

CONTOUR OVERLAP REQUIREMENTS

The proposed facility provides the requisite contour protection to co-channel and adjacent channel stations as required by 47 CFR §73.509 using the standards set forth therein. An initial search of all relevant co-channel and adjacent-channel stations was performed. A tabulation of possibly-affected stations follows, with each entry showing a clearance margin, expressed in decibels, between the relevant protected and interfering contours of the proposed facility with respect to the protected and interfering contours of the incumbent station, with negative values indicating prohibited overlap exists:

Callsign	City	State	Freq (MHz)	Chan. #	ERP (W)	Class	Status	Dist (km)	Clear (dB)
WKVP	CHERRY HILL	NJ	89.5	208	2000	A	LIC	31.78	-12.44
WOEL-FM	ELKTON	MD	89.9	210	3000	A	LIC	73.23	-4.95
WGLS-FM	GLASSBORO	NJ	89.7	209	750	A	LIC	38.87	-8.70
WXLV	SCHNECKSVILLE	PA	90.3	212	420	A	LIC	75.89	0.01
WJTL	LANCASTER	PA	90.3	212	12000	B	LIC	104.52	0.05
WJPH	WOODBINE	NJ	89.9	210	1000	A	LIC	90.64	0.14
WXLV	SCHNECKSVILLE	PA	90.3	212	950	A	CP	89.7	0.39
WVPH	PISCATAWAY	NJ	90.3	212	100	A	CP	86.84	0.71
WNJM	MANAHAWKIN	NJ	89.9	210	200	A	LIC	93.76	1.00
NEW	TOMS RIVER	NJ	90.3	212	4000	A	CP	99.56	1.45
WVPH	PISCATAWAY	NJ	90.3	212	200	A	LIC	85.69	1.54
WDVR	DELAWARE TOWNSHIP	NJ	89.7	209	3800	B1	CP	57.1	1.57
WDVR	DELAWARE TOWNSHIP	NJ	89.7	209	4800	A	LIC	57.18	1.60
980512MI	MORGANTOWN	PA	89.7	209	25	A	CP	55.62	3.23
WXHD	MOUNT HOPE	NY	90.1	211	1100	A	LIC	163.46	3.32
WCSP-FM	WASHINGTON	DC	90.1	211	36000	B	LIC	195.11	3.81
WVBV	MEDFORD LAKES	NJ	90.5	213	21000	B	LIC	68.35	4.09
WNJZ	CAPE MAY COURT HOUSE	NJ	90.3	212	6000	A	LIC	110.49	4.53
WCVH	FLEMINGTON	NJ	90.5	213	78	A	LIC	63.79	5.34
WKCR-FM	NEW YORK	NY	89.9	210	630	B1	LIC	127.78	5.93
NEW	READING	PA	90.5	213	10	A	APP	66.2	5.94

Stations with a clearance ratio in excess of 6 dB were excluded from the tabulation in the interest of brevity.

As shown above, with the exception of the first three stations (WKVP, WOEL-FM, and WGLS-FM), there is no prohibited overlap between the proposed facility and the incumbent station. Those three stations represent cases of existing, grandfathered overlap, each of which will be analyzed in detail in the sections that follow. Of the remaining entries, the six facilities with clearance margins of 1 dB or less will also be analyzed in further detail to clearly demonstrate lack of prohibited contour overlap.

WKVP and WGLS-FM

WKVP operates on third-adjacent channel 208 with respect to WRTI. WGLS-FM operates on second-adjacent channel 209. As second- and third-adjacent stations, the proposed facility's 100 dBu interfering contour is prohibited from overlapping those stations' 60 dBu protected contours, and in fact, it does not as is shown in the contour plots that follow. However, both stations' 100 dBu interfering contours are wholly contained within the proposed facility's 60 dBu service contour. Such is also the case for the presently-licensed WRTI facility. As such, there is no net change in the interference area, therefore the instant application complies with 47 CFR §73.509(d)(1).

WOEL-FM

WOEL-FM operates on first-adjacent channel 210 in Elkton, MD. As presently licensed, WRTI and WOEL-FM share mutual prohibited overlap in both caused and received interference with regard to their 60 dBu protected and 54 dBu interfering contours. The existing interference areas, both caused and received, will be decreased by the instant application as is shown in the following contour plots, thereby complying with 47 CFR §73.509(d)(1). Due to their close proximity, contours were generated using 1 degree azimuth intervals. A magnified-view plot is also included to clearly show that proposed facility's protected and interfering contours do not extend beyond those of the currently-licensed facility at any azimuth at which overlap to the relevant WOEL-FM contours already exists, thereby demonstrating the reduction in the areas of both caused and received interference.

