

TECHNICAL STATEMENT
IN SUPPORT OF REQUEST FOR SPECIAL TEMPORARY
AUTHORITY (STA) FOR -10 DBC (10%) DIGITAL POWER
FM BROADCAST STATION WLLY-FM
PALM BEACH GARDENS, FLORIDA
CHANNEL 258A (99.5 MHZ)

This Technical Statement was prepared on behalf of FM Broadcast Station WLLY-FM, Palm Beach Gardens, Florida, in support of a request for Special Temporary Authority (STA). The request for STA is to authorize full -10 dBc (10% of licensed analog power) digital IBOC emissions pursuant to the FCC *Order* in MM Docket No. 99-325, Released: January 29, 2010 and the FCC *Public Notice*, "Guidance Provided to FM Licensees Regarding Operations with Increased Digital Power," DA 10-866, Released: May 17, 2010.

1. The applicant requests STA for full -10 dBc (10% of analog power) pursuant to the procedures outlined the FCC *Order* and specifically those at Paragraph 20 of the *Order*. As demonstrated at Figure 1 herein, the WLLY-FM facility meets the contour overlap requirements of Paragraph 20 of the *Order*. Figure 2 is a tabulation of all the first-adjacent channel stations within 300 km that were considered in the analysis.

2. The engineering contact information for WLLY-FM is as follows:

Jim Johnson
Technical Consultant
10144 Seagrape Way
Palm Beach Gardens, FL 33418
direct: 561-625-5900
JIM@GLADESMEDIA.COM

3. The station proposes full -10 dBc digital IBOC operation using common amplification mode. There will be no changes to its antenna or transmission system.

4. Use of MP1 service mode and symmetric digital sideband power levels are to be employed.

5. The analog transmitter output power for WLLY-FM is 4.5 kW. The proposed digital transmitter power output is 0.45 kW. Considering all system losses and antenna gain, the nominal non-directional analog ERP is 6 kW and the nominal non-directional digital ERP will be 600 Watts.

