

COMPREHENSIVE TECHNICAL EXHIBIT

MINOR MODIFICATION OF W286DI (CP) TRANSLATOR ON CHANNEL 286 (105.1 MHZ)

0.25 KW DA (VERTICAL POLARIZATION)

CAMBRIDGE, NEW YORK

Prepared for Capital Media Corporation

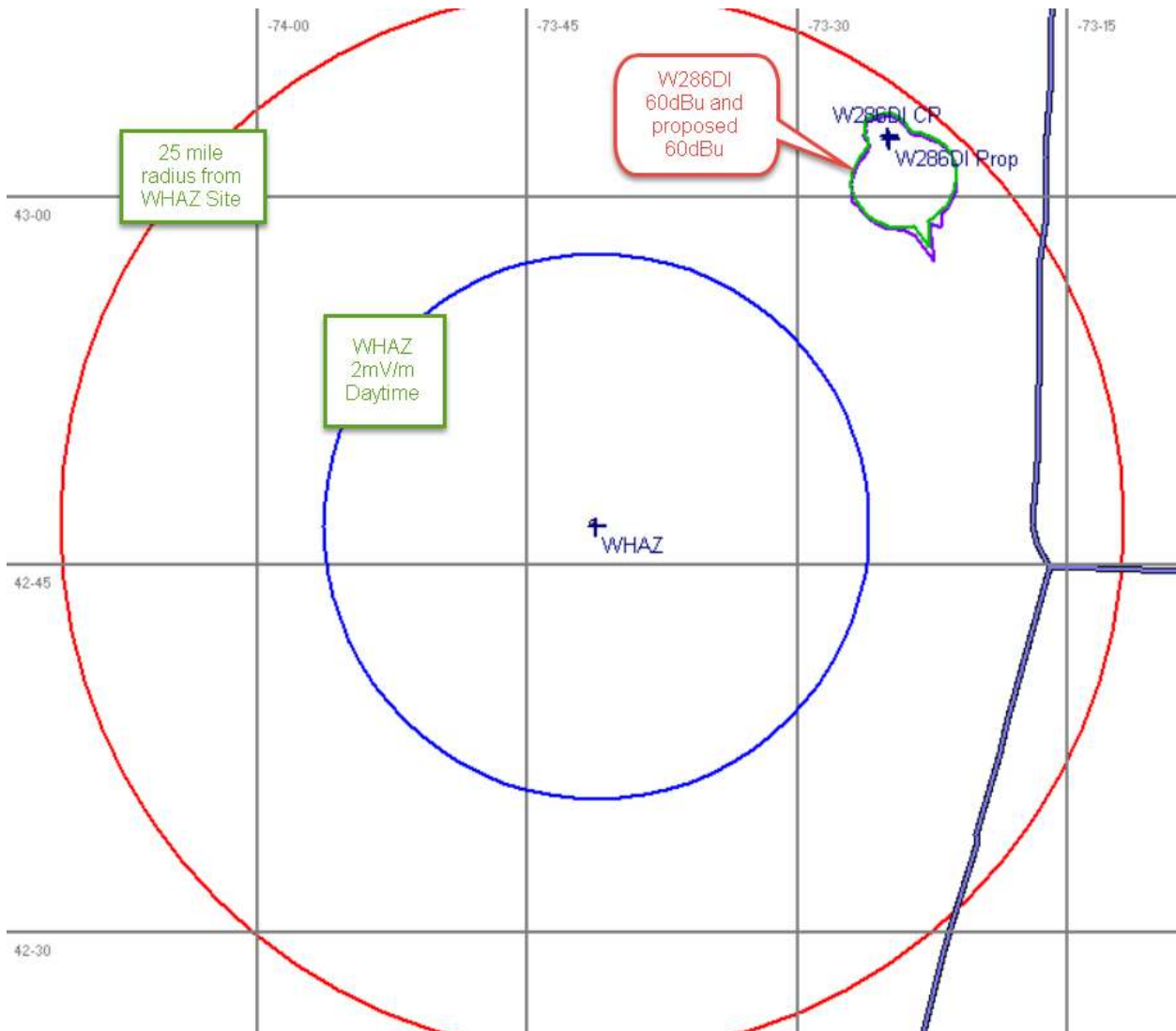
October 2020

Minor Modification of CP requested for W286DI FM

Licensee desires to move the authorized location for this translator 232 meters at a bearing of 176 degrees. This minor move is detailed below and results in no substantive issues regarding the authorized Construction Permit, other than the actual location of the transmitting site.

FM Translator Compliance


The entire 1 mV/m coverage contour is contained within a 25-mile radius centered at the commercial AM primary station's transmitter site (WHAZ).



Overlap Requirements Compliance

The proposed facility complies with 47 C.F.R. Section 74.1204.

