

From: George Moynihan

To: Leann Nguyen

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Subject: FCC File# 0768-EX-ST-2014

Message:

File No. 0768-EX-ST-2014

Ref. 25066

Ms. Nguyen:

As requested, BAE Systems has verified the emission designator specified for the requested STA under File No. 0768-EX-ST-2014. Originally listed as "2M00N0N", the emissions are more accurately described by "5M66P0N".

The derivation is summarized as follows:

• The necessary bandwidth was determined by the formula listed in Table A of Annex J of the NTIA Manual of Regulations and Procedures For Federal Radio Frequency Management, 2013 Edition, May 2013. For this non-FM pulsed radar with a pulse width of 1 microsecond and a rise time of 0.1 microsecond, the 20 dB necessary bandwidth is calculated as:

$$B_n = 1.79/\text{SQRT}(t \cdot \text{tr}) = 5.66 \text{ MHz}$$

• The type of modulation of the main carrier (first classification symbol) is better described as "P" for a sequence of unmodulated pulses rather than the "N" previously used.

BAE Systems has amended the pending application to insert the updated emission designator "5M66P0N" for each of the frequencies on the application.

Finally, please note that the new emission designator of "5M66P0N" and the discussion above supersedes the signal/bandwidth information specified at paragraph 2 of Section 3(D) in Exhibit 1 to the pending application.

If you have any further questions, please do not hesitate to contact the undersigned directly.

Respectfully submitted,

Jeff Rummel
Attorney for BAE Systems