

Class A TV Station WRIW-LP • Channel 50 • Providence, Rhode Island

Consolidated Engineering Statement (Exhibits 4, 5, and 6)

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by ZGS Broadcasting, licensee of Class A TV Station WRIW-LP, Channel N50, Providence, Rhode Island, to prepare the engineering portion of an application to relocate the station, replace the antenna, and make various other changes.

Background

Class A Station WRIW-LP is licensed (FCC File no. BLTTA-20010511AAI) to serve Providence, Rhode Island. It is proposed to relocate the station a distance of 7.0 kilometers and reduce the antenna height and effective radiated power. The proposed location is closer to Providence and will result in improved service to that community.

Allocation Conditions

The interfering contours of the existing operation overlap five stations (two full-service NTSC, two DTV station, and one Class A station). The interfering contours of the proposed operation will continue to overlap the same five stations. Interference calculations using the method of FCC/OET Bulletin No. 65 indicate that no unique (unmasked) interference will result to any station. Specific waiver requests for the five stations involved follow.

Full Service NTSC Stations (Exhibit 3) The applicable interfering contours of the proposed operation of WRIW-LP will continue to overlap or be encompassed by the protected 64 dBu F(50,50) contours of Station WSBE-TV, Channel N36, Providence, Rhode Island, and TV Station WNDS, Channel N50, Derry, New Hampshire. The proposed operation will be nearly collocated with WSBE-TV and no interference is predicted to that station due to the low power of the proposed operation. The proposed operation is 103.6 kilometers from WNDS(TV) and will operate with a different frequency offset from that station, and no interference is predicted to that station. The results of an OET-69 study are shown on page 3 of this narrative and demonstrate the lack of predicted interference. Waiver of Section 73.6011 with respect to WSBE-TV and WNDS(TV) is respectfully requested.

DTV Stations (Exhibit 4) The applicable interfering contours of the proposed operation of WRIW-LP will continue to overlap or be encompassed by the protected 41 dBu F(50,90) contours of Station WLNE-DT, Channel D49, New Bedford, Massachusetts and Station WJAR-DT, Channel D51, Providence, Rhode Island. Due to the low power of the proposed operation on a channel adjacent to these stations, no interference is predicted. The results of an OET-69 study are shown on page 3 of this narrative and demonstrate the lack of predicted interference. Waiver of Section 73.6013 with respect to WLNE-DT and WJAR-DT is respectfully requested.



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Class A Stations (Exhibit 5) The applicable interfering contour of the proposed operation of WRIW-LP will continue to overlap the protected 74 dBu F(50,50) contour of Class A Station WVVH-LP, Channel N50, Southampton, New York. The proposed operation would be 114.7 km from that station. Due to the low power of the proposed operation and of WVVH-LP, no interference is predicted. The results of an OET-69 study are shown on page 3 of this narrative and demonstrate the lack of predicted interference. Waiver of Section 73.6012 with respect to WVVH-LP.

Proximity to the Canadian Border

The proposed operation would be 357.5 km from the common border between the U.S. and Canada, which is within the 400 km distance specified in the Working Arrangement for Allotment and Assignment of VHF and UHF Television Broadcasting Channels Under the Agreement Between the Government of the United States of American and the Government of Canada Relating to the TV Broadcasting Service. For UHF stations, Table I of the Working Arrangement specifies a minimum interfering field strength at the border of 24 dBu. For the proposed operation, the maximum distance to the F(50,10) 24 dBu contour would be 190.6 km, so the proposed operation need not be coordinated with Canada.



/s/ Robert D. Weller

Robert D. Weller, P.E.

April 24, 2003



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

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Summary of OET-69 Calculation Results

Interference analysis
tvixstudy 2.3.16

Station parameters:

	--Modified-----	--Original-----
Station:	N50 WRIW-LP LIC	N50 WRIW-LP LIC
City:	PROVIDENCE, RI	PROVIDENCE, RI
Coordinates:	N 41-48-16.6	N 41-48-12.0
	W 71-28-23.8	W 71-33-27.0
Height AMSL:	193.0 m	272.0 m
Maximum ERP:	16.4 kW	18.4 kW
Azimuth pattern:	DIE-19139_TLP16-M	ANT-17723_ACS16AR
Orientation:	135.0	180.0
Elevation pattern:	OET-69 generic	OET-69 generic
Service level:	75.0 dBu	75.0 dBu

Protected station		Base Pop	IX Change	%Base	Unique IX
N50 WNDS LIC	DERRY, NH	3,322,561	--	--	0
N53 WEDN LIC	NORWICH, CT	1,576,347	--	--	0
N53 WEDN CP	NORWICH, CT	1,464,344	--	--	0
N50 WNJN LIC	MONTCLAIR, NJ	15,352,459	--	--	0
N50 WNJN CP	MONTCLAIR, NJ	16,017,197	--	--	0
N36 WSBE-TV LIC	PROVIDENCE, RI	3,223,451	--	--	0
N49 WEDW LIC	BRIDGEPORT, CT	3,797,487	--	--	0
N43 WSAH LIC	BRIDGEPORT, CT	3,016,597	--	--	0
N57 WGBY-TV CP	SPRINGFIELD, MA	2,281,021	--	--	0
N57 WGBY-TV LIC	SPRINGFIELD, MA	2,176,106	--	--	0
N46 WWDP LIC	NORWELL, MA	2,658,947	--	--	0
N46 WWDP APP	NORWELL, MA	4,698,070	--	--	0
D50 WYPX CP	AMSTERDAM, NY	858,000	-108,103	-12.6	0
D50 WYPXDT allot	AMSTERDAM, NY	858,000	-2,133	-0.2	0
D49 WLNE-TV CP	NEW BEDFORD, MA	5,065,000	-283,172	-5.6	0
D49 WLNETD allot	NEW BEDFORD, MA	5,065,000	40,963	0.8	0
D51 WJAR CP	PROVIDENCE, RI	6,170,000	261,509	4.2	0
D51 WJARDT allot	PROVIDENCE, RI	6,170,000	128,036	2.1	0
D49 WEKW-TV CP	KEENE, NH	204,000	-142,520	-69.9	0
D49 WEKWDT allot	KEENE, NH	204,000	-3,619	-1.8	0
N51 960724LI APP	PITTSFIELD, MA	1,330,438	--	--	0
N51 WNYA CP	PITTSFIELD, MA	1,082,905	--	--	0
N48 WYDN LIC	WORCESTER, MA	4,939,963	--	--	0
N50-A WRDM-LP APP	HARTFORD, CT	875,206	3,145	0.4	0
N50zA WVVH-LP LIC	SOUTHAMPTON, ET, NY	6,670	0	0.0	0
N51-L W51BZ LIC	NEW HAVEN, CT	826,136	9,145	1.1	0

Note:

The results of the OET-69 algorithm are dependent on the use of computer databases, including terrain, population, and FCC engineering records. While Hammett & Edison, Inc. endeavors to follow official releases and established precedents on the matter, FCC policy on DTV analysis methods is constantly changing. Thus, the results of OET-69 interference and coverage studies are subject to change and may differ from FCC results.



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