TECHNICAL EXHIBIT
AMENDMENT TO
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
FCC FILE NO. BMPED-20090630ABE
RADIO STATION WICN
WORCESTER, MASSACHUSETTS
CH 213B1 1.1 KW (MAX-DA) 247 M

Technical Narrative

This Technical Exhibit was prepared on behalf of WICN Public Radio, Inc., licensee of noncommercial, educational FM (NCE-FM) station WICN. Station WICN is licensed (BMLED-20060501ANS) to operate on Channel 213B1 (90.5 MHz) at Worcester, Massachusetts, with a directional antenna maximum horizontal plane effective radiated power (ERP) of 8.1 kW and a vertical plane ERP of 7.2 kW using a Dielectric directional antenna system having a main lobe orientation of 255 degrees true and an antenna height above average terrain (HAAT) is 113 meters. In addition, WICN is also authorized by outstanding construction permit (BPED-20070907ADU) to operate on channel 213B1 with a with a directional antenna maximum horizontal plane ERP of 18.2 kW and a vertical plane ERP of 13 kW using a directional antenna system having an antenna height above average terrain (HAAT) is 113 meters. Furthermore, WICN has a pending modification application (BMPED-20090630ABE) which proposes to change transmitter site and operate on channel 213B1 with a directional antenna maximum circularly polarized ERP of 1.1 kW and an HAAT of 247 meters.

The purpose of this instant application is to amend the pending WICN application for modification of construction permit by modifying the directional antenna pattern and to also request a waiver of Section 73.509, which is discussed below. Figure 1 provides the horizontal plane relative field pattern for the modified directional antenna.

City Coverage

Figure 2 is a map showing the 60 dBu contours for the licensed and herein proposed WICN operations. As indicated, the proposed 60 dBu will encompass 100% of the Worcester city limits (obtained from the 2000 Census) which comports with Section 73.515.

Allocation Study

Figure 3 provides a summary of an allocation study for the proposed facility. There are no intermediate frequency (IF) related facilities in close proximity to the proposed facility. The tabulation at Figure 3 lists the results of a numerical analysis of the potential for contour overlap for all nearby co-channel and first-, second-, and third-adjacent-channel facilities. For the purposes of the numerical study, the maximum HAAT and ERP values were

used in calculating the maximum distance to the predicted service and interfering contours.

Figure 4 is a map depicting the predicted protected and interfering contours of those stations close enough to warrant further study. This is based on the numerical analysis in Figure 3, where there is an indication of the potential for prohibited overlapping contours. As indicated in Figures 3 and 4, the Section 73.509 allocation requirements for the proposed facility are fully met with respect to all pertinent facilities with the exception of WYCM on channel 211A at Charlton, Massachusetts.. A waiver of Section 73.509 is requested with respect to WYCM.

Waiver of Section 73.509

Figure 5 is a map which depicts the WICN licensed and proposed 60 dBu protected contours and the interfering 100 dBu contour of second adjacent channel station WYCM (formerly WBPV) on channel 211A at Charlton, Massachusetts (BLED-19840702DM). As indicated, the licensed WICN 60 dBu contour overlaps the WYCM 100 dBu contour and the proposed WICN 60 dBu contour would slightly increase the prohibited overlap area. Therefore, a waiver of Section 73.509 is respectfully requested.

In support of the waiver, it is noted that WYCM's 100 dBu is almost completely engulfed ("donuted") by WICN's licensed 60 dBu due to a "grandfathered" overlap situation. The increased overlap resulting from the proposed operation is considered to be *de minimus* as the area of overlap (received interference) would increase by only 0.1 square kilometers, from 1.4 square kilometers to 1.5 square kilometers. Furthermore, the proposed area of overlap would represent only 0.079% of the total area within the proposed WICN 60 dBu contour (1,950 square kilometers). Also, as shown on Figure 5 the proposed WICN operation will not result in an increase in the population within the 100 dBu overlap area (494 persons, 2000 Census) based on consideration of population centroids. Additionally, the proposed WICN 100 dBu interfering contour does not cause overlap (interference) to the WYCM 60 dBu protected contour as shown on Figure 4.

Also, as indicated on Figure 6 the proposed WICN operation will entirely eliminate grandfathered interfering 40 dBu contour overlap (interference caused) with the protected 60 dBu contour of co-channel station WPKT on channel 213B at Meriden, Connecticut (BLED-19910222KC). The existing 40 dBu contour overlap area contains 8,420 persons (2000 Census) within 75 square kilometers.

Additionally, the FCC predicted 60 dBu coverage area of WICN will be increased from 1,840 square kilometers to 1,905 square kilometers. It is also noted that the

move to the new tower location will improve line-of-sight coverage which is supported by a Longley-Rice 60 dBu coverage comparison which indicates that there will be an increase in 60 dBu coverage to approximately 332,658 persons.

Finally, the FCC's decision in Educational Information Corporation, 6 FCC Rcd 2207 (1991), regarding second and third adjacent channel overlap is analogous to this instant situation.[1]

Predicted Coverage and Interfering Contours

The locations of the predicted coverage and interfering contours were calculated in accordance with Section 73.313 of the FCC Rules using the Figures 1 and 1a of Section 73.333. The average terrain elevations from 3 to 16 km were computed every 1-degree of azimuth using the U.S.G.S. 30-second terrain database. The overall antenna HAAT was determined according to the provisions of Section 73.313 of the FCC Rules. The antenna radiation center HAAT in each radial direction and the ERP were used in conjunction with the propagation prediction curves of Section 73.333 to determine the distances to contours.

Canadian Allocation Study

The proposed site is 302 kilometers from the closest point of the Canadian Border. The 34 dBu F(50,10) Canadian interfering contour for the proposed WICN operation is shown on Figure 7. This contour does not extend into Canada and, thus, no Canadian impact is expected to occur. Therefore, the proposal appears to comply with the U.S./Canada FM Agreement. If necessary, it is respectfully requested that the Commission coordinate the proposal with Canada.