WJTL

WJTL, Lancaster, PA operates on first-adjacent channel 212. There is no prohibited contour overlap with respect to the proposed facility as is shown in the following contour plot. Due to their close proximity, a 1-degree interval was used to plot the distance to the relevant contours to confirm that no overlap exists at any azimuth.

WXLV (LICENSED) and WXLV (CONSTRUCTION PERMIT)

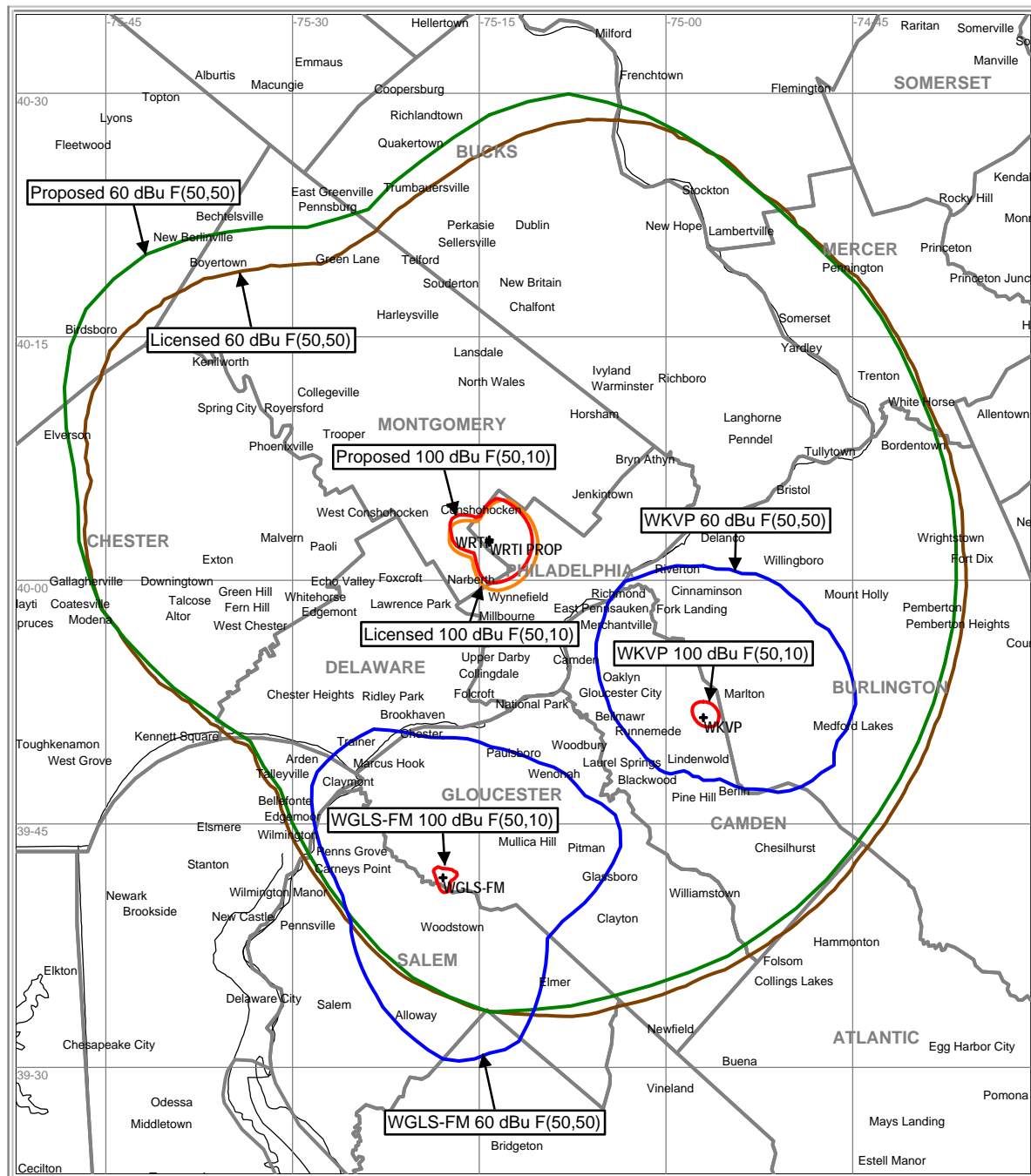
Both the licensed facility as well as the outstanding construction permit for first-adjacent station WXLV, Schnecksville, PA are fully protected; there is no prohibited contour overlap with either facility as shown in the included plots. The 54 dBu F(50,10) interfering contour from WRTI approaches, but does not overlap, the protected contour of the licensed WXLV 60 dBu F(50,50) contour as is shown in the magnified view.

