

TECHNICAL STATEMENT
IN SUPPORT OF REQUEST FOR FOR SPECIAL TEMPORARY
AUTHORITY (STA) FOR -10 DBC (10%) DIGITAL POWER
FM BROADCAST STATION WNPR(FM)
NORWICH, CONNECTICUT
CHANNEL 206B1 5.1 KW (H) 180 M HAAT

This Technical Statement was prepared on behalf of Connecticut Public Broadcasting, Inc., licensee of FM Broadcast Station WNPR(FM), Norwich, Connecticut, 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 recent FCC *Order* in MM Docket No. 99-325, Released: January 29, 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 WNPR(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 100 km that were considered in the analysis.

2. The technical contact information for WNPR is as follows:

Joseph D. Zareski
Director of Engineering
Connecticut Public Broadcasting, Inc. (CPBI)
Connecticut Public Television & Radio (CPTV&R)
1049 Asylum Avenue
Hartford, CT 06105
860-278-5310 / operator page
860-275-7402 2nd Floor Fax
860-275-7314 direct dial
jzareski@cptv.org
<http://www.cpbn.org>

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 other than an increase in digital IBOC power from -20 dBc to -10 dBc.

4. The analog transmitter power output for WNPR is 0.86 kW. The proposed digital transmitter power output is 0.086 kW (86 watts). Considering all system losses and antenna gain, the maximum analog effective radiated power is 5.1 kW and the maximum digital effective radiated power will be 0.51 (510 watts).

5. 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.

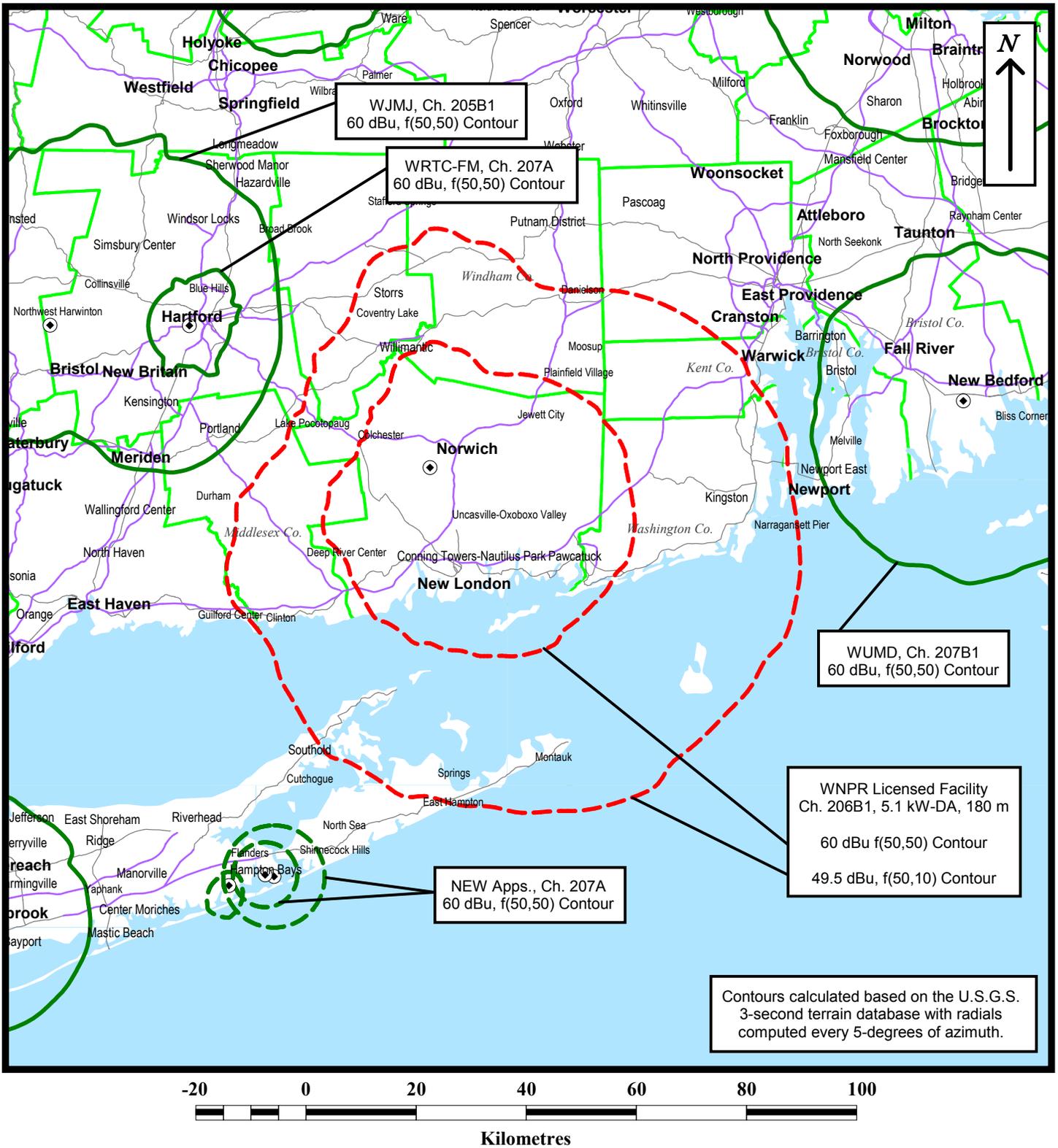


Louis R. du Treil, Jr.

du Treil, Lundin & Rackley, Inc.
201 Fletcher Ave.
Sarasota, Florida 34237

February 19, 2010

Figure 1



FIRST-ADJACENT CHANNEL DIGITAL COMPLIANCE ANALYSIS

duTreil, Lundin & Rackley, Inc. Sarasota, Florida



FM Inquiry

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

Listed stations are within 100 km of the point at 041-31-11 072-10-04.

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)		
WJMJ	205	88.9	B1	FM	LIC	HARTFORD	CT	041-45-09	072-59-40	73.57	
BLED-19971010KA			D	15060	0	6.2	185	389	C	62175	290.92
WRTC-FM	207	89.3	A	FM	LIC	HARTFORD	CT	041-45-06	072-41-29	50.67	
BMLED-20020201AAV			N			0.3	29	79	C	68255	300.83
NEW	207	89.3	A	FM	APP	EAST QUOGUE	NY	040-51-04	072-30-26	79.53	
BNPED-20071022BOF				83007		0.7	6	10	C	177390	201.02
NEW	207	89.3	A	FM	APP	HAMPTON BAYS	NY	040-51-13.9	072-31-35.4	79.84	
BNPED-20071018BBE			N			0.12	-7.95	21	C	174937	202.19
NEW	207	89.3	A	FM	APP	QUOGUE	NY	040-50-11	072-36-20	84.31	
BNPED-20071022AKP			D	82549		0.11	24	31	C	176776	205.89
WAMH	207	89.3	A	FM	LIC	AMHERST	MA	042-21-51	072-25-24	96.16	
BLED-1567						0.15	219	402	C	68222	347.4
WUMD	207	89.3	B1	FM	LIC	NORTH DARTMOUTH	MA	041-37-43	071-00-24	97.59	
BLED-20060608ADO			N			9.6	93	117	C	163899	82.47