AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0179	05/06/2016	16SC001311	

6. ISSUED BY CODE 06006

Fermi Site Office
U.S. Department of Energy
Fermi Site Office
P.O. Box 2000
Batavia IL 60510

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

FERMI RESEARCH ALLIANCE, LLC
Attn: KAREN BORMANN
FERMI RESEARCH ALLIANCE, LLC
PINE ST. AND KIRK RD, MS-213
BATAVIA IL 605105011

CODE 626399831 FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*

x 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC02-07CH11359

10B. DATED *(SEE ITEM 13)* 11/01/2006

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)*
See attached AFP #9 dated 5/4/16 Net Increase: $78,283,117.00

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. 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 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.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: As provided in paragraph (a) of Part II, Section I, Clause I.119 - DEAR 970.5232-4,
	D. OTHER *(Specify type of modification and authority)*

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.)*

As provided in paragraph (a) of Part II, Section I, Clause I.119 - DEAR 970.5232-4, OBLIGATION OF FUNDS (DEC 2000) of the subject contract as initially awarded, the amount obligated hereunder is increased by $78,283,117.00 from a total of $4,000,806,060.41, to a total of $4,079,089,177.41.
FOB: Destination
Period of Performance: 01/01/2007 to 12/31/2016

Except as provided herein, all terms and conditions of the document referenced in Item 9 A 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)*	
		Whitney S. Begner	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		Signature on File *(Signature of Contracting Officer)*	05/06/2016

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
SUMMARY

	BUDGET AUTHORITY (BA)				
	BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
OPERATING EXPENSES	107,868,461.53	201,892,249.66	51,563,610.00	253,455,859.66	361,324,321.19
CAPITAL EQUIPMENT	7,716,813.47	25,605,576.81	5,800,200.00	31,405,776.81	39,122,590.28
CONSTRUCTION	97,274,705.70	56,748,230.18	20,919,307.00	77,667,537.18	174,942,242.88
REIMBURSABLE WORK	464,375.59	1,395,468.24	0.00	1,395,468.24	1,859,843.83
GRAND TOTAL	213,324,356.29	285,641,524.89	78,283,117.00	363,924,641.89	577,248,998.18

Certification of Funds Availability:

