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TECHNICAL EXHIBIT

ON BEHALF OF

NEW HAMPSHIRE PUBLIC RADIO, INCORPORATED

APPLICATION FOR MINOR MODIFICATION OF LICENSE

OF

WEVF(FM) – 212A – COLEBROOK, NEW HAMPSHIRE

PURPOSE AND SCOPE

The application, of which this exhibit is a part, requests a Construction Permit for a minor modification of the license for WEVF(FM), Colebrook, NH (F.C.C. File Number BLED-20110429ABG). The change requested is an increase in effective radiated power from 0.270 kW to 0.850 kW. No other changes are requested. This exhibit responds to the Broadcast Facility question in the Technical Certification portion of the LMS application.

COMPLIANCE WITH APPLICABLE RULE SECTIONS

47 C.F.R. §73.207 – The WEVF(FM) site is fully spaced as a Class A to all domestic facilities on channels 265 and 266.

47 C.F.R. §73.509 – A search of the CDBS and LMS databases revealed three domestic facilities that warranted detailed analysis of potential contour overlap. The three facilities are:

WMEA(FM) – 211C, Portland, ME,

WRGY(FM) – 213A, Rangeley, ME and

WCKJ(FM) – 213C3, St. Johnsbury, VT.

The protected and interfering contours of each of the listed facilities and the proposed operation of WEVF(FM) were calculated using 3-second terrain data at every 5 degrees of azimuth. As shown on the attached Figure 1, no prohibited contour overlap to any of the listed facilities will be created by the proposed operation of WEVF(FM). Minor overlap to the proposed WEVF(FM) 60 dBu will be created by WMEA(FM) 54 dBu f(50,10) contour. A waiver of this overlap is requested. Details on the justification of this waiver are contained in the included "Waiver Request".

A search of the F.C.C. and Canadian databases revealed three Canadian facilities that warranted detailed analysis of potential contour overlap. The three facilities are:

CBM-FM-1 – 209B, Sherbrooke, QU,
CBFX-FM-2 – 214B, Sherbrooke, QU and
CKUT-FM – 212B, Montreal, QU.

