

Proposed Site Change for W291CC at Sanford, Maine

Technical Statement

Allowed Move and Fill-In Status

The 60 dBu service contour of the proposed amended facility overlaps that of the presently authorized facility (File No. BPFT-20110307AAT and BLFT-20110509ACF), and the proposed 60 dBu fill-in service contour lies entirely within the service contour of proposed Class B primary station WXRV, as illustrated in Figures 1 and 1A (closeup.) Contour distances were calculated in 1 degree increments.

74.1204 Study

All facilities not meeting the spacing requirements of Section 73.207 with respect to the proposed facility considered as a Class A were studied. These are:

<u>Call Sign</u>	<u>Location</u>	<u>Channel No.</u>	<u>F(50,50) Protected Contour</u>	<u>F(50,10) Max Interfering</u>
WROR-FM	Framingham, MA	289B	54 dBu	94 dBu
WHDQ	Claremont, NH	291B	54 dBu	48 dBu
WSCA-LP	Portsmouth, NH	291LP100	60 dBu	54 dBu
WFNQ	Nashua, NH	292A	60 dBu	40 dBu
WNHI	Farmington, NH	293A	60 dBu	54 dBu
WMJX	Boston, MA	294B	54 dBu	94 dBu

A composite array of two Scala CA-2 horizontally polarized antennas driven with equal power and oriented at 137 degrees and 335 degrees respectively will be employed to achieve a directional pattern that avoids prohibited overlap, as illustrated in Figures 2 and 2A (Closeup vs WROR-FM and WMJX) below depicting the proposed translator interfering contours and the pertinent service contours of WROR-FM, WHDQ, WSCA-LP, WFNQ, WNHI, and WMJX. Same color may not overlap.

Environmental Considerations

Compliance with RFR limits was determined by use of the Commission's RF Worksheet #1. RFR exposure will be 11.6% of 200 uW/cm2 MPE limit for uncontrolled exposure to the general public. 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 Appendix A.

Respectfully submitted,



Dennis Jackson
Technical Consultant
May 11, 2011

Figure 1 - Proposed new 60 dBu service contour overlaps that of existing permit and does not exceed the 54 dBu service contour of Class B primary station WXRV.