WJPH, WVPH, WVPH-CP, AND WNJM

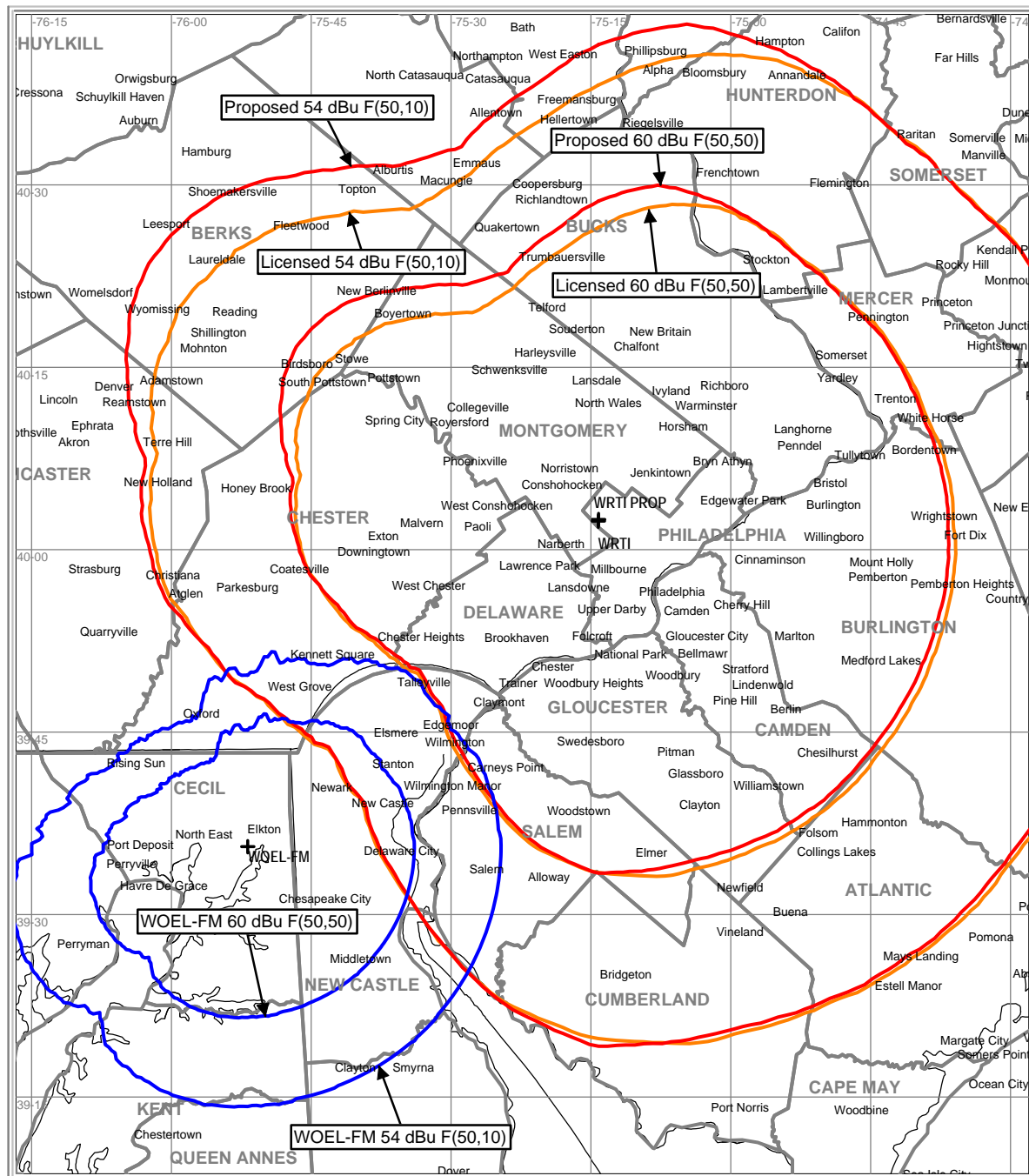
The above are all first-adjacent stations. There is no prohibited contour overlap with respect to the proposed facility as is shown in the included contour plots.

Based on the analyses contained herein, the proposed facility fully complies with 47 CFR §73.509 with respect to prohibited contour overlap to all existing facilities, applications, and construction permits.

