

0035-EX-ST-2000

LOCKHEED MARTIN



Lockheed Martin Enterprise Information Systems
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January 5, 2000

Federal Communications Commission
Experimental License Services
P. O. Box 358320
Pittsburgh, PA 15251-5320

Attn: Office of Engineering & Technology
Experimental License Branch
Re: Special Temporary License Request

We, the Lockheed Martin Corporation, are requesting a Special Temporary License Authorization, with the required FCC Form 159 and FCC license processing fees, \$45.00, attached. This request is for temporary operations at our Norristown, Montgomery County, PA facilities.

You will find attached a faxed request to this office from the site personnel requesting action to be taken to secure a Special Temporary Authorization for operations in the Ku Band frequencies. The site location will be the same as our previous STA, WA2XCD File No. 0121-EX-ST-1999, on C Band channels. Any additional technical questions can be directed to **Leon Smith** on (610) 354-7039. The length of time for this operation will be approximately six months, beginning 01/23/2000, and running through the end of June.

If you should have any problems or questions, please feel free to call the undersigned on (410) 682-2156.

Very Truly Yours,

Claude E. Wells
Corporate
Tech. Support Analyst

Wells, Claude

From: Smith, Leon E
Sent: Wednesday, January 05, 2000 12:59 PM
To: Wells, Claude
Subject: Request to apply for a license

Claude,

We are back at it again. We here at Lockheed Martin Global Telecomm need an experimental license to support rural telephony tests. Our usage will be the same as before except operation will be at Ku band. Our previous experimental license was under call sign WA9XCD and had file number 0121-EX-ST-1999.

Particulars will be as follows:

Station Locations: Norristown (MONTGOMERY), PA NL 40-07-31; WL 75-24-34

Frequency Information:

We will be operating on GE-5 on one of two transponders. GE-5 is located at 79 degrees west. The frequency/polarization information is as follows:

The CF for Transponder 1 is 14030/11730 (H/V). [Transmit frequency is 14030]

The CF for Transponder 4 is 14104/11804 (V/H).

The exact frequency within the 54 MHz transponed has not been assigned.

I talked with the folks at COMSEARCH. A frequency coordination search does not have to be performed for Ku band satellites.

We will be radiating from one of three antennas located on the roof of our building. Maximum power will be as follows:

<u>Station</u>	<u>Antenna Size</u>	<u>EIRP (watts/dBW)</u>
Hub	2.4 meters	400kw/56 dBW
VSAT 1	2.4 meters	25 kw/44 dBW
VSAT 2	1.2	10 kw/40 dBW

The types of emissions will be exactly the same as on our last license, therefore I expect the license Emission Designator will remain 300KG7W. Please verify this.

I can not verify the class of station, other than it is exactly the same as last time, although we are now operating at Ku band.

As per normal we needed this yesterday - we really do need it within the next two weeks if that is at all possible.

Please call me for any additional information that you need, and a corporate card number you can use to charge the application fee to.

Regards,

Leon E. Smith

Senior Communication Systems Engineer
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