Catherine Richardson 5-4-16

Certifying Official Date

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
HQ B&R CONTROL SUMMARY

APPROPRIATION YEAR / FT	HQ B&R CONTROL	BUDGET REFERENCE NUMBER		BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
89X0222 2005 General Science and Research Activities, Oper								
WA	KS-01-00-00-0		KS0100000 - Research, Development And Operations	132,140.62	0.00	0.00	0.00	132,140.62
89X0222 2010 General Science and Research Activities, Reim								
3W	45-61-00-00-0		456100000, Allottee 61 CH-Reimbursable Work	8,092.80	(8,092.80)	0.00	(8,092.80)	0.00
89X0222 2011 General Science and Research Activities, Reim								
2W	45-61-00-00-0		456100000, Allottee 61 CH-Reimbursable Work	1,228.57	0.00	0.00	0.00	1,228.57
WA	KA-00-00-00-0		KA0000000, High Energy Physics	610,554.25	(610,554.25)	0.00	(610,554.25)	0.00
89X0222 2012 General Science and Research Activities, Reim								
2W	45-61-00-00-0		456100000, Allottee 61 CH-Reimbursable Work	2,158.47	0.00	0.00	0.00	2,158.47
WA	KA-00-00-00-0		KA0000000, High Energy Physics	363,962.44	(344,443.26)	0.00	(344,443.26)	19,519.18
	KB-00-00-00-0		KB0000000 - Nuclear Physics	488.62	0.00	0.00	0.00	488.62
89X0222 2013 General Science and Research Activities, Oper								
	KA-00-00-00-0		KA0000000, High Energy Physics	1,358,878.50	(329,312.84)	0.00	(329,312.84)	1,029,565.66
	KJ-00-00-00-0		KJ0000000 - Advanced Scientific Computing Research	23,076.09	0.00	0.00	0.00	23,076.09
89X0222 2014 General Science and Research Activities, Oper								
	39-KA-00-00-0	PRN11SC40000	39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE	1,898,311.85	0.00	0.00	0.00	1,898,311.85
	39-KA-00-00-0	PRN11SC41000	39KA00000PRN11SC41000, Muon to Electron Coversion Experiment	10,144,217.50	0.00	0.00	0.00	10,144,217.50
	39-KG-02-00-0	PRN13SC70000	39KG02000PRN13SC70000, Utilities Upgrade at FNAL	26,390,598.55	0.00	0.00	0.00	26,390,598.55
2W	45-61-00-00-0		456100000, Allottee 61 CH-Reimbursable Work	10,709.80	0.00	0.00	0.00	10,709.80
WA	KA-00-00-00-0		KA0000000, High Energy Physics	6,329,073.75	0.00	0.00	0.00	6,329,073.75
	KB-00-00-00-0		KB0000000 - Nuclear Physics	499,912.60	0.00	0.00	0.00	499,912.60
	KC-00-00-00-0		KC0000000, Basic Energy Sciences	38,106.21	0.00	0.00	0.00	38,106.21
	KJ-00-00-00-0		KJ0000000 - Advanced Scientific Computing Research	31,572.55	0.00	0.00	0.00	31,572.55
	KL-00-00-00-0		KL0000000 - Workforce Development for Teachers and Scientist	378,374.98	0.00	0.00	0.00	378,374.98
89X0222 2015 General Science and Research Activities, Oper								
	39-KA-00-00-0	PRN11SC40000	39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE	7,791,000.00	0.00	0.00	0.00	7,791,000.00
