

To: Parker Francis
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From: Leann Nguyen
Date: August 17, 2016

Subject: Request for Info - File # 0476-EX-PL-2015

Message:

Below is International Bureau requests, please send response as soon as you can:

"In the Orbital Debris Assessment Report (ODAR), we need to know more about the use of the laser in AMES Research Center that will be used for laser ranging experiments.

Please indicate who the ground station laser belongs to and who operates it. Please provide any additional available information concerning the nature of the laser ranging experiment. What is the frequency of the laser?

Review of documents (Form 442 and SpaceCapture file)

- Unfortunately, the SpaceCap file provided is not in the proper format; it appears to be a CR/Notification format which is not the correct format; we need the Advanced Publication Information (API) format, so we ask the applicant to please resubmit the SpaceCap file in the API format. Also note that in SpaceCap file box BR3a the Radio Regulation provision referenced currently is 11.2 which is incorrect (it should be Article 9.1, Sub-section 1A.);

- Moreover, we note that the SpaceCap file is missing the whole spacecraft Receiver page (this page contains all of the uplink information) with associated earth station transmission. Please insert a receiver page and all the corresponding data.

- We noted that FCC Form 442 does have an uplink; please add the uplink information to both Form 442 and SpaceCap file.

- Furthermore, the SpaceCap file Downlink page, Group ID 1, box C2c "RR No. 4.4" is NOT checked with "Y"; the applicant will need to mark all the box with "Y". Also, we notice the beam designation in (box B1a) could name a simple description such as "downlink" but if the applicant wants the current name we will not oppose it.

- In the SpaceCap file, Downlink page, Group ID 1, Box C81a "Max peak pwr" has a value of 1.5 dBW, but in Form 442 the power value is 2.5W which is 4 dBW; please validate the power value and make the appropriate changes to either document. Be aware in box C8a2 "Max pwr dens" shows -43 dBW/Hz but this power spectral density value may change if the max power value changes.

Applicant, please ensure that all the data in Form 442 are consistent with the data in SpaceCap API file. This will expedite our review of the application. Also, we suggest to PRINT the SpaceCap file when reviewing the final version. Having a hard copy helps pickup items that may have been missed and it helps when comparing it with Form 442."

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 August 17, 2016 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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Responses to this correspondence must contain the Reference number : 33580