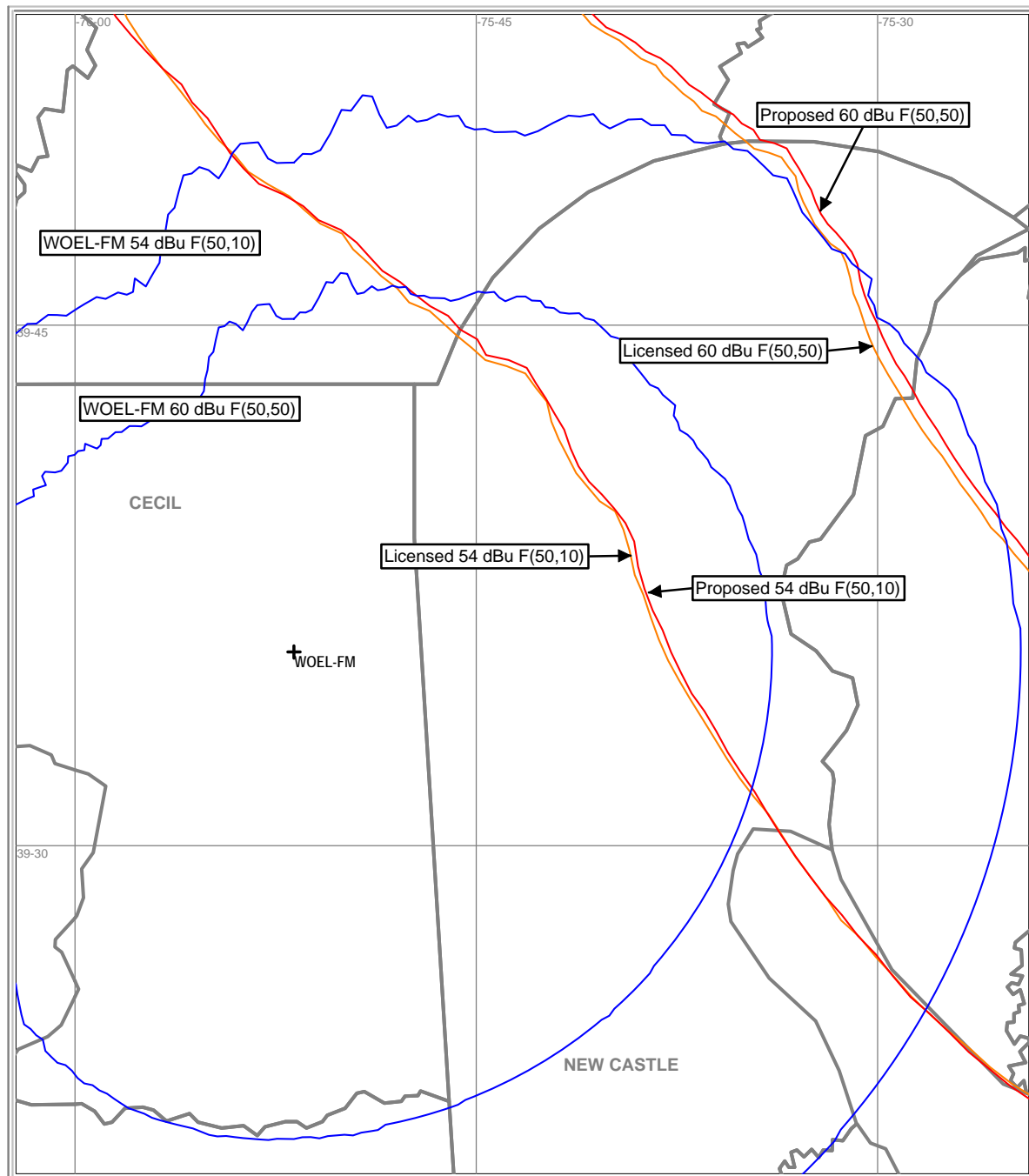
WKVP and WGLS-FM Interference



