

# 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

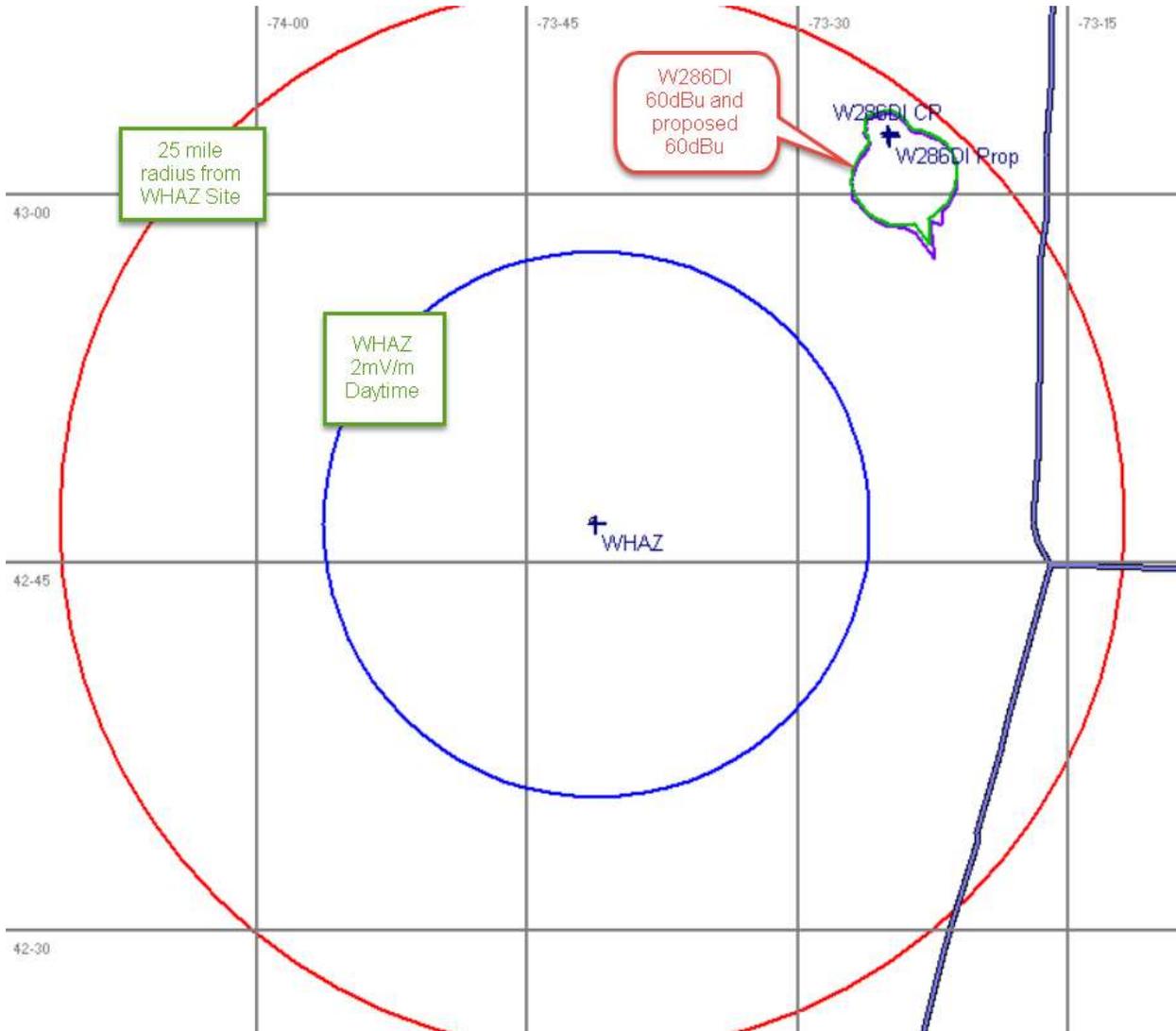
October 2020

## 