Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc)
8012 MacArthur Boulevard
Cabin John, MD 20818 U.S.A.
www.xisp-inc.com
+1 301 229 8012

DATE: June 30, 2022

FROM: Gary P. Barnhard
President & Chief Executive Officer XISP-Inc gary.barnhard@xisp-inc.com
Geometric Energy Corporation (GEC)/Geometric Space Corporation (GSC)
Geometric-1 Contract Mission Management Support gary@geometricenergy.com

TO: Douglas Young
Federal Communications Commission
Douglas.Young@fcc.gov

SUBJECT: Request for Application Extension File #0083-EX-CN-2022

Dear Mr Young:

Pursuant to our email exchange of June 30, 2022 and related correspondence noted belowI hereby request an extension for:

- Applicant Name: Gary Barnhard, Geometric Energy Corporation (GEC)
- Applicant eMail: gary.barnhard@xisp-inc.com
- FCC Examiner: Douglas.Young@fcc.gov
- Applicant: Geometric Energy Corporation (GEC)
- File Number: 0083-EX-CN-2022
- Correspondence Reference Number: 69101
- Date of Original Email: 04/28/2022, next deadline June 30, 2022.

For reasons outside of my control I have not been able to close the loop with Cathy Sham/NASA on critical details regarding our license application submission in time to incorporateher teams input in the deliverables in timely manner for the planned submission today. Correspondance dated June 30, 2022 from Cathy Sham/NASA is appended. I respectfully request an extension to allow this coordination to be completed.

As noted below we have made substantial progress and anticipate completing our filing in a matter of days rather than weeks.

Sincerely,

Gary P . Barnhard .
DOGE-1 Mission Manager
Geometric Energy Corporation

CC: Cathy Sham/NASA JSC
Nadeem Gabbani nadeem@exobotics.space
Austin Kruggel austin@maverickspace.com Maverick Space Systems
Sam Reid sam@geometricenergy.ca Geometric Energy Corporation

Concept of Operations/Work Flow Status:

(1) We have converged on the preliminary link budgets for DOGE-1 and sent them to all concerned for final review.

(2) We have converged on our Earth Station selection.

(3) We have respect to the relationship betweenthe minimum operational bandwidth calculation and the requested bandwidth allocation for testing.

(4) Based on cost, expediency, and literal consideration of the facts we are making an Experimental Application under Part 5 rules for a Test Allocationthat will converge within one year and operate for a limited time (less than 3 years).

(5) The extent to which there is anything commercial that emerges from these endeavors it envisioned as a basis for a establishing potential follow-onsto the specific work in question, it is not the basis of the proposed experiments themselves. Any alternative formulation to this gets expensive, very quickly and is therefore assumed to be intractable.

Deliverables Status:

1. Submit a signed Orbital Debris Assessment Report (ODAR) in accordance with 47 C.F.R. §5.64(b). <Draft 1-2 is being circulated for review>

2. The FCC's International Bureau requires the submission of SpaceCap data to complete evaluation of your application. In accordance with the provisions of Article 9.1 and Appendix 4 of the Radio Regulations, mandatory submissionof a SpaceCap file for each individual space station is required. The software and instructions may be downloaded from the ITU link http://www.itu.int/en/ITU-R/software/Pages/spacecap.aspx.This application requires an API SpaceCap file using Version 9. <Being Worked> Software has been downloaded, guidance received, review copy should be generated tonight.

3. This application requires a cost recovery letter A cost recovery letter template is attached. <Submitted>

4. This application requires an ITU SpaceCap cover letter to submit the API SpaceCap file. A draft ITU SpaceCap cover letter is attached. <Submitted>

5. Bandwidth and Data Rate Calculations have converged <Currently on V2-6>, under final review

6. DOGE-1 and Geometric-1 Radio License Reclama has converged <Currently on V6-1, under final review>

7. DOGE-1 Link Budgets, GOMspace-Exobotics Template must be converged <Currently on V2-5, under final review>

8. NASA JSC DOGE-1 Mission Frequency Coordination Template_1 Extended <Includes data from above which has been provided to NASA JSC>

9. NTIA Space Data Form (REBSatDataNTIA-DOGE-1-V2-0) must be completed. <Draft 1-0 is being circulated for completion and review. 15 examples have been downloaded and reviewed. Emission Characterization issue is being worked.>

>>> "Sham, Catherine C. (JSC-EV811)" <catherine.c.sham@nasa.gov> 6/30/2022 4:28 PM >>>

Hi Gary,

Sorry about not having responded earlier. I've been on travel. We are working on finalizing the RF interference/frequency selection analysis for DOGE-1. Please give me a day to get caught up with the content of your emails.

Thank you!

Cathy