	39-KA-00-00-0	PRN11SC41000	39KA00000PRN11SC41000, Muon to Electron Coversion Experiment	25,000,000.00	0.00	0.00	0.00	25,000,000.00
2W	45-61-00-00-0		456100000, Allottee 61 CH-Reimbursable Work	442,185.95	(13,838.44)	0.00	(13,838.44)	428,347.51
WA	FS-10-00-00-0		FS1000000 - Safeguards and Security - Science	995,880.85	0.00	0.00	0.00	995,880.85
	KA-00-00-00-0		KA0000000, High Energy Physics	127,957,162.85	(513,000.00)	0.00	(513,000.00)	127,444,162.85
	KB-00-00-00-0		KB0000000 - Nuclear Physics	567,465.10	0.00	0.00	0.00	567,465.10
	KC-00-00-00-0		KC0000000, Basic Energy Sciences	539,779.51	0.00	0.00	0.00	539,779.51
	KJ-00-00-00-0		KJ0000000 - Advanced Scientific Computing Research	1,771,457.66	0.00	0.00	0.00	1,771,457.66
	KL-00-00-00-0		KL0000000 - Workforce Development for Teachers and Scientist	25,544.07	0.00	0.00	0.00	25,544.07
89X0222 2016 General Science and Research Activities, Oper								
	39-KA-00-00-0	PRN11SC40000	39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE	0.00	7,533,868.00	5,315,732.00	12,849,600.00	12,849,600.00
	39-KA-00-00-0	PRN11SC41000	39KA00000PRN11SC41000, Muon to Electron Coversion Experiment	0.00	28,363,101.00	10,370,700.00	38,733,801.00	38,733,801.00

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
HQ B&R CONTROL SUMMARY

APPROPRIATION YEAR FT	HQ B&R CONTROL	BUDGET REFERENCE NUMBER	BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
89X0222 2016 General Science and Research Activities, Oper							
2W	45-61-00-00-0	456100000, Allottee 61 CH-Reimbursable Work	0.00	1,417,399.48	0.00	1,417,399.48	1,417,399.48
WA	FS-10-00-00-0	FS1000000 - Safeguards and Security - Science	0.00	3,675,000.00	955,000.00	4,630,000.00	4,630,000.00
	KA-00-00-00-0	KA0000000, High Energy Physics	0.00	240,592,871.00	58,336,310.00	298,929,181.00	298,929,181.00
	KB-00-00-00-0	KB0000000 - Nuclear Physics	0.00	25,000.00	0.00	25,000.00	25,000.00
	KC-00-00-00-0	KC0000000, Basic Energy Sciences	0.00	35,000.00	130,000.00	165,000.00	165,000.00
	KG-07-00-00-0	KG0700000, Facilities and Infrastructure	0.00	5,598,527.00	3,095,375.00	8,693,902.00	8,693,902.00
	KJ-00-00-00-0	KJ0000000 - Advanced Scientific Computing Research	0.00	0.00	80,000.00	80,000.00	80,000.00
	KL-00-00-00-0	KL0000000 - Workforce Development for Teachers and Scientist	0.00	220,000.00	0.00	220,000.00	220,000.00
89X0243 2014 Materials Production and Other Defense Progra							
TF	HQ-00-00-00-0	HQ0000000	7,422.15	0.00	0.00	0.00	7,422.15
89X0243 2015 Materials Production and Other Defense Progra							
	HQ-00-00-00-0	HQ0000000	5,000.00	0.00	0.00	0.00	5,000.00