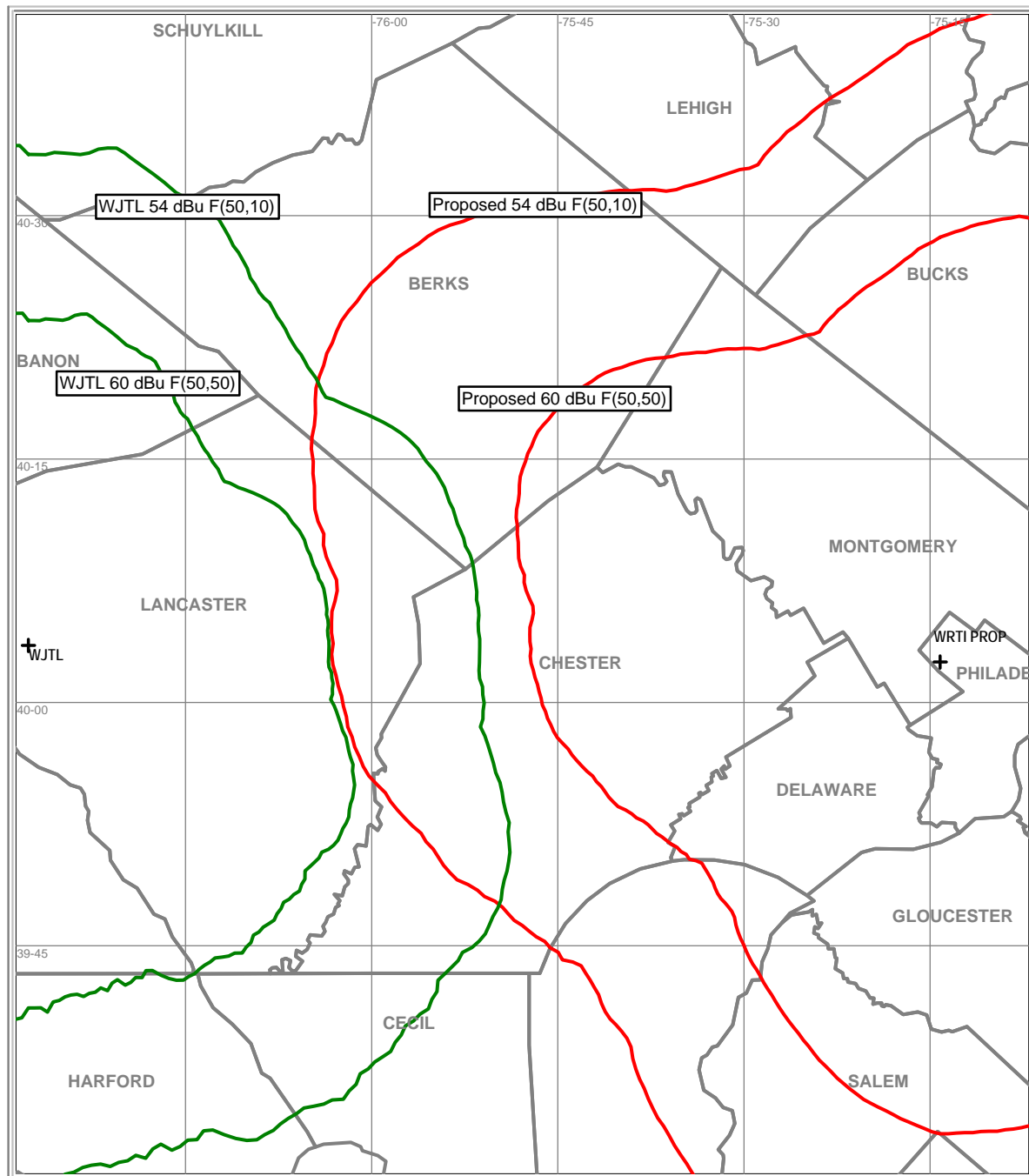
WOEL-FM Interference



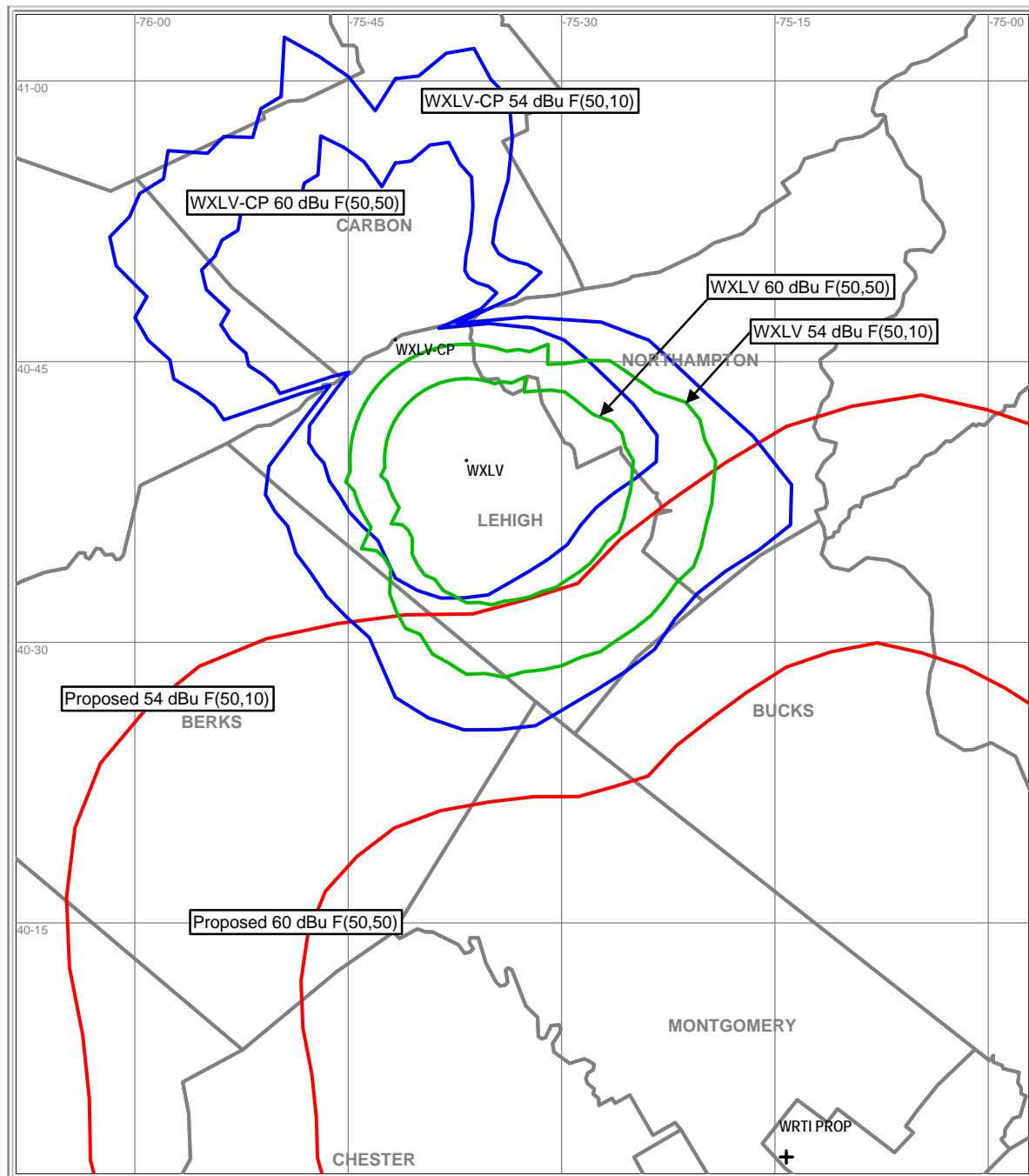
