

SPACE ACT AGREEMENT 34786
BETWEEN
NASA MANAGEMENT OFFICE FOR THE JET PROPULSION LABORATORY
AND
MOOG INC.
FOR
JPL IGOR SOFTWARE SUPPORT FOR MBR

ARTICLE 1. AUTHORITY

In accordance with the National Aeronautics and Space Act (51 U.S.C. § 20113(e)), this Agreement is entered into by the National Aeronautics and Space Administration, located at the Jet Propulsion Laboratory (hereinafter referred to as "NASA") and Moog Inc., Moog BroadReach located at 2228 W Guadalupe Rd, Gilbert, AZ 85233-2806 (hereinafter referred to as "Partner" or "MBR"). NASA and Partner may be individually referred to as a "Party" and collectively referred to as the "Parties."

"Related Entity" as used herein, means a contractor, subcontractor, grantee, or other entity having a legal relationship with NASA or Partner that is assigned, tasked, or contracted with to perform specified NASA or Partner activities under this Agreement.

"Data" as used herein, means recorded information, regardless of form, the media on which it may be recorded, or the method of recording. The term includes, but is not limited to, data of a scientific or technical nature, computer software and documentation thereof, and data comprising commercial and financial information.

"Proprietary Data" as used herein, means Data embodying trade secrets or comprising commercial or financial information that is privileged or confidential and is marked with a suitable restrictive notice, unless the Data is:

- a. known or available from other sources without restriction;
- b. known, possessed, or developed independently, and without reference to the Proprietary Data;
- c. made available by the owners to others without restriction; or
- d. required by law or court order to be disclosed.

"Scientific and Technical Articles" as used herein, means scientific and technical articles based on or containing Data first produced by the California Institute of Technology (Caltech) under the NASA/Caltech contract to operate the Jet Propulsion Laboratory (JPL) and published in academic, technical or professional journals, symposia proceedings or similar works.

"Protected Computer Software" as used herein, means copyrighted or patented Data embodied in source or object code or software documentation first produced by Caltech under the NASA/Caltech contract to operate JPL. Protected Computer Software is the property of Caltech and any use of such Protected Computer Software other than as

authorized herein must be negotiated with the Office of Technology Transfer & Corporate Partnerships at Caltech.

"Related Invention" as used herein, means an invention related to the subject matter of this Agreement, but not made as a result of activities performed under this Agreement, that is covered by a patent application or patent owned by NASA, a NASA Related Entity, or Partner.

ARTICLE 2. PURPOSE

BroadReach Engineering (BRE), now referred to as Moog BroadReach (MBR) after Moog bought them around 2010, licensed JPL BlackJack software over 15 years ago to deliver BRE built IGOR (Integrated GPS Occultation Receiver) instruments as part of a BlackJack Tech Transfer following other successful NASA funded BlackJack deliveries (OSTM, Jason III, ICESat, COSMIC 1 and FedSAT). Under a NASA agreement, MBR supported other missions by selling directly to customers and delivering receivers to TerraSARX, TandemX, KompSAT, and Paz. Recently, the US Air force (USAF) has periodically turned on 'flex power', which exposed a bug in the JPL BlackJack software that makes tracking difficult and causes frequent resets in locations where the Air Force has increased GPS power levels. JPL has already implemented a software update to fix this problem on JPL lead missions and arranged to fund the transfer the minor modifications to MBR under the JPL Software Royalty Reinvestment Fund (10K).

This effort will provide support to allow JPL to update the MBR software and will be implemented as needed to cover mission specific support. The first instance of this will likely be for an update to the TerraSAR X and TandemX software builds which MBR will modify, test and deliver to their customer, with help from JPL.

JPL will support MBR in their effort to modify, build, test and deliver software for the IGOR missions; TerraSARX, TandemX, KompSAT, and Paz. This will include the review of the changes that MBR makes, assistance in testing of the software and JPL's analysis of the test data.

Also included is JPL assistance in answering questions related to the software upload, on-orbit receiver commanding, on-orbit data analysis and trouble shooting. Ultimately, MBR will be responsible for the changes, validation, testing and delivery of the updates.

ARTICLE 3. RESPONSIBILITIES

NASA will use reasonable efforts to:

1. Review changes that MBR makes to the Source code, test software builds, and analyze test data.
2. Assist in answering questions related to the software upload, on-orbit receiver commanding on-orbit data analysis, and troubleshooting.
3. Prepare a final report for each mission.