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT	B&R REPORTING/BUD REF NUM		APPR YEAR	OBJ CLASS		BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
OPERATING EXPENSES										
TF	HQ-10-01-00-0		2014	25400	HQ1001000, Worker Advocacy	7,422.15	0.00	0.00	0.00	7,422.15
			2015	25400	HQ1001000, Worker Advocacy	5,000.00	0.00	0.00	0.00	5,000.00
WA	FS-10-01-00-0		2015	25400	FS1001000, Protective Forces	384,296.77	0.00	0.00	0.00	384,296.77
			2016	25400	FS1001000, Protective Forces	0.00	1,287,000.00	334,000.00	1,621,000.00	1,621,000.00
	FS-10-02-00-0		2015	25400	FS1002000, Security Systems	186,209.57	0.00	0.00	0.00	186,209.57
			2016	25400	FS1002000, Security Systems	0.00	472,000.00	123,000.00	595,000.00	595,000.00
	FS-10-05-00-0		2015	25400	FS1005000, Cyber Security	371,864.74	0.00	0.00	0.00	371,864.74
			2016	25400	FS1005000, Cyber Security	0.00	1,705,000.00	443,000.00	2,148,000.00	2,148,000.00
	FS-10-07-00-0		2015	25400	FS1007000, Material Control and Accountability	42,694.89	0.00	0.00	0.00	42,694.89
			2016	25400	FS1007000, Material Control and Accountability	0.00	51,000.00	13,000.00	64,000.00	64,000.00
	FS-10-09-00-0		2015	25400	FS1009000, Program Management	10,814.88	0.00	0.00	0.00	10,814.88
			2016	25400	FS1009000, Program Management	0.00	160,000.00	42,000.00	202,000.00	202,000.00
	KA-11-02-03-4		2012	25400	KA1102034, Proton Facilities - Projects, Future Facility R&D	152,739.14	(152,739.14)	0.00	(152,739.14)	0.00
	KA-15-02-02-1		2012	25400	KA1502021, Advanced Technology Research, Accelerator Develop	191,704.12	(191,704.12)	0.00	(191,704.12)	0.00
	KA-21-01-02-0		2015	25400	KA2101020, National Laboratories	7,899,311.39	0.00	0.00	0.00	7,899,311.39
			2016	25400	KA2101020, National Laboratories	0.00	13,584,750.00	3,348,900.00	16,933,650.00	16,933,650.00
		OPEMIE30YB	2015	25400	KA2101020, National Laboratories	266,672.72	0.00	0.00	0.00	266,672.72
	KA-21-01-03-0		2013	25400	KA2101030, University Service Accounts	93,073.76	0.00	0.00	0.00	93,073.76
			2014	25400	KA2101030, University Service Accounts	223,000.00	0.00	0.00	0.00	223,000.00
			2015	25400	KA2101030, University Service Accounts	362,000.00	0.00	0.00	0.00	362,000.00
	KA-21-02-02-2		2015	25400	KA2102022, CMS Detector and Computing Support	13,013,363.27	0.00	0.00	0.00	13,013,363.27
			2016	25400	KA2102022, CMS Detector and Computing Support	0.00	19,494,500.00	4,805,600.00	24,300,100.00	24,300,100.00
	KA-21-03-01-1	EQUMIE30YB	2015	31001	KA2103011, MIE	1,554,107.17	0.00	0.00	0.00	1,554,107.17
		EQUMIE30YB	2016	31001	KA2103011, MIE	0.00	7,291,250.00	1,797,400.00	9,088,650.00	9,088,650.00
	KA-22-01-02-0		2015	25400	KA2201020, National Laboratories	3,061,382.53	0.00	0.00	0.00	3,061,382.53
			2016	25400	KA2201020, National Laboratories	0.00	12,468,805.00	3,073,700.00	15,542,505.00	15,542,505.00
	KA-22-01-03-0		2015	25400	KA2201030, University Service Accounts	202,250.43	0.00	0.00	0.00	202,250.43
			2016	25400	KA2201030, University Service Accounts	0.00	410,000.00	0.00	410,000.00	410,000.00
	KA-22-02-01-0		2015	25400	KA2202010, Experimental Operations and Support	234,405.69	0.00	0.00	0.00	234,405.69
			2016	25400	KA2202010, Experimental Operations and Support	0.00	364,563.00	233,400.00	597,963.00	597,963.00
	KA-22-02-02-1		2015	25400	KA2202021, Accelerator Operations	14,574,924.17	0.00	0.00	0.00	14,574,924.17
			2016	25400	KA2202021, Accelerator Operations	0.00	52,615,963.00	14,405,700.00	67,021,663.00	67,021,663.00
		AIP	2015	32003	KA2202021, Accelerator Operations	8,677,442.03	0.00	0.00	0.00	8,677,442.03
		AIP	2016	32003	KA2202021, Accelerator Operations	0.00	6,677,250.00	1,646,000.00	8,323,250.00	8,323,250.00
		EQU	2015	31003	KA2202021, Accelerator Operations	1,004,052.91	0.00	0.00	0.00	1,004,052.91
		EQU	2016	31003	KA2202021, Accelerator Operations	0.00	7,463,937.00	1,840,000.00	9,303,937.00	9,303,937.00
	KA-22-02-02-2		2015	25400	KA2202022, Detector and Computing	13,077,217.85	0.00	0.00	0.00	13,077,217.85
			2016	25400	KA2202022, Detector and Computing	0.00	24,592,235.00	6,062,300.00	30,654,535.00	30,654,535.00
		EQU	2011	31003	KA2202022, Detector and Computing	325,840.17	(325,840.17)	0.00	(325,840.17)	0.00
	KA-22-02-02-3		2013	25400	KA2202023, Other Complex Support	23,534.43	0.00	0.00	0.00	23,534.43