TV Channel 6 Protection

It is required that noncommercial educational FM facilities provide interference protection to affected TV channel 6 facilities as defined in Section 73.525. Pursuant to Section 73.525 (a) (1), all TV channel 6 facilities within 193 kilometers of a proposed channel 213 FM facility must be protected. Station WLNE-TV is the only station which WICN would be involved in normally prohibited contour overlap. In accordance with Section 73.525, a noncommercial educational FM modification application that is accompanied by a written agreement between the NCE-FM applicant and the affected TV channel 6 broadcast station will

[1] See also May 9, 1994 letter from Dennis Williams, Chief, FM Branch, Audio Services Division, Mass Media Bureau regarding WEEE(FM), Cherry Hill, NJ, Broadcast Learning Center, Inc., BPED-930422MA.

be accepted. Therefore, the applicant has obtained a written agreement with the licensee of WLNE-TV stating that it concurs with the NCE-FM facilities. A copy of this agreement is attached elsewhere to this application.

Environmental Considerations

The proposed WICN channel 213B1 facilities were evaluated in terms of potential radiofrequency radiation exposure at 2 meters above ground level in accordance with the OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". This Bulletin provides assistance in determining whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) electromagnetic fields.

The proposed antenna will be mounted at the 63-meter level on the existing tower structure. The calculated power density at 2 meters above ground level at the base of the tower was calculated using the appropriate equation contained in the Bulletin. Using a "greater than expected" vertical relative field value of 0.25 for the proposed directional antenna (see Figure 8), the total ERP of 2.2 kW (H+V) and an antenna center of radiation height above ground level of 63 meters, the calculated power density at two meters above ground level at the base of the tower is 0.0012 milliwatts per square centimeter (mW/cm^2), or 0.62% of the Commission's recommended limit applicable to uncontrolled exposure areas (0.2 mW/cm^2 for FM channel 213). Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the tower site will be restricted. Furthermore, the site will be appropriately marked with RFR warning signs. In addition, as this is a multi-user site, procedures will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such procedures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down.

Finally, it is noted that this technical exhibit only addresses the potential for radiofrequency electromagnetic field exposure.

W. Jeffrey Reynolds

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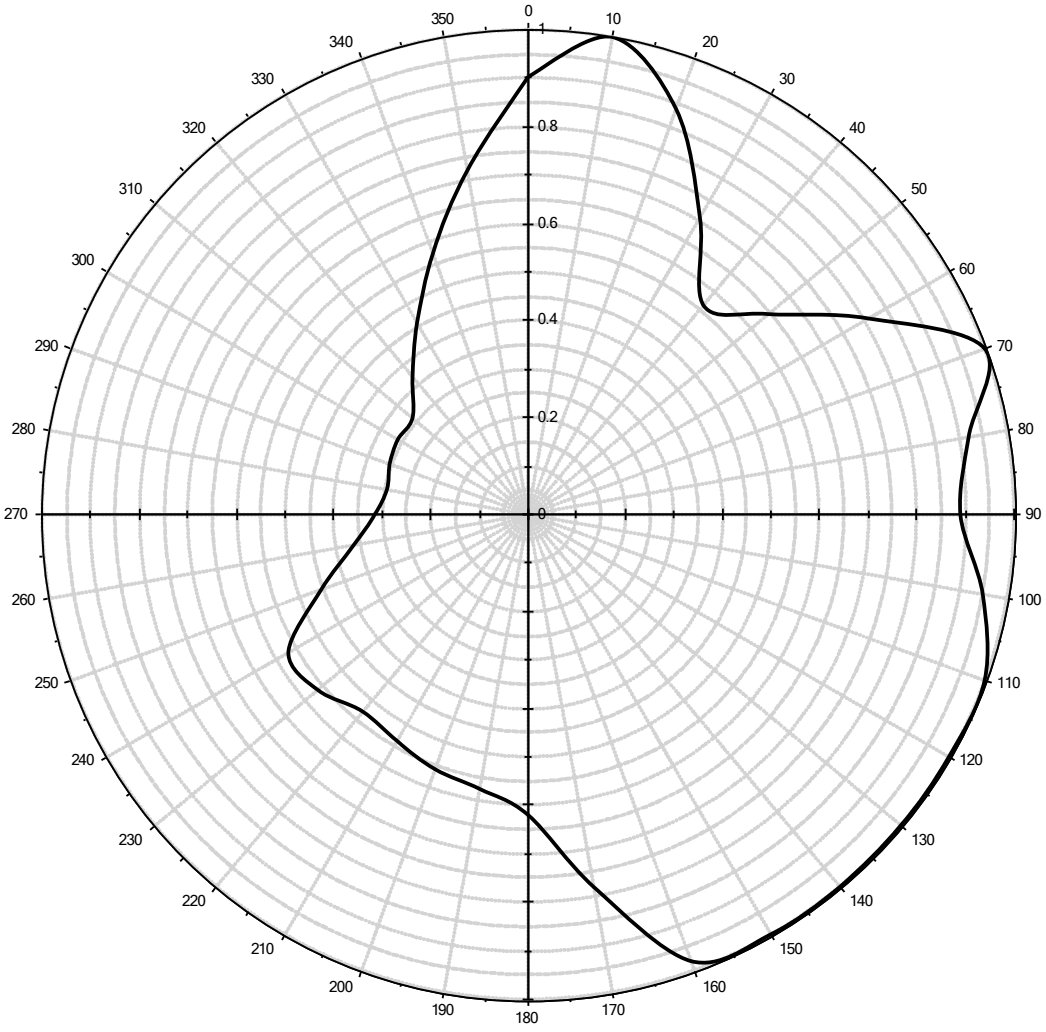
(941) 329-6000
JEFF@DLR.COM