MBR will use reasonable efforts to:

1. Delivery to NASA at contract start, the source code for the first mission NASA is to start on. This is expected to be highly based on the delivery of the Tri-GNSS receiver (TriG, incorporating GPS, GLONASS, and Galileo) source code that NASA delivered to MBR under license agreement, but with any mission specific changes that were made by MBR.
2. MBR will work with NASA to identify and debug the flex power issue as well as any other bugs or updates that are needed.
3. MBR will supply an engineer with expertise in the TriG software to interact with NASA.
4. MBR will have and maintain its own development hardware to support software development, compiling (code Warrior) and testing, with hardware as needed.

ARTICLE 4. SCHEDULE AND MILESTONES

The planned major milestones for the activities defined in the "Responsibilities" Article are as follows:

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|---|--|
| 1. MBR to deliver Mission-specific software source code | 2 weeks after contract start date and as needed for each mission |
| 2. JPL to deliver Final Report to MBR | Within 30 days after each mission's bug fixes have been completed. |

ARTICLE 5. FINANCIAL OBLIGATIONS

A. Partner agrees to reimburse NASA an estimated cost of \$225,124 for NASA to carry out its responsibilities under this Agreement. In no event will NASA transfer any U.S. Government funds to Partner under this Agreement. Payment must be made by Partner in advance of initiation of NASA's efforts on behalf of the Partner.

Initial payment authorized to proceed	[Contract start date]	\$75,000
Incremental funds	12 Months after contract start date	\$75,000
Incremental funds	24 Months after contract start date	\$75,124

TOTAL	\$225,124
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B. Payment shall be payable to the National Aeronautics and Space Administration through the NASA Shared Services Center (NSSC) (choose one form of payment):

- (1) U.S. Treasury FEDWIRE Deposit System, Federal Reserve Wire Network Deposit System;

(2) pay.gov at www.nssc.nasa.gov/customerservice (select "Pay NASA" from the Quick Links to the left of the page); or

(3) check. A check should be payable to NASA and sent to:

NASA Shared Services Center
FMD – Accounts Receivable For the Accounts of: Jet Propulsion Laboratory
Building 1111,
Jerry Hlass Rd.,
Stennis Space Center, MS 39529

Payment by electronic transfer (#1 or #2, above), is strongly encouraged, and payment by check is to be used only if circumstances preclude the use of electronic transfer. All payments and other communications regarding this Agreement shall reference the Center name, title, date, and number of this Agreement.

C. NASA will not provide services or incur costs beyond the existing payment. Although NASA has made a good faith effort to accurately estimate its costs, it is understood that NASA provides no assurance that the proposed effort under this Agreement will be accomplished for the above estimated amount. Should the effort cost more than the estimate, Partner will be advised by NASA as soon as possible. Partner shall pay all costs incurred and has the option of canceling the remaining effort, or providing additional funding in order to continue the proposed effort under the revised estimate. Should this Agreement be terminated, or the effort completed at a cost less than the agreed-to estimated cost, NASA shall account for any unspent funds after completion of all effort under this Agreement, and promptly thereafter return any unspent funds to Partner.

D. Notwithstanding any other provision of this Agreement, all activities under or pursuant to this Agreement are subject to the availability of funds, and no provision of this Agreement shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, (31 U.S.C. § 1341).

ARTICLE 6. PRIORITY OF USE

Any schedule or milestone in this Agreement is estimated based upon the Parties' current understanding of the projected availability of NASA goods, services, facilities, or equipment. In the event that NASA's projected availability changes, Partner shall be given reasonable notice of that change, so that the schedule and milestones may be adjusted accordingly. The Parties agree that NASA's use of the goods, services, facilities, or equipment shall have priority over the use planned in this Agreement. Should a conflict arise, NASA in its sole discretion shall determine whether to exercise that priority. Likewise, should a conflict arise as between two or more non-NASA Partners, NASA, in its sole discretion, shall determine the priority as between those Partners. This Agreement does not obligate NASA to seek alternative government property or services under the jurisdiction of NASA at other locations.

ARTICLE 7. NONEXCLUSIVITY

This agreement is not exclusive; accordingly, NASA may enter into similar agreements for the same or similar purpose with other private or public entities.

