ELTA North America Request for FCC Experimental License
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Necessary Bandwidth Calculation
The necessary bandwidth was determined using the equation in Annex J of the NTIA Manual[1] for FM-CW radars (see Equation 1). The ELTA ELM-2112FP emission has a maximum frequency deviation of 30 MHz. applying this frequency to Equation 1 yields a necessary bandwidth of 60 MHz.

[1] *Manual of Regulations and Procedures for Federal Radio Frequency Management*, Washington, DC: US Department of Commerce, National Telecommunications and Information Administration, 2008 (revision May 2011).

$$B_n = 2B_d \quad (1)$$

where B_n =   necessary bandwidth, MHz

B_d =   frequency deviation bandwidth (peak difference between modulated wave instantaneous frequency and carrier frequency for FM/CW radar systems, MHz