August 27, 2009

DA Inquiry

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

Antenna Pattern: ***Antenna ID:*** 800228



Note: display reflects rotation of 0.00°

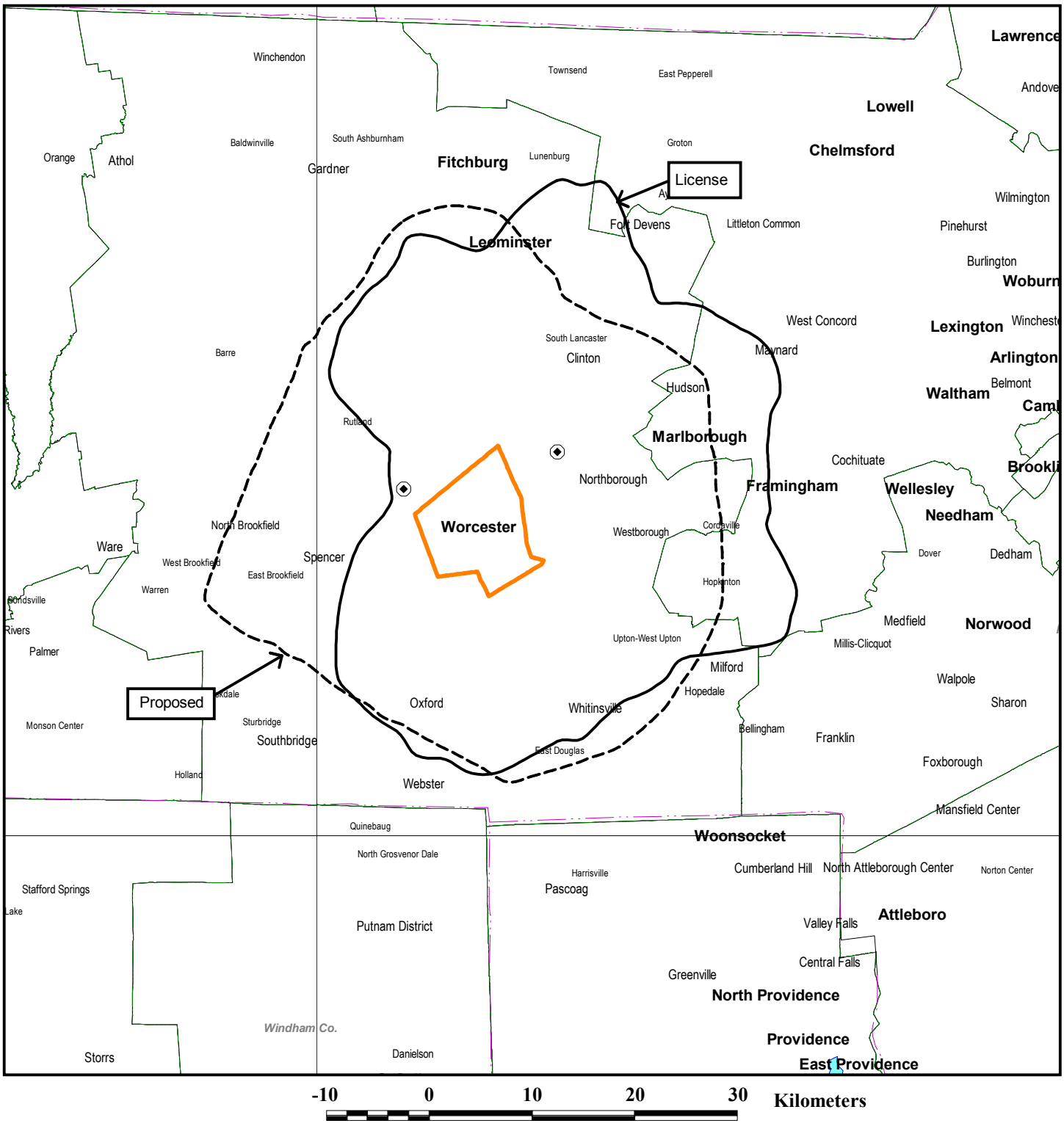
Antenna Details:

0°	0.904	***60°***	0.810	***120°***	1.000	***180°***	0.620	***240°***	0.569	***300°***	0.310
10°	1.000	***70°***	1.000	***130°***	1.000	***190°***	0.575	***250°***	0.453	***310°***	0.310
20°	0.890	***80°***	0.920	***140°***	1.000	***200°***	0.559	***260°***	0.365	***320°***	0.370
30°	0.708	***90°***	0.890	***150°***	1.000	***210°***	0.540	***270°***	0.315	***330°***	0.456
40°	0.563	***100°***	0.950	***160°***	0.980	***220°***	0.530	***280°***	0.295	***340°***	0.574
50°	0.644	***110°***	1.000	***170°***	0.780	***230°***	0.564	***290°***	0.303	***350°***	0.721

Antenna Make: NEW ***Standard Pattern:***

Antenna Model: WICN HYPOTHETICAL ***Last Change Date:***

Figure 2



FCC PREDICTED 60 DBU CONTOURS

FM STATION WICN
WORCESTER, MASSACHUSETTS
CH 213B1 1.1 KW (MAX-DA) 247 M

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

CDBS ALLOCATION STUDY

Job Title: Johnstown CP Site — Separation Buffer: 50 km
Channel: 213 — Coordinates: 42-18-11 71-53-52
ERP = 1.1 kW HAAT = 324 m