ARTICLE 8. LIABILITY AND RISK OF LOSS

A. Partner hereby waives any claims against NASA or one or more of its Related Entities for any injury to, or death of, Partner or one or more of its Related Entities, or for damage to, or loss of, Partner's property or the property of its Related Entities, arising from or related to activities conducted under this Agreement, whether such injury, death, damage, or loss arises through negligence or otherwise, except in the case of willful misconduct. For purposes of this Agreement, "Related Entities" shall mean contractors and subcontractors of a Party at any tier; grantees, investigators, customers, and users of a Party at any tier and their contractors or subcontractor at any tier; or, employees of the Party or any of the foregoing.

B. Partner further agrees to extend this unilateral waiver to its related entities by requiring them, by contract or otherwise, to waive all claims against NASA and its Related Entities for injury, death, damage, or loss arising from or related to activities conducted under this Agreement. In the event the U.S. Government incurs any liability based upon Partner's failure to provide for the waiver by Partner's Related Entities set out above, Partner agrees to indemnify and hold the U.S. Government harmless against such liability, including costs and expenses incurred by the U.S. Government in defending against any suit or claim for liability by Partner's Related Entities.

C. In the event U.S. Government property is damaged as a result of activities conducted under this Agreement for the primary benefit of Partner, except in the case of wilful misconduct by NASA, Partner shall be solely responsible for the repair and restoration of such property subject to NASA direction.

D. Notwithstanding the other provisions of this Article, the waiver of liability set forth in this section shall not be applicable to:

- i. Claims between Partner and its own Related Entity or between its own Related Entities;
- ii. Claims made by a natural person, his/her estate, survivors, or anyone claiming by or through him/her (except when such person or entity is a Party to this Agreement or is otherwise bound by the terms of this waiver) for bodily injury to, or other impairment of health of, or death of, such person;
- iii. Claims for damage caused by willful misconduct;
- iv. Intellectual property claims;
- v. Claims for damage resulting from a failure of Partner to extend the waiver of liability to its Related Entities, pursuant to paragraph B of this Article; or
- vi. Claims by Partner arising out of or relating to NASA's failure to perform its obligations under this Agreement.

ARTICLE 9. LIABILITY AND RISK OF LOSS - PRODUCT LIABILITY

With respect to products or processes resulting from a Party's participation in an SAA, each Party that markets, distributes, or otherwise provides such product, or a product designed or produced by such a process, directly to the public will be solely responsible for the safety of the product or process.

ARTICLE 10. INTELLECTUAL PROPERTY RIGHTS - DATA RIGHTS

A. General

1. Data exchanged under this Agreement is exchanged without restriction except as otherwise provided herein.
2. Notwithstanding any restrictions provided in the Authority and Definitions Article of this Agreement, the Parties are not restricted in the use, disclosure, or reproduction of Data provided under this Agreement that is not Proprietary Data as defined in the Authority and Definitions Article of this Agreement. If a Party believes that Data is not Proprietary Data because any of the listed exceptions apply, it shall notify the other Party before any unrestricted use, disclosure, or reproduction of the Data.
3. The Parties will not exchange preexisting Proprietary Data under this Agreement unless authorized herein or in writing by the owner.
4. If the Parties exchange Data having a notice that the Receiving Party deems is ambiguous or unauthorized, the Receiving Party shall tell the Providing Party. If the notice indicates a restriction, the Receiving Party shall protect the Data under this Article unless otherwise directed in writing by the Providing Party.
5. The Data rights herein apply to the employees and Related Entities of Partner. Partner shall ensure that its employees and Related Entity employees that perform activities under this Agreement know about and are bound by the obligations under this Article.
6. Disclaimer of Liability: NASA is not restricted in, or liable for, the use, disclosure, or reproduction of Data without a restrictive notice, or for Data Partner gives, or is required to give, the U.S. Government without restriction.
7. Partner may use the following or a similar restrictive notice:

Proprietary Data Notice

The data herein include Proprietary Data and are restricted under the Data Rights provisions of Space Act Agreement 34786.

Partner should also mark each page containing Proprietary Data with the following or a similar legend: "Proprietary Data – Use And Disclose Only Under the Notice on the Title or Cover Page."