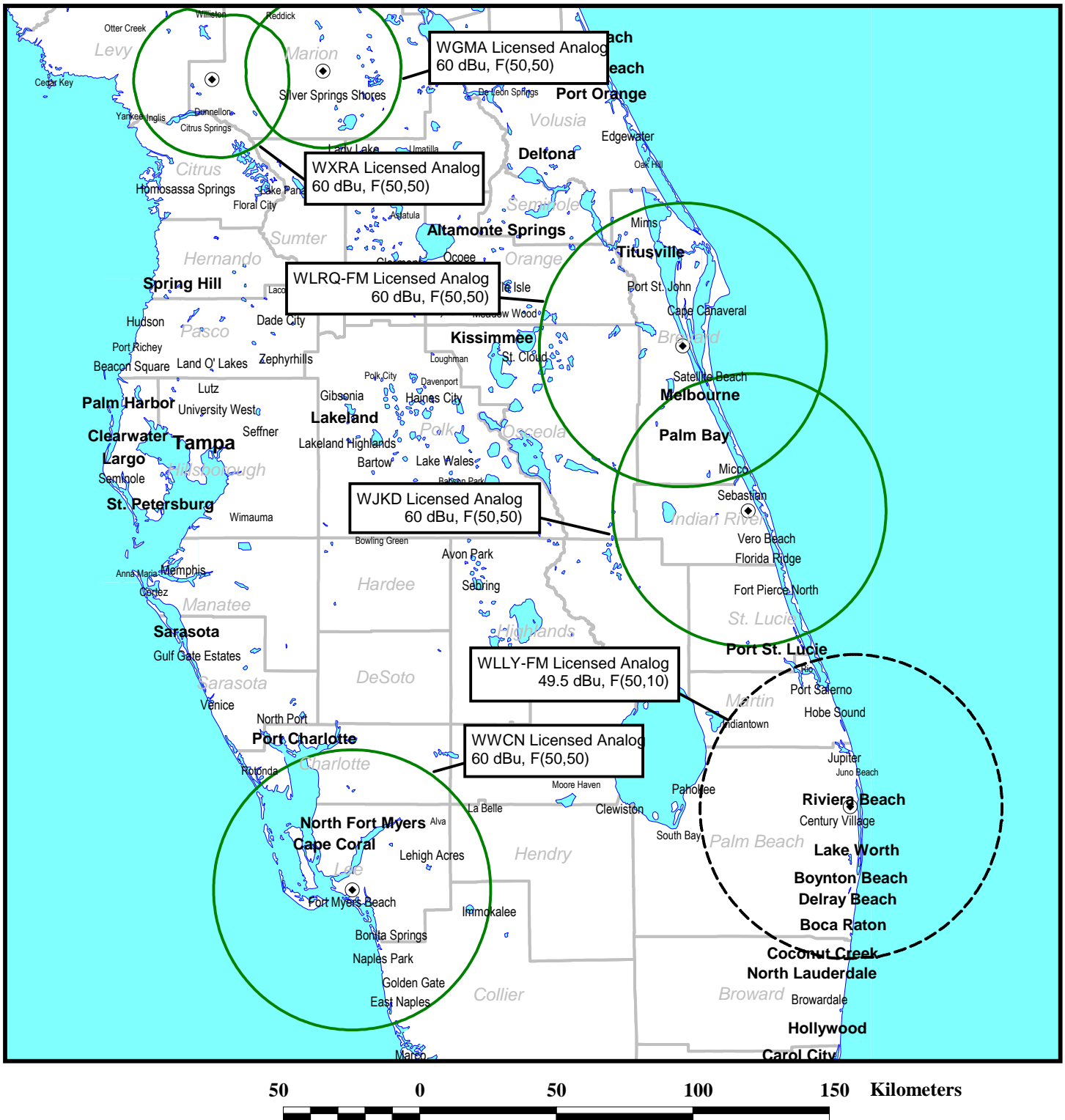
6. The applicant certifies that, with the exception of the digital power level requested, the proposed digital operation will comply with the technical specifications set forth in Appendix B of the *First Report and Order* in MM Docket No. 99-325.



W. Jeffrey Reynolds.

du Treil, Lundin & Rackley, Inc.
201 Fletcher Ave.
Sarasota, Florida 34237
(941)-329-6000
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May 27, 2016



IBOC -10 dBc PERMISSIBLE ERP ANALYSIS

FM STATION WLLY-FM
PALM BEACH GARDENS, FLORIDA
CHANNEL 258A (99.5 MHZ)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida 34237

Figure 2



FM Inquiry

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida

Listed stations are within 300 mi of the point at 026-45-42 080-04-42.

Callsign	Chan.	Freq.	Class	Service	Status	City			State	Latitude	Longitude	Distance (km)
ARN			DA	Antenna ID	Rotation	ERP (kW)	HAAT (m)	RCAMSL (m)	Rec. Type	Facility ID	Bearing (deg)	
WJKD	259	99.7	C2	FM	LIC	VERO BEACH			FL	027-44-07	080-27-27	114.23
BMLH-20040527AKU			N			50	134	137	C	70001	340.99	
WLRQ-FM	257	99.3	C2	FM	LIC	COCOA			FL	028-16-42	080-42-03	178.96
BLH-19910122KC			N			50	150	151	C	20372	340.14	
WWCN	257	99.3	C2	FM	LIC	FORT MYERS BEACH			FL	026-29-16	081-55-46	186.82
BMLH-20150406ABS			N			50	142	143	C	74286	261.02	
WGMA	259	99.7	A	FM	LIC	SILVER SPRINGS SHORE			FL	029-10-59.1	082-02-17.7	330.43
BLH-20140318ACC			N			2	174.5	193.9	C	191546	324.9	
WXRA	257	99.3	A	FM	LIC	INGLIS			FL	029-09-19	082-27-01	353.32
BLH-20080630ADG			D	84427		3.7	128	149	C	164174	319.35	