

Minor CP Amendment to W229DG at West Palm Beach, FL

Facility ID 201437

Technical Statement

Overview:

This application proposes a lowering of antenna height and a change of antenna type. No other changes are proposed.

74.1204 Study

The following facilities were studied. Please see Figures 1, 2, and 3.

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	23500.0	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 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 'Dennis Jackson', with a stylized flourish at the end.

Dennis Jackson
Technical Consultant
May 13, 2020

Figure 1 - 74.1204 Study and Fill-In Status

Proposed contour (green) overlaps authorized contour (thin green.)
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.

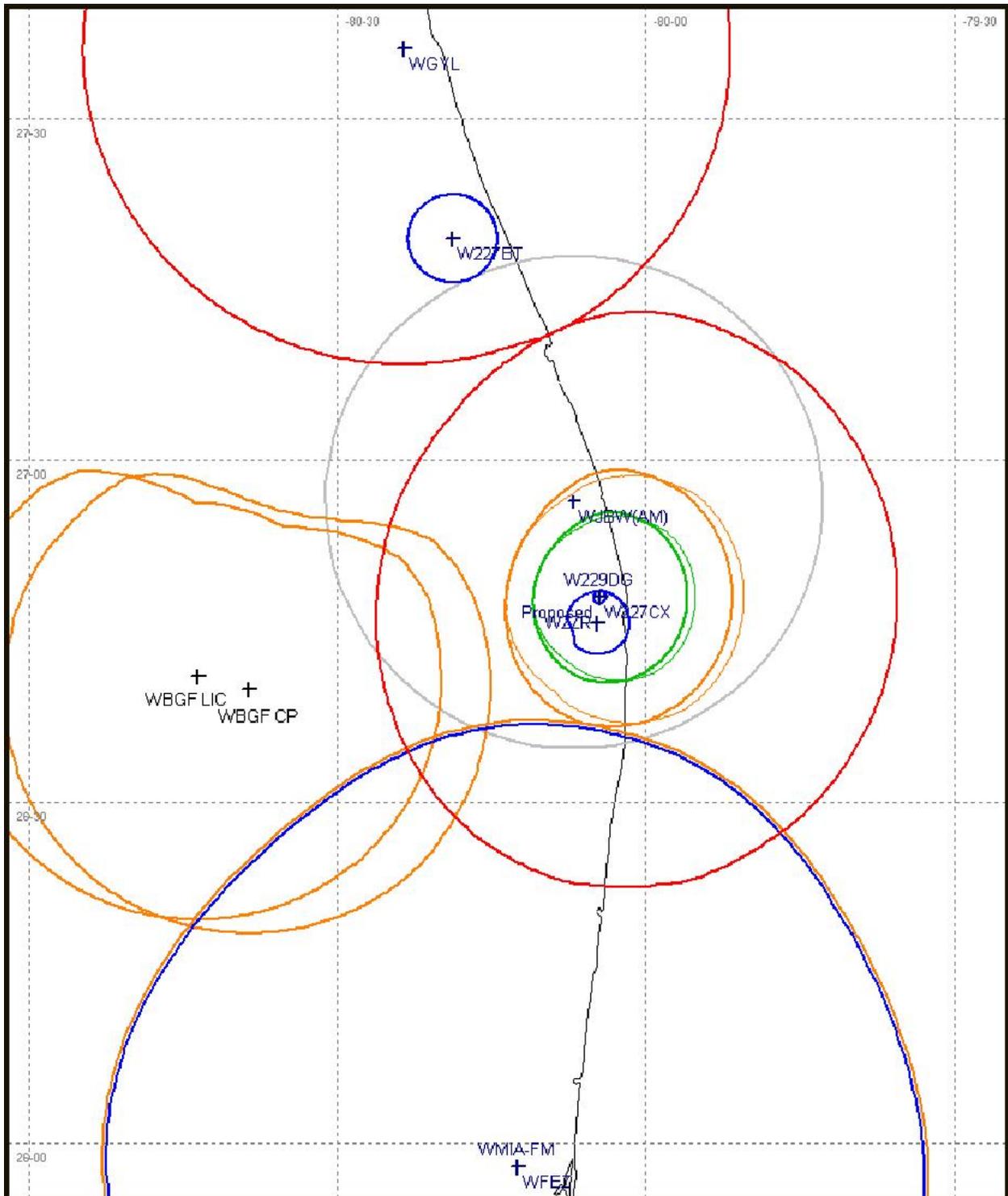


Figure 1 - 74.1204 Study

Closeup to WGYL. No overlap occurs over land.