B. Data First Produced by Partner Under this Agreement

If Data first produced by Partner or its Related Entities under this Agreement is given to NASA, and the Data is Proprietary Data, and it includes a restrictive notice, NASA will

use reasonable efforts to protect it. The Data will be disclosed and used (under suitable protective conditions) only for U.S. Government purposes.

C. Data First Produced by NASA Under this Agreement

1. Typically, all Data produced under this Agreement on behalf of NASA will be produced by Caltech under the NASA/Caltech contract to operate JPL. As such, any Data rights or protection not specifically provided to Partner under this Agreement must be negotiated under a separate agreement with the Office of Technology Transfer & Corporate Partnerships at Caltech through the Office of Contracts Management at JPL.

2. Protected Computer Software and Scientific and Technical Articles developed pursuant to this Agreement are the property of Caltech and any use of such Protected Computer Software or Scientific and Technical Articles by Partner other than as authorized by paragraph F. of this Article, or in the Invention and Patent Rights Article of this Agreement, must be negotiated with the Office of Technology Transfer & Corporate Partnerships at Caltech through the Office of Contracts Management at JPL.

D. Publication of Results

The National Aeronautics and Space Act (51 U.S.C. § 20112) requires NASA to provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof. As such, NASA may publish unclassified and non-Proprietary Data resulting from work performed under this Agreement. As such, subject to applicable U.S. Export Control laws, NASA or NASA Related Entities shall have the right to publish the unclassified and non-Proprietary Data resulting from work performed under this Agreement. In accordance with the Invention and Patent Rights Article of this Agreement, reasonable precautions will be taken to safeguard against disclosure of potentially patentable inventions. NASA shall provide Partner a copy of proposed publications no later than upon release for publication.

E. Data Disclosing an Invention

If the Parties exchange Data disclosing an invention for which patent protection is being considered, and the furnishing Party identifies the Data as such when providing it to the Receiving Party, the Receiving Party shall withhold it from public disclosure for a reasonable time in order for patent application filing to be made.

F. Copyright

Data exchanged with a copyright notice and with no restrictive notice is presumed to be published. The following royalty-free licenses apply:

1. If indicated on the Data that it was produced outside of this Agreement, it may be reproduced, distributed, and used to prepare derivative works only for carrying out the Receiving Party's responsibilities under this Agreement.

2. Data without the indication of F.1. is presumed to be first produced under this Agreement. Except as otherwise provided in paragraph E. of this Article, and in the Inventions and Patent Rights Article of this Agreement for protection of reported inventions, the Data may be reproduced, distributed, and used to prepare derivative works for any purpose.

3. If the Data is produced by Caltech under the NASA/Caltech contract to operate JPL and pursuant to this Agreement and is funded in part or in whole by Partner, Partner shall receive a royalty-free, non-exclusive, non-commercial, internal use license from the U.S. Government pursuant to the NASA/Caltech contract to operate JPL. Sublicenses shall not be permitted by Partner. Inquiries regarding commercial or exclusive licenses should be directed to Caltech's Office of Technology Transfer & Corporate Partnerships through the Office of Contracts Management at JPL.

G. Data Subject to Export Control

Whether or not marked, technical Data subject to the export laws and regulations of the United States provided to Partner under this Agreement must not be given to foreign persons or transmitted outside the United States without proper U.S. Government authorization.

H. Handling of Background Data, Third Party Proprietary Data, Controlled Government Data, and Protected Computer Software

1. NASA or Partner (as Disclosing Party) may provide the other Party or its Related Entities (as Receiving Party):

- a. Proprietary Data developed at Disclosing Party's expense outside of this Agreement (referred to as Background Data);
- b. Proprietary Data of third parties that Disclosing Party has agreed to protect or is required to protect under the Trade Secrets Act (18 U.S.C. § 1905) (referred to as Third Party Proprietary Data); and
- c. U.S. Government Data, including software and related Data, Disclosing Party intends to control (referred to as Controlled Government Data).
- d. Protected Computer Software as defined in the Authority and Definitions Article of this Agreement.

2. All Background Data, Third Party Proprietary Data, Controlled Government Data, and Protected Computer Software provided by Disclosing Party to Receiving Party shall be marked by Disclosing Party with a restrictive notice and protected by Receiving Party in accordance with this Article.

