



Bronze Bear Communications
d.b.a. FlexRadio Systems
4616 W. Howard Lane, Ste 8-860
Austin, TX 78728
Phone: 512-535-4713
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May 4, 2023

Nemko North America, Inc.
303 River Road
Ottawa, Ontario, Canada
K1V 1H2

Justification Letter for Extended Frequencies

FCC ID: ZD8C5K-PA

The applicant, on behalf of our customer (Collins Aerospace), submits the justification for extended frequencies for the following rationale:

1. This amplifier does not control the input frequencies and as such only amplifies the selected frequencies of the exciter that is certified separately from the amplifier. The amplifier frequency is set at the exciter and is the responsibility of Authorized Service Personnel. The Amplifier does not have programmability for setting frequencies.
2. The customer is replacing an existing amplifier for ongoing use in the Commercial Aviation space. They have the professional operators use for communicating with planes as they cross remote areas, such as the transoceanic crossings. Limiting the ability to select rated frequencies in at the amplifier could potentially pose a safety issue in an emergency or irregular situation.
3. This amplifier is also under consideration for use in future military applications.
4. The below band list reflects the frequencies that the exciter will transmit through the PA under normal conditions. These frequency bands can be found in FCC Part 87.173(b), and it's a violation of the FCC Rules if this device operates on unauthorized frequencies.

2850.0–3025.0 kHz
3400.0–3500.0 kHz
4650.0–4700.0 kHz
5450.0–5680.0 kHz
6525.0–6685.0 kHz
8815.0–8965.0 kHz
10005.0–10100.0 kHz
11275.0–11400.0 kHz
13260.0–13360.0 kHz
17900.0–17970.0 kHz
21924.0–22000.0 kHz

Sincerely,

Signed:

Printed name: Gerald F Youngblood

Title: Chairman

Company Name: Bronze Bear Communications DBA Flex Radio Systems