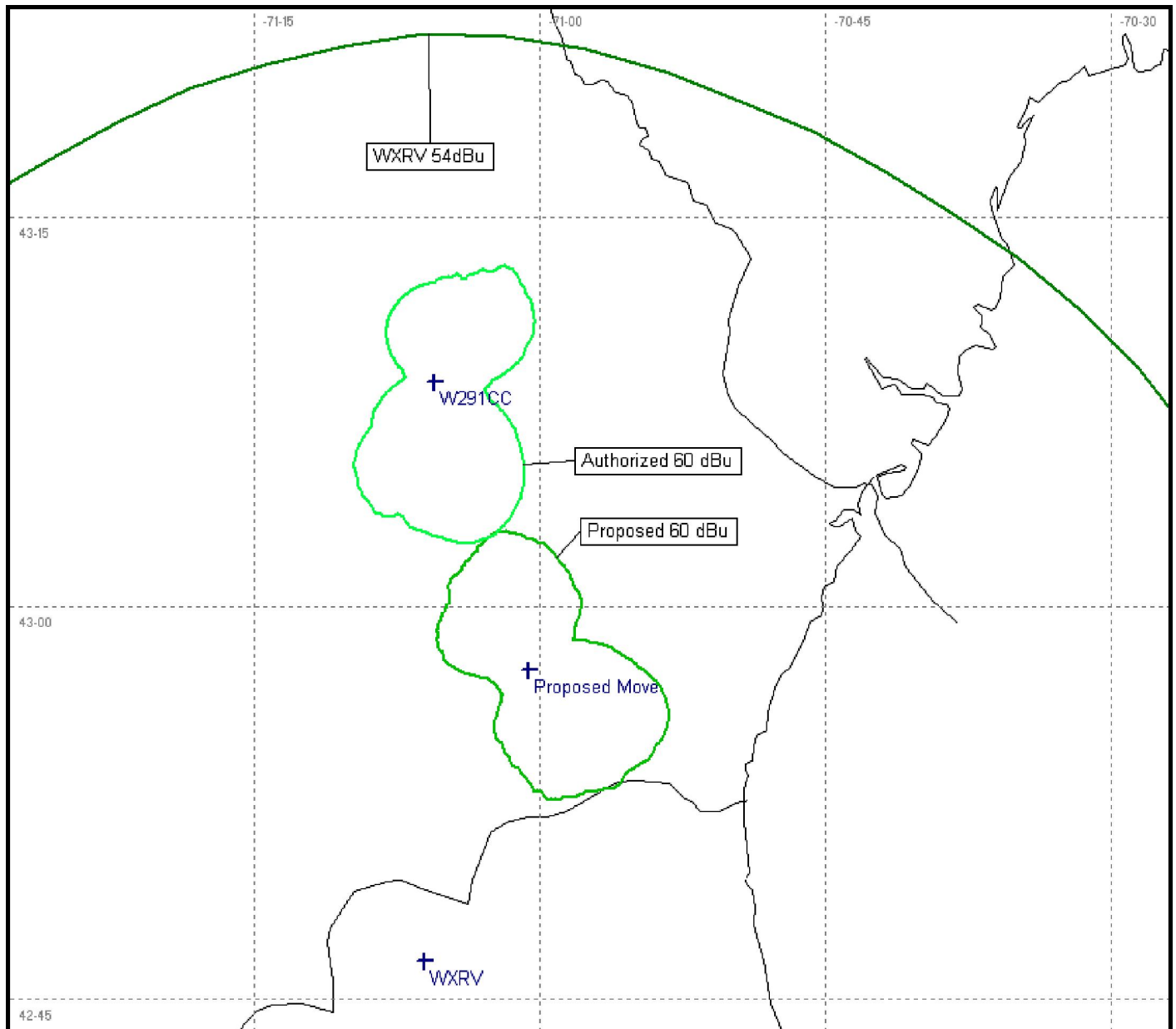
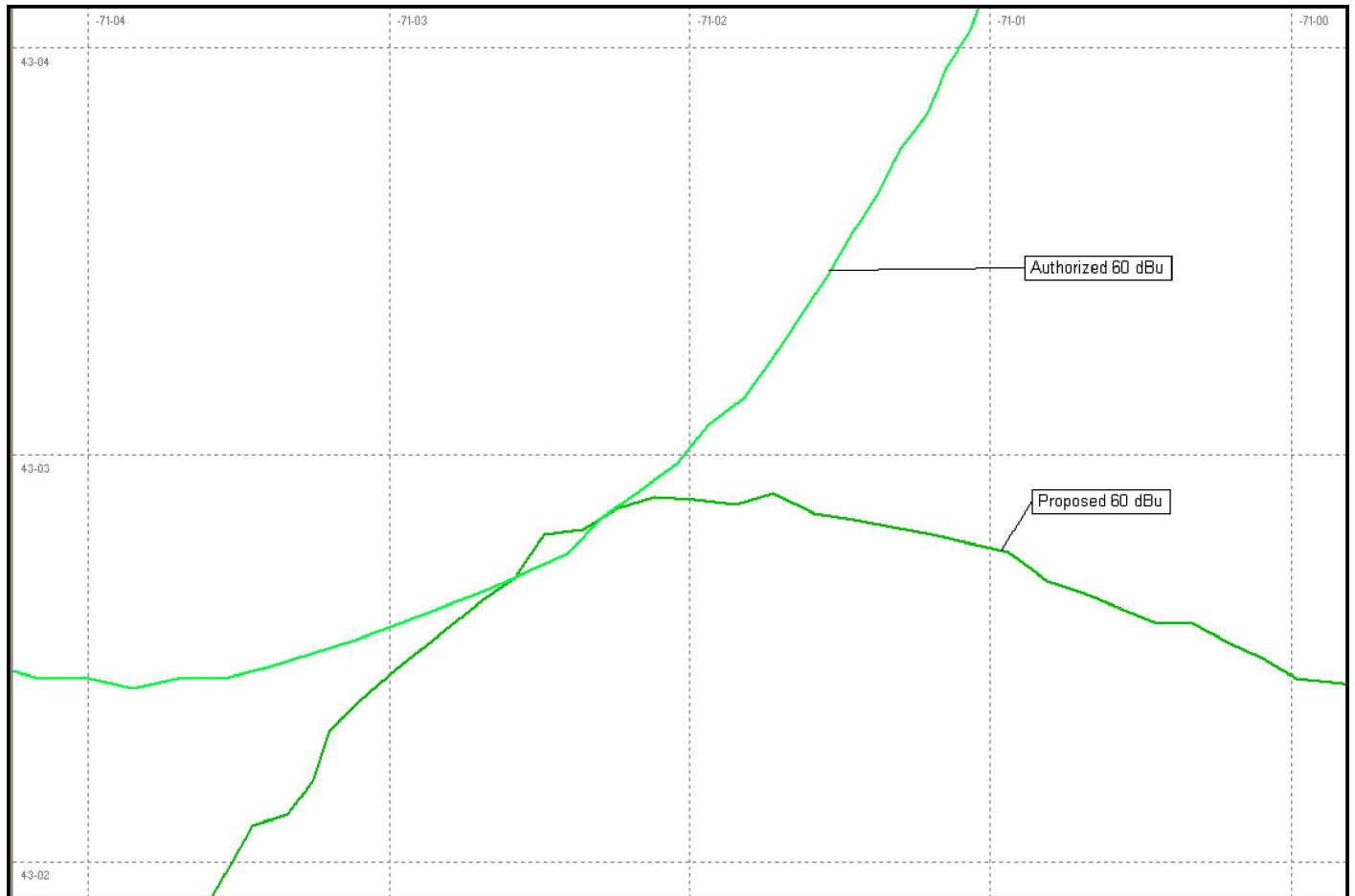


Figure 1A – Closeup detail of authorized and proposed service contours.
(Contour distances were calculated at 1 degree intervals.)



