

Proposed New Channel 229 FM Translator at West Palm Beach, FL

Facility ID 201437

Long Form Technical Statement

74.1204 Study

The following facilities were studied:

Call Sign	C	ST	City	FR. ▼	ERP	Class	STAT	D
WFEZ	1	FL	MIAMI	93.1	98000.0	C0	LIC	93.18
W227BT	1	FL	PORT ST. LUCIE	93.3	13.0	D	LIC	62.70
W227CX	1	FL	NORTH PALM BEACH	93.3	132.0	D	LIC	0.00
WBGF CP	1	FL	BELLE GLADE	93.5	15500.0	C3	CP	58.46
WBGF LIC	1	FL	BELLE GLADE	93.5	15500.0	C3	LIC	66.11
Proposed	6	FL	WEST PALM BEACH	93.7	250.0	D	APP	0.00
WGYL	1	FL	VERO BEACH	93.7	50000.0	C2	LIC	94.19
WMIA-FM	1	FL	MIAMI BEACH	93.9	98000.0	C0	LIC	93.18
WZZR	1	FL	RIVIERA BEACH	94.3	50000.0	C2	LIC	4.21
WJBW(AM)	6	FL	JUPITER	1000.0	650.0	A	LIC	15.96

The proposed service contour (green) is contained within a 25 mile radius of primary station WJBW(AM) (grey) as shown in Figure 1.

Figure 1 also illustrates the absence of prohibited overlap between the proposed translator interfering contours and the pertinent service of each of these facilities, except for W227CX and WZZR. (Key: same colors may not overlap.) Therefore, the applicant respectfully requests a waiver pursuant to 74.1204(d) as described below.

The proposed facility is co-located with W227CX so interference should not occur. WZZR places a 102 dBu service contour over the proposed site (blue in Figure 1.) The Commission has generally considered overlap from a proposed translator interfering contour to be acceptable where the ratio of undesired to desired signal (U/D) does not exceed 40 dB i.e. where in this case the proposed translator F(50,10) interfering signal does not exceed 142 dBu

The proposed translator facility will operate with an ERP of 0.25 kW. For an ERP of 0.25 kW, the distance to the 142 dBu F(50,10) contour in free space is 9 meters.

The applicant therefore believes its application meets the requirements of Section 74.1204(d) with respect to “other factors” insuring no actual interference to W227CX or WZZR. Should any actual interference occur, the applicant will take the required steps to eliminate it.

Environmental Considerations

No physical changes are proposed. RFR compliance was determined through the use of the RF worksheets in Appendix A. 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 'D. Jackson', with a stylized flourish at the end.

Dennis Jackson
Technical Consultant
March 27, 2018

Figure 1 - 74.1204 Study and Fill-In Status

**Second adjacent W227CX is co-located with the proposed facility, and
Third adjacent WZZR places a 102 dBu service contour over site (blue.)**

No other overlap is created. (Key: Same colors may not overlap.)

**Proposed service contour (green) does not exceed 25 miles (gray circle)
from primary AM site.**

