

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**WKPX, Sunrise, FL, NCE-FM Minor Modification**

**EXHIBIT 16 –ENGINEERING STATEMENT REGARDING NCE-FM STATION  
PROTECTION PURSUANT TO SECTIONS 73.509 AND 73.207**

The School Board of Broward County, Florida ("Applicant") herein proposes a minor modification of WKPX(FM), Sunrise, Florida, to propose the change from a non-directional to a directional transmit antenna and an increase in the station's maximum ERP to 25 kilowatts. The channel/classification for the proposed facility is changed from channel 203A to channel 203C3. No change is being made to the community of license (Sunrise, Florida) or to the transmitter site location.

Table 1, attached, is a channel 203C3 channel study from the WKPX transmitter site. Table 1 identifies those FM facilities that are protected by a showing of non-contour overlap, pursuant to Section 73.509. Figures 1 through 3B, attached, are contour overlap study results to those FM facilities showing adequate contour protection to all facilities examined pursuant to Section 73.509.

*It should be noted the contour tangency of the proposed 54 dBu (F50,10) interference contour with the 60 dBu (F50,50) service contour of WIRP (from FCC File No. BPED-20070117AFY) is caused by the WIRP proposal. (A magnified showing of the contour tangency is shown in the attached Figure 2B.) Since the Applicant's proposed modification of WKPX does not increase the ERP in the direction of the contour tangency (3 kW ERP is maintained in this directional), the Applicant is not proposing any increase in its 54 dBu interference contour to the proposed WIRP 60 dBu service contour. Should the Commission deem contour overlap to exist between the Applicant's 54 dBu interference contour and WIRP's proposed 60 dBu service contour, then the proposal by WIRP should be deemed defective for initially causing such contour overlap.*

Each service and interference contour of the contour overlap study (those shown on Figures 1 through 3B) has been determined at one-degree intervals for 360 degrees based on the requirements outlined in Section 73.509 of the FCC Rules. USGS 3 arc-second data have been used.

**Delawder Communications, Inc.**  
**Alexandria, VA**

**TABLE 1, Page 1 of 2**  
Wednesday, September 05, 2007

BIAfn/Dataworld FM Interference Study

**Title: Sunrise, FL**

Channel: 203 C3 (88.5 MHz) ERP: 25 kW HAAT: 30.0 m  
Database: FCC 9/5/2007 12:00:00 AM

Latitude: N 26° 10' 38.0"  
Longitude: W 80° 15' 23.0"  
Safety Zone: 45.0 km

Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Freq	HAMSL(m)	Longitude	-from	(km)	(km)
WTVJ	LIC	NBC TELEMUNDO LICENSE CO.	6 III	549.0	100	N 25° 32' 24.0"	196.7	73.73	161.8
MIAMI		FL	BLCT-19870123KG	82	552.0	W 80° 28' 07.0"	16.6	-88.1	SHORT

Proposed Channel 203 C3 53.5 dBuV/m F(50,10) Interfering contour = 37.3 km

WTVJ Channel 6 3 47 dBuV/m F(50,50) Service contour = 124.5 km

**NOTE: A Rule Waiver of Section 73.525 regarding this facility (or an explanation regarding interference predicted to this facility) is included with this application.**

WAYF	LIC	WAY-FM MEDIA GROUP, INC.	*201 C1	321.0	0.05 H	N 26° 35' 20.0"	5.5	45.82	69.33
WEST PALM BEACH		FL	BLED-20030818ADR	88.1	322.5	50 V W 80° 12' 44.0"	185.5	-23.5	SHORT

DA: ODD FORM 340 @ 0.0°

Proposed Channel 203 C3 100 dBuV/m F(50,10) Interfering contour = 2.4 km

WAYF Channel 201 C1 60 dBuV/m F(50,50) Service contour = 66.9 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WAYF Channel 201 C1 100 dBuV/m F(50,10) Interfering contour = 8.6 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

WIRP	APP	GENESIS LICENSE SUBSIDIARY LLC	*202 A	104.0		N 25° 55' 58.0"	211.5	31.80	65.39
PENNSUCO		FL	BPED-20070117AFY	88.3	104.0	5 V W 80° 25' 23.0"	31.5	-33.6	SHORT

DA: ODD FORM 340 @ 0.0°

Proposed Channel 203 C3 54 dBuV/m F(50,10) Interfering contour = 35.9 km

WIRP Channel 202 A 60 dBuV/m F(50,50) Service contour = 27.7 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WIRP Channel 202 A 54 dBuV/m F(50,10) Interfering contour = 42.6 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

WIRP	LIC	GENESIS LICENSE SUBSIDIARY LLC	*202 A	86.0	6 H	N 25° 52' 24.0"	213.9	40.60	63.46
PENNSUCO		FL	BLED-20040927AIM	88.3	86.0	6 V W 80° 28' 59.0"	33.8	-22.9	SHORT