3. Disclosing Party provides the following Data to Receiving Party. The lists below may not be comprehensive, are subject to change, and do not supersede any restrictive notice on the Data.

a. Background Data:

The Disclosing Party's Background Data, if any, will be identified in a separate technical document.

b. Third Party Proprietary Data:

The Disclosing Party's Third Party Proprietary Data, if any, will be identified in a separate technical document.

c. Controlled Government Data:

The Disclosing Party's Controlled Government Data, if any, will be identified in a separate technical document.

d. NASA software and related Data will be provided to Partner under a separate Software Usage Agreement (SUA). Partner shall use and protect the related Data in accordance with this Article. Unless the SUA authorizes retention, or Partner enters into a license under 37 C.F.R. Part 404, the related Data shall be disposed of as NASA directs:

e. The Disclosing Party's Related Inventions, if any, will be identified in a separate technical document.

f. Protected Computer Software may be provided under a separate license agreement between Caltech and Partner with the express understanding that Partner will protect such Protected Computer Software in accordance with this Article and use such Protected Computer Software only for carrying out responsibilities under this Agreement. The Parties agree that the following Protected Computer Software may be provided to Partner; the list may not be comprehensive and is subject to change during the course of the work done under the Agreement and is not meant to supersede any restrictive markings which may be on Data provided:

The Disclosing Party's Protected Computer Software, if any, will be identified in a separate technical document.

4. For such Data with a restrictive notice pursuant to H.2. or such Data identified in this Article, Receiving Party shall:

- a. Use, disclose, or reproduce such Data only as necessary under this Agreement;
- b. Safeguard such Data from unauthorized use and disclosure;
- c. Allow access to such Data only to its employees and any Related Entity requiring access under this Agreement;
- d. Except as otherwise indicated in 4.c., preclude disclosure outside Receiving Party's organization;
- e. Notify its employees with access about their obligations under this Article and ensure their compliance, and notify any Related Entity with access about their obligations under this Article; and
- f. Dispose of such Data as Disclosing Party directs.

I. Oral and visual information

If Partner discloses Proprietary Data orally or visually, NASA will have no duty to restrict, or liability for disclosure or use, unless Partner:

1. Orally informs NASA before initial disclosure that the Data is Proprietary Data, and
2. Reduces the Data to tangible form with a restrictive notice and gives it to NASA within ten (10) calendar days after disclosure.

ARTICLE 11. INTELLECTUAL PROPERTY RIGHTS - INVENTION AND PATENT RIGHTS

A. General

1. NASA has determined that 51 U.S.C. § 20135(b) does not apply to this Agreement. Therefore, title to inventions made (conceived or first actually reduced to practice) under this Agreement remain with the respective inventing party(ies). No invention or patent rights are exchanged or granted under this Agreement, except as provided herein.
2. The invention and patent rights herein apply to employees of Partner and employees of Related Entities of Partner. Partner shall ensure that its employees and Related Entity employees know about and are bound by the obligations under this Article.

B. NASA Inventions

NASA will use reasonable efforts to report inventions made under this Agreement by its employees. Upon request, NASA will use reasonable efforts to grant Partner, under 37 C.F.R. Part 404, a negotiated license to any NASA invention made under this Agreement. This license is subject to paragraph E.1. of this Article.

C. NASA Related Entity Inventions

1. NASA will use reasonable efforts to report inventions made under this Agreement by its Related Entity employees, or jointly between NASA employees and Related Entity employees, where NASA has the right to acquire title. Upon request, NASA will use reasonable efforts to grant Partner, under 37 C.F.R. Part 404, a negotiated license to any of these inventions where NASA has acquired title. This license is subject to paragraph E.2. of this Article.
2. For inventions made as a result of activities performed under this Agreement, elected upon by Caltech under the NASA/Caltech contract to operate JPL, and funded in part or in whole by the Partner, reasonable efforts will be made to report such inventions to Partner. Partner shall receive a royalty-free, non-exclusive, non-commercial, internal use license to such inventions. Sublicenses shall not be permitted by Partner. Please refer any request for license rights greater than those provided herein to the Caltech Office of Technology Transfer & Corporate Partnerships through the Commercial Program Office at JPL at (818) 354-3821.

