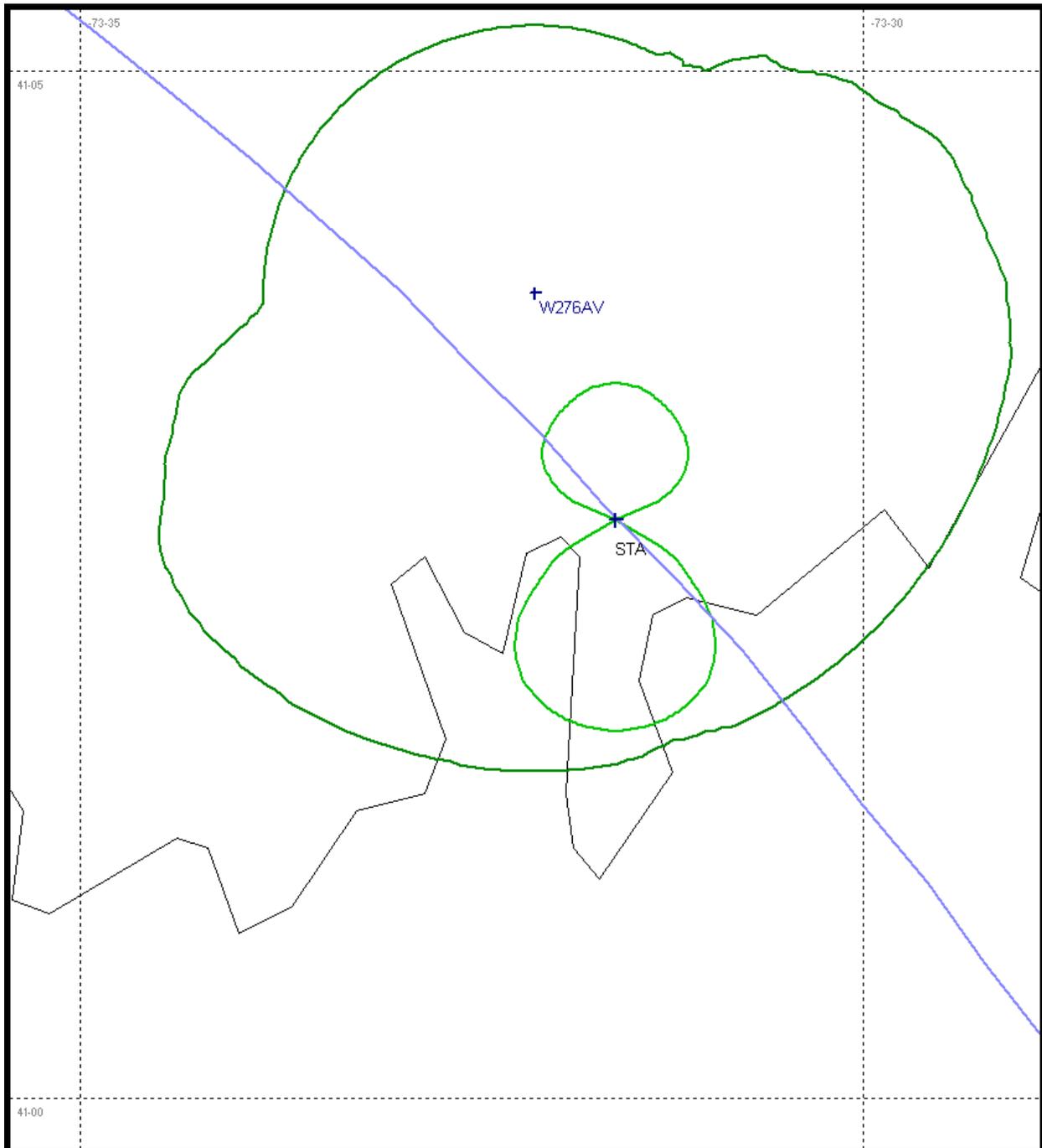


# W276AV Engineering STA Request

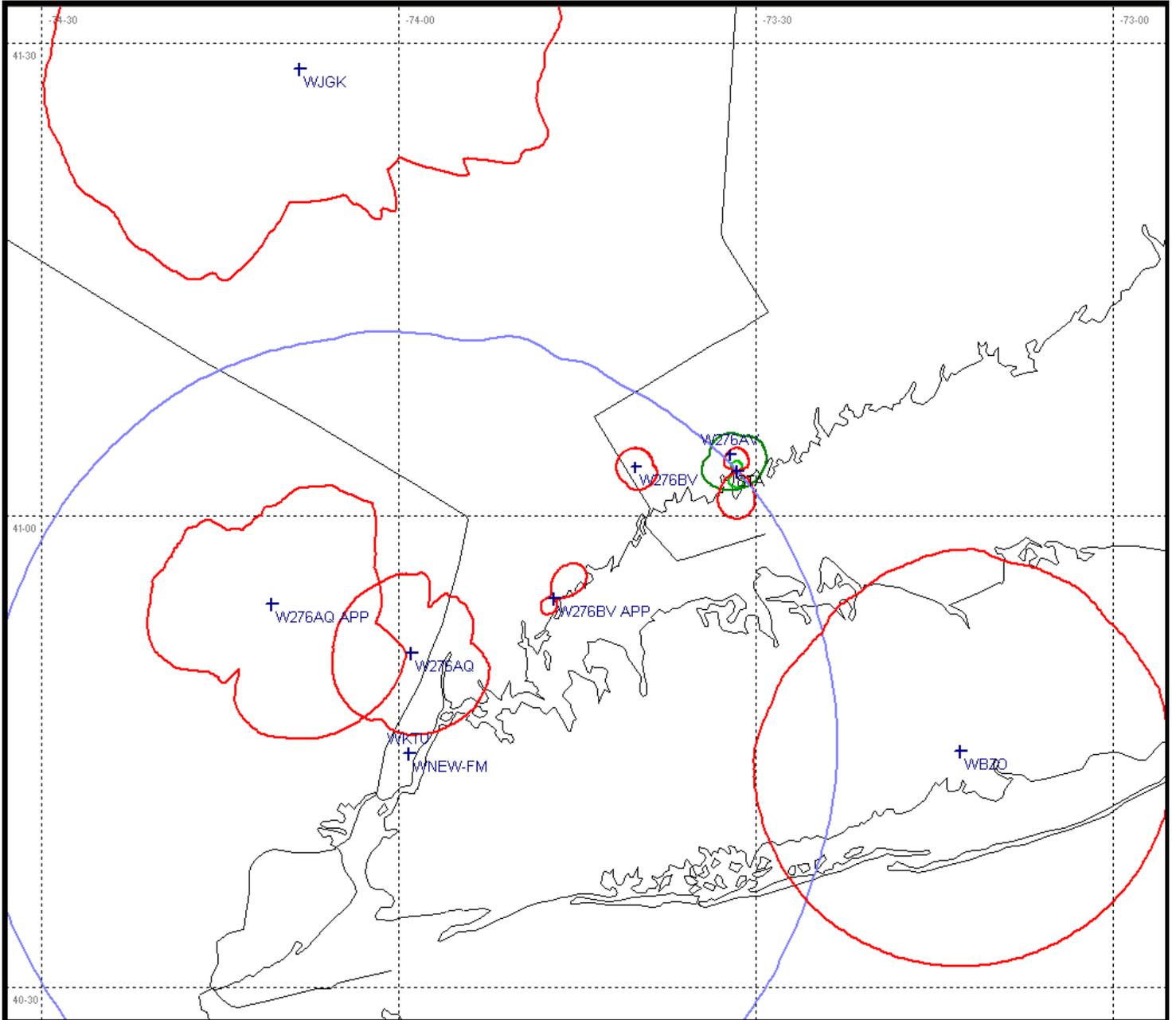
## Technical Statement

The applicant is dismantling its licensed facility pending construction of the facilities authorized in BPFT-20160111ABH. Special Temporary Authority is requested in order to continue operation from an existing mast on the roof of the transmitter building of primary station WSTC(AM), adjacent to the WSTC tower. No changes to the tower are proposed, and no changes are expected with the operation of WSTC.

The figure below illustrates that the proposed 60 dBu service contour lies entirely within that of the licensed W276AV facility.



As illustrated below the proposal creates no interference to any co-channel facility (red.)



Second adjacent stations WNEW-FM and WKTU in New York both place 60.8 dBu service contours over the proposed site (blue contour above.) The Commission has generally considered overlap from a proposed translator interfering contour to be acceptable where the ratio of undesired to desired signal (U/D) does not exceed 40 dB, i.e. where in the instant case the proposed translator STA F(50,10) interfering signal does not exceed 100.8 dBu over any residence or frequently traveled road.

Below are the distances to the proposed 100.8 dBu interfering contour.

<b>Azimuth (Degrees T)</b>	<b>Antenna Field</b>	<b>ERP (Watts)</b>	<b>Distance</b>	
			<b>(meters)</b>	<b>(feet)</b>
0	0.23	0.0543	15	49
30	0.16	0.0262	10	33
60	0.03	0.0009	2	7
90	0.01	0.0001	1	3
120	0.03	0.0009	2	7
150	0.59	0.3422	37	121
180	1.00	1.0000	64	210
210	0.59	0.3422	37	121
240	0.03	0.0009	2	7
270	0.01	0.0001	1	3
300	0.03	0.0009	2	7
330	0.16	0.0262	10	33

As shown in an aerial view, the interfering contour is limited to a storage area within a City of Stamford municipal highway maintenance facility. It does not extend to any residences or roadways.

