

**DELAWDER COMMUNICATIONS, INC.**

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

**ENGINEERING REPORT**

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**W206CA, Grand Island, NY, Channel 295D FM Application**

**ENGINEERING STATEMENT**

Priority Radio, Inc. ("Applicant") proposes a channel change for its FM translator at Grand Island, NY (W206CA) from channel 206 to channel 295. To the extent deemed necessary by the FCC, Applicant respectfully requests a waiver of the Commission's translator processing rules to allow for the grant of this channel displacement application to a non-adjacent reserved band channel.

The displacement from channel 206 is deemed necessary due to interference predicted to and from newly operation Canadian FM station CKYY, Welland, ON, 206A, located 21.1 km from the W206CA transmitter site. The following Preclusion Study Results demonstrate the unavailability of channel 206 along with that of the adjacent and intermod frequency channels to channel 206:

**PRECLUSION STUDY RESULTS**

Channels 203, 204 and 205 are precluded for use due to WBFO, Buffalo, NY, 204B (13 km at 103 degrees True from translator site).

Channels 205, 206 and 207 are precluded for use due to CKYY, Welland, ON, 206A (21 km at 263 degrees True from translator site).

Channel 208 is precluded for use due to CIUT-FM, Toronto, ON, 208B (78 km at 332 degrees True from translator site).

Channel 209 is precluded for use due to WFBF, Buffalo, NY, 210B1 (40 km at 160 degrees True from translator site).

Channel 259 is precluded for use due to WDCX-FM, Buffalo, NY, 258B (46 km at 164 degrees True from translator site).

Channel 260 is precluded for use due to CKFM-FM, Toronto, ON, 260C1 (78 km at 331 degrees True from translator site).

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**CHANNEL STUDY**

Attached as Table EE1 is a channel study for the proposed channel 295D facility. All required protections are met by contour non-contour overlap pursuant to Section 74.1204, with the exception of protection to WYRK, Buffalo, NY, 293B. WYRK is protected, as discussed below.

**PROTECTION TO WYRK**

WYRK, Buffalo, NY, 293B, is a second-adjacent channel facility to the proposed channel 295D facility and is located only 16.4 kilometers (at 166 degrees True) from the W206CA transmitter site. The 54 dBu F50,50 service contour extends well beyond the W206CA transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to WYRK.

The F50,50 signal strength from WYRK at the proposed 295D transmitter site is 82 dBu (the “desired” signal). The second/third adjacent-channel protection of Section 74.1204 is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to WYRK from the proposed 295D facility is a signal of greater than or equal to 122 dBu.

The 122 dBu signal based on a free space field determination is predicted to extend out to 51 meters from the proposed 295D transmitter site. As shown by the attached aerial photograph of the proposed site, *there is no population located within the 122 dBu interfering contour distance of 51 meters.* Therefore, WYRK is adequately protected by the proposed facility.

**Protection of Canadian Facilities**

In accordance with the Working Arrangement for the Allotment and Assignment of FM Broadcasting Channels Under the Agreement Between the Government of Canada and the Government of the United States of America Relating to the FM Broadcasting Service, as

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amended in 1997 ("Working Arrangement"), the proposed FM translator operates with an ERP of 250 Watts or less, and does not have a 34 dBu F(50,10) contour which exceeds 60 kilometers in any direction.

**SECTION 74.1204 CHANNEL STUDY**

**PROJECT: GRAND ISLAND, NY, 295D FROM PROPOSED SITE**

**STUDY COORDINATES: N 43-01-48.0; W 78-55-15.0(N D-M-S; W D-M-S)**

Call Docket	Channel FacilityID	Class Service	Frequency ERP	Status DA?	City HAAT	State RCAMSL	Country RCAGL	File Number
Latitude	Longitude			ASRN	Dist (km)	Dist (mi)	Azimuth	
Licensee/Permittee								

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WYRK	293 B	FM	106.5 MHz	LIC	BUFFALO		NY US	BLH-19950814KA
-	1908		50. kW		142. m	326. m	137. m	

N 42 53 10.00 W 78 52 25.00 - 16.44 km 10.22 mi 166.48°

TOWNSQUARE MEDIA OF BUFFALO, INC.

**Protected Contour Dist: 65.7 km Prop 295D Interf Contour Dist: <3.0 km**

**Result: -52.3 km SHORT**

**NOTE: DETAILED STUDY SHOWING PROTECTION IS INCLUDED WITH THIS APPLICATION.**

CKNS-FM	294 B	FM	106.7 MHz	PROP	HALDIMAND		ON CA	---
-	164521		50. kW	DA	106.7 m	303. m	0. m	

N 42 53 32.00 W 80 5 43.00 - 97.04 km 60.30 mi 261.29° -

**Notification Protocol**

CILQFM	296 C1	FM	107.1 MHz	OPER	TORONTO		ON CA	---
-	96076		40. kW		421. m	0. m	0. m	

N 43 38 33.00 W 79 23 15.00 - 77.86 km 48.38 mi 331.17° -

**Notification Protocol**

W297AB	297 D	FX	107.3 MHz	LIC	WILLIAMSVILLE		NY US	BLFT-20060307BTY
-	9253		0.055 kW	DA	58.3 m	241. m	40. m	

N 42 54 13.00 W 78 52 20.00 - 14.59 km 9.07 mi 164.26°

ENTERCOM BUFFALO LICENSE, LLC

**Protected Contour Dist: 7.3 km Prop 295D Interf Contour Dist: <1.0 km**

**Result: 6.3 km CLEAR**

-	298 A	FA	107.5 MHz	VAC	WELLAND		ON CA	---
-	95168		- kW		- m	- m	- m	

N 42 59 0.00 W 79 15 0.00 - 27.33 km 16.98 mi 259.14° -

**Notification Protocol**

Study Complete



Google earth

