

Nimesh Sangani

From: Ozgur Ozdemir <oozdemi@ncsu.edu>
Sent: Tuesday, June 8, 2021 10:17 AM
To: Nimesh Sangani
Subject: Re: [EXTERNAL]: Re: Additional Information Request

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Hi Nimesh,

Our plan normally is as follows

UAV at Lake Wheeler and Centennial 400 ft AGL,

Helikite at Lake Wheeler only 700 ft AGL.

Our airborne transmissions will mostly be a UAV at Lake Wheeler but we would like to keep UAV at Centennial and Helikite at Lake Wheeler. I have added the following in the "If Mobile describe the area or operation" section.

UAV 400 ft AGL, Helikite at only Lake Wheeler 700 ft AGL

Best Regards

Ozgur

On Mon, Jun 7, 2021 at 12:46 PM Nimesh Sangani <Nimesh.Sangani@fcc.gov> wrote:

Ozgur,

Your exhibit states, "The maximum height of airborne transmissions will be 400 feet for drones based on FAA Part 107

regulations. The portable nodes can carry SDRs to communicate with ground SDRs (at portable or fixed nodes on the ground), or a commercial mobile handset (to communicate with the Ericsson BS).

- We are also planning to use one (1) helikite platform in the LW area in 2022 to carry out airborne experiments. The maximum height of the helikite will be limited to 700 feet. It can carry portable node(s) with SDRs and/or a mobile UE."

For the purpose of this modification request, are you requesting maximum altitude of 400 feet for both locations or are you requesting max altitude of both 400 feet for centennial campus and 700 feet for Lake wheeler? If 400 feet is all you require for this entire modification request then confirm that and ignore the below part.

If you are requesting both 400 and 700 feet then you need to clearly identify which one is 400 and which one is 700 feet. I can't differentiate between them at the moment. You can mention in your application in the "If Mobile describe the area or operation" section.

Examples:

"ground Mobile or UAV 400 Feet AGL"

" UAV mobile 700 Feet AGL"

Above Ground Level (AGL) or Mean Sea Level (MSL).

V/r,

Nimesh

From: Ozgur Ozdemir <oozdemi@ncsu.edu>

Sent: Friday, June 4, 2021 2:14 PM

To: Nimesh Sangani <Nimesh.Sangani@fcc.gov>; Asokan Ram <asokan.ram@wrc-nc.org>; Ismail Guvenc <iguven@ncsu.edu>; Marojevic, Vuk <vuk.marojevic@ece.msstate.edu>; Ira Keltz <Ira.Keltz@fcc.gov>; Mihail Sichitiu <mlsichit@ncsu.edu>; Gosain, Manu <a.gosain@northeastern.edu>

Subject: Re: [EXTERNAL]: Re: Additional Information Request

Hi Nimesh,

We have submitted our response by amending our application and attaching the PDF file during amendment. We have modified our first antenna to include only fixed and ground mobile and added another antenna for UAV operation only which does not include 3.55 GHz-3.7 GHz range.

Best Regards

Ozgur

On Thu, Jun 3, 2021 at 6:44 AM Nimesh Sangani <Nimesh.Sangani@fcc.gov> wrote:

Ozgur,

Have you tried to convert that word document to PDF and upload it under the "Text Documents" folder section in your application?

If you want to request CBRS band then enter a separate antenna entry just for the CBRS band and enter the transmitting antenna type as "Fixed Mobile" or "Mobile" and the section that says, "If Mobile, describe the area of operation", say that this is a ground mobile request in the vicinity of Raleigh, NC.

Do the same for your request in the 3.3 – 3.55 GHz Band. Enter information in the section that says, "If Mobile, describe the area of operation". You have not provided any information in that section.

V/r,

Nimesh

From: Ozgur Ozdemir <oozdemi@ncsu.edu>
Sent: Wednesday, June 2, 2021 9:47 PM
To: Nimesh Sangani <Nimesh.Sangani@fcc.gov>
Subject: [EXTERNAL]: Re: Additional Information Request

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Hi Nimesh,

Thanks for your reply. We will incorporate your comments to our response document. The difficulty I am having is we need to submit our response using the link

<https://apps.fcc.gov/oetcf/els/forms/SubmitCorrespondenceEntry.cfm>

However, our response document includes pictures and I am not sure how we can upload pictures using this link.

Also for the CBRS band of 3.55-3.7 GHz we will not do UAV experiment in this band but we may consider doing ground experiments if it is acceptable by FCC.

We may modify the response clearly stating this if you suggest we do that.

Best REgards

Ozgur

On Tue, Jun 1, 2021 at 3:20 PM Nimesh Sangani <Nimesh.Sangani@fcc.gov> wrote:

Ozgur,

Submit the modification description as an exhibit to your application. You have done this in your previous application. You should be able to get this done.

FLN: 0074-EX-CM-2021

Confirmation Number: EL702209 (don't put this number in the exhibit)

I was looking in the document and you mentioned several different frequency bands. Split the frequency request for the 3300-3800 MHz based on what you're saying in the narrative.

Your exhibit states that, "We acknowledge that we do not presently intend to have any airborne transmissions in the CBRS band of 3.55-3.7 GHz." If that's the case then remove that band request from your file.

V/r,

Nimesh

From: Ozgur Ozdemir <oozdemi@ncsu.edu>

Sent: Friday, May 28, 2021 4:38 PM

To: Nimesh Sangani <Nimesh.Sangani@fcc.gov>; Asokan Ram <asokan.ram@wrc-nc.org>; Ismail Guvenc <iguvc@ncsu.edu>; Marojevic, Vuk <vuk.marojevic@ece.msstate.edu>; Mihail Sichitiu <mlsichit@ncsu.edu>;

Gosain, Manu <a.gosain@northeastern.edu>; Ira Keltz <Ira.Keltz@fcc.gov>

Subject: Fwd: Additional Information Request

Hi Nimesh,

I am attaching our response for File Number: 0074-EX-CM-2021 and Correspondence Reference Number: 61736 below. The email states to submit it via the internet but I still do not know how to attach documents through the web site. Is this fine?

Best Regards

Ozgur

----- Forwarded message -----

From: <oetech@fcc.gov>

Date: Wed, May 5, 2021 at 3:11 PM

Subject: Additional Information Request

To: <oozdemi@ncsu.edu>



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Office of Engineering and Technology

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To: Ozgur Ozdemir, North Carolina State University
oozdemi@ncsu.edu

From: Nimesh Sangani
Nimesh.Sangani@fcc.gov

Applicant: North Carolina State University
File Number: 0074-EX-CM-2021
Correspondence Reference Number: 61736
Date of Original Email: 05/05/2021

an existing location then mention that in your exhibit. If you're adding a new location with few frequencies that specify that in your exhibit. Provide a purpose for your modification request. 2) Are you conducting airborne operation at any particular location? If yes, then provide the maximum altitude in feet. Please remember the condition from your previous grant: North Carolina State University is prohibited from operating in the 3500 - 3700 MHz band due to an explicit airborne prohibition in our CBRS Service rules.

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 05/05/2021 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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