

**ENGINEERING STATEMENT
GUENTER MARKSTEINER
MINOR MODIFICATION OF CONSTRUCTION PERMIT
FCC FILE NUMBER 0000153397
WHDT-LD, BOSTON, MA
CP: CH 4, 3 KW, NON-DIRECTIONAL, 273.8 m AMSL
PROPOSED: CH 4, 3 KW, NON-DIRECTIONAL, 200.3 m AMSL**

This statement supports an application by Guenter Marksteiner, licensee of WHDT-LD, to make a minor change in its granted construction permit, FCC File Number 0000153397.

Due to various issues that have recently arisen at the site identified in its construction permit, the Applicant is faced with having to relocate to another building nearby which can support the antenna and provide room for the transmitter. Another suitable location has been found.

This application modifies the parameters to the construction permit reflecting the location and heights at the relocation site. The proposed location is 1.4 miles away from the current construction permit site for WHDT-LD. The proposed relocation is well within the 30 mile limit regarding relocation of a low-power station and has ample contour overlap to both the licensed and construction permit facilities.

An interference analysis was performed pursuant to the parameters used by the Commission for application interference processing. The results of the analysis shows that the proposed operation for relocated WHDT-LD is not predicted to cause interference in excess of that allowed by the rules. The analysis was performed using the methodology stated in OET-69 using the same software (TVStudy v2.2.5) utilized by the Commission and, therefore, should yield similar results. The results of the study performed are attached to this statement.

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WHDT Mod 3KW, Model: Longley-Rice
Start: 2023.05.17 09:36:58

Study created: 2023.05.17 09:36:58

Study build station data: LMS TV 2023-05-17

Proposal: WHDT-LD D4 LD APP BOSTON, MA
File number: WHDT Mod 3KW
Facility ID: 59488
Station data: User record
Record ID: 906
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WORK-LP	D3	LD	CP	NASHUA, NH	BDISDVL20101223ABN	94.2 km
No	W04BS-D	D4	LD	LIC	BETHEL, ME	BLDTV20091118AGJ	231.2
No	WGCI-LD	D4	LD	LIC	SKOWHEGAN, ME	BLDVL20101029AAA	282.9
No	WACP	D4	DT	LIC	ATLANTIC CITY, NJ	BLANK0000093491	430.6
No	WPXO-LD	D4	LD	LIC	EAST ORANGE, NJ	BLANK0000029573	316.3
No	WPXO-LD	D4	LD	CP	EAST ORANGE, NJ	BLANK0000214703	316.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D4
Mask: Full Service
Latitude: 42 21 31.00 N (NAD83)
Longitude: 71 3 39.00 W
Height AMSL: 200.3 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	178.3 m	58.4 km
45.0	3.00	198.0	59.8
90.0	3.00	199.4	60.0
135.0	3.00	198.5	59.9
180.0	3.00	169.6	57.7
225.0	3.00	162.6	57.0
270.0	3.00	189.5	59.2
315.0	3.00	164.6	57.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 183 m

Proposal 13.00 dBu contour does not cross Canadian border
Distance to Canadian border: 297.2 km

Distance to Mexican border: 2975.0 km

Conditions at FCC monitoring station: Belfast ME
Bearing: 33.9 degrees Distance: 281.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 276.7 degrees Distance: 2846.0 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHDT-LD	D4	LD	APP	BOSTON, MA	WHDT Mod 3KW	
Undesireds:	WORK-LP	D3	LD	CP	NASHUA, NH	BDISDVL20101223ABN	94.2 km
	WPXO-LD	D4	LD	LIC	EAST ORANGE, NJ	BLANK0000029573	316.3
	Service area			Terrain-limited		IX-free	Percent IX
	10823.9 4,774,845	10672.3		4,722,379	10664.3	4,720,469	0.08 0.04
Undesired				Total IX		Unique IX	Prcnt Unique IX
WORK-LP D3 LD CP		8.0		1,910	8.0	1,910	0.08 0.04