WOEL-FM Interference - Magnified View



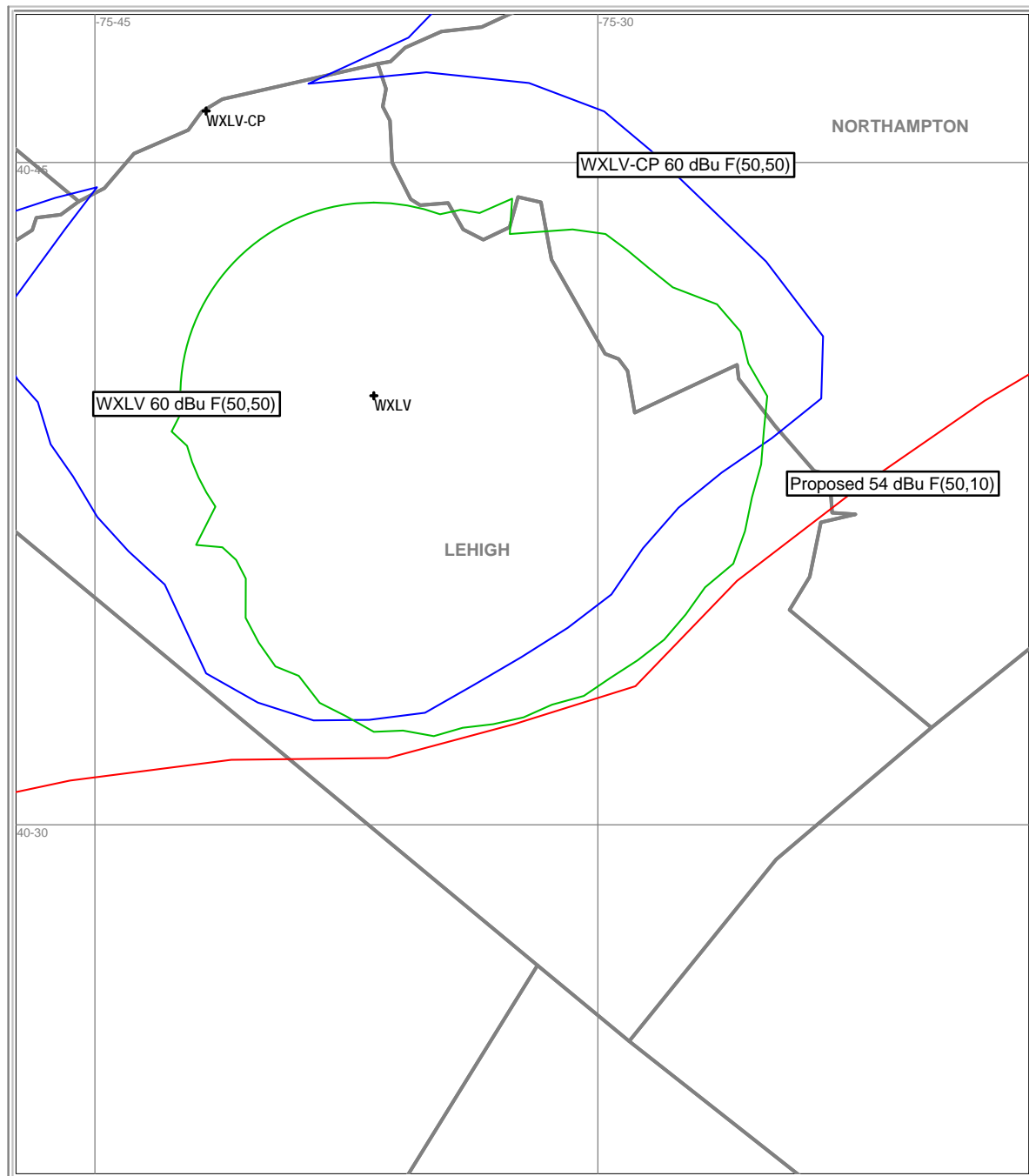
WJTL