D. Joint Inventions With Partner

The Parties will use reasonable efforts to report, and cooperate in obtaining patent protection on, inventions made jointly between NASA employees, Partner employees, and employees of either Party's Related Entities. Upon timely request, NASA may, at its sole discretion and subject to paragraph E. of this Article:

1. refrain from exercising its undivided interest inconsistently with Partner's commercial business; or
2. use reasonable efforts to grant Partner, under 37 C.F.R. Part 404, an exclusive or partially exclusive negotiated license.

3. For inventions made jointly between employees of Partner and employees of Caltech under the NASA/Caltech contract to operate JPL, Caltech may provide a license as described in paragraph C.2 of this Article.

E. Rights to be Reserved in Partner's License

Any license granted Partner under paragraphs B., C., or D. of this Article is subject to the following:

1. For inventions made solely or jointly by NASA employees, NASA reserves the irrevocable, royalty-free right of the U.S. Government to practice the invention or have it practiced on behalf of the United States or on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.
2. For inventions made solely or jointly by employees of a NASA Related Entity, NASA reserves the rights in 1. above, and a revocable, nonexclusive, royalty-free license retained by the Related Entity under 14 C.F.R. § 1245.108 or 37 C.F.R. § 401.14 (e).
3. For inventions made solely or jointly by employees of Caltech and elected upon by Caltech under the NASA/Caltech contract to operate JPL, Caltech retains ownership rights, subject to the rights reserved by NASA set forth in paragraph E.2. of this Article.

F. Protection of Reported Inventions

For inventions reported under this Article, the Receiving Party shall withhold all invention reports or disclosures from public access for a reasonable time (1 year unless otherwise agreed or unless restricted longer herein) to facilitate establishment of patent rights.

G. Patent Filing Responsibilities and Costs

1. The invention and patent rights herein apply to any patent application or patents covering an invention made under this Agreement. Each Party is responsible for its own costs of obtaining and maintaining patents covering sole inventions of its employees. The Parties may agree otherwise, upon the reporting of any invention (sole or joint) or in any license granted.
2. Partner shall include the following in patent applications for an invention made jointly between NASA employees and/or its Related Entity employees and Partner employees:

The invention described herein may be manufactured and used by or for the U.S. Government for U.S. Government purposes without the payment of royalties thereon or therefore.

H. Related Inventions

1. No preexisting Related Inventions will be exchanged between the Parties under this Agreement unless specifically authorized in this Article or in writing by the owner of the Related Inventions.
2. To the extent NASA Related Invention(s) are known, and to the extent such Related Inventions are available for licensing, NASA may enter into negotiations with Partner for a license to such Related Invention(s) consistent with the requirements of 37 C.F.R. Part 404.
3. For Related Inventions owned by Partner, Partner grants to NASA and NASA Related Entities a non-exclusive, royalty-free license to use the Related Inventions in order to perform under this Agreement. If Partner Related Inventions can be separated from inventions produced under this Agreement, upon completion of activities under this Agreement, such Partner Related Inventions will be returned to Partner and the license to use the Related Inventions herein will expire. If such Partner Related Inventions cannot be separated from inventions produced under this Agreement, the Parties and any Related Entities with an ownership right in such inventions agree to negotiate appropriate licenses for the continued use of Partner Related Inventions.
4. For Related Inventions owned by Caltech, please refer any request for a license to the Caltech Office of Technology Transfer & Corporate Partnerships.
5. The parties agree that the following inventions are Related Inventions which may be used in performance of this Agreement. This list may not be comprehensive and is subject to change during the course of work under this Agreement:

The Disclosing Party's Related Inventions, if any, will be identified in a separate technical document.

ARTICLE 12. USE OF NASA NAME AND NASA EMBLEMS

A. NASA Name and Initials

Partner shall not use "National Aeronautics and Space Administration" or "NASA" in a way that creates the impression that a product or service has the authorization, support, sponsorship, or endorsement of NASA, which does not, in fact, exist. Except for releases under the "Release of General Information to the Public and Media" Article, Partner must submit any proposed public use of the NASA name or initials (including press releases and all promotional and advertising use) to the NASA Associate Administrator for the Office of Communications or designee ("NASA Communications") for review and approval. Approval by NASA Office of Communications shall be based on applicable law and policy governing the use of the NASA name and initials.

B. NASA Emblems

Use of NASA emblems (i.e., NASA Seal, NASA Insignia, NASA logotype, NASA Program Identifiers, and the NASA Flag) is governed by 14 C.F.R. Part 1221. Partner must submit any proposed use of the emblems to NASA Communications for review and approval.

