

Non-Interference Compliance Study

Piedmont Communications, Inc.

W288ED (Facility ID: 148345)

This exhibit demonstrates compliance with all contour overlap and interference protection requirements and demonstrates full compliance with 47 C.F.R. §74.1204.

Applicant certifies that should any actual interference occur it will promptly cease operation in accordance with 47 C.F.R. §74.1203.

This study uses the NED 3 second terrain dataset.

Below is a listing of area stations whose contours are less than 25 km clear of the proposed translator on channel 241.

Callsign	State	City	Channel	ERP (kW)	Class	Status	Distance (km)	Clr (km)
W288ED*	VA	Charlottesville	288	0.250	D	LIC	0	-45.57
WCNR	VA	Keswick	291	0.6	A	LIC	0.4	-27.72
W285EF	VA	Charlottesville	285	0.05	D	CP	0.27	-1.24
W285EF	VA	Charlottesville	285	0.046	D	LIC	5.25	-0.98
WOJL	VA	Louisa	288	6	A	LIC	41.2	0.08
WMXH-FM	VA	Luray	289	0.15	A	LIC	69.67	6.18
WEQF-FM	VA	Dillwyn	287	6	A	LIC	46.31	10.71

*Application being modified per this instant application

The only stations that are of concern are WCNR and W285EF. WCNR is a third adjacent Class A that requires that a minimum of 40 dB separation exist between its service contour and W288ED's interference contour. W285EF is a third adjacent Class D that requires that a minimum of 40 dB separation exist between its service contour and W288ED's interference contour. The following pages demonstrate that W288ED is in compliance with these requirements.

Compliance with 47 C.F.R. §74.1204(d)

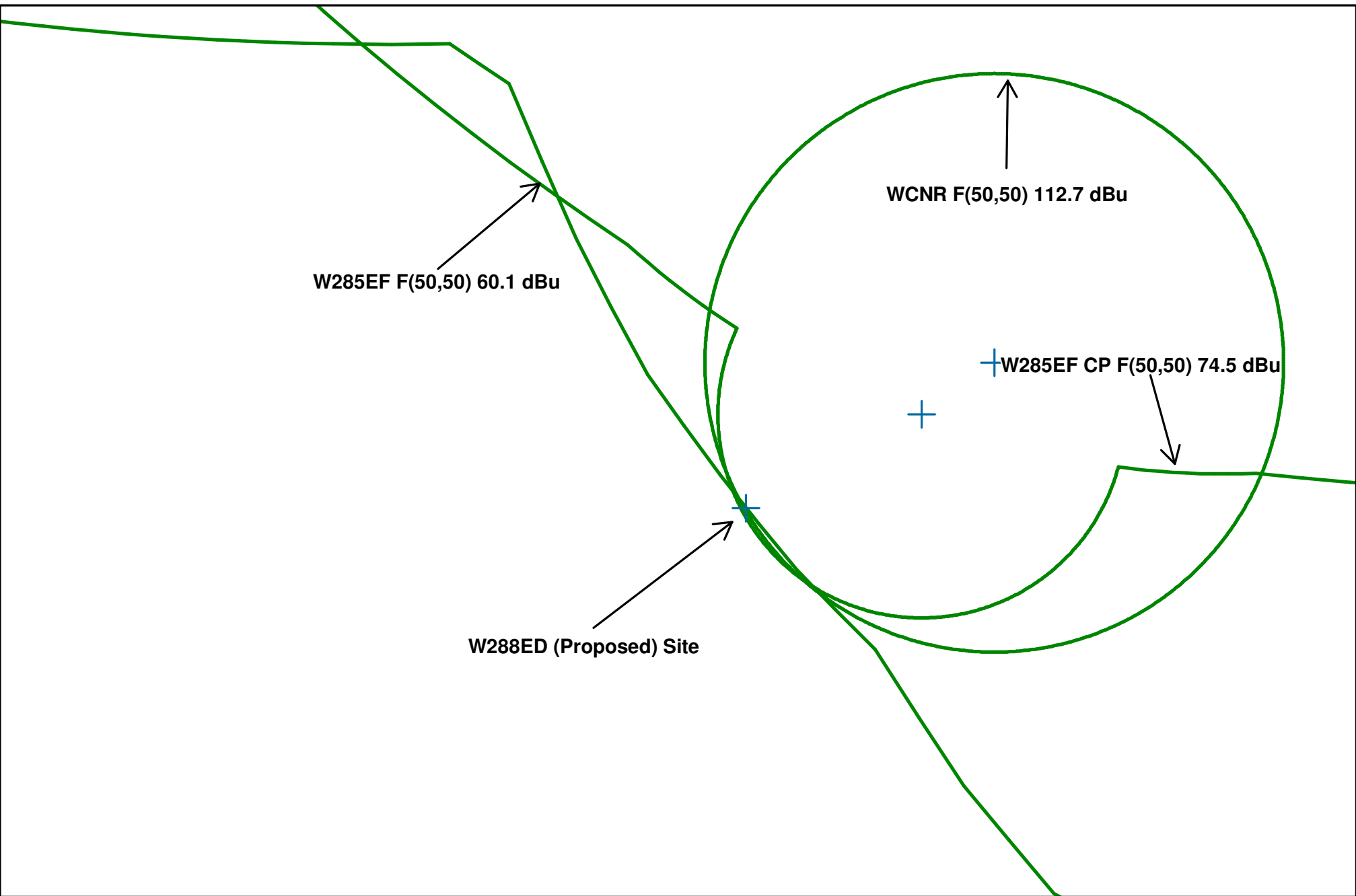
All authorized second/third adjacent stations with which the proposed translator's contour overlaps their service contour are listed below. The table lists the minimum signal level of the primary station's service contour that reaches the proposed tower site for W288ED.

Facility ID	Call Sign	Contour at Tower F(50,50)
52394	WCNR	112.7 dBu
81122	W285EF	60.1
81122	W285EF(CP)	74.5

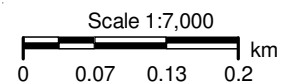
Minimum protected contour signal level at W288ED's proposed tower site: **60.1 dBu**

This study will use the minimum contour of 60.1 dBu to represent a worst-case potential interference level. At 40 dB above 60.1 dBu, the translator interference contour is 100.1 dBu. Calculation of distance at this power and signal level requires the use of the free-space calculation due to the distance being less than 1.5 km.

At 100.1 dBu and 250 watts, the interference contour extends to 1.1 km from the tower site. There are no houses or businesses within this contour.



Protected Signal Levels at Proposed Tower Site



W288ED Interference Area

W285EF 60.1 dBu Contour

W288ED 100.1 dBu Contour

W288ED (Proposed)

Google Earth

700 m

