

## Lunenfeld, Jonathan D

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**From:** Thomas.Ahn@faa.gov  
**Sent:** Tuesday, June 30, 2015 10:50 AM  
**To:** Lunenfeld, Jonathan D  
**Cc:** timothy.j.pawlowitz@faa.gov; Rene.Balanga@faa.gov; donald.nellis@faa.gov; Andres.CTR.Rosa@faa.gov  
**Subject:** EXTERNAL: RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

Jonathan

The NG T number is NG T150251.

Please include the following conditions in experimental license.

1. THIS EXPERIMENT IS ONE TIME TEST TO MEASURE PROPAGATION CHARACTERISTICS OF RADIO FREQUENCY BETWEEN 9.0 AND 9.2 GHZ UNDER A ROCKET PLUME ENVIRONMENT.
2. THE TRANSMIT POWER 20W IS MAX EIRP, BUT WILL BE ADJUSTED TO MINIMUM LEVEL TO ACHIEVE TEST GOAL.
3. THERE IS NO PLAN TO DEVELOP A PRODUCT USING 9.0- 9.2 GHZ BAND.
4. THERE IS NO PLAN TO RELOCATE THE TEST SITE OTHER THAN CAMDEN, AR.
5. THE LICENSE WILL BE EXPIRED 31 JULY 2016.

Sincerely

Thomas Ahn (AJW-1C2)  
FAA Spectrum Assignment and Engineering  
202-267-4909

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**From:** Lunenfeld, Jonathan D [mailto:jonathan.d.lunenfeld@lmco.com]  
**Sent:** Friday, June 26, 2015 2:15 PM  
**To:** Ahn, Thomas (FAA)  
**Cc:** Pawlowitz, Timothy J (FAA); Balanga, Rene (FAA); Nellis, Donald (FAA)  
**Subject:** RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.  
**Importance:** High

Thomas:

We requested a very short experimentation date on the application. We asked for 8 months to a year but our constituent states the following:

“ The test will be outside for short durations of 5-10 minutes at a time for 2-3 days a month over a few months”.

Thank you

Kind Regards;

Jonathan Lunenfeld  
Manager, Spectrum Licensing

Government & Regulatory Affairs  
Lockheed Martin  
2121 Crystal Drive, Arlington, VA 22202  
Office -703-413-5747  
Cell-571-326-8484  
Fax-703-413-5908  
Email- [jonathan.d.lunenfeld@lmco.com](mailto:jonathan.d.lunenfeld@lmco.com)



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**From:** Lunenfeld, Jonathan D  
**Sent:** Friday, June 26, 2015 1:59 PM  
**To:** 'Thomas.Ahn@faa.gov'  
**Cc:** [timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov); [Rene.Balanga@faa.gov](mailto:Rene.Balanga@faa.gov); [donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)  
**Subject:** RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

Thomas:

Agreed.

Thank you

Kind Regards;

Jonathan Lunenfeld  
Manager, Spectrum Licensing  
Government & Regulatory Affairs  
Lockheed Martin  
2121 Crystal Drive, Arlington, VA 22202  
Office -703-413-5747  
Cell-571-326-8484  
Fax-703-413-5908  
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**From:** [Thomas.Ahn@faa.gov](mailto:Thomas.Ahn@faa.gov) [<mailto:Thomas.Ahn@faa.gov>]  
**Sent:** Friday, June 26, 2015 1:44 PM  
**To:** Lunenfeld, Jonathan D  
**Cc:** [timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov); [Rene.Balanga@faa.gov](mailto:Rene.Balanga@faa.gov); [donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)  
**Subject:** EXTERNAL: RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

Jonathan

Thank you for the short description of the test. I can only provide an NG T number for the 9.0-9.2GHz band if you can agree the following conditions.

1. This is only one time test measuring the transmission characteristic for 9.0-9.2 GHz signal under rocket plume environment.
2. There is no plan to develop a product using the 9.0-9.2 GHz band.
3. There is no plan to relocate the test site other than Camden AR area

Let me know if you agree with the above condition, also end of test date.

Sincerely  
Thomas Ahn (AJW-1C2)  
FAA Spectrum Assignment and Engineering  
202-267-4909

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**From:** Lunenfeld, Jonathan D [<mailto:jonathan.d.lunenfeld@lmco.com>]  
**Sent:** Friday, June 26, 2015 9:14 AM  
**To:** Ahn, Thomas (FAA)  
**Cc:** Pawlowitz, Timothy J (FAA); Balanga, Rene (FAA)  
**Subject:** RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.  
**Importance:** High

Thomas:

There is no government contract per our Lockheed constituent. Attached is the experiment description and the FCC request .

Thank you.