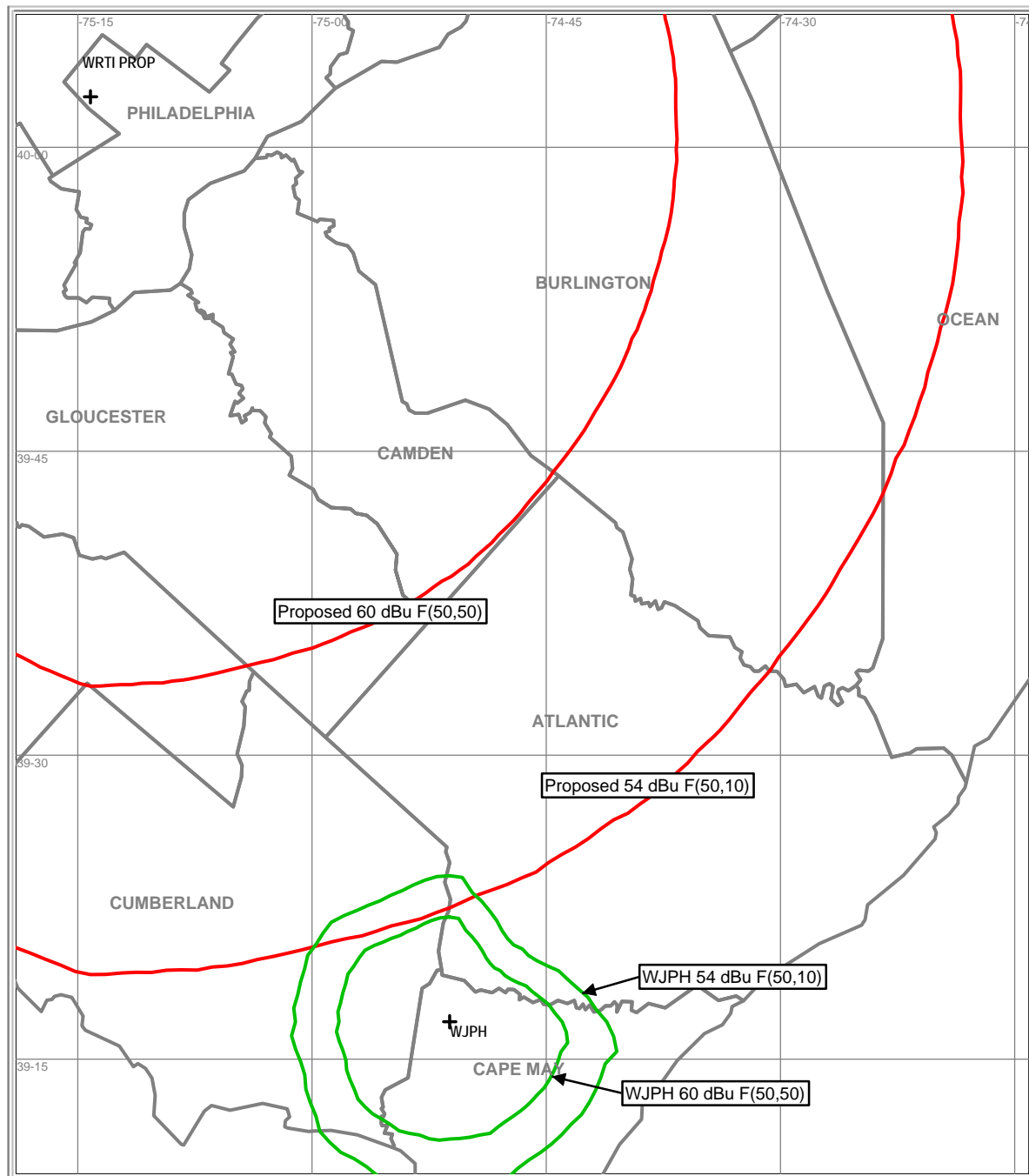
WXLV (Licensed) and WXLV (Construction Permit)



