

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 24 PAGES		
2. AMENDMENT/MODIFICATION NUMBER 0352		3. EFFECTIVE DATE See Block 16c		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Brookhaven Site Office U.S. Department of Energy 53 Bell Avenue, Building 464 Upton, NY 11973		CODE 892430		7. ADMINISTERED BY (If other than Item 6) Brookhaven Site Office U.S. Department of Energy 53 Bell Avenue, Building 464 Upton, NY 11973		CODE 06005	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) Brookhaven Science Associates, LLC Atten: Janine Mehlinger Brookhaven National Laboratory Building 460, PO Box 5000 Upton, NY 11973-5000				(X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				☐		9B. DATED (SEE ITEM 11)	
				(X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER DE-SC0012704	
				(X)		10B. DATED (SEE ITEM 13) 12/22/2014	
CODE				FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
N/A

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
☐	
☐	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
☐	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
☒	D. OTHER (Specify type of modification and authority) FAR 43.103(b)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return 0 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

UEI: R85KZ9JP3NM3
Payment - Direct Payment
from U.S. Dept of Treasury

The purpose of this modification is issued to update Part I - Section H, Special Contract Requirements, and Part III - Section J - Appendix I as set forth on the pages attached to the unilateral signed SF-30 document. Period of Performance 01/05/2015 to 01/04/2030.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Romaine Howard-McKellar	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ROMAYNE HOWARD-MCKELLAR Digitally signed by ROMAYNE HOWARD-MCKELLAR Date: 2026.08.18 09:26:00 -04'00'	16C. DATE SIGNED August 18, 2026
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

14. DESCRIPTION OF AMENDMENT/MODIFICATION continued.

A. This modification is issued to update the following contract sections:

Contract Sections:

- (a) Part I – Special Contract Requirements, *TOC: Section H clauses has been revised; update the prior version with the updated attachment provided herein:*
 - H.52 – Contractor’s Obligations Regarding Funding Opportunity Announcement DE-FOA-0003612 Genesis Mission (Jul 2026)
- (b) Part III – List of Documents, Exhibits, Attachments: *Section J Appendices has been revised; replace the prior version with the updated attachment provided herein:*
 - Appendix I – DOE Directives/List B

B. Table of Changes**Part I – Section H – Special Contract Requirements:***The title clause shown below is accurate post-modification:*

Clause No.	Title	Change & Explanation
H.52	Contractor's Obligations Regarding Funding Opportunity Announcement DE-FOA-0003612 Genesis Mission (Jul 2026)	Update: a. Revised to update Section IV. Communication list of Laboratory Awardees and DOE Technical Representatives point of contacts. Source: In accordance with the SPE Direction Letter document, the Genesis Mission H Clause

PART III – SECTION J – LIST OF DOCUMENTS, EXHIBITS, ATTACHMENTS

Clause No.	Title	Change & Explanation
Appendix I	DOE Directives/List B	Remove: DOE O 150.1B Superseded by: DOE O 150.1C Remove: DOE O 151.1E Superseded by: DOE O 151.1F Remove: DOE O 153.1A Superseded by: DOE O 153.1B Remove: DOE O 210.2A Superseded by: DOE O 210.2B Remove: DOE O 227.1A Superseded by: DOE O 227.1B Remove: DOE O 231.1B Chg. 1 Remove: DOE O 232.2A Chg. 1 Remove: DOE O 241.1C Superseded by: DOE O 241.1D Remove: DOE O 243.1C Superseded by: DOE O 243.1D Remove: DOE O 252.1A Chg. 2 Remove: DOE O 341.1A Parts: 1.(a-b) 2.a(1-3) 2.a(4)(a-h) Superseded by: DOE O 341.1B