CHICAGO OPERATIONS OFFICE
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CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT	B&R REPORTING/BUD REF NUM		APPR YEAR	OBJ CLASS		BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
		EQU	2012	31003	KA2202023, Other Complex Support	19,519.18	(19,519.18)	0.00	(19,519.18)	0.00
		GPP	2012	32002	KA2202023, Other Complex Support	0.00	19,519.18	0.00	19,519.18	19,519.18
		GPP	2014	32002	KA2202023, Other Complex Support	4,910,135.77	0.00	0.00	0.00	4,910,135.77
WA	KA-22-02-02-3	GPP	2015	32002	KA2202023, Other Complex Support	12,463,000.00	0.00	0.00	0.00	12,463,000.00
		GPP	2016	32002	KA2202023, Other Complex Support	0.00	8,555,965.00	491,500.00	9,047,465.00	9,047,465.00
	KA-22-02-81-1		2014	25400	KA2202811, Special Process Spares	712,334.75	0.00	0.00	0.00	712,334.75
			2015	25400	KA2202811, Special Process Spares	3,257,466.78	0.00	0.00	0.00	3,257,466.78
			2016	25400	KA2202811, Special Process Spares	0.00	844,250.00	208,100.00	1,052,350.00	1,052,350.00
	KA-22-02-81-2		2015	25400	KA2202812, Common Use Stores	175,983.07	0.00	0.00	0.00	175,983.07
	KA-22-03-01-1	EQUMIE01VK	2013	31001	KA2203011, MIE	329,312.84	(329,312.84)	0.00	(329,312.84)	0.00
		EQUMIE30YC	2015	31001	KA2203011, MIE	3,583,981.20	2,400,000.00	0.00	2,400,000.00	5,983,981.20
		EQUMIE30YC	2016	31001	KA2203011, MIE	0.00	7,828,500.00	1,929,800.00	9,758,300.00	9,758,300.00
		OPEMIE01VK	2011	25400	KA2203011, MIE	284,714.08	(284,714.08)	0.00	(284,714.08)	0.00
		OPEMIE30YC	2015	25400	KA2203011, MIE	2,678,666.04	(2,400,000.00)	0.00	(2,400,000.00)	278,666.04
	KA-22-03-01-2	OPELBNE	2015	25400	KA2203012, Line Item OPC	2,256,930.43	0.00	0.00	0.00	2,256,930.43
		OPELBNE	2016	25400	KA2203012, Line Item OPC	0.00	86,400.00	0.00	86,400.00	86,400.00
		OPEMu2E	2013	25400	KA2203012, Line Item OPC	912,957.47	0.00	0.00	0.00	912,957.47
		P-II	2016	25400	KA2203012, Line Item OPC	0.00	13,826,513.00	3,408,400.00	17,234,913.00	17,234,913.00
	KA-22-03-02-0		2015	25400	KA2203020, Future Project R&D	8,025,845.92	0.00	0.00	0.00	8,025,845.92
			2016	25400	KA2203020, Future Project R&D	0.00	6,787,500.00	567,600.00	7,355,100.00	7,355,100.00
	KA-23-01-02-0		2015	25400	KA2301020, National Laboratories	3,185,107.56	0.00	0.00	0.00	3,185,107.56
			2016	25400	KA2301020, National Laboratories	0.00	6,274,313.00	1,202,300.00	7,476,613.00	7,476,613.00
	KA-23-02-01-0		2014	25400	KA2302010, Experimental Operations and Support	187,860.93	0.00	0.00	0.00	187,860.93
			2015	25400	KA2302010, Experimental Operations and Support	3,000,000.00	0.00	0.00	0.00	3,000,000.00
			2016	25400	KA2302010, Experimental Operations and Support	0.00	1,707,688.00	541,000.00	2,248,688.00	2,248,688.00
	KA-23-03-01-1	EQUMIE51AB	2016	31001	KA2303011, MIE	0.00	1,296,562.00	233,000.00	1,529,562.00	1,529,562.00
		OPEMIE41ZA	2015	25400	KA2303011, MIE	81,297.20	0.00	0.00	0.00	81,297.20
		OPEMIE51AB	2015	25400	KA2303011, MIE	136,610.56	0.00	0.00	0.00	136,610.56
		OPEMIE51AB	2016	25400	KA2303011, MIE	0.00	375,000.00	0.00	375,000.00	375,000.00
	KA-23-03-02-0		2014	25400	KA2303020, Future Project R&D	295,397.46	0.00	0.00	0.00	295,397.46
			2015	25400	KA2303020, Future Project R&D	80,000.00	0.00	0.00	0.00	80,000.00
			2016	25400	KA2303020, Future Project R&D	0.00	0.00	360,000.00	360,000.00	360,000.00
	KA-24-01-01-2		2015	25400	KA2401012, National Laboratories	2,183,342.01	0.00	0.00	0.00	2,183,342.01
			2016	25400	KA2401012, National Laboratories	0.00	6,523,750.00	1,608,200.00	8,131,950.00	8,131,950.00
	KA-24-01-01-9		2015	25400	KA2401019, Other Research	19,298.30	0.00	0.00	0.00	19,298.30
	KA-24-01-02-1		2015	25400	KA2401021, Scientific Discovery through Advanced Computing (	1,784,113.92	0.00	0.00	0.00	1,784,113.92
			2016	25400	KA2401021, Scientific Discovery through Advanced Computing (	0.00	1,623,262.00	400,200.00	2,023,462.00	2,023,462.00
	KA-24-01-02-2		2015	25400	KA2401022, Scientific Computing	987,980.48	0.00	0.00	0.00	987,980.48
			2016	25400	KA2401022, Scientific Computing	0.00	1,609,585.00	396,900.00	2,006,485.00	2,006,485.00
	KA-24-03-01-3		2014	25400	KA2403013, Other Projects	344.84	0.00	0.00	0.00	344.84
			2015	25400	KA2403013, Other Projects	7,319.47	0.00	0.00	0.00	7,319.47
			2016	25400	KA2403013, Other Projects	0.00	828,900.00	204,300.00	1,033,200.00	1,033,200.00
	KA-25-01-01-2		2015	25400	KA2501012, National Laboratories	6,559,490.09	(513,000.00)	0.00	(513,000.00)	6,046,490.09
			2016	25400	KA2501012, National Laboratories	0.00	8,845,438.00	2,449,700.00	11,295,138.00	11,295,138.00