Callsign ID	City St.	Status	File Number	Channel Freq	ERP(kW) HAAT(m)	DA ID	Latitude Longitude	73 215	Bear (deg)	Dist. (km)	Req. (km)
NEW	NEW SALEM		BNPED	210 A	0.18	N	42-30-23	N	302.6	42.22	34.2
176684	MA	APP	20071019BBR	89.9	145		072-19-52			8.05	Close
NEW	60.0 dBu	Desired = 14.3 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW 100.0 dbu		Undesired = .9				
NEW	ATHOL		BNPED	210 A	1.8	Y	42-30-22	N	301.7	43.18	35.7
172383	MA	APP	20071017AFE	89.9	229		072-20-42			7.44	Close
NEW	60.0 dBu	Desired = 31.5 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW 100.0 dbu		Undesired = 2.5				
NEW	ATHOL		BNPED	210 A	2.0	N	42-34-16	N	310.9	45.67	35.0
174754	MA	APP	20071019ASQ	89.9	64		072-19-07			10.68	Close
NEW	60.0 dBu	Desired = 17.6 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW 100.0 dbu		Undesired = 1.7				
WYCM	CHARLTON		BLED	211 A	0.1	N	42-08-01	N	194.6	19.45	33.9
4102	MA	LIC	19840702DM	90.1	164		071-57-26			-14.48	Short[1]
WYCM	60.0 dBu	Desired = 13.2 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			WYCM 100.0 dbu		Undesired = .7				
NEW	FITCHBURG		BNPED	211 A	0.1	Y	42-35-12	N	6.6	31.72	33.9
177374	MA	CP	20071022BNX	90.1	100		071-51-12			-2.22	Short[2]
NEW	60.0 dBu	Desired = 10.3 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW 100.0 dbu		Undesired = .7				
WZBC	NEWTON		BMLED	212 A	1.0	N	42-20-05	N	86.4	59.67	68.5
68240	MA	LIC	20021216AAB	90.3	98		071-10-31			-8.83	Short[3]
WZBC	60.0 dBu	Desired = 18.4 km			Proposed 54.0 dbu		Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			WZBC 54.0 dbu		Undesired = 27.1				
WRIU	KINGSTON		BLED	212 A	3.4		41-29-52	N	161.0	94.54	80.6
69206	RI	LIC	19980911KA	90.3	158		071-31-43			13.97	Close
WRIU	60.0 dBu	Desired = 30.5 km			Proposed 54.0 dbu		Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			WRIU 54.0 dbu		Undesired = 46.0				
WAMC-FM	ALBANY		BMLED	212 B	10.0	N	42-38-14	N	290.0	110.91	143.2
70849	NY	LIC	19910528KA	90.3	821		073-10-07			-32.30	Short[3]
WAMC-FM	60.0 dBu	Desired = 75.4 km			Proposed 54.0 dbu		Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			WAMC-FM 54.0 dbu		Undesired = 110.0				
WICN	WORCESTER		BMPED	213 B1	1.1	Y	42-18-11	N	90.0		
72379	MA	APP	20090630ABE	90.5	324		071-53-52				
WICN	WORCESTER		BMLED	213 B1	8.1	Y	42-20-09	N	76.2		
72379	MA	LIC	20060501ANS	90.5	166		071-42-57				
WICN	WORCESTER		BPED	213 B1	18.2	Y	42-20-09	N	76.2		
72379	MA	CP	20070907ADU	90.5	166		071-42-57				

[1] Waiver of Section 73.509 requested. See Technical Narrative and Figure 5.
[2] Sufficient contour clearance - detailed study not warranted.
[3] No contour overlap – see Figure 4.