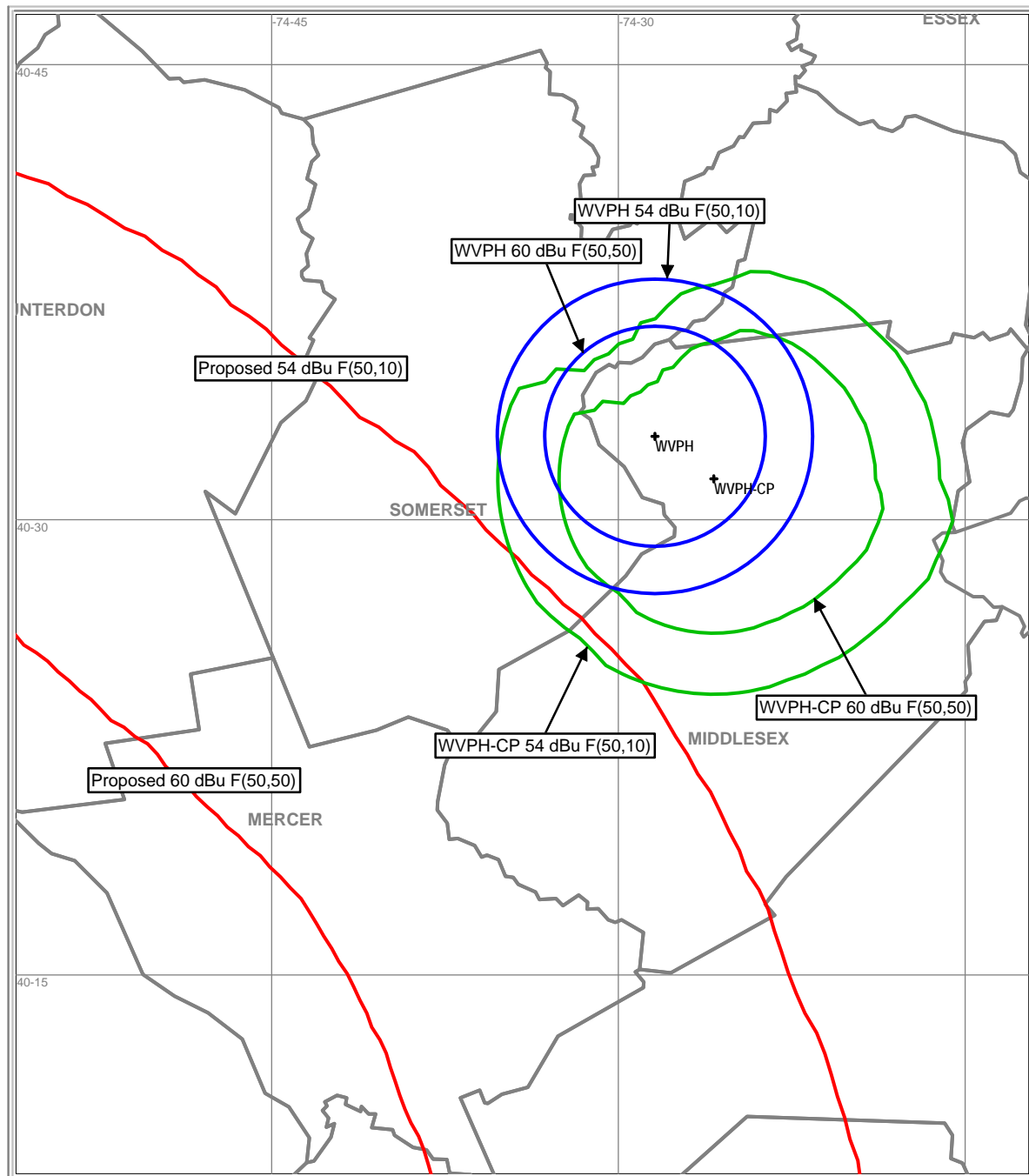
WXLV (Licensed) and WXLV (Construction Permit) - Magnified View



WJPH



WVPH



WNJM

