

DELAWDER COMMUNICATIONS, INC.

P.O. Box 1095
Ashburn, Virginia 20146-1095
(703) 299-9222

ENGINEERING REPORT

Wardensville, WV, Channel 277A FM Application

channel 277A, pursuant to Section 73.207 of the FCC Rules, once the involuntary change for WLTK is made.

Table 2, attached, is a channel 275A separation study that demonstrates compliance with Section 73.207 for WLTK, New Market, VA. The Applicant respectfully asks the Commission to issue an order to Show Cause why WLTK should not be ordered onto channel 275A².

Prior to or simultaneously with the filing of this application, the National Radio Astronomy Observatory at Green Bank, WV, will be notified, pursuant to Section 73.1030(a)(1) of the FCC Rules, of both the Wardensville, WV, 277A and WLTK, New Market, VA, 275A proposals.

Show Cause Public Interest Statement

The Public Interest will be served by displacing WLTK to channel 275A thus allowing this proposal for channel 277A. The proposed transmitter site is on an existing mountain site (ASR #1018046) that is not available for use on channel 239A. No other FM channel can support Class A or higher service from this tower site with Wardensville as the community of license. (There are other existing communication facilities on the mountain range but all such facilities will not work on channel 239A and will work only on channel 277A with the WLTK channel displacement to 275A.)

There are no known existing broadcast service towers that can provide community of license service to Wardensville (based on Section 73.315 of the FCC Rules) on channel 239A. There does not appear to be any alternative channel (other than 277A) that can support such service to Wardensville from the proposed site. (The FCC's Antenna Structure Registration Database identifies one existing tower in downtown Wardensville—Registration No. 1273659. This 54.8 meter height tower

² The Applicant agrees to bear the reasonable cost associated with the channel displacement of WLTK to channel 275A in accordance with FCC Rules and Policies.

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does not support any broadcast services and a Class A FM station that operates with 6 kW omni-directional ERP from the top of this tower will only serve 5,580 persons.)

The proposed channel 277A facility has a 60 dBu F50,50 service contour population of 118,228 persons with line-of-sight ("LOS") service to Winchester, VA, and Strasburg, VA.³ (LOS service to these communities that are to the east of the proposed site is not possible on channel 239A due to the site restriction on channel 239A being to the west of the proposed mountain site.) A maximum Class A facility on channel 239 from the reference site at Wardensville (using a 28 kilometer radius as service) has a predicted 60 dBu service contour population of only 39,843 persons.

Therefore, the channel 277A proposal at the proposed site would not only allow service from an established tower site with full coverage of the community of license, but would allow for predicted service to an additional 78,385 persons, an 197% increase over the 239A reference population.

Further, following the channel substitution at New Market, Massanutten Broadcasting Company, Inc. would be able to serve the same area and population at New Market from station WLTK on its new channel as it presently does with its current channel.

Finally, channel 239A is available for re-allotment in the Wardensville area should the FCC grant the two proposed channel substitutions.

Accordingly, the proposed channel substitutions, by allowing for an increase in radio service, would better serve the public interest convenience and necessity.

³ All population figures of this application are stated for Census year 2000 data.

**Delawder Communications, Inc.
Ashburn, VA**

TABLE 1, Page 1 of 1
Friday, May 13, 2011

BIA/Dataworld FM Spacing Study

Title: Wardensville, WV from proposed site

Channel: 277 A (103.3 MHz)
Database: FCC 5/3/2011 12:00:00 AM

Latitude: N 39° 10' 58.0"
Longitude: W 78° 23' 24.0"
Safety Zone: 30.0 km

Call City of License	Auth	Licensee name St FCC File Number	Chan Freq	HAAT(m) HAMS(L)m	ERP (kW)	Latitude Longitude	Br-to -from	Dist (km)	Req (km)
WINC-FM WINCHESTER	LIC	CENTENNIAL LICENSING II, LLC VA BLH-19910930KD	223 B 92.5	434.0 706.0	22 H 22 V	N 38° 57' 21.0" W 78° 01' 28.0"	128.5 308.8	40.44 25.44	15.00 CLEAR
WJSM-FM MARTINSBURG	USE	MARTINSBURG BROADCASTING, INC. PA	224 A 92.7			N 40° 17' 37.0" W 78° 15' 38.0"	5.1 185.2	123.8 113.8	10.00 CLEAR
Proposed as Class B1 to Canada 960321-Accepted by Canada 96060									
WAFY MIDDLETOWN	LIC	NASSAU BROADCASTING III, LLC MD BLH-19900514KB	276 A 103.1	174.0 355.0	1 H 1 V	N 39° 25' 05.0" W 77° 30' 03.0"	70.8 251.4	81.03 9.026	72.00 CLOSE
WJMA-FM CULPEPER	LIC	PIEDMONT COMMUNICATIONS, INC. VA BLH-20090826AAF	276 A 103.1	86.0 210.0	6 H 6 V	N 38° 29' 04.0" W 77° 59' 22.0"	155.8 336.0	84.97 12.97	72.00 CLOSE
DA: ODD FORM 301 @ 0.0°									
WLTK NEW MARKET	LIC	MASSANUTTEN BROADCASTING COMPANY VA BLH-20020821AAS	277 A 103.3	169.0 670.0	2.05 H 2.05 V	N 38° 36' 30.0" W 78° 54' 09.0"	214.9 34.6	77.74 -37.3	115.0 SHORT
NOTE: As a contingency, an involuntary move of WLTK to channel 275A is part of this proposal.									
WARM-FM YORK	LIC	SUSQUEHANNA RADIO CORP. PA BLH-19860519KG	277 B 103.3	398.0 533.0	6.4 H 6.4 V	N 40° 01' 38.0" W 76° 36' 00.0"	58.0 239.1	180.1 2.069	178.0 CLOSE
WTOP-FM WASHINGTON	LIC	BONNEVILLE HOLDING COMPANY DC BMLH-20110215ABQ	278 B 103.5	158.0 228.0	44 H 44 V	N 38° 56' 10.0" W 77° 05' 33.0"	103.3 284.2	115.6 2.597	113.0 CLOSE
DA: ODD ODD900205IG @ 0.0°									
DWYFY FISHER	USE	BIBLE BROADCASTING NETWORK, INC. WV	279 A 103.7			N 39° 03' 06.0" W 79° 00' 16.0"	254.8 74.4	55.10 24.10	31.00 CLEAR
WYFT LURAY	LIC	BIBLE BROADCASTING NETWORK, INC. VA BMLD-19950710KH	280 A 103.9	92.0 558.0	6 H 6 V	N 38° 38' 17.0" W 78° 24' 06.0"	181.0 1.0	60.48 29.48	31.00 CLEAR
Commercial channel operating educationa									