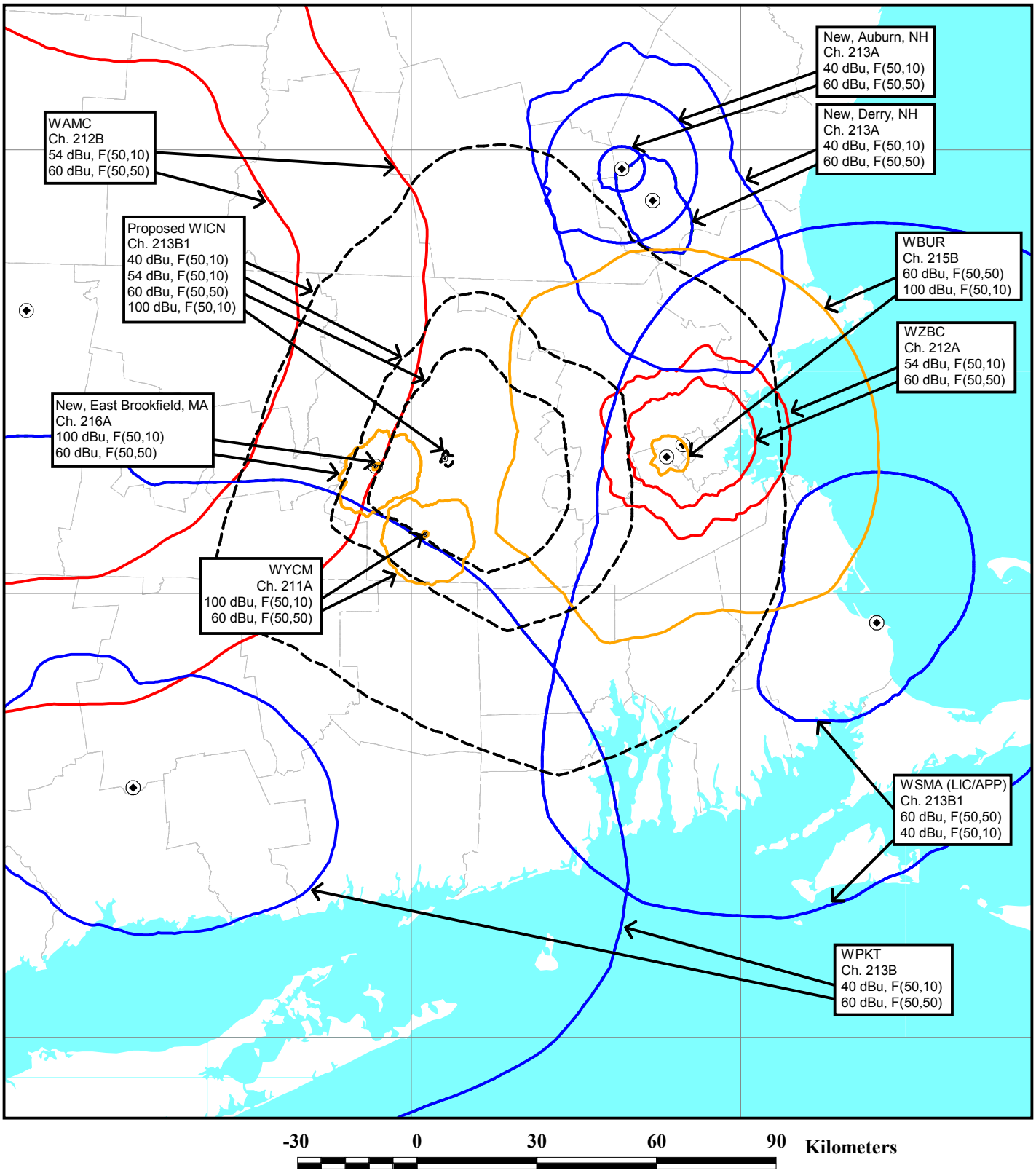
Callsign ID	City St.	Status	File Number	Channel Freq	ERP(kW) HAAT(m)	DA ID	Latitude Longitude	73 215	Bear (deg)	Dist. (km)	Req. (km)
NEW	DERRY		BNPED	213 A	0.15	Y	42-53-07	N	38.3	82.82	104.8
175362	NH	APP	20071019AHG	90.5	178		071-16-03			-22.01	Short[4]
NEW	60.0 dBu	Desired = 15.3 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			NEW	40.0 dbu	Undesired = 49.7				
NEW	AUBURN		BNPED	213 A	0.1	N	42-57-25	N	31.0	84.95	96.3
173234	NH	APP	20071012AOO	90.5	43		071-21-39.1			-11.31	Short[3]
NEW	60.0 dBu	Desired = 6.7 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			NEW	40.0 dbu	Undesired = 22.4				
WSPS	CONCORD		BLED	213 A	0.2	N	43-11-37	N	14.8	102.4	96.3
62166	NH	LIC	19830811AD	90.5	27		071-34-29			6.13	Close
WSPS	60.0 dBu	Desired = 6.7 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			WSPS	40.0 dbu	Undesired = 22.4				
WPEA	EXETER		BLED	213 A	0.1	N	42-58-44	N	45.6	108.07	95.6
68250	NH	LIC	19821213AI	90.5	35		070-57-00			12.46	Close
WPEA	60.0 dBu	Desired = 6.0 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			WPEA	40.0 dbu	Undesired = 20.1				
WPKT	MERIDEN		BLED	213 B	18.5	Y	41-33-42	N	223.9	113.8	168.0
13627	CT	LIC	19910222KC	90.5	314		072-50-41			-54.23	Short[3]
WPKT	60.0 dBu	Desired = 56.7 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			WPKT	40.0 dbu	Undesired = 134.8				
WSMA	SCITUATE		BLED	213 B1	7.7	Y	41-56-02	N	110.3	115.97	133.4
122202	MA	LIC	20060331ASV	90.5	164		070-35-10			-17.45	Short[3]
WSMA	60.0 dBu	Desired = 37.7 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			WSMA	40.0 dbu	Undesired = 100.2				
WSMA	SCITUATE		BMLED	213 B1	7.7	Y	41-56-02	N	110.3	115.97	133.4
122202	MA	APP	20080516AAL	90.5	164		070-35-10			-17.45	Short[3]
WSMA	60.0 dBu	Desired = 37.7 km			Proposed	40.0 dbu	Undesired = 89.6				
Proposed	60.0 dBu	Desired = 33.2 km			WSMA	40.0 dbu	Undesired = 100.2				
WTCC	SPRINGFIEL		BMLED	214 A	4.0	N	42-06-32	N	249.2	60.26	72.4
62018	MA	LIC	20070314ADO	90.7	73		072-34-45			-12.10	Short[5]
WTCC	60.0 dBu	Desired = 22.3 km			Proposed	54.0 dbu	Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			WTCC	54.0 dbu	Undesired = 33.3				
NEW	PLAINFIELD		BNPED	214 A	0.9	Y	41-42-45.6	N	174.3	65.9	73.3
171698	CT	APP	20071022AVO	90.7	168		071-49-08.7			-7.44	Short[5]
NEW	60.0 dBu	Desired = 23.2 km			Proposed	54.0 dbu	Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW	54.0 dbu	Undesired = 34.7				
NEW	WAUREGAN		BNPED	214 A	1.152	Y	41-40-29	N	178.8	69.81	71.1
173091	CT	APP	20071017AAX	90.7	119		071-52-47			-1.34	Short[5]
NEW	60.0 dBu	Desired = 21.0 km			Proposed	54.0 dbu	Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW	54.0 dbu	Undesired = 31.1				
NEW	DANIELSON		BNPED	214 A	1.7	Y	41-39-44	N	176.6	71.3	78.0
175975	CT	APP	20071019ALZ	90.7	185		071-50-51			-6.74	Short[5]
NEW	60.0 dBu	Desired = 27.9 km			Proposed	54.0 dbu	Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW	54.0 dbu	Undesired = 42.1				
NEW	HOPE VALLE		BNPED	214 A	0.53	Y	41-38-27	N	170.7	74.52	69.3
159759	RI	APP	20071012ADV	90.7	146		071-45-12			5.25	Close
NEW	60.0 dBu	Desired = 19.2 km			Proposed	54.0 dbu	Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW	54.0 dbu	Undesired = 28.3				

[4] No contour overlap – see Figure 4.
[5] Sufficient contour clearance - detailed study not warranted.

