII Preparer's Certification**

I certify that I have prepared Section VII (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 10/18/2007	
Mailing Address CHESAPEAKE RF CONSULTANTS LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112-
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

**Section VII - FM Engineering****TECHNICAL SPECIFICATIONS**

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

**TECH BOX**

1.	Channel Number: 203																																																																																																
2.	Class (select one): <input type="radio"/> D <input type="radio"/> A <input checked="" type="radio"/> B1 <input type="radio"/> B <input type="radio"/> C3 <input type="radio"/> C2 <input type="radio"/> C1 <input type="radio"/> C0 <input type="radio"/> C																																																																																																
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 37 Minutes 26 Seconds 11 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 76 Minutes 19 Seconds 53 <input checked="" type="radio"/> West <input type="radio"/> East																																																																																																
4.	Proposed Assignment Coordinates: (NAD 27) - RESERVED CHANNELS ABOVE 220 ONLY <input checked="" type="checkbox"/> Not Applicable Latitude: Degrees Minutes Seconds <input type="radio"/> North <input type="radio"/> South  Longitude: Degrees Minutes Seconds <input type="radio"/> West <input type="radio"/> East																																																																																																
5.	Antenna Structure Registration Number: 1027467 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA																																																																																																
6.	Overall Tower Height Above Ground Level: 128.9 meters																																																																																																
7.	Height of Radiation Center Above Mean Sea Level: 124.2 meters(H) 124.2 meters(V)																																																																																																
8.	Height of Radiation Center Above Ground Level: 120 meters(H) 120 meters(V)																																																																																																
9.	Height of Radiation Center Above Average Terrain: 122 meters(H) 122 meters(V)																																																																																																
10.	Effective Radiated Power: 8 kW(H) 8 kW(V)																																																																																																
11.	Maximum Effective Radiated Power: <input checked="" type="checkbox"/> Not Applicable kW(H) kW(V) (Beam-Tilt Antenna ONLY)																																																																																																
12.	Directional Antenna Relative Field Values: <input type="checkbox"/> Not applicable (Nondirectional) Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation <table><thead><tr><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th></tr></thead><tbody><tr><td>0</td><td>1</td><td>10</td><td>1</td><td>20</td><td>1</td><td>30</td><td>1</td><td>40</td><td>1</td><td>50</td><td>1</td></tr><tr><td>60</td><td>1</td><td>70</td><td>1</td><td>80</td><td>1</td><td>90</td><td>1</td><td>100</td><td>1</td><td>110</td><td>0.841</td></tr><tr><td>120</td><td>0.668</td><td>130</td><td>0.531</td><td>140</td><td>0.422</td><td>150</td><td>0.335</td><td>160</td><td>0.266</td><td>170</td><td>0.266</td></tr><tr><td>180</td><td>0.335</td><td>190</td><td>0.422</td><td>200</td><td>0.531</td><td>210</td><td>0.668</td><td>220</td><td>0.841</td><td>230</td><td>1</td></tr><tr><td>240</td><td>1</td><td>250</td><td>1</td><td>260</td><td>1</td><td>270</td><td>1</td><td>280</td><td>1</td><td>290</td><td>1</td></tr><tr><td>300</td><td>1</td><td>310</td><td>1</td><td>320</td><td>1</td><td>330</td><td>1</td><td>340</td><td>1</td><td>350</td><td>1</td></tr><tr><td>Additional Azimuths</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	0	1	10	1	20	1	30	1	40	1	50	1	60	1	70	1	80	1	90	1	100	1	110	0.841	120	0.668	130	0.531	140	0.422	150	0.335	160	0.266	170	0.266	180	0.335	190	0.422	200	0.531	210	0.668	220	0.841	230	1	240	1	250	1	260	1	270	1	280	1	290	1	300	1	310	1	320	1	330	1	340	1	350	1	Additional Azimuths											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value																																																																																						
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60	1	70	1	80	1	90	1	100	1	110	0.841																																																																																						
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240	1	250	1	260	1	270	1	280	1	290	1																																																																																						
300	1	310	1	320	1	330	1	340	1	350	1																																																																																						
Additional Azimuths																																																																																																	

Relative Field Polar Plot

<p><b>NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.</b></p> <p><b>CERTIFICATION</b></p> <p><b>AUXILIARY ANTENNA APPLICANTS ARE NOT REQUIRED TO RESPOND TO ITEMS 12-15.</b></p>		
13.	<p><b>Main Studio Location.</b> The proposed main studio location complies with 47 C.F.R. Section 73.1125.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>See Explanation in [Exhibit 13]</p>
14.	<p><b>Community Coverage.</b> The proposed facility complies with 47 C.F.R. Section 73.315. (Channels 221 and above) or 47 C.F.R. Section 73.515 (Channels 220 and below).</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 14]</p>
15.	<p><b>Interference.</b> The proposed facility complies with all of the following applicable rule sections. Check all that apply:</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>See Explanation in [Exhibit 15]</p>
<p><b>Contour Overlap Requirements.</b></p> <p>a. <input type="checkbox"/> 47 C.F.R. Section 73.509 <b>Exhibit Required.</b> [Exhibit 16]</p>		
<p><b>Spacing Requirements.</b></p> <p>b. <input type="checkbox"/> 47 C.F.R. Section 73.207 with respect to station(s)</p>		
<p><b>Grandfathered Short-Spaced.</b></p> <p>c. <input type="checkbox"/> 47 C.F.R. Section 73.213(a) with respect to station(s) <b>Exhibit Required.</b> [Exhibit 17]</p>		
<p><b>Contour Protection.</b></p> <p>d. <input type="checkbox"/> 47 C.F.R. Section 73.215(a) with respect to station(s) <b>Exhibit Required.</b> [Exhibit 18]</p>		
<p><b>Television Channel 6 Protection.</b></p> <p>e. <input checked="" type="checkbox"/> 47 C.F.R. Section 73.525 with respect to station(s) <b>Exhibit Required.</b> [Exhibit 19]</p>		
16.	<p><b>Reserved Channels Above 220.</b></p> <p>a. <b>Availability of Channels.</b> The proposed facility complies with the assignment requirements of 47 C.F.R. Section 73.203.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 20]</p>
17.	<p><b>International Borders.</b> The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada or Mexico.</p> <p>If "No," specify the country and provide an exhibit of compliance with all provisions of the relevant International Agreement.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><input type="radio"/> Canada</p> <p><input type="radio"/> Mexico</p> <p>[Exhibit 21]</p>
18.	<p><b>Environmental Protection Act.</b> The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Worksheet #7, an <b>Exhibit is required.</b></p> <p>By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 22]</p>
19.	<p><b>Community of License Change - Section 307(b).</b> If the application is being submitted to change the facility's community of license, then the applicant certifies that it has attached an exhibit containing information demonstrating that the proposed community of license change comports with the fair distribution of service policies underlying Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).</p> <p><b>An exhibit is required</b> unless this question is not applicable.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p><input checked="" type="radio"/> N/A</p> <p>[Exhibit 23]</p>
<p><b>PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.</b></p>		

Any specified rotation has already been applied to the plotted pattern.

Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.

