ANNEX NO. 3 BETWEEN

THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GLENN RESEARCH CENTER

AND

BLUE ORIGIN, LLC UNDER SPACE ACT UMBRELLA AGREEMENT NO. SAA3-1609, PAM NO. 28171

ARTICLE 1. PURPOSE

Annex No. 3 ("Annex") shall be for the purpose of NASA GRC conducting a fuel cell stack performance evaluation of a Blue Origin provided fuel cell stack hardware. This activity is consistent with NASA's mission to maintain its expertise and leadership in power, energy storage, and conversion and to accelerate the testing of critical fuel cell power technology for emerging space system capabilities and advance commercial space-related efforts.

The legal authority for this Annex, consistent with the Umbrella Agreement, is in accordance with the Space Act, Other Transactions Authority (OTA), 51 U.S.C. § 20113(e).

ARTICLE 2. RESPONSIBILITIES

A. NASA GRC will use reasonable efforts to:

- 1. Develop a test plan to evaluate the fuel cell stack performance (the "Test Plan").
- 2. Prepare test facility to conduct the test.
- 3. Conduct a Test Readiness Review.
- 4. Execute the Test Plan, nominally 24 test days over 2 calendar months (~3 test days/week).
- 5. Analyze test results.
- 6. Provide a technical assessment of the test results in the form of a presentation and written report.
- 7. Coordinate shipment of test article to Blue Origin.
- B. Blue Origin will use reasonable efforts to:
- 1. Provide NASA GRC fuel cell stack hardware with supporting documentation.
- 2. Support the development of the Test Plan and Test Readiness Review.
- 3. Provide on-site or off-site troubleshooting support, as needed.

ARTICLE 3. SCHEDULE AND MILESTONES

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

1. Blue Origin to provide NASA GRC with fuel cell stack hardware with supporting testing documentation. Approximately one (1) week after Effective Date.

2. NASA GRC to conduct Test Readiness Review prior to Approximately two (2) initiating fuel cell stack testing. weeks after completion of Milestone 1.

3. NASA GRC to provide the fuel cell stack technical assessment.

Approximately three (3) months after completion of Milestone 2.

4. NASA GRC to coordinate shipment of the test article to Blue Origin.

Approximately two (2) weeks after completion of Milestone 3.

ARTICLE 4. FINANCIAL OBLIGATIONS

A. Partner agrees to reimburse NASA an estimated cost of \$413,467.00 for NASA to carry out its responsibilities under this Annex. Payment shall be marked with NASA Glenn Research Center, SAA3-1609, Annex No. 3.

B. NASA will not provide services or incur costs beyond the current funding. 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 Annex will be accomplished for the 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 have the option of canceling the remaining effort, or providing additional funding in order to continue the proposed effort under the revised estimate. Should this Annex be terminated, or the effort completed at a cost less than the agreed-to estimated cost, NASA shall account for any unspent funds within one (1) year after completion of all effort under this Annex, and promptly thereafter, at Partner's option return any unspent funds to Partner or apply any such unspent funds to other activities under the Umbrella Agreement. Return of unspent funds will be processed via Electronic Funds Transfer (EFT) in accordance with 31 C.F.R. Part 208 and, upon request by NASA, Partner agrees to complete the Automated Clearing House (ACH) Vendor/Miscellaneous Payment Enrollment Form (SF 3881).

ARTICLE 5. INTELLECTUAL PROPERTY RIGHTS - DATA RIGHTS

- A. Data produced under this Annex which is subject to paragraph C. of the Intellectual Property Rights Data Rights Article of the Umbrella Agreement will be protected for the period of two (2) years.
- B. Under paragraph H. of the Intellectual Property Rights Data Rights Article of the Umbrella Agreement, 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 provided.
- Background Data:
 The Disclosing Party's Background Data, if any, will be identified in a separate technical document.
- 2. Third Party Proprietary Data:
 The Disclosing Party's Third Party Proprietary Data, if any, will be identified in a separate technical document.
- 3. Controlled Government Data:
 The Disclosing Party's Controlled Government Data, if any, will be identified in a separate technical document.
- 4. The following software and related Data will be provided to Partner under a separate Software Usage Agreement: None.

ARTICLE 6. TERM OF ANNEX

This Annex 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 one (1) year from the Effective Date, whichever comes first, unless such term exceeds the duration of the Umbrella Agreement. The term of this Annex shall not exceed the term of the Umbrella Agreement. The Annex automatically expires upon the expiration of the Umbrella Agreement.

ARTICLE 7. RIGHT TO TERMINATE

Either Party may unilaterally terminate this Annex by providing thirty (30) calendar days written notice to the other Party.

ARTICLE 8. POINTS OF CONTACT

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

Management Points of Contact

NASA
Kyle Phillips
BLUE ORIGIN, LLC
Jessica Curry

Facility Manager
Sr. Manager, Subcontracts
Mail Stop: 6-8
21000 Brookpark Road
Cleveland, OH 44135

Sr. Manager, Subcontracts
21218 76th Avenue S
Kent, WA 98032-2442
Phone: 409-218-7009

Phone: 216-433-8871 jcurry2@blueorigin.com

kyle.g.phillips@nasa.gov

Technical Points of Contact

NASA BLUE ORIGIN, LLC

Ian Jakupca Craig Smugeresky

Fuel Cell Technology Lead Principal Technologist, Aerospace Power &

Mail Stop: 309-1 Energy

21000 Brookpark Road 21218 76th Avenue S Cleveland, OH 44135 Kent, WA 98032-2442

Phone: 216-433-3853 Phone: 253.437.9300 ext. 10621 ian.j.jakupca@nasa.gov csmugeresky@blueorigin.com

ARTICLE 9. MODIFICATIONS

Any modification to this Annex shall be executed, in writing, and signed by an authorized representative of NASA and the Partner. Modification of an Annex does not modify the terms of the Umbrella Agreement.

ARTICLE 10. SIGNATORY AUTHORITY

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

NATIONAL AERONAUTICS AND	BLUE ORIGIN, LLC
SPACE ADMINISTRATION	
GLENN RESEARCH CENTER	

GEETTI RESEARCH CETTER		
BY:	BY: Jessica Curry Jessica Curry Sr. Manager, Subcontracts	
DATE:	DATE: 4/21/23	