Callsign ID	City St.	Status	File Number	Channel Freq	ERP(kW) HAAT(m)	DA ID	Latitude Longitude	73 215	Bear (deg)	Dist. (km)	Req. (km)
WLMW	MANCHESTER	BLED		214 A	0.015	Y	42-58-59	N	18.3	79.64	60.7
35251	NH	LIC	19970829KB	90.7	265		071-35-25			18.98	Clear
WLMW	60.0 dBu	Desired = 10.5 km			Proposed 54.0 dbu		Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			WLMW 54.0 dbu		Undesired = 14.7				
WEVN	KEENE	BMLED		214 B1	1.5	Y	43-02-00	N	334.8	89.81	93.6
48440	NH	LIC	20030815ADI	90.7	412		072-22-04			-3.82	Short[6]
WEVN	60.0 dBu	Desired = 39.8 km			Proposed 54.0 dbu		Undesired = 50.1				
Proposed	60.0 dBu	Desired = 33.2 km			WEVN 54.0 dbu		Undesired = 60.4				
WBUR-FM	BOSTON	BLED		215 B	12.0	Y	42-18-27	N	89.3	55.55	56.1
68241	MA	LIC	20050812AGN	90.9	333		071-13-27			-0.52	Short[7]
WBUR-FM	60.0 dBu	Desired = 53.9 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			WBUR-FM 100.0 dbu		Undesired = 5.5				
NEW	EAST BROOK	BNPED		216 A	0.45	Y	42-17-13	N	264.2	17.5	34.6
171988	MA	APP	20071022AUG	91.1	138		072-06-32			-17.09	Short[7]
NEW	60.0 dBu	Desired = 17.8 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			NEW 100.0 dbu		Undesired = 1.4				
WKMY	WINCHENDON	BLED		216 A	0.06	N	42-42-09	N	345.5	45.85	33.8
92287	MA	LIC	20060302ACZ	91.1	190		072-02-18			12.07	Close
WKMY	60.0 dBu	Desired = 12.5 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			WKMY 100.0 dbu		Undesired = .5				
WBVC	POMFRET	BLED		216 A	0.1	N	41-53-27	N	186.1	46.05	33.9
91189	CT	LIC	20010223AAC	91.1	162		071-57-24			12.11	Close
WBVC	60.0 dBu	Desired = 13.1 km			Proposed 100.0 dbu		Undesired = 2.1				
Proposed	60.0 dBu	Desired = 33.2 km			WBVC 100.0 dbu		Undesired = .7				

[6] Sufficient contour clearance - detailed study not warranted.
[7] No contour overlap – see Figure 4.