C. Caltech and Related Entity Names, Initials and Emblems

Partner shall similarly not use the names, initials, or emblems of Caltech (including the "California Institute of Technology") or of a NASA Related Entity in any of the ways restricted in paragraph A. of this Article. Prior approval for any such use must be requested from Caltech or the appropriate Related Entity.

ARTICLE 13. RELEASE OF GENERAL INFORMATION TO THE PUBLIC AND MEDIA

NASA or Partner may, consistent with Federal law and this Agreement, release general information regarding its own participation in this Agreement as desired.

Pursuant to Section 841(d) of the NASA Transition Authorization Act of 2017, Public Law 115-10 (the "NTAA"), NASA is obligated to publicly disclose copies of all agreements conducted pursuant to NASA's 51 U.S.C. §20113(e) authority in a searchable format on the NASA website within 60 days after the agreement is signed by the Parties. The Parties acknowledge that a copy of this Agreement will be disclosed, without redactions, in accordance with the NTAA.

ARTICLE 14. DISCLAIMER OF WARRANTY

Goods, services, facilities, or equipment provided by NASA under this Agreement are provided "as is." NASA makes no express or implied warranty as to the condition of any such goods, services, facilities, or equipment, or as to the condition of any research or information generated under this Agreement, or as to any products made or developed under or as a result of this Agreement including as a result of the use of information generated hereunder, or as to the merchantability or fitness for a particular purpose of such research, information, or resulting product, or that the goods, services, facilities or equipment provided will accomplish the intended results or are safe for any purpose including the intended purpose, or that any of the above will not interfere with privately-owned rights of others. Neither the government nor its contractors shall be liable for special, consequential or incidental damages attributed to such equipment, facilities, technical information, or services provided under this Agreement or such research, information, or resulting products made or developed under or as a result of this Agreement.

ARTICLE 15. DISCLAIMER OF ENDORSEMENT

NASA does not endorse or sponsor any commercial product, service, or activity. NASA's participation in this Agreement or provision of goods, services, facilities or equipment under this Agreement does not constitute endorsement by NASA. Partner agrees that nothing in this Agreement will be construed to imply that NASA authorizes, supports, endorses, or sponsors any product or service of Partner resulting from activities conducted under this Agreement, regardless of the fact that such product or service may employ NASA-developed technology.

ARTICLE 16. COMPLIANCE WITH LAWS AND REGULATIONS

A. The Parties shall comply with all applicable laws and regulations including, but not limited to, safety; security; export control; environmental; and suspension and debarment laws and regulations. Access by a Partner to NASA facilities or property, or to a NASA Information Technology (IT) system or application, is contingent upon compliance with NASA security and safety policies and guidelines including, but not limited to, standards on badging, credentials, and facility and IT system/application access.

B. With respect to any export control requirements:

1. The Parties will comply with all U.S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 C.F.R. Parts 120 through 130, and the Export Administration Regulations (EAR), 15 C.F.R. Parts 730 through 799, in performing work under this Agreement or any Annex to this Agreement. In the absence of available license exemptions or exceptions, the Partner shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of hardware, technical data and software, or for the provision of technical assistance.

2. The Partner shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of work under this Agreement or any Annex under this Agreement, including instances where the work is to be performed on-site at NASA and where the foreign person will have access to export-controlled technical data or software.

3. The Partner will be responsible for all regulatory record-keeping requirements associated with the use of licenses and license exemptions or exceptions.

4. The Partner will be responsible for ensuring that the provisions of this Article apply to its Related Entities.

C. With respect to suspension and debarment requirements:

1. The Partner hereby certifies, to the best of its knowledge and belief, that it has complied, and shall comply, with 2 C.F.R. Part 180, Subpart C, as supplemented by 2 C.F.R. Part 1880, Subpart C.

2. The Partner shall include language and requirements equivalent to those set forth in subparagraph C.1., above, in any lower-tier covered transaction entered into under this Agreement.

ARTICLE 17. TERM OF AGREEMENT

This Agreement becomes effective upon the date of the last signature below ("Effective Date") and shall remain in effect until the completion of all obligations of both Parties hereto, or three years from the Effective Date, whichever comes first.

