

R. M. SMITH ASSOCIATES

BROADCAST TECHNICAL CONSULTANTS
10920B CROWN COLONY DRIVE – AUSTIN, TX 78747
Cell: (772)-485-7548
E-MAIL bob@rmsmith.com

TECHNICAL EXHIBIT

NEW HAMPSHIRE PUBLIC RADIO
W282AB – DOVER, NH
MINOR CHANGE APPLICATION

AUGUST 2023

PURPOSE

This Exhibit is part of an application by New Hampshire Public Radio, Inc. (“NHPR”) for a Minor Change to the facilities and community of license of FM translator W282AB. W282AB is currently licensed with Dover, NH as the community of license. This application seeks to change the community of license to Durham, NH and make changes to the technical facility.

FILL-IN SERVICE

The proposed operation will provide fill-in service for co-licensed non-commercial, educational, FM station WEVO(FM), 206B, Concord, NH (Facility ID 48438). Figure 1, of this exhibit, shows that the translator proposed 54 dBu f(50,50) contour lies completely within the WEVO(FM) 54 dBu f(50,50) contour.

CONTOUR OVERLAP

A search of the F.C.C. LMS revealed four licensed facilities that warranted detailed study of potential prohibited contour overlap:

W282CS	282D	Sanford, ME	Fac. ID 201465
W282AF	282D	Concord, NH	Fac. ID 82567
WWBX(FM)	281B	Boston, MA	Fac. ID 26897
WXLO(FM)	283B	Fitchburg, MA	Fac. ID 43557

The protected and pertinent interfering contours for each of the listed facilities and proposed W282AB operation were calculated and plotted. The attached Figure 2 shows those plotted contours.

The proposed 40 dBu f(50,10) contour does not overlap the licensed 60 dBu f(50,50) contour of either W282CS or W282AF. The 40 dBu f(50,10) contours from W282CS and W282AF do not overlap the proposed W282AB 60 dBu f(50,50) contour.

The proposed 48 dBu f(50,10) contour does not overlap the first-adjacent, licensed WWBX(FM) 54 dBu f(50,50) contour.

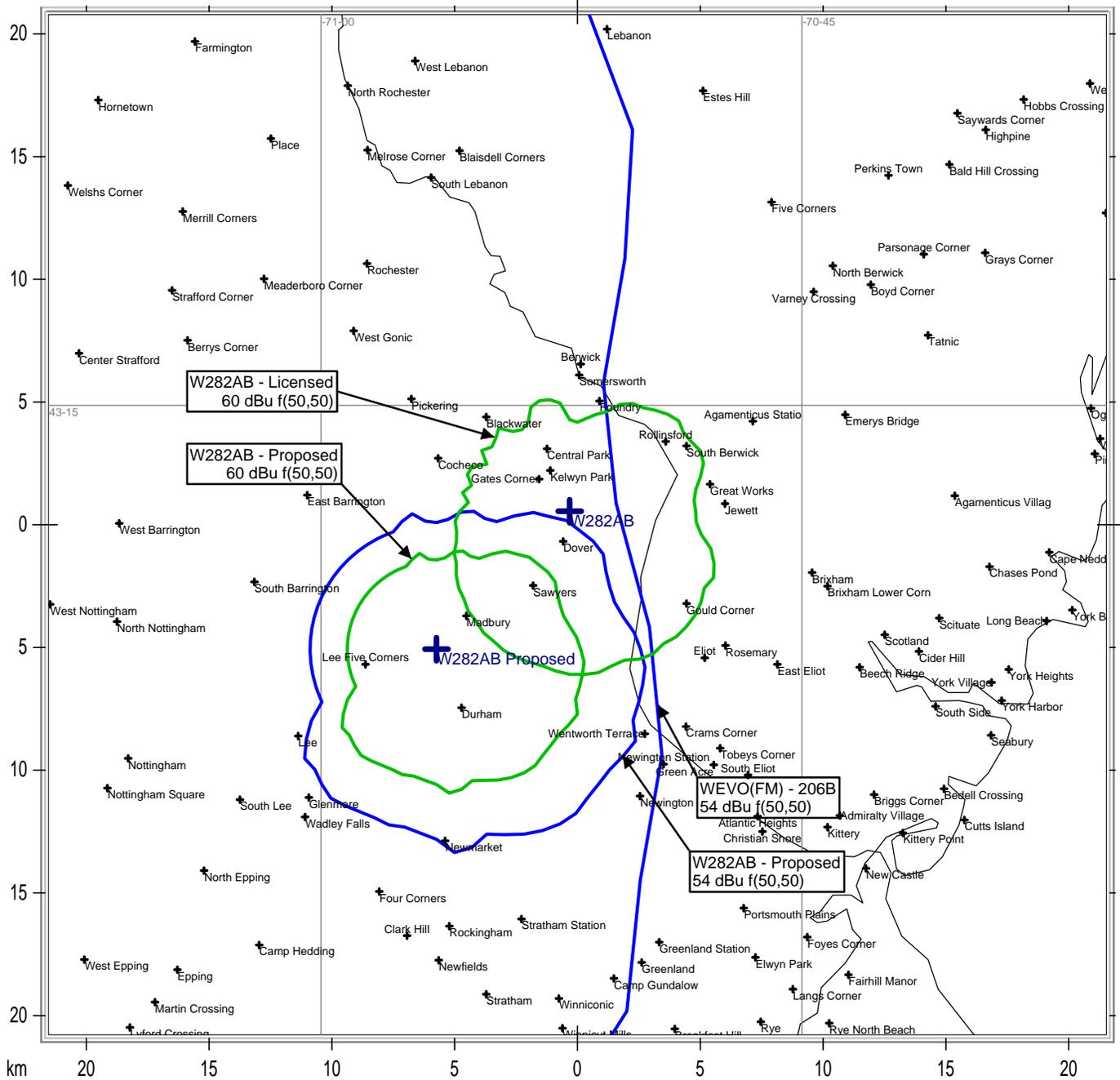
The proposed 48 dBu f(50,10) contour does not overlap the first-adjacent, licensed WXLO(FM) 54 dBu f(50,50) contour.

