

To: Brian Plasky
E-Mail: bplasky@miragesystems.com
From: Behnam Ghaffari
Date: August 29, 2012

Subject: FCC File No. 0440-EX-PL-2012

Message:

Please prior coordinate the use of the frequency bands 978-1020 MHz, 1030 MHz, 1031-1087 MHz, 1090 MHz, 1104-1390 MHz with the Western Pacific (AWP) FAA Regional Office (Frequency Management Office). Please obtain NGT (Non-Government Temporary) numbers from the FAA Regional Office at the completion of the coordination and report them in your response to this correspondence. Please report the parameters below in your coordination with the FAA Regional Office:

- Peak envelope power (PEP);
- Type of antenna;
- Transmit antenna gain;
- Elevation above sea level of the antenna site;
- Height above ground of the focal point of the antenna;
- Antenna polarization;
- The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.;
- Pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment;
- Pulse width;
- Equipment nomenclatures;
- Whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking;
- Radius of operations if appropriate;
- Detailed description of the proposed operation to include any technical parameters that will be altered during operations.
- Will interrogations (transmissions) be made on 1090 MHz as well as 1030 MHz (airborne transponders typically only transmit on 1090 MHz and receive on 1030 MHz)?
- If transmissions will be made on 1030 MHz, in what modes of operation will the transmitter operate (Modes 1, 2, 3A, 3C, 4, 5, Mode-S)? Is this a TCAS and is TCAS the only reason why the 1030 MHz transmissions are needed (airborne Mode 4 and/or 5 operations will be very difficult if not impossible to authorize and airborne Mode-S is not authorized)?

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of August 29, 2012 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at <https://apps.fcc.gov/oetcf/els/index.cfm> by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 17893

To: Brian Plasky
E-Mail: bplasky@miragesystems.com
From: Behnam Ghaffari
Date: August 29, 2012

Subject: FCC File No. 0440-EX-PL-2012

Message:

Please prior coordinate the use of the frequency bands 978-1020 MHz, 1030 MHz, 1031-1087 MHz, 1090 MHz, 1104-1390 MHz with the Western Pacific (AWP) FAA Regional Office (Frequency Management Office). Please obtain NGT (Non-Government Temporary) numbers from the FAA Regional Office at the completion of the coordination and report them in your response to this correspondence. Please report the parameters below in your coordination with the FAA Regional Office:

- Peak envelope power (PEP);
- Type of antenna;
- Transmit antenna gain;
- Elevation above sea level of the antenna site;
- Height above ground of the focal point of the antenna;
- Antenna polarization;
- The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.;
- Pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment;
- Pulse width;
- Equipment nomenclatures;
- Whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking;
- Radius of operations if appropriate;
- Detailed description of the proposed operation to include any technical parameters that will be altered during operations.
- Will interrogations (transmissions) be made on 1090 MHz as well as 1030 MHz (airborne transponders typically only transmit on 1090 MHz and receive on 1030 MHz)?
- If transmissions will be made on 1030 MHz, in what modes of operation will the transmitter operate (Modes 1, 2, 3A, 3C, 4, 5, Mode-S)? Is this a TCAS and is TCAS the only reason why the 1030 MHz transmissions are needed (airborne Mode 4 and/or 5 operations will be very difficult if not impossible to authorize and airborne Mode-S is not authorized)?

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of August 29, 2012 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at <https://apps.fcc.gov/oetcf/els/index.cfm> by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 17894