		Remove: DOE O 350.1 Chg. 7 Superseded by: DOE O 350.1A Remove: DOE O 410.2 Chg. 1 Superseded by: DOE O 410.2A Remove: DOE O 411.2 Superseded by: DOE O 411.2A Remove: DOE O 413.2C Superseded by: DOE O 413.2D Remove: DOE O 413.3B Superseded by: DOE O 413.3C Remove: DOE O 414.1E Superseded by: DOE O 414.1F Remove: DOE O 420.1C Chg. 3 Superseded by: DOE O 420.1D Remove: DOE O 420.2D Superseded by: DOE O 420.2E Remove: DOE O 422.1 Chg. 4 Superseded by: DOE O 422.1A Remove: DOE O 425.1D Chg. 2 Remove: DOE O 426.2A Chg. 1 Superseded by: DOE O 426.2B Remove: DOE O 433.1B Chg. 1 Superseded by: DOE O 433.1C Remove: DOE O 437.1A Superseded by: DOE O 437.1B Remove: DOE O 440.2C Chg. 3 Superseded by: DOE O 440.2D Remove: DOE O 442.2 Chg. 1 Remove: DOE O 443.1C Chg. 1 Superseded by: DOE O 443.1D Remove: DOE O 452.8 Superseded by: DOE O 452.8A Remove: DOE O 456.1A Superseded by: DOE O 456.1B
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		Add New: DOE O 130.1B Remove: DOE O 460.2B Superseded by: DOE O 460.2C Add New: DOE O 470.7 Remove: DOE O 470.1A Remove: DOE O 471.1B Remove: DOE O 471.6 Chg.4 Remove: DOE O 471.7 Remove: DOE O 473.1A Remove: DOE O 473.2A Remove: DOE O 474.2A Chg. 1 Remove: DOE O 481.1E Chg. 2 Superseded by: DOE O 481.1F Remove: DOE O 483.1B Chg. 3 Superseded by: DOE O 483.1C Remove: DOE O 484.1 Chg. 4 Superseded by: DOE O 484.1A Remove: DOE O 520.1B Chg. 2 Superseded by: DOE O 520.1C Remove: DOE O 522.1A Chg. 1 Superseded by: DOE O 522.1B Remove: DOE O 550.1 Chg. 1 Superseded by: DOE O 550.1A Explanation: In accordance with Project Velocity email containing attachment Memorandum dated August 13, 2026, from Derek Passarelli, titled "Incorporation of List of Directives into National Laboratory and Site Contracts".
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C. All other Terms and Conditions remain unchanged.

END OF MODIFICATION

**CLAUSE H.52 – CONTRACTOR’S OBLIGATIONS REGARDING FUNDING
OPPORTUNITY ANNOUNCEMENT DE-FOA-0003612 GENESIS MISSION (JULY
2026)**

The following requirements are applicable to all National Laboratory Awardees and Subawardees for the purposes of executing duly authorized work resulting from Funding Opportunity Announcement DE-FOA-0003612 only (these requirements do not apply to any other aspect of prime contract performance).

The National Laboratory Awardee is responsible for ensuring inclusion of these requirements into all subcontracts/agreements with Subawardees.

The following flow downs must be suitably modified to correctly identify the parties.

Section I. Data Rights

The Laboratory’s Rights in Data clause (e.g. 48 CFR § 970.5227-2) and any rights described in a DOE approved Bridge Agreement (using CRADA authority) (the “Agreement”) shall apply to the Laboratory for all work performed under DE-FOA-0003612, unless otherwise directed by Patent Counsel. Notwithstanding the foregoing, the Limited Rights Notice listed below and incorporated in a Laboratory subcontract must be used in lieu of the notice provided in 48 CFR § 970.5227-2(h), unless otherwise approved by Patent Counsel; additionally, any notice approved by DOE/NSA in a Bridge Agreement or corresponding data use agreement may be used by the Laboratory as authorized therein.

For subcontractors, Patent Counsel hereby directs one of the following Rights in Data clauses suitably modified to identify the parties to be included in any subcontract under DE-FOA-0003612. These clauses are consistent with the Laboratory’s Rights in data-technology transfer clause (See 48 CFR § 970.5227-2(g)(1)). Any questions should be directed at the Laboratory patent counsel who should coordinate with the cognizant Patent Counsel as necessary.

For projects including open research, the following data clause must be used suitably modified to identify the parties. Additionally, a Bridge Agreement – OPEN must be executed.

[BEGIN OPEN DATA CLAUSE]

Open Data Rights Clause

(a) The Awardee:

- (1) shall have the right to establish claim to copyright subsisting in any Data first produced in the performance of this Agreement, without the prior approval of the DOE/NSA.

- (2) shall ensure that all Data it provides or delivers under this Agreement are accompanied by rights and permissions sufficient to allow the Government and other Project participants to use such Data as required by this Agreement, including any rights necessary for reproduction, derivative works, distribution, public performance, and public display.
- (3) shall negotiate and execute a Bridge Agreement including the allocation of data rights comprising at least a requirement herein, unless otherwise approved by DOE/NNSA.

(b) The Government shall:

- (1) have Unlimited Rights in all delivered Data.
- (2) at its sole discretion, disregard and remove any protective markings on any Data delivered. However, the Awardee shall be provided with at least 30 days to redeliver such data with corrected markings.
- (3) have a paid-up nonexclusive, irrevocable, worldwide license to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government, for all Data delivered.