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT	B&R REPORTING/BUD REF NUM	APPR YEAR	OBJ CLASS		BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
	KA-25-01-02-1	2015	25400	KA2501021, LHC Accelerator Research	2,536,776.88	0.00	0.00	0.00	2,536,776.88
		2016	25400	KA2501021, LHC Accelerator Research	0.00	5,329,274.00	1,381,810.00	6,711,084.00	6,711,084.00
	KA-25-01-02-2	2015	25400	KA2501022, Muon Accelerators	2,180,040.41	0.00	0.00	0.00	2,180,040.41
WA	KA-25-01-02-2	2016	25400	KA2501022, Muon Accelerators	0.00	2,870,450.00	707,600.00	3,578,050.00	3,578,050.00
	KA-25-01-03-2	2015	25400	KA2501032, National Laboratories	2,381,694.81	0.00	0.00	0.00	2,381,694.81
		2016	25400	KA2501032, National Laboratories	0.00	3,340,160.00	823,400.00	4,163,560.00	4,163,560.00
	KA-25-02-01-0	2015	25400	KA2502010, Accelerator Infrastructure and Test Facilities	4,581,175.98	0.00	0.00	0.00	4,581,175.98
		2016	25400	KA2502010, Accelerator Infrastructure and Test Facilities	0.00	13,545,608.00	3,339,200.00	16,884,808.00	16,884,808.00
	KA-25-02-02-0	2015	25400	KA2502020, Detector Infrastructure and Test Facilities	733,256.35	0.00	0.00	0.00	733,256.35
		2016	25400	KA2502020, Detector Infrastructure and Test Facilities	0.00	3,530,500.00	870,300.00	4,400,800.00	4,400,800.00
	EQU	2015	31003	KA2502020, Detector Infrastructure and Test Facilities	900,000.00	0.00	0.00	0.00	900,000.00
	KA-26-01-02-0	2015	25400	KA2601020, National Laboratories	154.40	0.00	0.00	0.00	154.40
	KA-26-02-01-0	2015	25400	KA2602010, Accelerator Operations and Support	250,500.83	0.00	0.00	0.00	250,500.83
	KB-02-01-02-2	2012	25400	KB0201022, Other National Laboratory Research	488.62	0.00	0.00	0.00	488.62
		2015	25400	KB0201022, Other National Laboratory Research	25,000.00	0.00	0.00	0.00	25,000.00
		2016	25400	KB0201022, Other National Laboratory Research	0.00	25,000.00	0.00	25,000.00	25,000.00
	KB-02-01-05-2	2014	25400	KB0201052, Heavy Ion Accelerator R&D Natl Lab Research	499,912.60	0.00	0.00	0.00	499,912.60
		2015	25400	KB0201052, Heavy Ion Accelerator R&D Natl Lab Research	500,000.00	0.00	0.00	0.00	500,000.00
	KB-03-01-02-0	2015	25400	KB0301020, National Laboratory Research	42,465.10	0.00	0.00	0.00	42,465.10
	KC-04-01-02-0	2015	25400	KC0401020, Advanced Photon Source (ANL)	248,337.01	0.00	0.00	0.00	248,337.01
		2016	25400	KC0401020, Advanced Photon Source (ANL)	0.00	0.00	60,000.00	60,000.00	60,000.00
	KC-04-01-04-0	2015	25400	KC0401040, National Synchrotron Light Source II (BNL)	246,442.50	0.00	0.00	0.00	246,442.50
		2016	25400	KC0401040, National Synchrotron Light Source II (BNL)	0.00	0.00	60,000.00	60,000.00	60,000.00
	KC-04-06-02-0	2014	25400	KC0406020, Accelerator and Detector Research	38,106.21	0.00	0.00	0.00	38,106.21
		2015	25400	KC0406020, Accelerator and Detector Research	45,000.00	0.00	0.00	0.00	45,000.00
		2016	25400	KC0406020, Accelerator and Detector Research	0.00	35,000.00	10,000.00	45,000.00	45,000.00
	KG-07-01-00-0 GPP	2016	32002	KG0701000, Facilities and Infrastructure	0.00	5,598,527.00	3,095,375.00	8,693,902.00	8,693,902.00
	KJ-04-03-00-0	2014	25400	KJ0403000, Computational Partnerships	31,572.55	0.00	0.00	0.00	31,572.55
		2015	25400	KJ0403000, Computational Partnerships	230,000.00	0.00	0.00	0.00	230,000.00
	KJ-04-04-00-0	2015	25400	KJ0404000, Next Generation Networking for Science	1,418,457.66	0.00	0.00	0.00	1,418,457.66
		2016	25400	KJ0404000, Next Generation Networking for Science	0.00	0.00	80,000.00	80,000.00	80,000.00
	KJ-05-03-00-0	2015	25400	KJ0503000, Research and Evaluation Prototypes	123,000.00	0.00	0.00	0.00	123,000.00
	KJ-05-04-00-0	2013	25400	KJ0504000, High Performance Network Facilities and Testbeds	23,076.09	0.00	0.00	0.00	23,076.09
	KL-10-01-00-0	2015	25400	KL1001000, Science Undergraduate Laboratory Internship	88.56	895.00	0.00	895.00	983.56
		2016	25400	KL1001000, Science Undergraduate Laboratory Internship	0.00	80,000.00	0.00	80,000.00	80,000.00
	KL-10-02-00-0	2015	25400	KL1002000, Community College Internship Program	175.59	10,503.00	0.00	10,503.00	10,678.59
		2016	25400	KL1002000, Community College Internship Program	0.00	60,000.00	0.00	60,000.00	60,000.00
	KL-10-03-00-0	2015	25400	KL1003000, Visiting Faculty Program	25,279.92	(11,398.00)	0.00	(11,398.00)	13,881.92
		2016	25400	KL1003000, Visiting Faculty Program	0.00	80,000.00	0.00	80,000.00	80,000.00
	KL-15-00-00-0	2014	25400	KL1500000, Outreach	378,374.98	0.00	0.00	0.00	378,374.98
	KS-01-01-00-0	2005	25400	KS0101000, Accelerator and Experimental Facilities Research	132,140.62	0.00	0.00	0.00	132,140.62