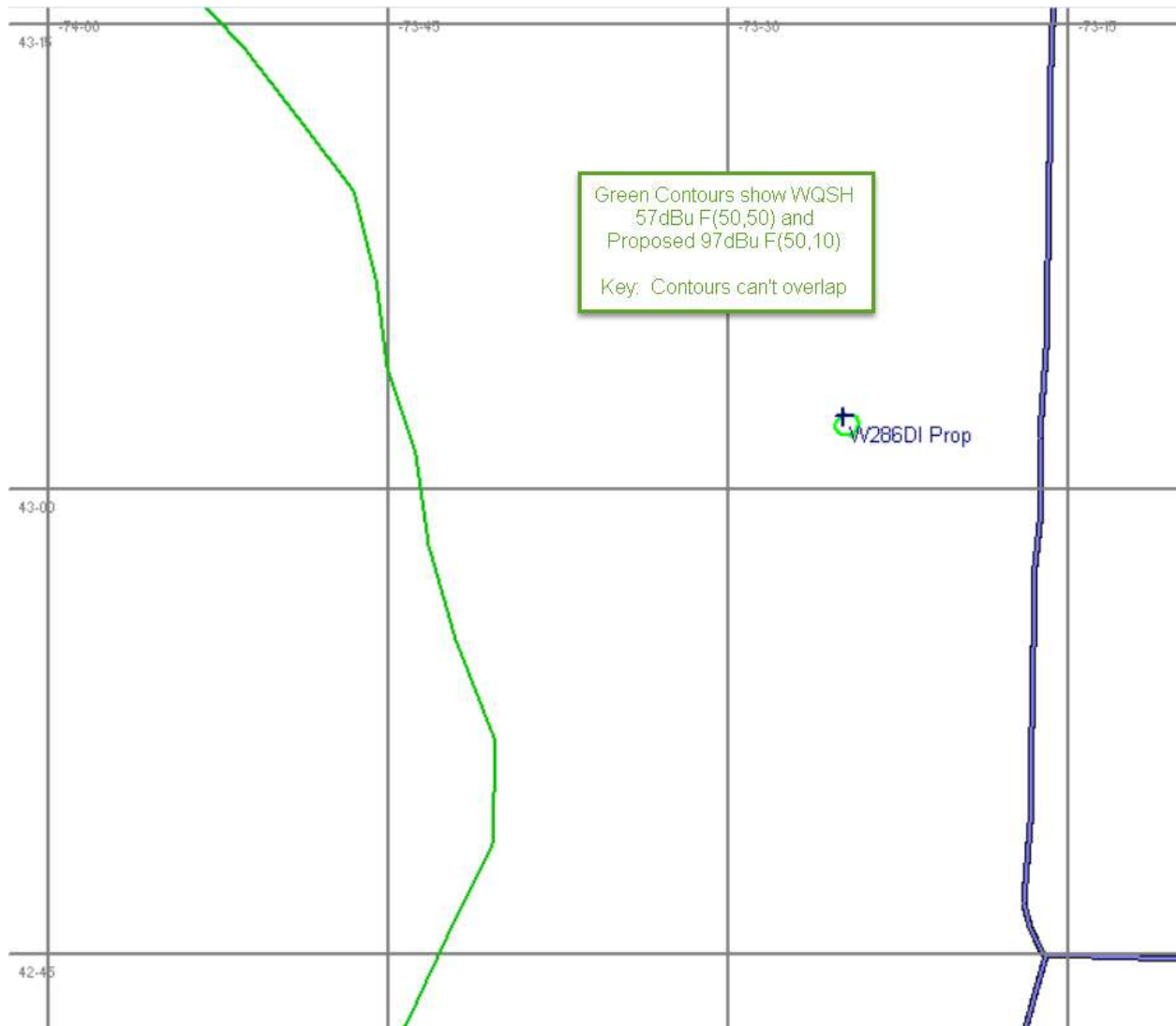
Allocation study results in these facilities for further analysis:

Clr 	Call Sign	ST	City	Freq.	Ch#	ERPower	Class	Status	D	Sep
-44.59 dB	W286DI	NY	CAMBRIDG	105.1	286	250.0	D	CP	0.23	0.00
-0.03 dB	WQBK-FM	NY	MALTA	105.7	289	7100.0	B1	LIC	33.09	0.00
5.64 dB	WTMM-FM	NY	MECHANIC	104.5	283	5000.0	A	LIC	40.62	0.00
11.49 dB	WJEN	VT	KILLINGTOI	105.3	287	1250.0	C2	LIC	81.55	0.00
12.84 dB	WINU	NY	ALTAMONT	104.9	285	530.0	A	LIC	65.50	0.00
12.0	WBTN-FM	VT	BENNINGT	94.3	232	3000.0	A	LIC	22.01	10.00
14.11 dB	W286CD	NY	GLOVERSV	105.1	286	250.0	D	LIC	76.39	0.00
14.34 dB	WAMQ	MA	GREAT BAF	105.1	286	730.0	A	LIC	97.82	0.00