(c) Publication Clause

- a. Awardee is encouraged to publish or otherwise make publicly available the results of the work conducted under the award.
- b. An acknowledgment of Federal support and a disclaimer must appear in the publication of any material, whether copyrighted or not, based on or developed under this project, as follows:

Acknowledgment: "This material is based upon work supported by the Department of Energy under Award Number(s) [Enter the award number(s)]."

Disclaimer: "This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof."

- c. Subject to this Agreement, either party may release general information regarding activities conducted under this award. Awardee, however, shall not issue any press release resulting from activities conducted under this Agreement without DOE/NNSA approval, which shall not be unreasonably withheld or delayed.
- d. The terms and conditions of this clause shall survive this Agreement.

[END OPEN DATA CLAUSE]

For other projects, the following data clause must be used suitably modified to identify the parties. The protection period in (b)(2) may be up to 5 years, unless otherwise authorized by DOE/NNSA. Additionally, a Bridge Agreement that does not use the "OPEN" template needs to be executed with a Data Use Agreement (DUA).

[BEGIN PROPRIETARY DATA CLAUSE]

Data Rights

(a) Definitions

- (1) Limited rights Data, as used in this clause, means data (other than computer software) developed at private expense and first produced outside the performance of this agreement that embody trade secrets or are commercial or financial and confidential or privileged.
- (2) Restricted Computer Software, as used in this clause, means computer software developed at private expense and that is a trade secret; is commercial or financial and confidential or privileged; or is published copyrighted computer software; including modifications of such computer software.

(b) The Awardee shall:

- (1) have the right to protect the Limited Rights Data with the following notice.

Limited Rights Notice

- (a) These data are submitted with limited rights under Government agreement No. (and subaward/ contract No.). These data may be reproduced and used by the Government with the express limitation that they will not, without written permission of the Awardee, be used or disclosed outside the Government; except that the Government may disclose these data outside the Government for the following purposes, provided that the Government makes such disclosure subject to prohibition against further use and disclosure:
 - (i) Use by Federal support services contractors within the scope of their contracts, including, but not limited to, DOE/NNSA laboratories, plants, and sites; or
 - (ii) for evaluation purposes to DOE/NNSA laboratories, plants, and sites, and non-profit research institutions.
- (b) This Notice shall be marked on any reproduction of this data, in whole or in part.

(End of notice)

- (2) have the right to protect Curated Data and Model Data developed in the performance of work under the Bridge Agreement (under the authority of 15 USC 3710a) consistent with 15 USC 3710a(c)(7)(B) with the following notice.

Protected Rights Notice

These protected data were produced under agreement no. (INSERT BRIDGE AGREEMENT NUMBER) *between (INSERT THE SUBCONTRACTOR NAME) and (INSERT THE LABORATORY NAME) operated for the Government* by (Inserted Contractor Operator) under Contract no. _____ and may not be published, disseminated, or disclosed to others outside the Government or its contractors until [Insert term authorized by DOE/NNSA] years after the date the data were first produced except for: (1) evaluation of work under the restriction that this data will be retained in confidence and not be further disclosed or (2) disclosure to a DOE/NNSA contractor under the restriction that this data will be retained in confidence and not be further disclosed, unless express written authorization is obtained from the Awardee. Upon expiration of the period of protection set forth in this Notice, the Government shall have unlimited rights in this data. This Notice shall be marked on any reproduction of this data, in whole or in part.
(End of notice)

- (3) Have the right to establish claim to copyright subsisting in any Data first produced in the performance of this Agreement, without the prior approval of the DOE.
- (4) Obtain all Data and rights therein necessary to fulfill its obligations to the Government under this Agreement.
- (5) Negotiate and execute a Bridge Agreement including the allocation of data rights comprising at least the following elements before beginning work under this agreement, unless otherwise approved by DOE/NNSA:
- (i) RESERVED
 - (ii) Each party shall ensure that any Data it provides under this Agreement is accompanied by the rights and permissions necessary for use as required by this Agreement and shall provide data source or license documentation upon request.
 - (iii) The protection of any data shared amongst the parties consistent with this Agreement, including any Appendices.
 - (iv) Allocation of rights in AI Artifacts generated in the performance of work under this Agreement.
- (c) The Government shall:
- (1) Have unlimited rights in all delivered Data not having a protective marking authorized by (b)(1) and (b)(2) of this Clause.