No prohibited contour overlap will be created by the proposed operation of W282AB in Durham, NH.

CANADIAN PROTECTION

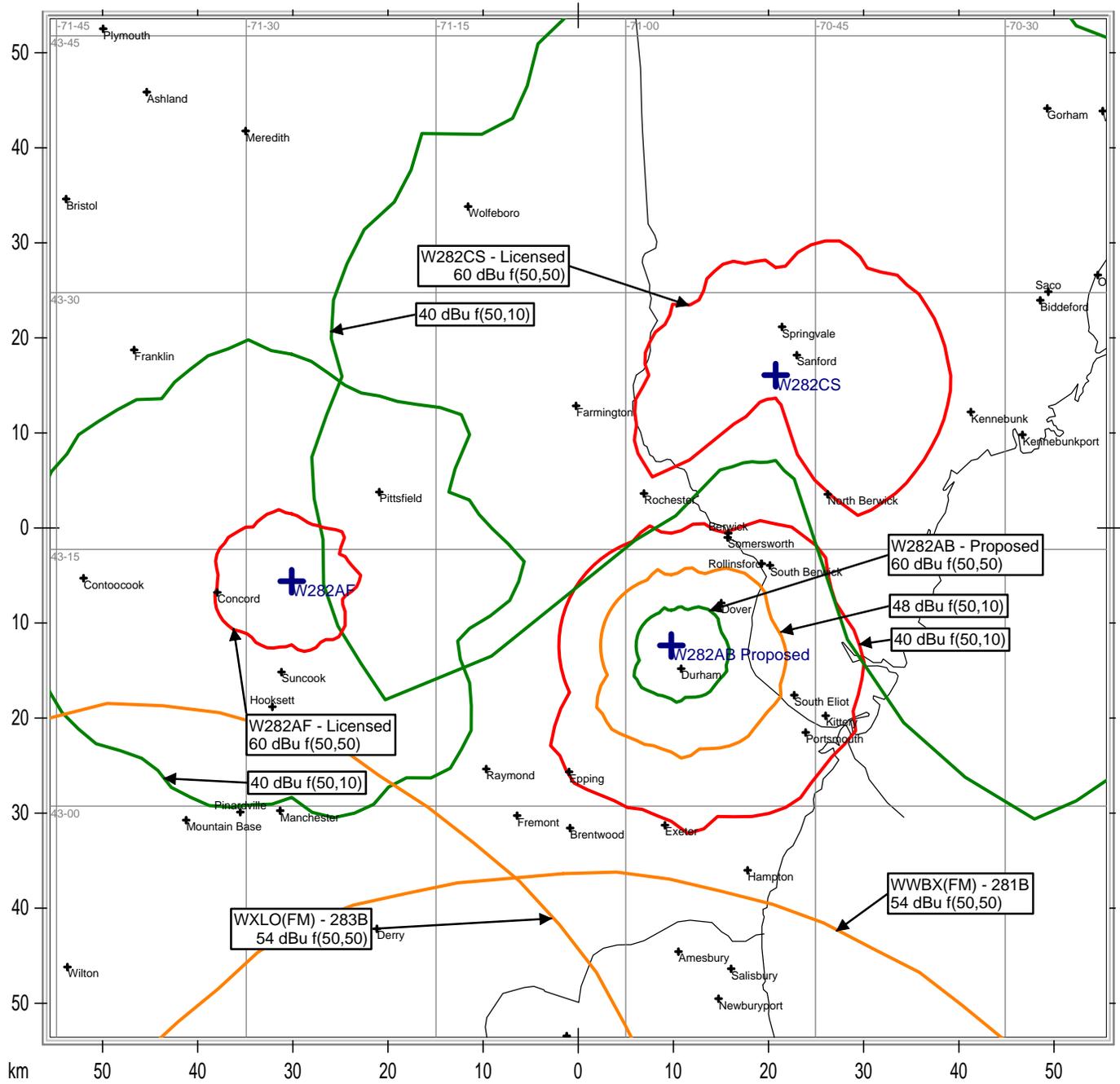
The proposed W282AB antenna site is 212 kms from the United States border with Canada. The furthest extent of the W282AB 34 dBu f(50,10) contour is 31 kms. The proposed operation will have no impact on any Canadian facility of allotment.

NEW HAMPSHIRE PUBLIC RADIO - W282AB - MINOR MODIFICATION



State Borders Lat/Lon Grid

NEW HAMPSHIRE PUBLIC RADIO - W282AB - MINOR MODIFICATION



State Borders Lat/Lon Grid