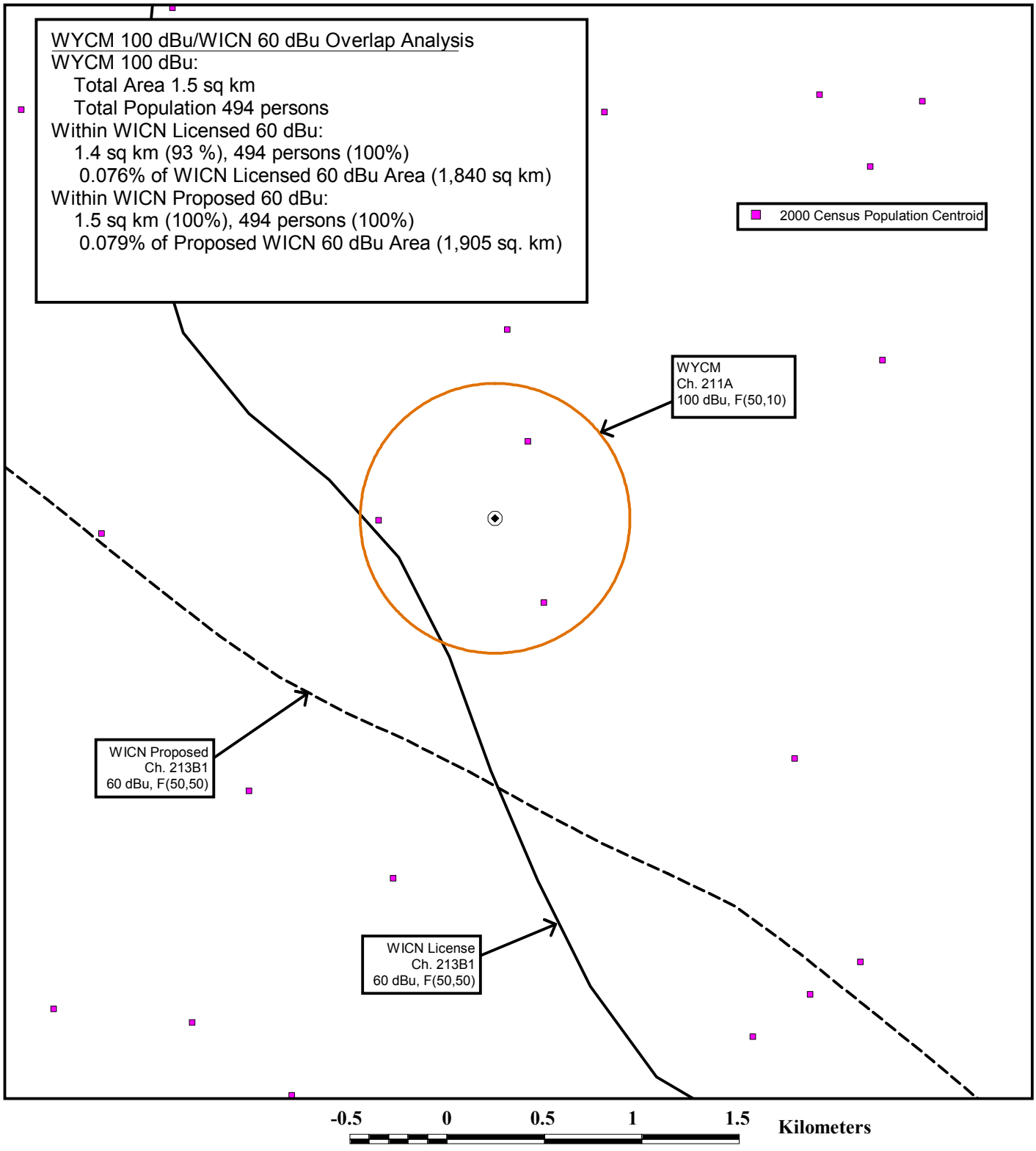
Figure 4



SECTION 73.509 COMPLIANCE

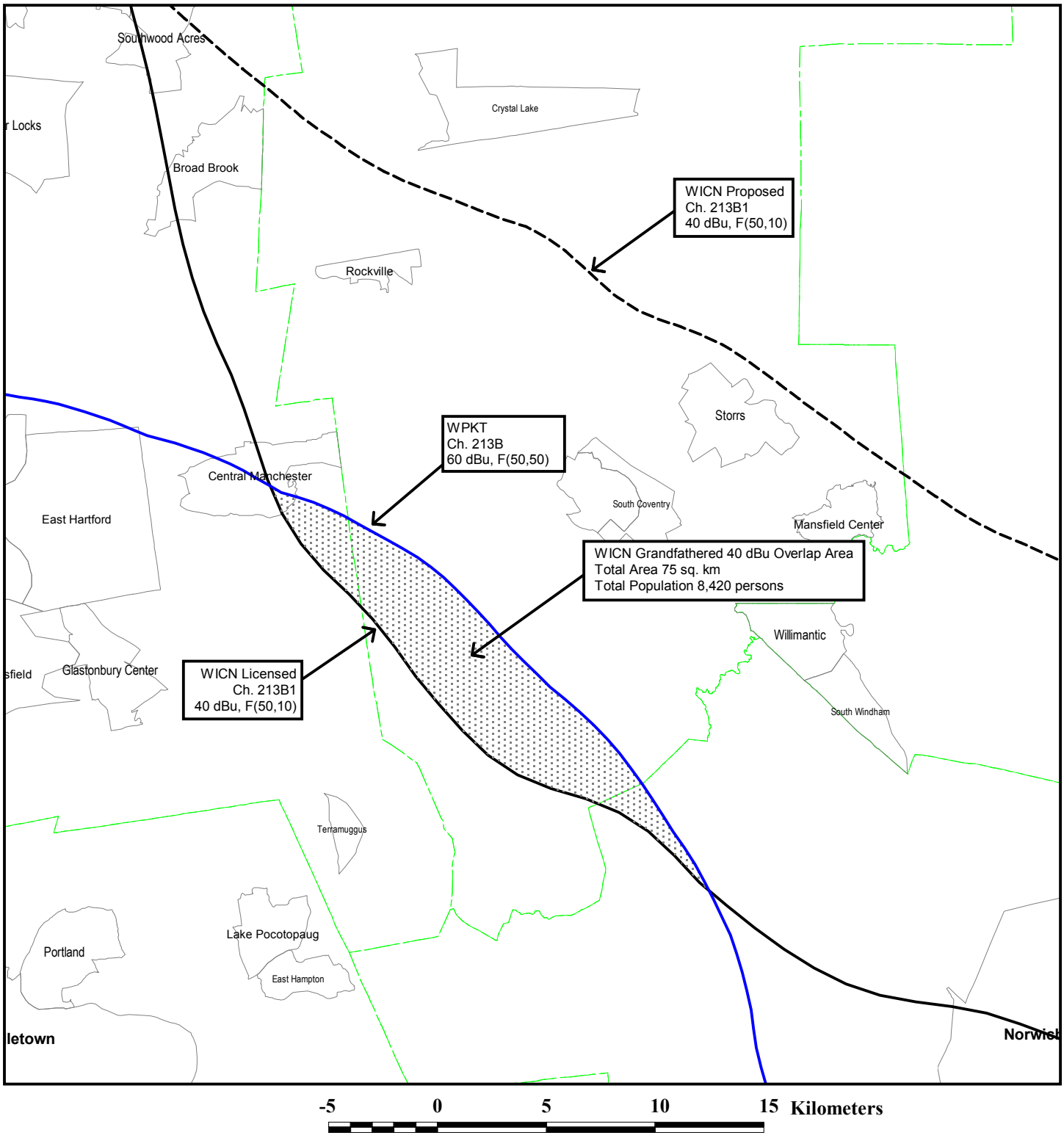
FM STATION WICN
WORCESTER, MASSACHUSETTS
CH 213B1 1.1 KW (MAX-DA) 247 M

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



SECTION 73.509 WAIVER

FM STATION WICN
WORCESTER, MASSACHUSETTS
CH 213B1 1.1 KW (MAX-DA) 247 M



SECTION 73.509 WAIVER

FM STATION WICN
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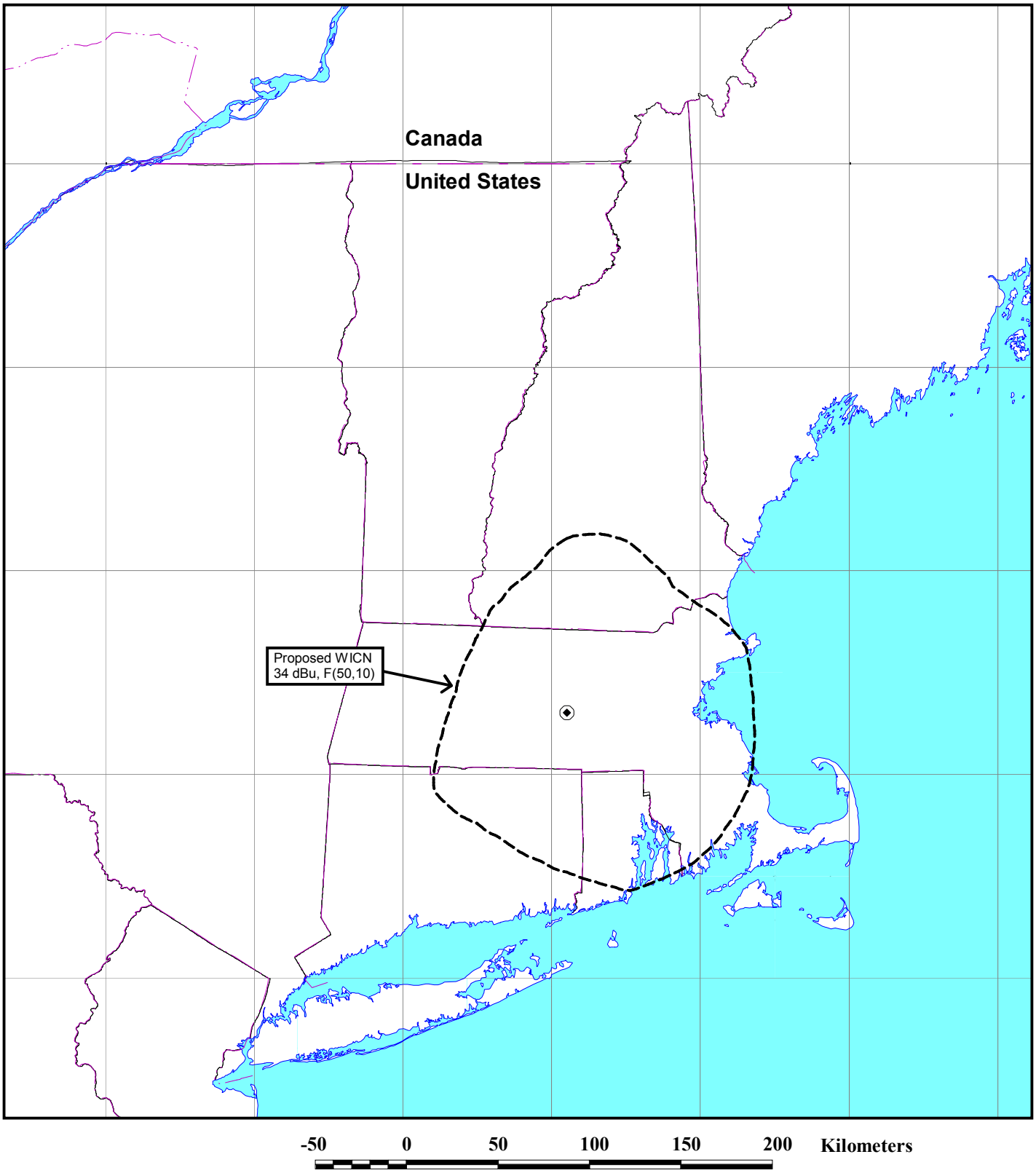

