

Station WSHM-LP • As DTV Channel 49 • Springfield, Massachusetts

Statement Concerning Interference

The applicant seeks authority to shift the operation of its Low Power Television Station WSHM-LP, Channel N67, Springfield, Massachusetts, to an “in-core” channel. Additionally, the applicant seeks authority to concurrently “flash-cut” the operation of WSHM-LP from NTSC Channel 67 to DTV Channel 49, with some associated facility modifications.

The proposed operation was analyzed using the general methodology described in OET Bulletin No. 69 using proprietary software developed by Hammett & Edison, Inc. That analysis software, described more fully in the Petition for Reconsideration in MM Docket 87-268, filed June 13, 1997,* employs all of the features in the FCC’s software and obtains similar results. The results of the analysis are included on the accompanying pages of this exhibit and indicate that the proposed operation is in compliance with Sections 74.793(e) through (h) of the Commission’s rules, when that analysis is based on 1-by-1-kilometer cells and terrain profiles are extracted at 10 points per kilometer. FCC processing using these finer-resolution parameters is hereby requested, pursuant to the Commission’s August 10, 1998, Public Notice, “Additional Applications Processing Guidelines for DTV.” In addition, the actual antenna elevation-plane pattern has been used, because of the 16-bay antenna gain, the actual electrical beam tilt of 1.75° has been used, instead of the default 0.75°, and depression angles have been correctly calculated, using the antenna’s effective height above mean sea level, because of the large difference in that height versus the antenna’s height above ground. Pursuant to Paragraph 66 of the January 19, 2001, MM Docket 00-39 Report & Order, the use of these more accurate analysis factors is permitted where it would “make a critical difference.”

The proposed operation is either not on any of the channels listed or not within the land mobile protection distance described in Section 74.709 of the Rules.

The proposed operation is not on any of the channels listed as requiring additional measures to protect frequencies used by the Global Positioning System, as described in Section 74.794(b).

The proposed operation is not within the coordination zone of any of the radio astronomy, research, or receiving installation facilities listed in Section 73.1030.

* <http://www.h-e.com/pdfs/he87-268.pdf>



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OET-69 Interference Study for WSHM-LP as D49

OET-69 Interference Analysis, 2000 Census
tvstudy v3.2.4

This interference study is based on 1.00 x 1.00 kilometer cells and terrain profiles with 10.0 points per kilometer. **FCC processing using these finer-resolution parameters is hereby requested,** pursuant to the Commission's August 10, 1998, Public Notice, "Additional Applications Processing Guidelines for DTV."

Station: D49 L WSHM-LP LIC
City: SPRINGFIELD, MA
Facility ID: 67980
Coordinates: N 42-14-28.0
W 72-38-56.0
Height AMSL: 364.1 m
Maximum ERP: 0.084 kW
Azimuth pattern: ALP-HSNRaz.pat
Orientation: 170.0
Elevation pattern: ALP-16elv.pat
Electrical tilt: 1.75
Service level: 51.9 dBu

Warning - some records had missing or bad data:

D48 WRNNTV APP Re-computed DTV baseline population

Protected station		Base Pop	Unique IX	%Chng
D48	WRNN-TV LIC KINGSTON, NY	10,656,865	0	0.00
D48	WRNNTV APP KINGSTON, NY	8,986,825	0	0.00
D49	WEKW-TV LIC KEENE, NH	217,630	1,013	0.47
D49	WEKW-TV alot KEENE, NH	217,630	0	0.00
D49	WLNE-TV LIC NEW BEDFORD, MA	5,328,639	0	0.00
D49	WLNE-TV alot NEW BEDFORD, MA	5,328,639	0	0.00
D49	WNEP-TV CP SCRANTON, PA	1,462,183	0	0.00
D49	WNEP-TV LIC SCRANTON, PA	1,462,183	0	0.00
D49	WNEP-TV alot SCRANTON, PA	1,462,183	0	0.00
D49	WWSI LIC ATLANTIC CITY, NJ	1,159,541	0	0.00
D49	WWSI alot ATLANTIC CITY, NJ	1,159,541	0	0.00
D50	WYPX LIC AMSTERDAM, NY	878,914	0	0.00
D50	WYPX alot AMSTERDAM, NY	878,914	0	0.00
N34-L	WESA-LP CP GRANBY, CT	506,128	0	0.00
N35+L	W35BK LIC PLAINFIELD, MA	1,460	0	0.00
N45+L	WSHM-LP APP SPRINGFIELD, MA	512,512	0	0.00
N45z	WEWB-TV LIC SCHENECTADY, NY	1,344,615	0	0.00
N48+	WYDN LIC WORCESTER, MA	5,195,151	430	0.01
N48-L	WRNT-LP CP HARTFORD, CT	716,861	0	0.00
N49+	WLED-TV LIC LITTLETON, NH	111,721	0	0.00
N49+A	WNDR-LP CP SYRACUSE, NY	306,929	0	0.00
N49+L	WNYN-LP CP NEW YORK, NY	3,499,458	0	0.00
N49-	WEDW LIC BRIDGEPORT, CT	4,025,333	2,145	0.05
N49-A	WVBK-CA LIC MANCHESTER, ETC, VT	6,222	0	0.00

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Protected station	Base Pop	Unique IX	%Chng
N49zA WFNY-CA LIC	GLOVERSVILLE, NY	60,487	0 0.00
N49zL W49BE LIC	HACKETTSTOWN, NJ	78,280	0 0.00
N50- WZMY-TV LIC	DERRY, NH	3,570,218	0 0.00
N50-A WRDM-LP CP	HARTFORD, CT	873,143	0 0.00
N50zA WRIW-LP CP	PROVIDENCE, RI	686,237	0 0.00
N50zA WRIW-LP LIC	PROVIDENCE, RI	555,448	0 0.00
N51+ 960724LI APP	PITTSFIELD, MA	1,349,043	0 0.00
N51+ WNYA LIC	PITTSFIELD, MA	624,501	0 0.00
N51zA WDMR-LP CP	SPRINGFIELD, MA	736,645	0 0.00
N53z WEDN LIC	NORWICH, CT	1,515,694	0 0.00
N57+ WGBY-TV LIC	SPRINGFIELD, MA	2,291,784	0 0.00

Note: The results of the OET-69 algorithm are dependent on the use of computer databases and complex software algorithms, which may vary between computer platforms and installations. Also, while Hammett & Edison, Inc. endeavors to follow official releases and established precedents on the matter, FCC policy on DTV analysis methods changes from time to time. Thus, the results of OET-69 interference and coverage studies are subject to change and may differ from FCC results.