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.

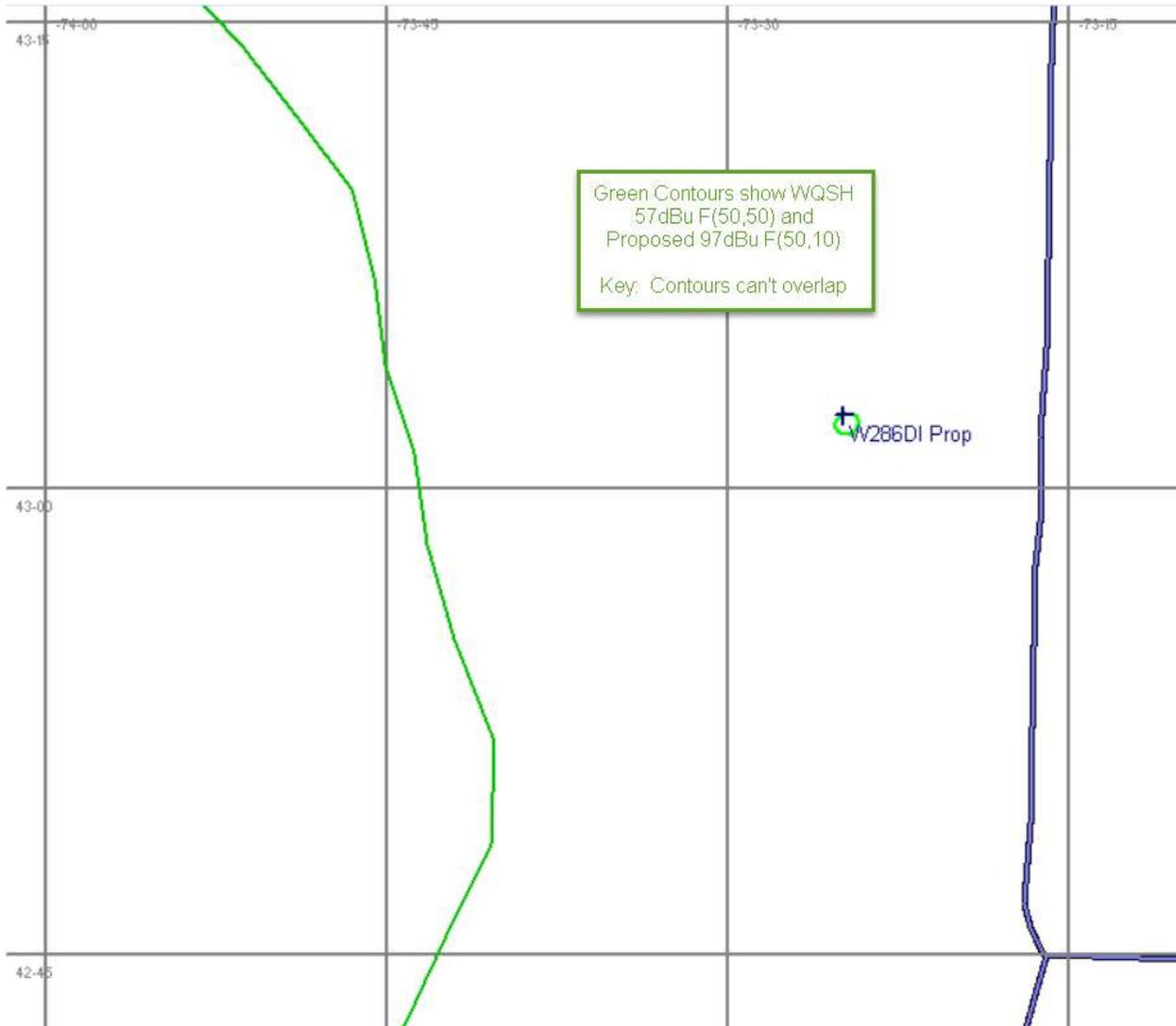
Allocation study results in these facilities for further analysis:

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

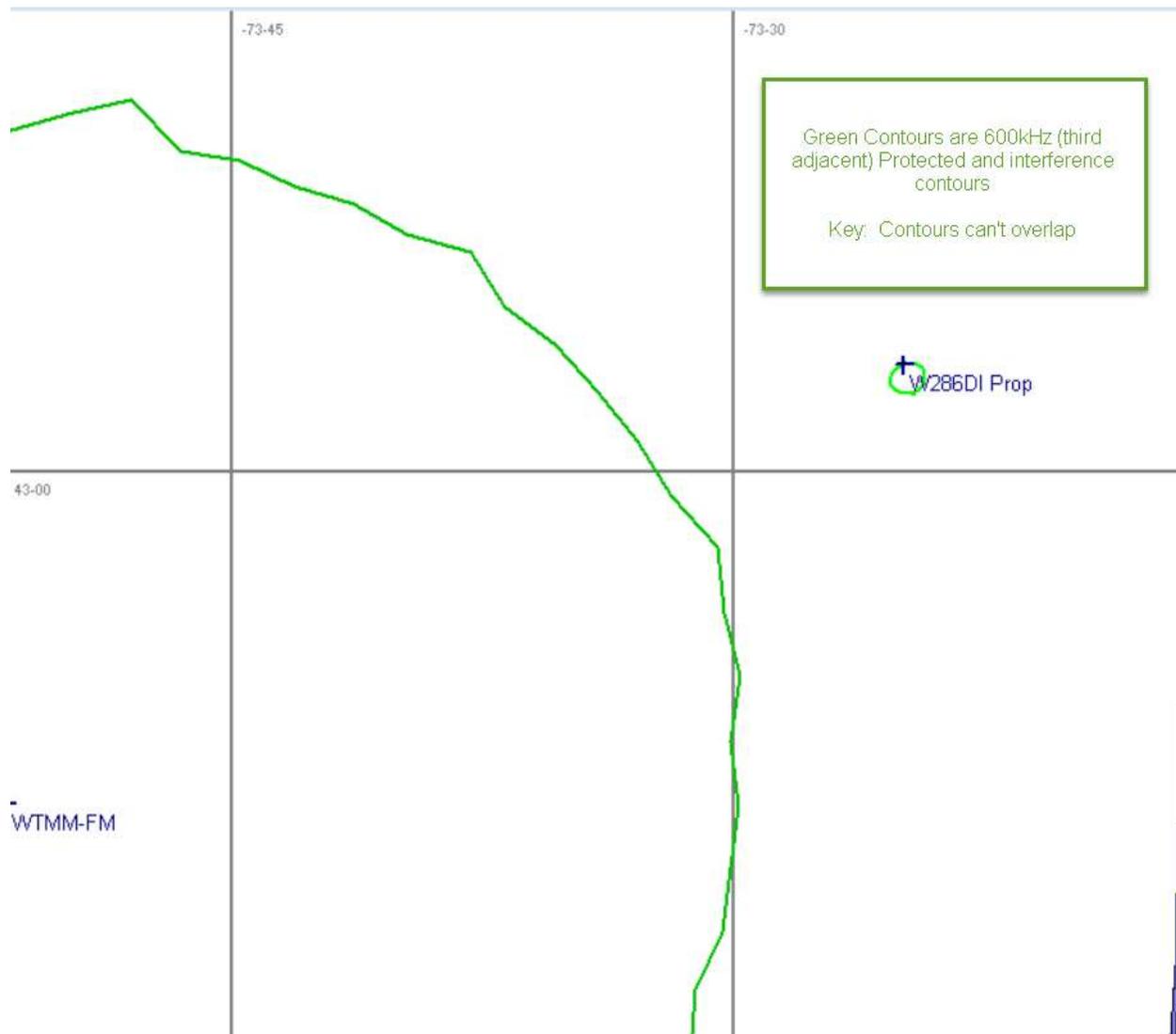
## Co-channel and adjacent channel protection



## 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