

Proposed Minor Modification to W297BT at Hartford, Connecticut

License File No. BLFT-20180522AAI • Facility ID 138550

Technical Statement

Summary

This application proposes a minor change to W297BT in order to more fully fill in the service contour of co-owned primary station WRYM(AM). The directional pattern will be modified with no change in antenna location or ERP. The proposed service contour (green) overlaps the licensed contour (thin green) and remains within 25 miles of WRYM(AM) (grey circle) as illustrated in Figures 1 and 2.

74.1204 Study

The following facilities were considered:

Call Sign	C	ST	City	Freq. ▼	ERP	Class	Status	Distance
WTIC-FM	0	CT	HARTFORD	96.5	20000.0	B	LIC	10.70
WCCC	0	CT	HARTFORD	106.9	23000.0	B	LIC	10.56
Proposed	4	CT	HARTFORD	107.3	99.0	D	APP	0.00
W297BT	2	CT	NEW BRITAIN	107.3	99.0	D	LIC	0.00
WKVB	1	MA	WESTBOROUGH	107.3	2100.0	A	LIC	119.56
WWMM-LP	1	CT	COLLINSVILLE	107.5	100.0	LP100	LIC	20.07
WFCS	1	CT	NEW BRITAIN	107.7	36.0	D	LIC	10.86
WACC-LP	1	CT	ENFIELD	107.7	100.0	LP100	LIC	24.20
WRYM	1	CT	NEW BRITAIN	840.0	1000.0	A	LIC	9.96

The proposed facility does not meet the minimum required IF requirement in 73.207 with respect to WTIC-FM. Therefore the proposed ERP remains at the licensed value of 99 Watts.

Figures 1 and 2 illustrate the absence of prohibited overlap between the proposed translator interfering contours and the pertinent service contours of all facilities except WCCC. (Key: same colors may not overlap.)

The antenna site lies within the service contour of WCCC, which places a 92.5 dBu service contour over the antenna site. The absence of interference to WCCC was established in BMPFT-20170130AAY and no increase in ERP is proposed. The applicant therefore believes its application meets the requirements of Section 74.1204(d) with respect to “other factors” insuring no actual interference to WCCC. Should any actual interference occur, the applicant will take the required steps to eliminate it.

Environmental Considerations

No physical changes are proposed other than modification of parasitic elements as necessary to implement the proposed modified antenna directional pattern.

RFR compliance was established in BMPFT-20180204AAO.

Exhibit 17 from that application addressing environmental issues is copied and pasted below:

THE PROPOSED ANTENNA WILL BE A SINGLE ELEMENT ERI 100A-1M-DA DIRECTIONAL WITH ITS CENTER OF RADIATION PLACED 4.1 METERS ABOVE THE BUILDING ROOFTOP. THE PROPOSED ERP IS LESS THAN 100 WATTS AND THE ROOFTOP OF THE BUILDING NEAR THE ANTENNA IS A CONTROLLED EXPOSURE AREA AS DEFINED BY EPA RULES. ACCESS TO THE ANTENNA WILL BE RESTRICTED WITH APPROPRIATE WARNING SIGNAGE. FURTHERMORE, USING THE FCC MODEL ONLINE SOFTWARE THE MAXIMUM POWER DENSITY FROM THE ANTENNA WITHIN 2 METERS OF THE ROOFTOP OCCURS 0.6 METERS AWAY FROM THE SUPPORT BASE AT A LEVEL OF 752.06 MICROWATTS/CM SQUARED. THIS IS 0.4% OF THE MAXIMUM PERMISSIBLE EXPOSURE LEVEL FOR UNCONTROLLED PUBLIC ENVIRONMENTS. THEREFORE, THE PROPOSED FACILITY IS EXCLUDED FROM ENVIRONMENTAL PROCESSING UNDER 47. C.F.R. SECTION 1.1306

The applicant will cease operation or reduce power as necessary, in order to prevent uncontrolled or controlled exposure in excess of the guidelines of OET-65.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Dennis Jackson', with a stylized flourish at the end.

Dennis Jackson
Technical Consultant
April 11, 2023

Figure 1 - 74.1204 Study

Proposed interfering contours do not overlap service contours of any other facility except for WCCC (blue).