- (2) At its sole discretion, disclose any delivered Data for use solely in the evaluation of work under this Agreement under the restriction that any Data provided with the above Protected Rights Notice will be retained in confidence and not be further disclosed.
- (3) At its sole discretion, disregard and remove any protective markings not authorized by (b)(1) and (b)(2) of this Clause. However, the Awardee shall be provided with at least 30 days to redeliver such data with corrected markings.
- (4) At its sole discretion, disregard and remove any protective markings on Data delivered:
 - (i) at the end of the protection period;
 - (ii) upon breach of Section (d) entitled "Access Restrictions and Limited U.S. First Deployment";
 - (iii) if the data becomes publicly known or available from other sources; or
 - (iv) if the Awardee disseminates or authorizes DOE/NNSA or another to disseminate such data without obligations of confidentiality.
- (5) Have a paid-up nonexclusive, irrevocable, worldwide license to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government, for all Data delivered. Notwithstanding the foregoing, Data properly marked with the above Protected Notice shall be prohibited from disclosure outside the Government as required by the Protected Rights Notice.

(d) Access Restrictions and Limited U.S. First Deployment

(1) Definitions

- (i) "AI Artifact" shall mean any dataset, code, scripts, pipelines, models (including architectures, parameters, and weights), prompts, outputs, documentation, metadata, test/evaluation suites, synthetic data, and system/model/data cards created, used, or improved under the Bridge Agreement.
- (ii) "Data" shall mean recorded information, regardless of form or the media on which it may be recorded, including Technical Data. The term does not include information incidental to this Agreement administration, such as financial, administrative, cost or pricing or management information.
- (iii) "Foreign Country of Concern" shall mean the People's Republic of China, the Russian Federation, the Democratic People's Republic of Korea, the Islamic Republic of Iran, and Belarus, or any other country determined to be a foreign country of concern by the Secretary of State, and including countries of risk designated by DOE. This list is subject to change. DOE reserves the right, in the exercise of its absolute discretion, to add or subtract any foreign country determined to be of risk consistent with DOE policies by a unilateral amendment to this Agreement.
- (iv) "Foreign Entity" shall mean any corporation, business association, partnership, trust, society, or any other entity or group that is not incorporated or organized to do business in the United States, as well as international organizations, foreign governments and any agency or subdivision of foreign governments including state-owned enterprises. The term "Foreign Countries of Concern"

and “Foreign National” are separate terms and not necessarily covered under the definition of a Foreign Entity although “Foreign Countries of Concern” are also “Foreign Entities”.

- (v) “Foreign National” shall mean any individual other than a U.S. citizen.
- (vi) “Government” shall mean the Federal government of the United States of America including its agencies and departments.
- (vii) “Intellectual Property” shall mean any and all subject inventions, copyrights, and trademarks developed by an Awardee.
- (viii) “Non-Public Data” shall mean Data that has not been publicly distributed to others without restriction on further dissemination. Specifically excluded from this definition is data shared at a conference, public talk or other public forum if the data shared is shared without restriction on further dissemination.
- (ix) “Bridge Agreement” means an agreement between the Awardee and their partners/collaborators in the performance of the Milestones, which is intended to address all data rights, including allocation of rights to AI Artifacts. The Bridge Agreement includes agreements with DOE/NNSA contractors, preferably using the preapproved AI BRIDGE AGREEMENT containing a Data Use Agreement (DUA) template.
- (x) “AI Artifact” shall mean AI Artifacts developed in performance of the Milestones, including a Bridge Agreement.

(2) **Access and Transfer Prohibition.** Awardee agrees not to provide or allow others to provide access to any Non-Public Data or to license, assign or otherwise transfer any rights in Intellectual Property or Non-Public Data generated under this Agreement, at any tier, to entities with foreign ownership, interest, or control by a government or entity subject to the jurisdiction of a Foreign Country of Concern, without DOE/NNSA’s prior written approval. Any failure to comply with this provision will be a breach of this Agreement and subject to available remedies for noncompliance. Specifically excluded from this restriction is a royalty free grant of a non-exclusive license of intellectual property to the general public (e.g. an open-source license or public domain).

(3) **U.S. First Deployment.** For a period of two years from the completion or termination of this Agreement with DOE/NNSA, the Awardee agrees not to provide or allow others to provide access to any Non-Public Data or to license, assign or otherwise transfer any rights in Intellectual Property or Non-Public Data generated under this Agreement, at any tier, to entities with foreign ownership, interest, or control by a government or entity not subject to the jurisdiction of the United States of America, without DOE/NNSA’s prior written approval. Specifically excluded from this restriction is a royalty free grant of a non-exclusive license of Intellectual Property or Non-Public Data to the general public (e.g. an open-source license or public domain). Any failure to comply with this provision will be a breach of this Agreement and subject to available remedies for noncompliance.

(4) **Immediate Access Termination.** Any access or transfer of rights in violation of the above terms shall be immediately null and void. In the event of any rights holder’s

bankruptcy or related financial proceeding, insolvency, or other material financial distress that, in the sole judgment of DOE/NNSA, creates an unmanageable risk of unauthorized transfer or disclosure of Intellectual Property and/or Non-Public Data to a Foreign Country of Concern, all rights granted or access provided shall terminate immediately, and the Awardee shall take all necessary steps to secure and prevent further dissemination of such Intellectual Property and/or Non-Public Data.

