

August 15, 2017

Marlene Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: *WiMAX Forum Petition Proposing Rules for the Aeronautical Mobile
Airports Communications Systems, RM-11793*

Dear Ms. Dortch:

On behalf of Powertech Labs Inc., I write to express my strong support for the Petition filed by the WiMAX Forum proposing services rules for the Aeronautical Mobile Airports Communications Systems (AeroMACS).¹ The widespread and expeditious deployment of AeroMACS holds the potential to bring significant benefits to American airports, air travelers, and equipment manufacturers. The Commission should therefore move quickly to adopt a Notice of Proposed Rulemaking proposing services rules for AeroMACS.

AeroMACS is an airport surface communications system that will allow for increased volumes of data exchanges at airports around the country. As the demand for high-bandwidth, data intensive services and applications continues to grow, the global aviation community has adopted AeroMACS to help meet these needs for airport surface communications. The FCC has adopted globally harmonized allocations for AeroMACS in the 5000-5030 MHz and 5091-5150 MHz bands, but the lack of service rules has hindered the widespread deployment of this service in the United States.

The deployment of AeroMACS will result in a multitude of benefits for American airports and air travelers. First and foremost, the higher bandwidth communications services and applications provided by AeroMACS will establish a new framework for airport surface communications designed to advance the safety and regulatory of flight. For example, AeroMACS can assist in providing pilots with up-to-date information on flight plans, maps, and weather forecasts. In addition, airport operations personnel will be able to use AeroMACS networks to perform a host of tasks ranging from coordinating gate operations to snow removal to support for emergency services.

The adoption of service rules will also help promote manufacturing and investment in new AeroMACS products and services. Many equipment manufacturers already have commercial AeroMACS kits available, but large-scale manufacturing remains contingent upon the adoption of services rules. Moreover, the adoption of service rules will spur investment in new and innovative products and services that can be deployed on AeroMACS networks.

Powertech Labs Inc. is one of the largest testing and research laboratories in North America, situated in

¹ See WiMAX Forum Petition for Rulemaking to Adopt AeroMACS Service Rules (filed Mar. 31, 2017) ("Petition").



British Columbia, Canada. Our 11-acre facility offers 15 different testing labs engaged in high tech, utilities, tele communications and energy research and development. Our client base is global and focused on critical infrastructures for energy, communication and electric power.

Powertech Labs Inc., is the only WiMAX Forum Designated Certification Laboratory for AeroMACS certification. Powertech labs Inc., is working closely with the AeroMACS community and vendors to advance and promote the AeroMACS technology and standards. Powertech Labs Inc., has recently received ISO 17025 accreditation for the AeroMACS Radio Conformance Tests. This service validates AeroMACS products to ensure interoperability between different AeroMACS vendors and compliance to the AeroMACS system profile. Powertech is committed to continue supporting the AeroMACS standards and certification needs of the industry.

The Public Notice released by the Commission seeks comment on a number of issues proposed in the Petition.² Powertech Labs Inc., responds to each of these issues as follows:

Licensing Scheme and use of a Channel Manager to determine eligibility and coordinate non-Federal channel usage. We support the proposal that non-Federal eligible users share available channels under the auspices of a single Commission-appointed nationwide Channel Manager. This licensing scheme is the most efficient way of optimizing the limited spectrum in these bands. A Channel Manager, with oversight from industry participants such as the airport and airline communities, is best positioned to allocate spectrum fairly on a non-discriminatory basis. Relatedly, we support the proposal that non-Federal eligible users be “licensed by rule” under Part 95 and be able to register sites and secure AeroMACS channels by applying to the Channel Manager. This licensing approach is the simplest, fairest and most economical way to assign AeroMACS channels. Moreover, this approach reduces the possibility that an entity “warehouses” spectrum it does not need at a particular airport.

Eligibility of non-Federal entities to use AeroMACS. We support the Petition’s proposed non-exhaustive list of eligible users, which includes airports, airlines, airline navigation service providers, and aeronautical communications network providers. This list of eligible users includes all of those entities who are likely to utilize the spectrum in furtherance of the safety and regularity of flight for which the spectrum was originally allocated. Robust access to this spectrum by a variety of users will ensure that we realize the envisioned benefits of safety and regulatory of flight.

Appropriate technical characteristics and equipment certification requirements. We support the proposed technical characteristics and equipment certifications rules. These proposed rules are based on the internationally adopted standards and technical rules for equipment that will be certified to operate in the band. Specifically, the technical rules for AeroMACS are derived from Standards and Recommended Practices of the International Civil Aviation Organization and Radio Technical Commission for Aeronautics published documents. Adoption of such rules will aid in efforts to globally harmonize operations in this band, thus speeding deployment of AeroMACS networks worldwide.

Finally Powertech Labs Inc., wishes to express its deepest appreciation to the WiMAX Forum for submitting this important Petition but also for its continued leadership in AeroMACS on a worldwide level. AeroMACS truly has no better informed or influential advocate and we are well served by their direction.

Thank you for seeking comment on the important issues raised in the Petition. In light of the significant

² See *Wireless Telecommunications Bureau Seeks Comment on WiMAX Forum Petition Proposing Rules for the Aeronautical Mobile Airport Communication System*, Public Notice, DA-17-696 (rel. Jul. 19, 2017 WTB) (“Public Notice”).



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benefits that will be realized by the swift and widespread deployment of AeroMACS networks, Powertech Labs Inc., urges the Commission to expeditiously adopt a Notice of Proposed Rulemaking proposing services rules for AeroMACS.

Sincerely

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cc: Chairman Ajit Pai
Commissioner Mignon Clyburn
Commissioner Mike O'Rielly
Donald Stockdale, Chief, Wireless Telecommunications Bureau
Julius Knapp, Chief, Office of Engineering and Technology

Accredited to IEC/ISO 17025 for specific tests
Management system registered to ISO 9001 and ISO 14001

