

Table of Changes for
FermiForward Discovery Group, LLC
Contract No. 89243024CSC000002
Modification No. 012

The purpose of this modification is to update the following:

CONTRACT SECTION J, ATTACHMENT J.9 – APPENDIX I

APPENDIX I – DOE DIRECTIVES

Order No.	Dates	Change	Explanation for Change
DOE O 436.1A	04/25/2023	Removed	Removes DOE O 436.1A, Departmental Sustainability (dated 04/25/2023)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF 1 of 2
2. AMENDMENT/MODIFICATION NO. 012	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable) N/A		
6. ISSUED BY CODE U.S. Department of Energy Office of Science/Fermi Site Office P.O. Box 2000, Wilson Hall – MS 118 Batavia, IL 60510		7. ADMINISTERED BY (If other than Item 6) Code See Block 6.			
8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code) Fermi Forward Discovery Group, LLC Pine Street and Kirk Road; MS 213 Batavia, IL 60510-5011			(✓)	9.A. AMENDMENT OF SOLICITATION NO.	
UEI: VLS6K3EVCMW5				9.B. DATED (SEE ITEM 11)	
CODE N/A	FACILITY CODE N/A			10.A. MODIFICATION OF Contract/Order NO. 89243024CSC000002	
				10.B. DATED (SEE ITEM 13) October 1, 2024	

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 telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT 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 telegram or letter, provided each telegram or letter 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)

Not Applicable


13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.)
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 43.103(a), Agreements of the parties modifying the terms of the contract.
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is required to sign this document and return 1 copy to the issuing office.

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

SEE PAGE 2

15A. NAME AND TITLE OF SIGNER (Type or print) Young-Kee Kim, Interim President FermiForward Discovery Group LLC	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Robert M. Scott, Contracting Officer
15B. CONTRACTOR/OFFEROR  <small>Digitally signed by Young-Kee Kim Date: 2025.03.04 07:55:38 -06'00'</small> (Signature of person authorized to sign)	15C. DATE SIGNED 3/4/2025
	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)
	16C. DATE SIGNED

14. Description of Amendment/Modification:

The purpose of this modification is to update the following:

1. ATTACHMENT J.9 - APPENDIX I – DOE DIRECTIVES / LIST B dated 2/5/2025, (attached hereto) is substituted for the APPENDIX I – DOE DIRECTIVES / LIST B previously incorporated into this contract upon award.

All other terms and conditions remain unchanged.

END OF MODIFICATION

APPENDIX I

DOE DIRECTIVES / LIST B

**Applicable to the Operation of
Fermi National Accelerator Laboratory**

DOE DIRECTIVES

<u>DIRECTIVES</u>	<u>DATES</u>	<u>TITLE</u>
O 142.3B Change 1	03/02/2022	Unclassified Foreign National Access Program
O 144.1 Change 1	01/16/2009	Department of Energy American Indian Tribal Government Interactions and Policy
O 150.1B	12/21/2021	Continuity Programs
O 151.1D Change 1	10/04/2019	Comprehensive Emergency Management System
O 200.1A Change 2	08/11/2023	Information Technology Management
O 205.1D	04/30/2024	Department of Energy Cyber Security Program
O 206.1A	01/19/2024	Department of Energy Privacy Program
O 206.2 Change 1	09/02/2022	Identity, Credential, and Access Management (ICAM)
O 221.1B	09/27/2016	Reporting Fraud, Waste, and Abuse to the Office the Inspector General
O 225.1B	03/04/2011	Accident Investigations
O 221.2A	02/25/2008	Cooperation with the Office of Inspector General
O 226.1B Change 1	05/03/2022	Implementation of Department of Energy Oversight Policy
O 227.1A Change 1	01/21/2020	Independent Oversight Program
O 231.1B Change 1	11/28/2012	Environmental Safety and Health Reporting
O 232.2A Change 1	10/04/2019	Occurrence Reporting and Processing of Operations Information (Reporting for Informational Level Events is not required in the ORPS system. Notification to FSO is required)
O 240.1	04/09/2024	Requesting Access to Electronic Records, Electronic Communications, and Access Control Records
O 241.1B Change 1	04/26/2016	Scientific and Technical Information Management
O 243.1C	02/07/2022	Records Management Program
O 251.1E	06/10/2024	Departmental Directives Program
O 252.1A Change 1	03/12/2013	Technical Standards Program
O 313.1	11/19/2009	Management and Funding of the Departments Overseas Presence
O 341.1A	10/18/2007	Federal Employee Health Services
O 350.1 Change 7	02/19/2020	Contractor Human Resource Management Programs
O 410.2 Change 1	04/10/2014	Management of Nuclear Materials
O 411.2	01/04/2017	Scientific Integrity
O 412.1A Change 1	05/21/2014	Work Authorization System
O 413.2C Change 1	08/02/2018	Laboratory Directed Research and Development