- (5) The Awardee shall include this clause, suitably modified to identify the parties, in all subawards/contracts, regardless of tier, that may include the exchange of Non-Public Data.

(e) The terms and conditions of this clause shall survive this Agreement.

[END PROPRIETARY DATA CLAUSE]

Section II. Research, Technology and Economic Security (RTES)

(1) Foreign Entity Participation

A Foreign Entity is not eligible to participate as either an Awardee or Subawardee. In limited circumstances the Laboratory may request a waiver from DOE/NNSA to allow a foreign entity to participate, through the Contracting Officer (CO).

(2) Prohibition on Incorporation in or Ownership or Control by Foreign Countries of Concern

Throughout the life of the Agreement, the Awardee, parent company, Subawardees, and project team members shall not be solely incorporated in, or owned or controlled by, or subject to the direction of a Foreign Country of Concern. If there is a change in ownership or control that increases foreign ownership or control by Foreign Country of Concern or a change that effectively makes the entity subject to the direction of a Foreign Country of Concern, the Awardee must immediately alert the CO.

(3) Entity of Concern Prohibition

No Entity of Concern as defined in [Section 10114 of Public Law 117-167 \(42 USC 18912\)](#) may participate in the performance of the Milestones.

(4) Malign Foreign Talent Recruitment Program Prohibition

Individuals participating in a Malign Foreign Talent Recruitment Program, as

defined in Section 10638(4) of P.L. 117-167 (42 USC 19237(4), 19232), are prohibited from participating in the performance of the Milestones.

(5) Due Diligence Reviews and Disclosures

The Agreement is subject to a post-selection and ongoing research, technology, and economic security risk review and monitoring to identify potential risks of undue foreign influence. As part of the review, the Awardee must cooperate with DOE/NNSA requests for information, including the following required disclosures and certifications for all covered individuals listed on the application and entities which must be updated within fifteen (15) business days of any changes except advanced notice to DOE/NNSA must be given for changes relating to a Foreign Country of Concern: DOE [Common Form for Current and Pending \(Other\) Support](#) (42 USC 6605) including a Malign Foreign Talent Recruitment Program certification (see RFA), DOE Common Form for Biosketch (NSPM-33), and Transparency of Foreign Connections Transparency of Foreign Connections | Department of Energy (NSPM-33). New covered individuals listed on the application and entities added during the term of the Agreement must provide the disclosures above and receive DOE approval before participating. All information provided must be inclusive of the Subawardees. DOE/NNSA may share information regarding the risks identified as part of the RTES due diligence review process or monitoring with other Federal agencies.

In the event an RTES risk is identified, or the required disclosures, certifications, or updates, are not submitted, or there is non-compliance with any provision of this Section, DOE/NNSA may require risk mitigation measures, including but not limited to, requiring that an individual or entity not participate in the performance of the Milestones, or implementing other controls such as data access restrictions, enhanced monitoring, or project scope adjustments, as determined necessary by DOE/NNSA to safeguard national security and economic interests. If significant risks are identified and cannot be sufficiently mitigated, DOE/NNSA may withhold Payment or terminate the Agreement.

DOE/NNSA decision regarding a due diligence review is not appealable.

(6) Performance of Work in the United States

All work performed under DOE agreements must be performed in the United States unless the DOE CO grants a written waiver. This requirement does not apply to the purchase of supplies and equipment; however, the Awardee and Subawardees should make every effort to purchase supplies and equipment within the United States. The Awardee must flow down this requirement to its Subawardees and subcontractors. The Awardee is responsible should any work under this agreement be performed outside the United States, absent a waiver, regardless if the work is performed by the

Awardee, Subawardees, subcontractors or other project partners. There may be limited circumstances where it is in the interest of the project to perform a portion of the work outside the United States. To seek a waiver of the Performance of Work in the United States requirement, the Awardee must submit a written waiver request to the DOE/NNSA CO.

(7) Notice Regarding the Purchase of American-Made Equipment and Products – Sense of Congress

It is the sense of the Congress that, to the greatest extent practicable, all equipment and products purchased with funds made available under this agreement should be American-made.

(8) Conflicts of Interest

The Awardee shall adopt and maintain a conflict of interest policy under this Agreement, which shall be provided to DOE/NNSA upon request. This conflict of interest policy shall address both individual conflicts of interest as related to Key Personnel and Organizational Conflicts of Interest, including but not limited to financial conflicts of interest (FCOI) (i.e., managed and unmanaged/unmanageable).