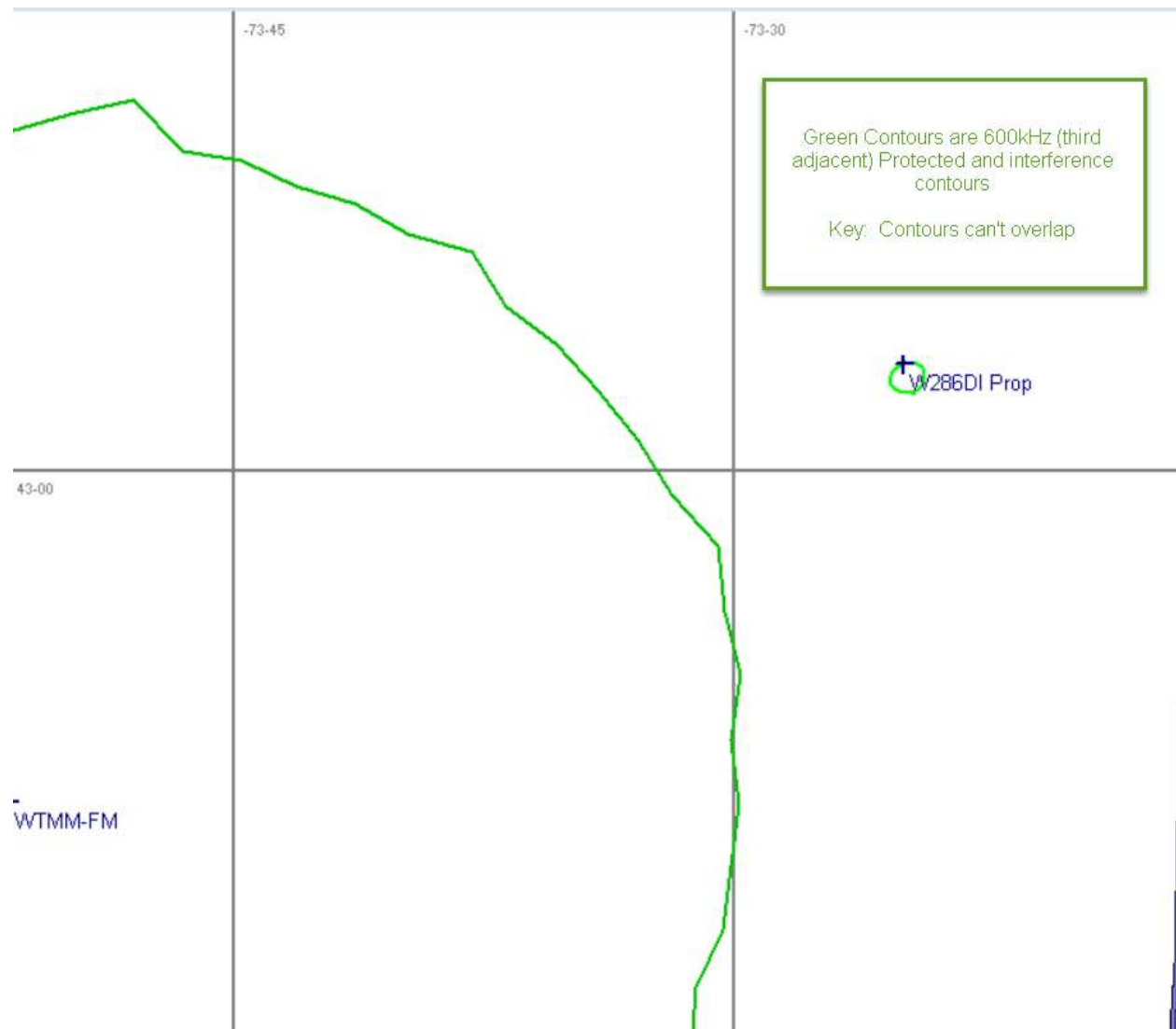
Co-channel and adjacent channel protection



400kHz (second adjacent) channel protection



600 kHz (third adjacent) channel protection



53 or 54 channel (IF) protection

The proposed operation meets the required separation distances set out in §73.207 as regards nearby FM broadcast stations that are 53 or 54 channels removed.

Environmental Protection Act Compliance

The proposed antenna will be mounted on a self supporting tower in a sparsely populated area. Applicant will cease operation, reduce power and take any action necessary in order to prevent uncontrolled or controlled exposure as outlined in OET-65.

Statement of Preparer

This exhibit has been prepared by Elliott (Chip) Morgan, whose qualifications are a matter of record in the Federal Communications Commission.



E. R. MORGAN

PRESIDENT

RADIO OPERATIONS INTERNATIONAL

OCTOBER 6, 2020