Proposed Service Contour (green) lies within 25 miles of WRYM(AM) (grey circle) and overlaps licensed Service Contour (thin green)

(Key: Same colors may not overlap.)

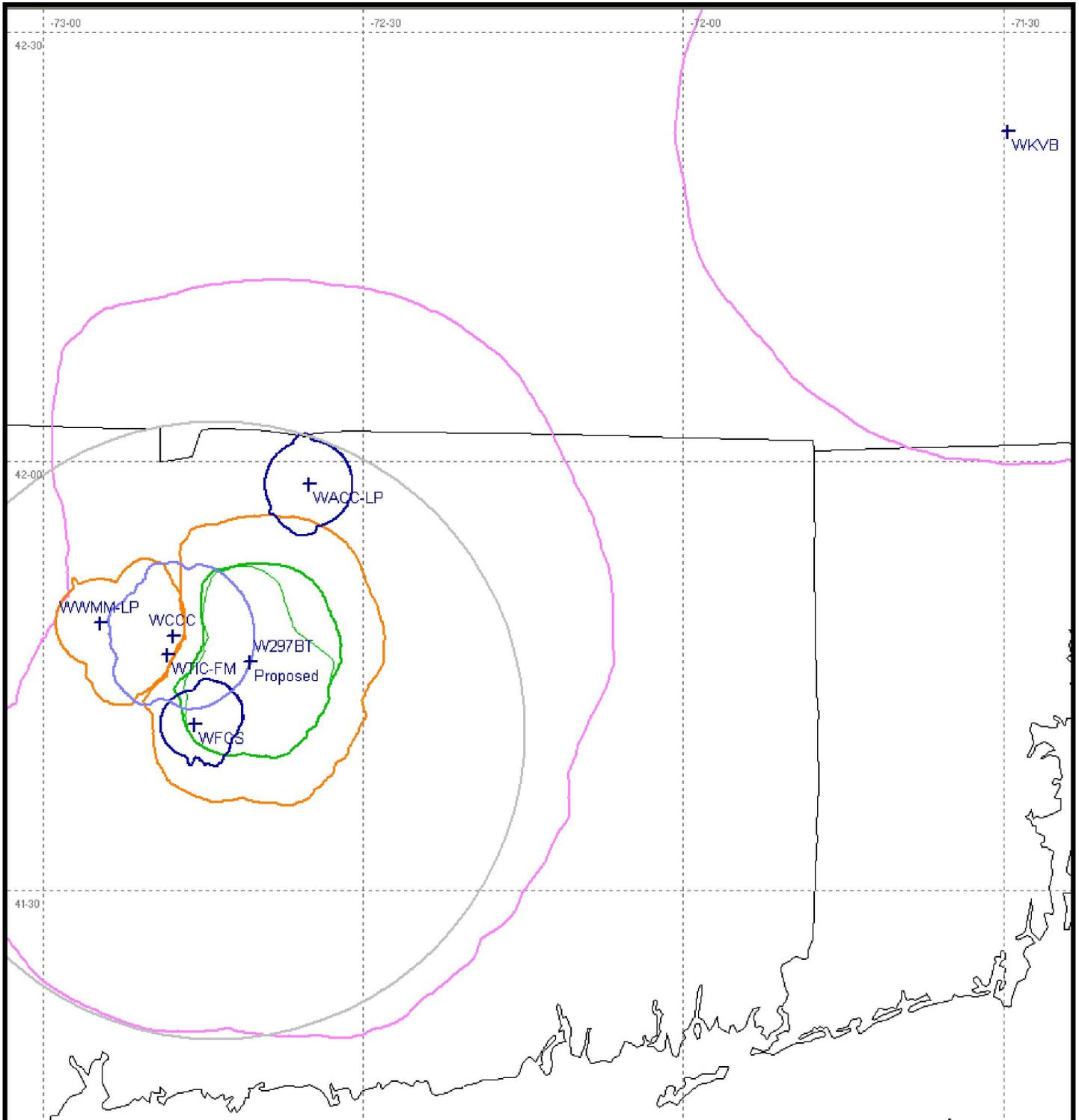


Figure 2 - 74.1204 Closeup Study to WWMM-LP (orange) and WCCC

**WCCC places a 92.5 dBu service contour over the site (blue).
(Key: Same colors may not overlap.)**