The Awardee shall disclose in writing to the DOE/NNSA CO any potential or actual Conflict of Interest as soon as reasonably practical after discovery thereof. The Awardee and the DOE/NNSA shall jointly develop a mitigation plan to address Conflicts of Interest as they arise.

(9) Annual List of Personnel

The Awardee shall submit an updated list of all personnel working on the project on an annual basis to the DOE/NNSA CO, including all Subawardees.

Section IV. Communication

- A. Administration. Unless otherwise provided in this Agreement, approvals permitted or required to be made by DOE/NNSA, or any other document that binds the government, may be made on by the DOE/NNSA CO. Contractual matters under this agreement shall be referred to the following representatives of the Parties:

DOE/NNSA Contracting Officer: Romaine Howard-McKellar, (631) 344-3842,
Email: Romaine.Howard-McKellar@doe.gov

Patent Counsel: Andrew Choi, (301) 363-0610, Email: Andrew.Choi@doe.gov

Laboratory Awardee Point of Contacts:

Proposal Id	Point of Contact	Phone	Email
297667	Alexei Klimentov	(631) 344-7855	aak@bnl.gov
295805	Arthur Sedlacek	(631) 344-2404	sedlacek@bnl.gov
296646	Yihui Ren	(631) 344-4638	yren@bnl.gov
296669	Gabriella Carini	(631) 344-3004	carini@bnl.gov
296669	Raman Kumar	(217) 979-0249	rkumar@bnl.gov
296893	Soumyajit Mandal	(631) 344-5836	smandal@bnl.gov
297659	David Park	(631)344-6152	dpark1@bnl.gov
294964	Kevin Brown	(631) 344-4409	brownk@bnl.gov

- B. Technical and Milestone Deliverables. Technical matters and milestone deliverable matters under this Agreement shall be referred to the following representative:

DOE Technical Representatives:

Proposal Id	Point of Contact	Phone	Email
297667	Cheuk Kwok	(631) 344-2402	Cheuk.Kwok@doe.gov
295805	Daniel Rachal	(631) 344-3479	Daniel.Rachal@doe.gov
296646	Lin Shi	(631) 344-5225	Lin.Shi@doe.gov
296669	Cheuk Kwok	(631) 344-2402	Cheuk.Kwok@doe.gov
296893	Lin Shi	(631) 344-5225	Lin.Shi@doe.gov
297659	Cheuk Kwok	(631) 344-2402	Cheuk.Kwok@doe.gov
294964	Tim Alba	(631) 344-7439	Timothy.Alba@doe.gov

- C. Change of Designated Representative. Each party may change its representative named in this Article by written notification to the other parties.

Section V. Termination

The Department of Energy reserves the right to terminate this award. In the event of any termination of the award made under DE-FOA-0003612, DOE/NNSA reserves the right to unilaterally withhold funding not yet distributed pursuant to the Milestones outlined in the Work Authorization. Mutual termination does not impose any requirements that DOE/NNSA pay in whole or part for milestones not achieved.

In the event of any termination by DOE/NNSA, neither DOE/NNSA nor the Awardee/Subawardee shall be liable for any loss of profits, revenue, or any indirect or consequential damages incurred by the other Party, its contractors,

subcontractors, or customers as a result of any termination of this Agreement. DOE/NNSA's or the Awardee's liability for any damages under the Agreement is limited solely to direct damages, incurred by the other Party, as a result of any termination of this Agreement subject to mitigation of such damages by the complaining party. However, in no instance shall DOE/NNSA's liability for termination exceed the total amount due under the milestone towards which the Awardee/Subawardee is currently working under this Agreement.

Section VI. Defined Terms

In addition to terms defined in other provisions of this Agreement, the terms and phrases as defined below, when used herein as the defined term shall have the following meanings:

"AI Artifact" shall mean any dataset, code, scripts, pipelines, models (including architectures, parameters, and weights), prompts, outputs, documentation, metadata, test/evaluation suites, synthetic data, and system/model/data cards created, used, or improved under the Bridge Agreement.

"Covered Individual" means an individual who (a) contributes in a substantive, meaningful way to the scientific development or execution of the scope of work of the agreement, and (b) is designated as a covered individual by DOE. DOE designates as covered individuals any principal investigator (PI); project director (PD); co-principal investigator (Co-PI); co-project director (Co-PD); project manager; and any individual regardless of title that is functionally performing as a PI, PD, Co-PI, Co-PD, or project manager. Submission of a current and pending support disclosure and/or biosketch/resume for a particular person serves as an acknowledgement that DOE designates that person as a covered individual. DOE may further designate covered individuals during the agreement period of performance.