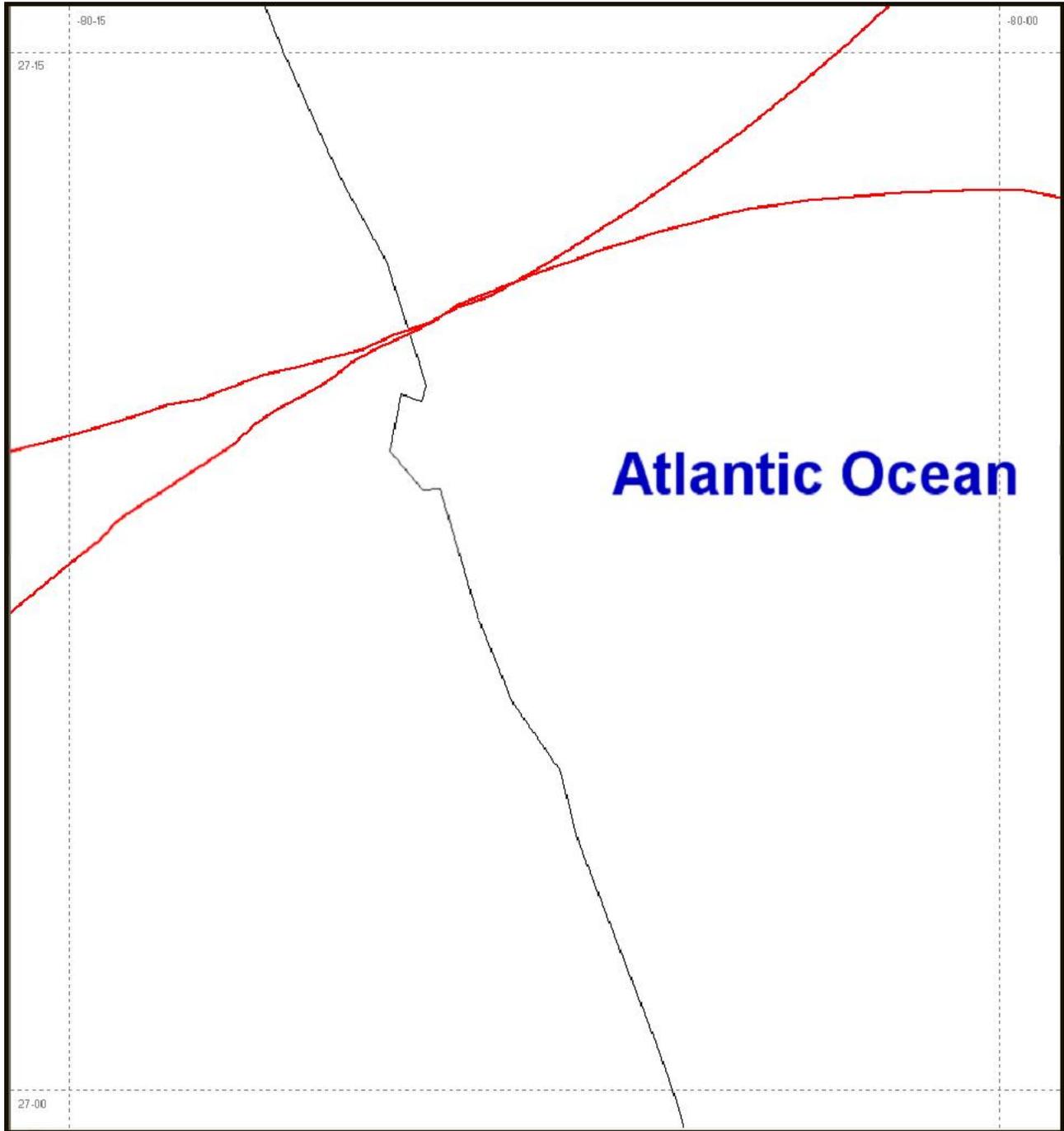


Figure 3 - 74.1204 Study

Closeup to WMIA (and WFEZ.) No overlap occurs.