O 413.3B Change 6	01/12/2021	Program and Project Management for the Acquisition of Capital Assets. <i>The Memorandum from S. Binkley (dated 8/2/2018) exempted Capital Asset Projects with a TPC under \$50M from the requirements of this Order, and delegated responsibility for their successful delivery to the cognizant SC Laboratory Director.</i>
G 413.3-5A	09/23/2011	U.S. Department of Energy Performance Baseline Guide
G 413.3-7A	01/12/2011	Risk Management Guide
O 414.1D Change 2	09/15/2020	Quality Assurance
O 420.1C Change 3	11/14/2019	<p>Facility Safety</p> <p>Note (3): Change 2, Tailored Approach: Only the CRD (Attachment 1 to the Order) and Attachment 2, Chapters II and IV are applicable to Fermilab. The other chapters in Attachment 2 as well as Attachment 3 do not apply to the contract since they contain requirements for nuclear facilities and nuclear criticality hazards which do not exist at Fermilab. Additionally, items in Chapter II and Chapter IV of Attachment 2 are tailored as follows:</p> <p>Chapter II</p> <ul style="list-style-type: none"> - The requirements in Section 3.c.(3)(a) regarding safety-class and safety-significant systems is not applicable since there are no nuclear facilities at Fermilab. - The requirements in Section 3.e.(3)(b) and Section 3.e.(3)(d) regarding criticality safety are not applicable since there are no criticality hazards at Fermilab. - The requirement in Section 3.f.(1)(d) regarding nuclear safety basis documentation is not applicable since there are no nuclear facilities at Fermilab. <p>Chapter IV</p> <ul style="list-style-type: none"> - The requirements in Section 3.a. regarding safety-SSCs and nuclear safety basis documentation are not applicable since there are no nuclear facilities at Fermilab. - The requirements in Section 3.c.(1-2) regarding safety-SSCs and the reference to safety-SSCs in Section 3.c are not applicable since there are no nuclear facilities at Fermilab. - The requirements in Section 3.d of Chapter IV of Attachment 2 are not applicable since there are no nuclear facilities at Fermilab.
O 420.2D	09/09/2022	Safety of Accelerator Facilities
O 435.1 Change 2	01/11/2021	Radioactive Waste Management
M 435.1-1 Change 3	01/11/2021	Radioactive Waste Management Manual

O 440.2C Change 3	03/21/2023	Aviation Management and Safety
O 442.1B	01/31/2019	DOE Employee Concerns Program
O 442.2 Change 1	10/5/2016	Differing Professional Opinions for Technical Issues Involving Environment, Safety and Health Technical Concerns
O 443.1C	11/26/2019	Protection of Human Research Subjects
O 450.2 Change 1	01/17/2017	Integrated Safety Management
O 458.1 Change 4	09/15/2020	Radiation Protection of the Public and the Environment
O 460.1D Change 1	06/10/2022	Hazardous Materials Packaging and Transportation Safety
O 460.2B	06/10/2022	Departmental Materials Transportation and Packaging Management
O 462.1 Change 1	7/10/2013	Import and Export of Category 1 and 2 Radioactive Sources and Aggregated Quantities
O 470.3C Change 2	02/23/2024	Design Basis Threat (DBT) Order
O 470.4B Change 3	09/23/2021	Safeguards and Security Program
O 470.5	06/02/2014	Insider Threat
O 471.7	02/23/2022	Controlled Unclassified Information
O 472.2A	06/10/2022	Personnel Security
O 473.1A	08/30/2021	Physical Protection Program
O 473.2A	08/30/2021	Protective Force Operations
O 474.2A Change 1	04/16/2024	Nuclear Material Control and Accountability
O 475.1	12/10/2004	Counterintelligence
O 481.1E Change 1	12/13/2019	Strategic Partnership Projects (Formerly Known as Work for Others (Non-Department of Energy Funded Work))
O 483.1B Change 2	12/13/2019	DOE Cooperative Research and Development Agreements
O 484.1 Change 3	03/21/2023	Reimbursable Work for the Department of Homeland Security
O 486.1A	09/04/2020	Foreign Government Sponsored or Affiliated Activities
O 520.1B Change 1	11/11/2022	Financial Management and Chief Financial Officer Responsibilities
O 522.1A	08/02/2018	Pricing of Departmental Materials and Services
O 544.1A	01/29/2024	Priorities and Allocations Program
O 550.1 Change 1	12/13/2019	Official Travel
Std. 1090-2011	09/01/2011	Hoisting and Rigging Standard
Std. 1196-2021	7/7/2021	Derived Concentration Technical Standard