Kind Regards;

Jonathan Lunenfeld  
Manager, Spectrum Licensing  
Government & Regulatory Affairs  
Lockheed Martin  
2121 Crystal Drive, Arlington, VA 22202  
Office -703-413-5747  
Cell-571-326-8484  
Fax-703-413-5908  
Email- [jonathan.d.lunenfeld@lmco.com](mailto:jonathan.d.lunenfeld@lmco.com)



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**From:** [Thomas.Ahn@faa.gov](mailto:Thomas.Ahn@faa.gov) [<mailto:Thomas.Ahn@faa.gov>]  
**Sent:** Tuesday, June 23, 2015 10:02 AM  
**To:** Lunenfeld, Jonathan D  
**Cc:** [timothy.i.pawlowitz@faa.gov](mailto:timothy.i.pawlowitz@faa.gov); [Rene.Balanga@faa.gov](mailto:Rene.Balanga@faa.gov)  
**Subject:** EXTERNAL: RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

I need also a description of experiment.

Sincerely

Thomas Ahn (AJW-1C2)

FAA Spectrum Assignment and Engineering

202-267-4909

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**From:** Lunenfeld, Jonathan D [<mailto:jonathan.d.lunenfeld@lmco.com>]

**Sent:** Monday, June 22, 2015 10:51 AM

**To:** Ahn, Thomas (FAA)

**Cc:** Pawlowitz, Timothy J (FAA); Balanga, Rene (FAA)

**Subject:** RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

**Importance:** High

Thomas:

I have not heard back from Mark Gallant. I am awaiting an answer from our Lockheed Martin constituent regarding a contract number. The FCC informed us to go to frequency band, 9000-9200MHz?

Thank you.

Kind Regards;

Jonathan Lunenfeld

Manager, Spectrum Licensing

Government & Regulatory Affairs

Lockheed Martin

2121 Crystal Drive, Arlington, VA 22202

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**From:** [Thomas.Ahn@faa.gov](mailto:Thomas.Ahn@faa.gov) [<mailto:Thomas.Ahn@faa.gov>]

**Sent:** Friday, June 19, 2015 4:39 PM

**To:** Lunenfeld, Jonathan D

**Cc:** [timothy.i.pawlowitz@faa.gov](mailto:timothy.i.pawlowitz@faa.gov); [Rene.Balanga@faa.gov](mailto:Rene.Balanga@faa.gov)

**Subject:** EXTERNAL: RE: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

Jonathan

The original email indicates you have sent the request Mark Gallant. Have he had responded NG T number?

If not, I need the following information.

1. Why do you need the frequency band, 9000-9200MHz?
2. Can you choose two discrete frequency pair?
3. Contract number if you have government contract?

Sincerely

Thomas Ahn (AJW-1C2)

FAA Spectrum Assignment and Engineering

202-267-4909

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**From:** Lunenfeld, Jonathan D [<mailto:jonathan.d.lunenfeld@lmco.com>]

**Sent:** Friday, June 19, 2015 2:46 PM

**To:** Ahn, Thomas (FAA)

**Subject:** FW: NG coordination number requested for Lockheed Martin experimental license The FCC file number is 0304-EX-PL-2015.

**Importance:** High

Thomas:

Can you provide the NGT for this filing>

Kind Regards;

Jonathan Lunenfeld

Manager, Spectrum Licensing

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Email- [jonathan.d.lunenfeld@lmco.com](mailto:jonathan.d.lunenfeld@lmco.com)



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**From:** Lunenfeld, Jonathan D

**Sent:** Monday, June 15, 2015 9:12 AM

**To:** 'mark.gallant@faa.gov'

**Cc:** [Thomas.Ahn@faa.gov](mailto:Thomas.Ahn@faa.gov)

**Subject:** RE: NG coordination number requested for Lockheed Martin experimental license

**Importance:** High

Please Provide a status.

Thank you.

Kind Regards;

Jonathan Lunenfeld

Manager, Spectrum Licensing  
Government & Regulatory Affairs  
Lockheed Martin  
2121 Crystal Drive, Arlington, VA 22202  
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Email- [jonathan.d.lunenfeld@lmco.com](mailto:jonathan.d.lunenfeld@lmco.com)



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**From:** Lunenfeld, Jonathan D  
**Sent:** Tuesday, May 19, 2015 11:37 AM  
**To:** [mark.gallant@faa.gov](mailto:mark.gallant@faa.gov)  
**Subject:** NG coordination number requested for Lockheed Martin experimental license  
**Importance:** High

Good morning Mark:

My name is Jonathan Lunenfeld. I am the Manager, Spectrum Licenses for Lockheed Martin. You may remember me from our dealings at Aviation Spectrum Resources, Inc.? I recently filed an experimental license with the FCC for one of our constituents. The FCC informed Lockheed Martin that we will need an NG number for 900-9200 band. The FCC file number is 0304-EX-PL-2015. See attached. I also completed an FAA form 6050 also attached.

If you have any questions please feel free to contact me.

Thank you.

Kind Regards;

Jonathan Lunenfeld  
Manager, Spectrum Licensing  
Government & Regulatory Affairs  
Lockheed Martin  
2121 Crystal Drive, Arlington, VA 22202  
Office -703-413-5747  
Cell-571-326-8484  
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