CANADIAN ALLOCATION STUDY

FM STATION WICN
WORCESTER, MASSACHUSETTS
CH 213B1 1.1 KW (MAX-DA) 247 M

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

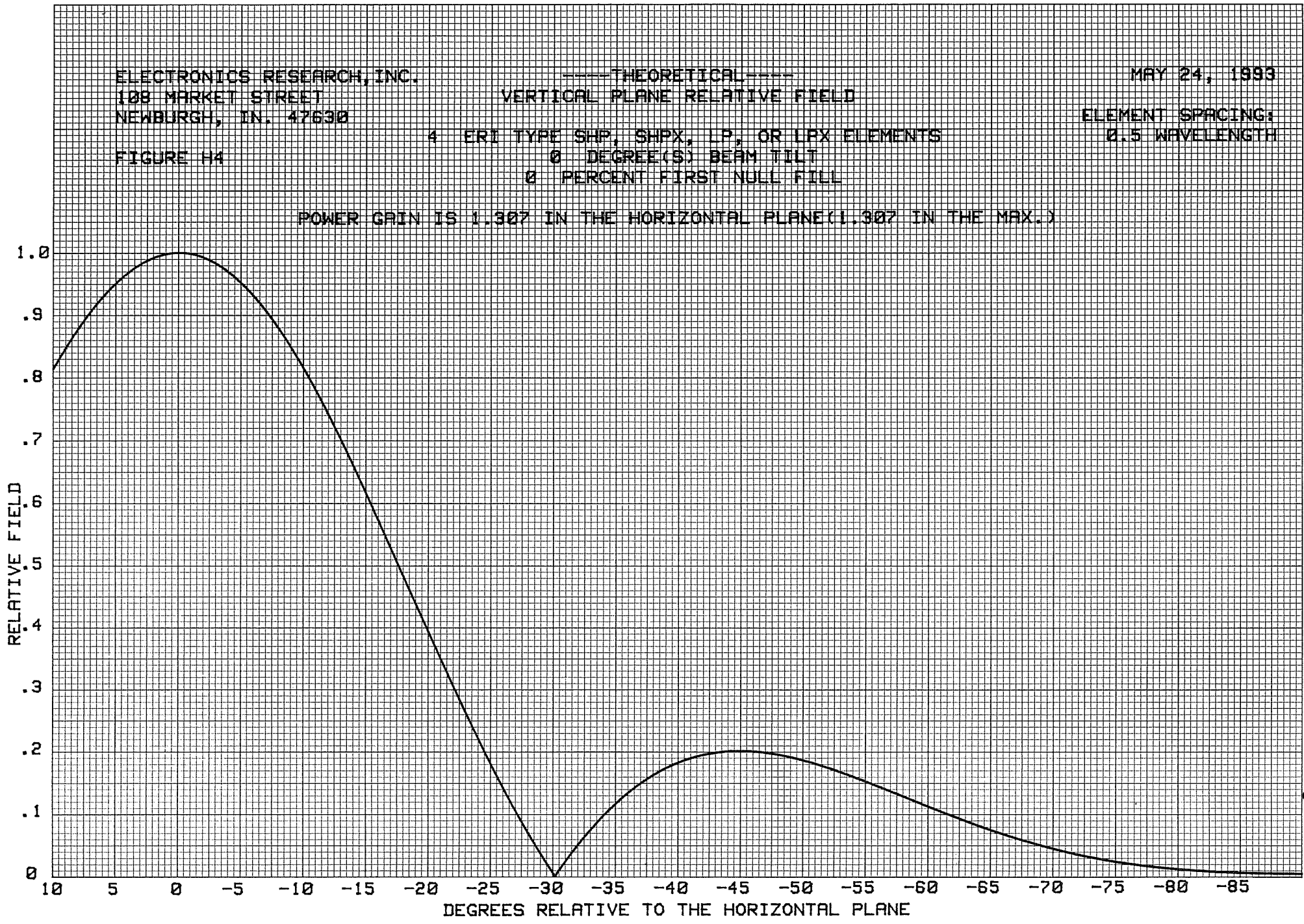
ELECTRONICS RESEARCH,INC.
108 MARKET STREET
NEWBURGH, IN. 47630
FIGURE H4
-----THEORETICAL-----
VERTICAL PLANE RELATIVE FIELD
MAY 24, 1993
4 ERI TYPE SHP, SHPX, LP, OR LPX ELEMENTS
0 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
ELEMENT SPACING:
0.5 WAVELENGTH
POWER GAIN IS 1.307 IN THE HORIZONTAL PLANE(1.307 IN THE MAX.)
RELATIVE FIELD
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
10 5 0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50 -55 -60 -65 -70 -75 -80 -85
DEGREES RELATIVE TO THE HORIZONTAL PLANE

Figure 8