**Figure 2 - Proposed interfering contour does not overlap service contours
of WROR-FM, WMJX, or WHDQ (54 dBu),
or WSCA-LP, WFNQ, or WNHI (60 dBu.)**

Same colors may not overlap.

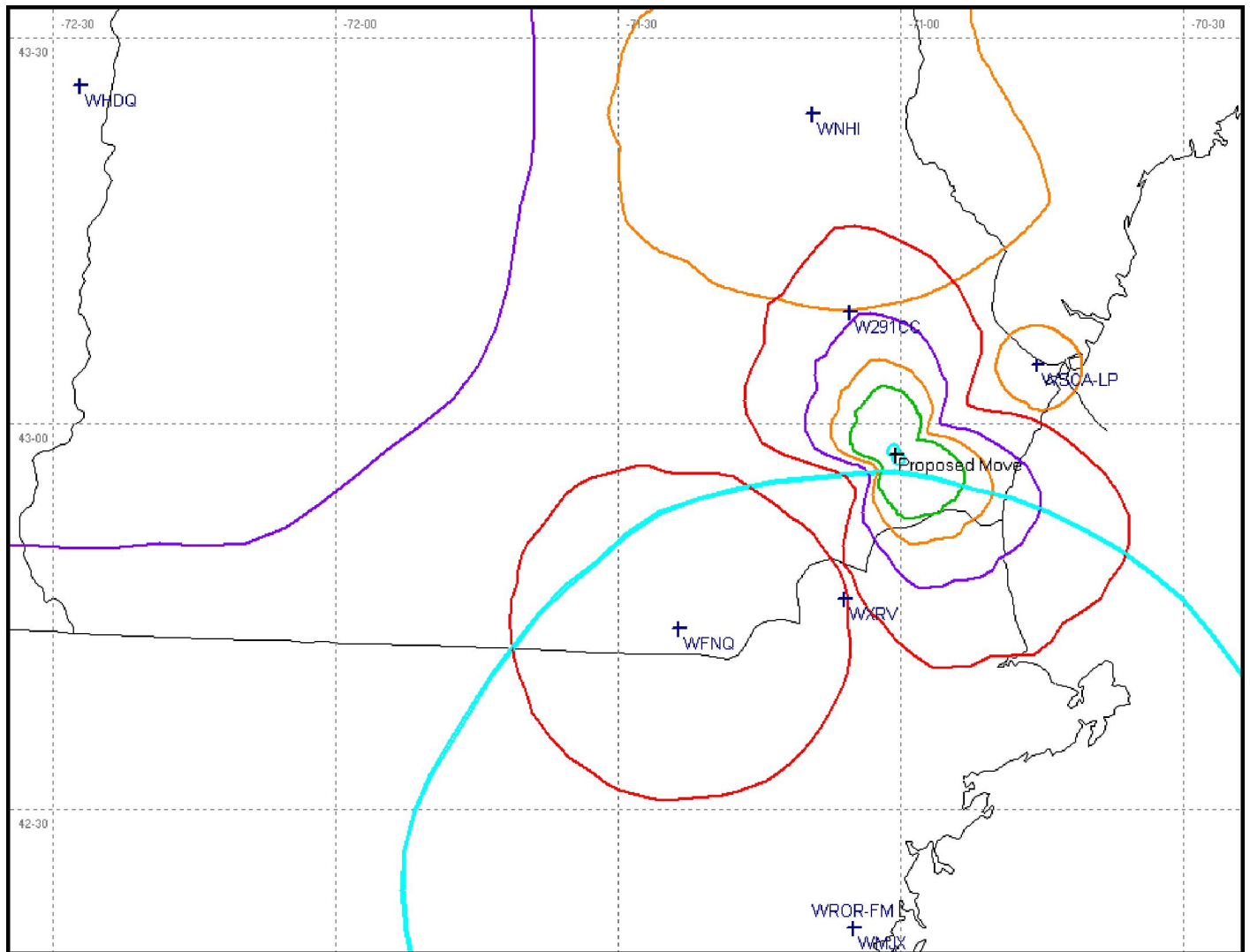


Figure 2A - Proposed 94 dBu F(50,10) interfering contour
will not overlap 54 dBu service contour of WROR-FM or WMJX.