ARTICLE 18. RIGHT TO TERMINATE

Either Party may unilaterally terminate this Agreement by providing thirty (30) calendar days written notice to the other Party. In the event of such termination, Partner will be obligated to reimburse NASA for all costs for which the Partner was responsible and that have been incurred in support of this Agreement up to the date the termination notice is received by NASA. Where Partner terminates this Agreement, Partner will also be responsible for termination costs.

ARTICLE 19. CONTINUING OBLIGATIONS

The rights and obligations of the Parties that, by their nature, would continue beyond the expiration or termination of this Agreement, e.g., "Liability and Risk of Loss", "Intellectual Property Rights"-related clauses, and "Financial Obligations" shall survive such expiration or termination of this Agreement.

ARTICLE 20. POINTS OF CONTACT

The following personnel are designated as the Points of Contact between the Parties in the performance of this Agreement.

Management Points of Contact

NASA Jet Propulsion Laboratory
Garth Franklin
Group Supervisor, Tracking Systems and
Application
4800 Oak Grove Drive
Pasadena, CA 91109
Phone: 8183543024
franklin@jpl.nasa.gov

Moog Inc.
Moog BroadReach
Kent Carver
GPS Receiver Product Line Manager
2228 W Guadalupe Rd
Gilbert, AZ 85233-2806
Phone: (602) 572-2647
kcarver@moog.com

Business/Administrative Points of Contact

NASA Jet Propulsion Laboratory
Nar Nazari
Contracting Officer
Mail Suite: 180-802L
4800 Oak Grove Drive
Pasadena, CA 91109

Moog Inc.
Moog BroadReach
Scott Ratay
Business Section Space Head
2228 W Guadalupe Rd
Gilbert, AZ 85233-2806

ARTICLE 21. DISPUTE RESOLUTION

Except as otherwise provided in the Article entitled "Priority of Use," the Article entitled "Intellectual Property Rights – Invention and Patent Rights" (for those activities governed by 37 C.F.R. Part 404), and those situations where a pre-existing statutory or regulatory system exists (e.g., under the Freedom of Information Act, 5 U.S.C. § 552), all disputes concerning questions of fact or law arising under this Agreement shall be referred by the claimant in writing to the appropriate person identified in this Agreement as the "Points of Contact." The persons identified as the "Points of Contact" for NASA and the Partner will consult and attempt to resolve all issues arising from the implementation of this Agreement. If they are unable to come to agreement on any issue, the dispute will be referred to the signatories to this Agreement, or their designees, for joint resolution. If the Parties remain unable to resolve the dispute, then the NASA signatory or that person's designee, as applicable, will issue a written decision that will be the final agency decision for the purpose of judicial review. Nothing in this Article limits or prevents either Party from pursuing any other right or remedy available by law upon the issuance of the final agency decision.

ARTICLE 22. MODIFICATIONS

Any modification to this Agreement shall be executed, in writing, and signed by an authorized representative of NASA and the Partner.

ARTICLE 23. ASSIGNMENT

Neither this Agreement nor any interest arising under it will be assigned by the Partner or NASA without the express written consent of the officials executing, or successors, or higher-level officials possessing original or delegated authority to execute this Agreement.

ARTICLE 24. APPLICABLE LAW

U.S. Federal law governs this Agreement for all purposes, including, but not limited to, determining the validity of the Agreement, the meaning of its provisions, and the rights, obligations and remedies of the Parties.

ARTICLE 25. INDEPENDENT RELATIONSHIP

This Agreement is not intended to constitute, create, give effect to or otherwise recognize a joint venture, partnership, or formal business organization, or agency agreement of any kind, and the rights and obligations of the Parties shall be only those expressly set forth herein.

ARTICLE 26. LOAN OF GOVERNMENT PROPERTY

The Parties shall enter into a NASA Form 893, Loan of NASA Equipment, for NASA equipment loaned to Partner.

ARTICLE 27. SIGNATORY AUTHORITY

The signatories to this Agreement covenant and warrant that they have authority to execute this Agreement. By signing below, the undersigned agrees to the above terms and conditions.

NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION

MOOG INC.
MOOG BROADREACH

BY: _____
Nar R. Nazari
Contracting Officer, NMO

BY: _____
Gary Felix
Contracts and Legal Counsel

DATE: _____

DATE: 10/20/21