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT B&R REPORTING APPR YEAR PROGRAM TASK NUMBER BUDGET REFERENCE NUMBER/OBJ CLASS	BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	CHANGE	REVISED	TOTAL AVAILABLE
CONSTRUCTION					
WA 39-KA-00-00-0 2014 39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE					
PRN11SC40000/32001	1,898,311.85	0.00	0.00	0.00	1,898,311.85
2014 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen					
PRN11SC41000/32001	10,144,217.50	0.00	0.00	0.00	10,144,217.50
2015 39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE					
PRN11SC40000/32001	7,791,000.00	0.00	0.00	0.00	7,791,000.00
2015 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen					
PRN11SC41000/32001	25,000,000.00	0.00	0.00	0.00	25,000,000.00
2016 39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE					
PRN11SC40000/32001	0.00	7,533,868.00	5,315,732.00	12,849,600.00	12,849,600.00
2016 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen					
PRN11SC41000/32001	0.00	28,363,101.00	10,370,700.00	38,733,801.00	38,733,801.00
39-KG-02-00-0 2014 39KG02000PRN13SC70000, Utilities Upgrade at FNAL					
PRN13SC70000/32001	26,390,598.55	0.00	0.00	0.00	26,390,598.55

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT	B&R REPORTING ORDER NUMBER	APPR YEAR	CLASS	OBJ	BEGINNING UNCOSTED OBLIGATIONS	BUDGET AUTHORITY (BA) NEW BA PREVIOUS	CHANGE	REVISED	TOTAL AVAILABLE
REIMBURSABLE WORK									
2W	45-61-60-03-2	2015	25400	456160032, Industry - Foreign					
	AGRCRADA20150001			CHAGRCRADA20150001	15,560.39	0.00	0.00	0.00	15,560.39
	AGRSPP20150003			CHAGRSPP20150003	6,108.14	0.00	0.00	0.00	6,108.14
	AGRWFO20140018			CHAGRWFO20140018	1,701.26	0.00	0.00	0.00	1,701.26
				TOTAL B&R REPORTING 45-61-60-03-2	23,369.79	0.00	0.00	0.00	23,369.79
	45-61-60-03-2	2016	25400	456160032, Industry - Foreign					
	AGRCRADA20150290			CHAGRCRADA20150290	0.00	13,084.92	0.00	13,084.92	13,084.92
	AGRCRADA20150302			CHAGRCRADA20150302	0.00	111,039.95	0.00	111,039.95	111,039.95
	AGRSPP20150003			CHAGRSPP20150003	0.00	1,238.74	0.00	1,238.74	1,238.74
	AGRSPP20150014			CHAGRSPP20150014	0.00	2,974.85	0.00	2,974.85	2,974.85
	AGRSPP20150297			CHAGRSPP20150297	0.00	7,678.49	0.00	7,678.49	7,678.49
	AGRSPP20150298			CHAGRSPP20150298	0.00	817,421.36	0.00	817,421.36	817,421.36
	AGRWFO20140018			CHAGRWFO20140018	0.00	31,779.40	0.00	31,779.40	31,779.40
				TOTAL B&R REPORTING 45-61-60-03-2	0.00	985,217.71	0.00	985,217.71	985,217.71
	45-61-60-03-4	2011	25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRWFO02001			CH AGRWFO02001	1,228.57	0.00	0.00	0.00	1,228.57
				TOTAL B&R REPORTING 45-61-60-03-4	1,228.57	0.00	0.00	0.00	1,228.57
	45-61-60-03-4	2012	25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRWFO02001			CH AGRWFO02001	2,158.47	0.00	0.00	0.00	2,158.47
				TOTAL B&R REPORTING 45-61-60-03-4	2,158.47	0.00	0.00	0.00	2,158.47
	45-61-60-03-4	2014	25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRWFO02001			CH AGRWFO02001	1,880.80	0.00	0.00	0.00	1,880.80
			25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRWFO20130003			CHAGRWFO20130003	8,829.00	0.00	0.00	0.00	8,829.00
				TOTAL B&R REPORTING 45-61-60-03-4	10,709.80	0.00	0.00	0.00	10,709.80
	45-61-60-03-4	2015	25400	456160034, State And Local Governments And Non-Profit Organi					