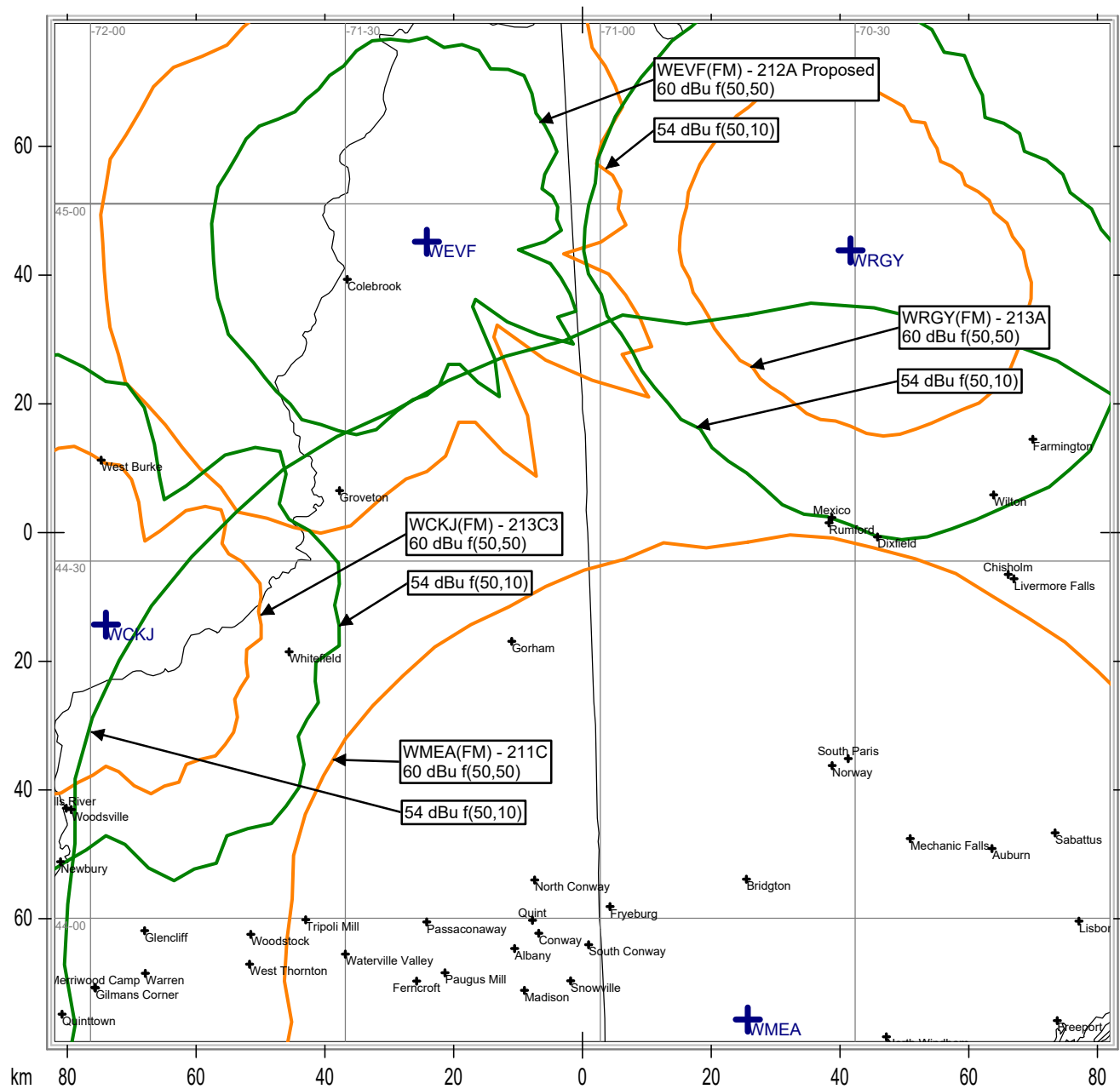
The attached Figure 2 shows the maximum protected radius of 65 kilometers from each of the Class B Canadian facilities. Also plotted on Figure 2 are the 34 dBu, 74 dBu and 94 dBu f(50,10) contours to be generated by the proposed operation of WEVF(FM). Figure 2 shows that the WEVF(FM) 34 dBu contour does not overlap the 65 km radius from CKUT-FM. It further shows that the WEVF(FM) 74 dBu and 94 dBu contours do not cross the U.S. / Canada border and thus do not overlap the CBM-FM-1 and CBFX-FM-2 65 km radii inside Canada. Thus, no prohibited overlap to any Canadian facility will be created.

47 C.F.R. §73.515 – The entire community of license (Colebrook, NH) lies within the existing and proposed 60 dBu f(50,50) signal contour.

47 C.F.R. §73.1125 – New Hampshire Public Radio maintains a toll-free telephone number and thus complies with this provision of the Rules.

ENVIRONMENTAL CONSIDERATIONS – This application proposes an increase in ERP with no changes to the antenna supporting structure or ground support structures. The proposed operating parameters (0.85 kW ERP H&V – C/R 43 meters AGL) were input into the F.C.C. FMModel computer program. That calculation showed a maximum head level (2 meters AGL) exposure of $20.2 \mu\text{W}/\text{cm}^2$ at a distance of 10.2 meters from the base of the tower. This level is 10.1% of the MPE for the general population. The tower also supports the transmitting antenna for TV Digital Translator W34DQ-D. The most recent W34DQ-D CP application showed a projected head level RF field of well below 5% of the MPE for the general public so the total RF field is less than 15% of the MPE for the general public. The applicant understands that RF fields in excess of the F.C.C. Guidelines exist on the tower, in the vicinity of the antenna. The applicant, in cooperation with other users of the site, will assure worker safety through power reduction or cessation of transmission when workers are present on the tower.

WEVF(FM) - 212A - COLEBROOK, NH



MINOR CHANGE APPLICATION

State Borders Lat/Lon Grid

 State Borders
 Lat/Lon Grid