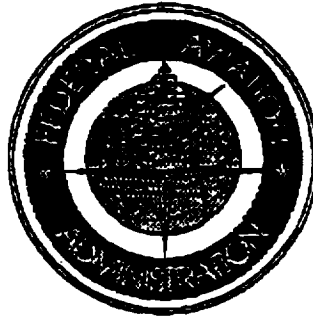


FEDERAL AVIATION ADMINISTRATION
OFFICE OF SPECTRUM POLICY AND MANAGEMENT
800 INDEPENDENCE AVENUE, SW
WASHINGTON, DC 20591

0083-EX-PL-1999
(Condition
Changes)



FROM: TIMOTHY J. PAWLOWITZ
SPECTRUM ENGINEER (ASR-100)
PHONE: 202-267-9739
FAX: 202-267-5901

DATE: 9 FEB 00

TO: FCC - FRANK WRIGHT
ERIN INT'L - GRANT LIBEE?

FAX #: (202) 418-~~2000~~ 1918
(734) 741-1808

PAGES (INCLUDING COVER) 3

TEXT:

FRANK,

Here's our coordination for NG 994961/994962/994963
that's for an SAR for ERIN INTERNATIONAL.

Grant,

Here's a courtesy copy of what I sent to the FCC. This
does not give you the authority to operate, however. You
need to be granted that authorization from the FCC.

Give me a call if there are any questions.

Tim

February 9, 2000

Frank,

The following is provided in response to your fax dated November 24, 1999 that asked for the FAA's coordination on ERIM International Inc. request to test their synthetic aperture radar. These requests were assigned serial numbers NG 994961/994962/994963. I had initially provided FAA's coordination in my correspondence dated November 30, 1999, but after further discussions with ERIM International and technical information they made available, the below conditions supercede my November 24, 1999 coordination.

The FAA concurs with the testing of ERIM International's synthetic aperture radar for terrain imaging for a period of 90 days from the date of the Special Transmit Authorization. Operations will be on a strict non-interference basis and the technical parameters of their operation are limited to the following:

Authorized Frequencies and Associated Emissions:

1245 MHz 8M33Q3N
1255 MHz 25M00Q3N
1270 MHz 50M00Q3N

Maximum Transmitter Peak Envelope Power: 5000 Watts (avg. power 190 watts, duty factor 3.8%, pulse width 25 μ sec, PRR is 1515 PPS)

Maximum Antenna Characteristics: Gain 20dB, Azimuth 3dB beamwidth of 11 degrees, elevation 3dB beamwidth of 27 degrees, peak sidelobe levels of -18dB, dual vertical and horizontal polarization, antenna boresight is sidelooking from the aircraft at 20 degrees below the horizon.

Operations Are Limited to the Following:

The aircraft is required to be positioned in such a way that the center of the radiation swath follows a heading of 328 degrees referenced to true north (or a 148 degree heading on the return trip) from coordinates 421400N 0833300W in Ypsilanti, MI. The radiation is limited out to a distance of 130 NM from the coordinates listed along this heading and the aircraft is limited to radiating at a maximum altitude of 25,000 feet.

The center of the radiation swath is also permitted along a heading of 152 degrees reference to true north (or a 332 degree heading on the return trip) from coordinates 421400N 0833300W in Ypsilanti, MI. The radiation is limited out to a distance of 200 NM from the coordinates listed along this heading and the aircraft is limited to radiating at a maximum altitude of 25,000 feet.

Coordination is required with the FAA's Great Lakes Region Frequency Management Office at least 72 hours prior to operations. The Great Lakes Regional Frequency Management Office can be contacted Monday-Friday during regular business hours at (847) 294-7809/7616/7332/7010. Flight times will be coordinated and contact procedures established in the event of harmful interference is experienced. Operations will cease immediately in the event of interference. The Great Lakes Region Frequency Management Office will in turn coordinate with the appropriate air traffic control facility.

If you have any questions, please feel free to contact me at (202) 267-9739.

Regards,

Tim Pawlowitz