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT	B&R REPORTING ORDER NUMBER	APPR YEAR	CLASS	OBJ	BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
2W	45-61-60-03-4	2015	25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRCRADA20120001			CHAGRCRADA20120001	152,094.31	0.00	0.00	0.00	152,094.31
	AGRCRADA20140008			CHAGRCRADA20140008	165.93	0.00	0.00	0.00	165.93
2W	45-61-60-03-4	2015	25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRCRADA20140013			CHAGRCRADA20140013	14,613.50	(13,838.44)	0.00	(13,838.44)	775.06
	AGRSPP20150006			CHAGRSPP20150006	42,342.00	0.00	0.00	0.00	42,342.00
	AGRWFO02001			CH AGRWFO02001	561.59	0.00	0.00	0.00	561.59
	AGRWFO20130002			CHAGRWFO20130002	122,641.55	0.00	0.00	0.00	122,641.55
	AGRWFO20130003			CHAGRWFO20130003	7.40	0.00	0.00	0.00	7.40
	AGRWFO20130014			CHAGRWFO20130014	18,847.65	0.00	0.00	0.00	18,847.65
				TOTAL B&R REPORTING 45-61-60-03-4	351,273.93	(13,838.44)	0.00	(13,838.44)	337,435.49
	45-61-60-03-4	2016	25400	456160034, State And Local Governments And Non-Profit Organi					
	AGRSPP20150006			CHAGRSPP20150006	0.00	85,208.00	0.00	85,208.00	85,208.00
	AGRWFO02001			CH AGRWFO02001	0.00	948.96	0.00	948.96	948.96
	AGRWFO20130011			CHAGRWFO20130011	0.00	40.00	0.00	40.00	40.00
				TOTAL B&R REPORTING 45-61-60-03-4	0.00	86,196.96	0.00	86,196.96	86,196.96
	45-61-60-03-6	2015	25400	456160036, Universities And Institutes					
	AGRCRADA20140022			CHAGRCRADA20140022	5,723.73	0.00	0.00	0.00	5,723.73
			25400	456160036, Universities And Institutes					
	AGRWFO20140005			CHAGRWFO20140005	1,792.31	0.00	0.00	0.00	1,792.31
				TOTAL B&R REPORTING 45-61-60-03-6	7,516.04	0.00	0.00	0.00	7,516.04
	45-61-60-03-6	2016	25400	456160036, Universities And Institutes					
	AGRCRADA20150289			CHAGRCRADA20150289	0.00	57,707.00	0.00	57,707.00	57,707.00
	AGRSPP20160001			CHAGRSPP20160001	0.00	150,089.00	0.00	150,089.00	150,089.00
				TOTAL B&R REPORTING 45-61-60-03-6	0.00	207,796.00	0.00	207,796.00	207,796.00
	45-61-60-03-7	2015	25400	456160037, Other					
	AGRCRADA20150008			CHAGRCRADA20150008	30,000.00	0.00	0.00	0.00	30,000.00
			25400	456160037, Other					
	AGRCRADA20150012			CHAGRCRADA20150012	30,026.19	0.00	0.00	0.00	30,026.19
				TOTAL B&R REPORTING 45-61-60-03-7	60,026.19	0.00	0.00	0.00	60,026.19

CHICAGO OPERATIONS OFFICE
FY 2016 APPROVED FUNDING PROGRAM NO. 9
CH Fermi Accelerator Laboratory - CONTRACT NO: CH11359
DETAIL

FT	B&R REPORTING ORDER NUMBER	APPR YEAR	CLASS	OBJ	BUDGET AUTHORITY (BA) BEGINNING UNCOSTED OBLIGATIONS	NEW BA PREVIOUS	NEW BA CHANGE	NEW BA REVISED	TOTAL AVAILABLE
	45-61-60-03-7	2016	25400	456160037, Other					
	AGRCRADA20150010			CHAGRCRADA20150010	0.00	60,000.00	0.00	60,000.00	60,000.00
	AGRCRADA20150012			CHAGRCRADA20150012	0.00	6,000.00	0.00	6,000.00	6,000.00
2W	45-61-60-03-7	2016	25400	456160037, Other					
	AGRCRADA20150078			CHAGRCRADA20150078	0.00	4,910.64	0.00	4,910.64	4,910.64
	AGRSPP20150291			CHAGRSPP20150291	0.00	59,091.00	0.00	59,091.00	59,091.00
	AGRSPP20150292			CHAGRSPP20150292	0.00	2,466.00	0.00	2,466.00	2,466.00
	AGRSPP20150296			CHAGRSPP20150296	0.00	5,721.17	0.00	5,721.17	5,721.17
				TOTAL B&R REPORTING 45-61-60-03-7	0.00	138,188.81	0.00	138,188.81	138,188.81
3W	45-61-40-19-6	2010	25400	456140196, NASA Other					
	AGRNNG10FC45I			CHAGRNNG10FC45I	8,092.80	(8,092.80)	0.00	(8,092.80)	0.00
				TOTAL B&R REPORTING 45-61-40-19-6	8,092.80	(8,092.80)	0.00	(8,092.80)	0.00