DA: ODD FORM 340 @ 0.0°

Proposed Channel 203 C3 54 dBuV/m F(50,10) Interfering contour = 35.9 km

WIRP Channel 202 A 60 dBuV/m F(50,50) Service contour = 26.4 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WIRP Channel 202 A 54 dBuV/m F(50,10) Interfering contour = 40.6 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

WKPX	LIC	SCHOOL BOARD OF BROWARD COUNTY,	*203 A	30.0	3 H	N 26° 10' 38.0"	0.0	0.000	
SUNRISE		FL	BLED-19830209AB	88.5	33.0	3 V W 80° 15' 23.0"	0.0		

**NOTE: This is the Applicant's facility that is being modified.**

WJCB	LIC	BLACK MEDIA WORKS, INC.	*203 A	89.0	3 H	N 26° 43' 46.0"	313.3	89.66	122.9
CLEWISTON		FL	BLED-20010712AFJ	88.5	91.0	3 V W 80° 54' 49.0"	133.0	-33.2	SHORT

Proposed Channel 203 C3 40 dBuV/m F(50,10) Interfering contour = 100.0 km

WJCB Channel 203 A 60 dBuV/m F(50,50) Service contour = 22.9 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WJCB Channel 203 A 40 dBuV/m F(50,10) Interfering contour = 73.8 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

WMFL	LIC	FAMILY STATIONS, INC.	*203 C3	52.0	7.7 H	N 25° 19' 31.0"	188.9	95.54	122.2
FLORIDA CITY		FL	BLED-20060109AAA	88.5	52.0	7.7 V W 80° 24' 16.0"	8.9	-26.7	SHORT

DA: ODD ODD20060109AAA @ 0.0°

Proposed Channel 203 C3 40 dBuV/m F(50,10) Interfering contour = 100.0 km

WMFL Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.3 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WMFL Channel 203 C3 40 dBuV/m F(50,10) Interfering contour = 81.5 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

WAYJ	LIC	WAY-FM MEDIA GROUP, INC.	*204 C1	306.8	75 H	N 26° 25' 21.7"	281.6	139.9	124.5
FORT MYERS		FL	BLED-20060626AAB	88.7	312.4	75 V W 81° 37' 48.7"	101.0	15.35	CLOSE

DA: ODD FORM 340 @ 0.0°

Proposed Channel 203 C3 54 dBuV/m F(50,10) Interfering contour = 35.9 km

WAYJ Channel 204 C1 60 dBuV/m F(50,50) Service contour = 70.0 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WAYJ Channel 204 C1 54 dBuV/m F(50,10) Interfering contour = 101.7 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

**Delawder Communications, Inc.**  
**Alexandria, VA**

**TABLE 1, Page 2 of 2**  
 Wednesday, September 05, 2007

BIAfn/Dataworld FM Interference Study

**Title: Sunrise, FL**

Channel: 203 C3 (88.5 MHz) ERP: 25 kW HAAT: 30.0 m  
 Database: FCC 9/5/2007 12:00:00 AM

Latitude: N 26° 10' 38.0"  
 Longitude: W 80° 15' 23.0"  
 Safety Zone: 45.0 km

Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Freq	HAMSL(m)	(kW)	Longitude	-from	(km)
WDNA	LIC	BASCOMB MEMORIAL BROADCASTING FO*205 C2	205 C2	349.0	7.4 H	N 25° 32' 24.0"	196.7	73.73	52.87
MIAMI		FL BLED-19990308KG	88.9	351.0	7.4 V	W 80° 28' 07.0"	16.6	20.86	CLEAR

DA: ODD ODD960614M2 @ 0.0°

Proposed Channel 203 C3 100 dBuV/m F(50,10) Interfering contour = 2.4 km

WDNA Channel 205 C2 60 dBuV/m F(50,50) Service contour = 50.5 km

Proposed Channel 203 C3 60 dBuV/m F(50,50) Service contour = 22.8 km

WDNA Channel 205 C2 100 dBuV/m F(50,10) Interfering contour = 4.7 km

**NOTE: A contour overlap study of this facility (per Sec. 73.509) is included in this exhibit (Exhibit 16).**

WEDR	LIC	COX RADIO, INC.	256 C1	280.0	100 H	N 25° 58' 03.0"	168.6	23.70	24.00
MIAMI		FL BLH-20010628ABD	99.1	282.5	100 V	W 80° 12' 34.0"	348.6	-0.30	SHORT

Required separation derived from section 73.207 of FCC rules

Proposed Channel 203 C3 91 dBuV/m F(50,10) Interfering contour = 3.8 km

WEDR Channel 256 C1 91 dBuV/m F(50,50) Service contour = 16.3 km

**NOTE: Section 73.207 Separation Requirement is met when rounded to the nearest kilometer as permitted by the FCC.**

>> End of channel 203 C3 study <<