

From: timothy.j.pawlowitz@faa.gov [<mailto:timothy.j.pawlowitz@faa.gov>]
Sent: **Monday, July 28, 2008** 9:26 AM
To: Jardine, David J
Subject: Re: Re: FAA coordination for the TPS-79- LOCKHEED MARTIN
PROPRIETARY INFORMATION - LOCKHEED MARTIN PROPRIETARY INFORMATION

Dave,

If the two year experimental application includes all of the conditions outlined for the STA, you can put me down as having coordinated and concurring. Please reference the date of this e-mail when citing your coordination.

Tim

FAA Coordination Number – NGT - 089999

In order to maintain the required Interference-to-Noise ratio at co-channel/adjacent channel radar systems, separation distances of up to 150 NM need to be maintained due to troposcatter propagation. Based on that protection criteria the selection of six frequencies have been nominated that afford the least amount of operating restrictions. The analysis conducted was based on the coordinates of the one radar location of 4313341N 0752526W. Due to the multiple sites and transportable nature of this radar I cannot just provide azimuths to blank transmissions in, so I am providing the coordinates that will require transmissions to be blanked toward; transmissions will be required to be blanked +/- 5 degrees in the bearing toward the listed coordinates--the exact bearings will depend on the location of the radar.

The FAA concurs with the operation of the TPS-79 radar provided that operations are conducted in accordance with the parameters in your attached files and on the frequencies listed below. Transmitter blanking is required within +/- 5 degrees of the bearing toward the listed coordinates when operating on the listed frequencies:

2740 MHz Blank +/- 5 degrees toward the coordinates 431341N 752526W to protect operations in Rome, NY on 2737.49 MHz that is approximately 31NM away.

2760 MHz Blank +/- 5 degrees toward the coordinates 441834N 753844W to protect operations in Ottawa, CAN on 2760 MHz located approximately 135NM away. Also blank +/- 5 degrees toward the coordinates 440615N 0753844W to protect operations in Ft. Drum, NY on 2765 MHz located approximately 64NM away.

2805 MHz No blanking required.

2850 MHz Blank +/- 5 degrees toward the coordinates 452030N 0755500W to protect operations in Kanata Onterio, CAN on 2850 MHz located approximately 135 NM away.

2875 MHz Blank +/- 5 degrees toward the coordinates 452030N 0755500W to protect operations in Kanata Ontario, CAN on 2875 MHz located approximately 135 NM away.

2895 MHz Blank +/- 5 degrees toward the coordinates 421250N 0755844W to protect operations in Binghamton, NY on 2895 MHz located approximately 53 NM away.

The FAA concurs with the operation of the SSR provided that interrogations on 1030 MHz are conducted in strict accordance with the parameters in your attached files and the average interrogation rate is confined to between 222 and 250 interrogations per second.

Failure to be able to comply with any of the listed conditions for operations will void the FAA's concurrence with the proposed STA.

Please list on your application to the FCC that this has been coordinated with HQ FAA, Tim Pawlowitz via e-mail dated June 17, 2008.

Regards,
Tim