"Curated Data" shall mean any Data generated in the performance of Milestone 2 or Technical Objective 2.

"Data" shall mean recorded information, regardless of form or the media on which it may be recorded, including Technical Data. The term does not include information incidental to agreement administration, such as financial, administrative, cost or pricing or management information.

"Data and Intellectual Property Rights Certification" shall mean a formal written statement, signed by an authorized representative of the Awardee, delivered as part of a Milestone, which attests that the Awardee has the necessary legal and contractual rights to all data, software, and intellectual property used in a delivered AI Artifact, sufficient to enable its deployment and use as contemplated under this Agreement.

"Effective Date" shall mean the date upon which the Agreement will enter into force which

will be the date of the last signatory to the Agreement.

“Foreign Country of Concern” shall mean the People's Republic of China, the Russian Federation, the Democratic People's Republic of Korea, the Islamic Republic of Iran, and the Republic of Belarus, or any other country determined to be a foreign country of concern by the Secretary of State and including countries of risk designated by DOE. This list is subject to change. DOE reserves the right, in the exercise of its absolute discretion, to add or subtract any foreign country determined to be of risk consistent with DOE policies by a unilateral amendment to this Agreement.

“Foreign Entity” shall mean any corporation, business association, partnership, trust, society, or any other entity or group that is not incorporated or organized to do business in the United States, and does not have a physical location for business in the United States. The term “Foreign Entity” also includes international organizations, foreign governments and any agency or subdivision of foreign governments including state-owned enterprises. The term “Foreign Countries of Concern” and “Foreign National” are separate terms and not necessarily covered under the definition of a Foreign Entity although “Foreign Countries of Concern” are also “Foreign Entities”.

“Foreign National” shall mean any individual other than a U.S. citizen.

“Government” shall mean the Federal government of the United States of America including its agencies and departments.

“Intellectual Property” shall mean any and all subject inventions, copyrights, and trademarks developed by an Awardee.

“Limited rights Data” shall mean data developed at private expense and first produced outside the performance of this agreement that embody trade secrets, or are commercial, or financial, and confidential or privileged.

“Material Breach” shall mean a breach by the Awardee/Subawardee or DOE of any of its obligations under this Agreement including those which result, or are likely to result, in the inability of the Awardee or DOE to effectively complete the Milestones. This includes but is not limited to the failure to achieve Milestones, breach of provisions included in the Agreement.

“Model Data” shall mean any data generated in the performance of Milestone 3- Creation of an AI Model.

“Non-Public Data” shall mean Data that has not been publicly distributed to others without restriction on further dissemination. Specifically excluded from this definition is data shared at a conference, public talk or other public forum if the data shared is shared without restriction on further dissemination.

“Organizational Conflicts of Interest” shall mean where the Awardee is unable, or appears

to be unable, to be impartial in conducting activities under this agreement due to its relationships with affiliates, organizations, or any other interested party.

“Unlimited Rights” shall mean the right of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, in any manner and for any purpose, and to have or permit others to do so.

APPENDIX I

DOE Directives/List B

**Applicable to the Operations of
Brookhaven National Laboratory**

There is no List A to this Appendix.

List B to this Appendix contains the following:

Part I: "Directives List"

This section contains a list of Directives that are considered by DOE as applicable to the BNL contract.

Appendix I - Part I**DOE DIRECTIVES LIST**DOE Directives may be found at the following address: <http://www.directives.doe.gov>

ISSUED	TYPE	NUMBER	THROUGH CHANGE	TITLE Includes Compliance Notes as Necessary
9/4/2008	Manual	142.2-1	Chg. 1 (Admin Chg.) 6/27/2013	Manual for Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency
12/15/2006	Order	142.2A	Chg. 1 (Admin Chg.) 6/27/2013	Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency
3/31/2026	Order	142.3C		Unclassified Foreign National Access Program
8/13/2026	Order	150.1C		Continuity Programs
8/13/2026	Order	151.1F		Comprehensive Emergency Management System
8/13/2026	Order	153.1B		Departmental Nuclear Emergency Support Team Capabilities
12/23/2008	Order	200.1A	Chg.2 (LtdChg) 8/11/2023	Information Technology Management
12/29/2025	Policy	203.1		Use of Generative Artificial Intelligence
4/30/2024	Order	205.1D		Department of Energy Cybersecurity Program
1/19/2024	Order	206.1A		Department of Energy Privacy Program
2/19/2013	Order	206.2	Chg. 2 (LtdChg) 10/28/2024	Identity, Credential and Access Management (ICAM)
8/13/2026	Order	210.2B		DOE Corporate Operating Experience Program
9/27/2016	Order	221.1B		Reporting Fraud, Waste, and Abuse to the Office of Inspector General
2/25/2008	Order	221.2A		Cooperation with the Office of Inspector General
3/4/2011	Order	225.1B		Accident Investigations
8/13/2026	Order	227.1B		Independent Oversight
8/13/2026	Order	241.1D		Scientific and Technical Management