>> End of channel 277 A study <<

**Delawder Communications, Inc.
Ashburn, VA**

TABLE 2, Page 1 of 1
Friday, May 13, 2011

BIA/Dataworld FM Spacing Study

Title: New Market, VA (from licensed WLTK site)

Channel: 275 A (102.9 MHz)
Database: FCC 5/3/2011 12:00:00 AM

Latitude: N 38° 36' 30.0"
Longitude: W 78° 54' 09.0"
Safety Zone: 30.0 km

Call City of License	Auth	Licensee name St FCC File Number	Chan Freq	HAAT(m) HAMS(L)(m)	ERP (kW)	Latitude Longitude	Br-to -from	Dist (km)	Req (km)
WVWC BUCKHANNON	LIC	WEST VIRGINIA WESLEYAN COLLEGE WV BLED-19810908AF	221 D 92.1	-21.0 461.0	0.013 H	N 38° 59' 24.0" W 80° 13' 10.0"	290.8 110.0	122.0 112.0	10.00 CLEAR
Horizontally Polarized onl									
WWHC OAKLAND	LIC	WMD RADIOWERKS, INC. MD BMLH-19910318KH	222 A 92.3	210.0 936.0	1.4 H 1.4 V	N 39° 26' 41.0" W 79° 31' 42.0"	330.0 149.6	107.5 97.51	10.00 CLEAR
WZGN CROZET	LIC	MONTICELLO MEDIA LLC VA BLH-19900816KC	272 A 102.3	108.0 470.0	4.9 H 4.9 V	N 38° 04' 47.0" W 78° 44' 22.0"	166.3 346.5	60.38 29.38	31.00 CLEAR
WUSQ-FM WINCHESTER	LIC	CAPSTAR TX LLC VA BLH-19880405KB	273 B 102.5	192.0 482.0	32 H 32 V	N 39° 10' 38.0" W 78° 15' 53.0"	40.9 221.3	83.96 14.96	69.00 CLOSE
Grandfathered at 32kw ERP & 192m HAA									
WJXX APPOMATTOX	LIC	CAPSTAR TX LLC VA BLH-19890602KC	274 B 102.7	227.0 439.0	22 H 22 V	N 37° 28' 07.0" W 79° 00' 27.0"	184.2 4.1	126.8 13.84	113.0 CLOSE
To amend to channel 274C1 Per D91-									
WJXX APPOMATTOX	RSV	CAPSTAR TX LLC VA	274 C1 102.7			N 37° 19' 55.0" W 78° 47' 45.0"	176.2 356.3	142.0 8.981	133.0 CLOSE
WJMA-FM CULPEPER	LIC	PIEDMONT COMMUNICATIONS, INC. VA BLH-20090826AAF	276 A 103.1	86.0 210.0	6 H 6 V	N 38° 29' 04.0" W 77° 59' 22.0"	99.6 280.1	80.78 8.779	72.00 CLOSE
DA: ODD FORM 301 @ 0.0°									
WLTK NEW MARKET	LIC	MASSANUTTEN BROADCASTING COMPANY VA BLH-20020821AAS	277 A 103.3	169.0 670.0	2.05 H 2.05 V	N 38° 36' 30.0" W 78° 54' 09.0"	0.0 0.0	0.000 -31.0	31.00 SHORT
NOTE: As a contingency, an involuntary move of WLTK to channel 275A is part of this proposal.									
{Added} WARDENSVILLE	REF		277 A 103.3			N 39° 04' 30.0" W 78° 35' 53.0"	27 207	58.2 27.2	31.00 CLEAR
NOTE: Listing added by Applicant to reflect adequate separation to the reference site of this application for Wardensville 277A.									
{Added} WARDENSVILLE	APP		277 A 103.3			N 39° 10' 58.0" W 78° 23' 24.0"	35 215	77.7 46.7	31.00 CLEAR
NOTE: Listing added by Applicant to reflect adequate separation to the proposed site of this application for Wardensville 277A.									
WMRY CROZET	USE	JAMES MADISON UNIVERSITY BOARD O VA	278 A 103.5			N 37° 58' 26.0" W 78° 43' 57.0"	168.1 348.2	71.98 40.98	31.00 CLEAR
Reserved for Non-Commercial Educational Use per D90-64									

>> End of channel 275 A study <<