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ISSUED	TYPE	NUMBER	THROUGH CHANGE	TITLE Includes Compliance Notes as Necessary
8/13/2026	Order	243.1D		Records Management Program
11/19/2009	Order	313.1		Management and Funding of the Department's Overseas Presence
8/13/2026	Order	341.1B		Federal Employee Health Services
8/13/2026	Order	350.1A		Contractor Human Resource Management Programs
8/13/2026	Order	410.2A		Management of Nuclear Materials
8/13/2026	Order	411.2A		Scientific Integrity
8/24/2025	Policy	411.2C		DOE Scientific Integrity Policy
8/13/2026	Order	413.2D		Laboratory Directed Research and Development
8/13/2026	Order	413.3C		Program and Project Management for the Acquisition of Capital Assets
8/13/2026	Order	414.1F		Quality Assurance
12/3/2012	Order	415.1	Chg. 2 (Minor Chg.) 1/17/2017	Information Technology Project Management
8/13/2026	Order	420.1D		Facility Safety
8/13/2026	Order	420.2E		Safety of Accelerators
8/13/2026	Order	422.1A		Conduct of Operations
8/13/2026	Order	426.2B		Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities
8/13/2026	Order	433.1C		Maintenance Management Program for DOE Nuclear Facilities
11/25/2016	Policy	434.1B		Conduct and Approval of Select Agent and Toxin Work at Department of Energy Sites

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ISSUED	TYPE	NUMBER	THROUGH CHANGE	TITLE Includes Compliance Notes as Necessary
7/9/1999	Order	435.1	Chg. 2 (Admin Chg.) 1/11/2021	Radioactive Waste Management
7/9/1999	Manual	435.1-1	Chg. 3 (LtdChg.) 1/11/2021	Radioactive Waste Management Manual
8/13/2026	Order	437.1B		Bridge and Tunnel Management
8/13/2026	Order	440.2D		Aviation Management and Safety
3/7/2008	Manual	441.1-1	Chg. 1 (Admin Chg.) 02/24/2016	Nuclear Material Packaging Manual
1/31/2019	Order	442.1B		Department of Energy Employee Concerns Program
8/13/2026	Order	443.1D		Protection of Human Research Subjects
8/13/2026	Order	452.8A		Control of Nuclear Weapon Data
8/13/2026	Order	456.1B		The Safe Handling of Unbound Engineered Nanoparticles
2/11/2011	Order	458.1	Chg. 5 (Admin Chg.) 01/30/2025	Radiation Protection of the Public and the Environment
12/20/2016	Order	460.1D	Chg. 1 (LtdChg.) 6/10/2022	Hazardous Materials Packaging and Transportation Safety
8/13/2026	Order	460.2C		Departmental Materials Transportation Management
8/13/2026	Order	470.7		Safeguards and Security Order
11/23/2016	Order	470.3C	Chg. 2 (LtdChg.) 2/23/2024	Design Basis Threat (DBT)
12/6/2024	Order	470.5A		Insider Threat Program
9/2/2015	Order	470.6	Chg.1 (Minor Chg.) 1/11/2017	Technical Security Program

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ISSUED	TYPE	NUMBER	THROUGH CHANGE	TITLE Includes Compliance Notes as Necessary
6/10/2022	Order	472.2A	Chg. 1 (LtdChg) 10/28/2024	Personnel Security
12/10/2004	Order	475.1		Counterintelligence Program
10/3/2014	Order	475.2B		Identifying Classified Information
2/23/2026	Order	475.3		Management of the Department of Energy Intelligence Enterprise
8/13/2026	Order	481.1F		Strategic Partnership Projects (Non-Federal)
8/13/2026	Order	481.2A		Strategic Partnership Projects (Federal)
8/13/2026	Order	483.1C		DOE Cooperative Research and Development Agreements
8/13/2026	Order	484.1A		Reimbursable Work for the Department of Homeland Security
12/13/2019	Policy	485.1A		Foreign Engagements with DOE National Laboratories
9/4/2020	Order	486.1A		Foreign Government Sponsored or Affiliated Activities
8/13/2026	Order	520.1C		Financial Management and Chief Financial Officer Responsibilities
8/13/2026	Order	522.1B		Pricing of Departmental Materials and Services
8/13/2026	Order	544.1B		Priorities and Allocations Program
8/13/2026	Order	550.1A		Official Travel