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)*
0156	04/28/2015	15SC001344	

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)* Net Increase: $51,022,627.33
SEE APPROVED FUNDING PROGRAM NO. 9; ATTACHED DATED 4/24/2015

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: Part II, Section I, Clause I. 119 - DEAR 970.5232-4, OBLIGATION OF FUNDS (DEC 2000)
	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 $51,022,627.33, from a total of $3,640,055,511.51, to a total of $3,691,078,138.84.
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)*	
		Karen E. Ade	
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)*	04/28/2015

CHICAGO OPERATIONS OFFICE
FY 2015 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	111,285,321.46	230,225,593.33	39,927,140.00	270,152,733.33	381,438,054.79
CAPITAL EQUIPMENT	8,026,927.12	19,803,030.10	3,220,000.00	23,023,030.10	31,049,957.22
CONSTRUCTION	105,404,063.63	49,256,977.37	7,836,180.00	57,093,157.37	162,497,221.00
REIMBURSABLE WORK	458,331.39	431,075.43	39,307.33	470,382.76	928,714.15
GRAND TOTAL	225,174,643.60	299,716,676.23	51,022,627.33	350,739,303.56	575,913,947.16

Certification of Funds Availability:

Catherine Richardson 4-24-15

Certifying Official Date

CHICAGO OPERATIONS OFFICE
FY 2015 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
8909/100227 2009 Science, Science, Recovery Act							
WO	KA-00-00-00-0	KA0000000, High Energy Physics	18,999.20	(18,999.20)	0.00	(18,999.20)	0.00
89X0222 2005 General Science and Research Activities, Oper							
WA	KA-00-00-00-0	KA0000000, High Energy Physics	37,994.52	0.00	0.00	0.00	37,994.52
	KS-01-00-00-0	KS0100000 - Research, Development And Operations	132,094.98	0.00	0.00	0.00	132,094.98
89X0222 2009 General Science and Research Activities, Oper							
	KA-00-00-00-0	KA0000000, High Energy Physics	20,431.60	0.00	0.00	0.00	20,431.60
89X0222 2010 General Science and Research Activities, Reim							
3W	40-00-00-00-0	400000000 - Cost Of Reimbursable Work And Cooperative Work -	8,092.80	0.00	0.00	0.00	8,092.80
WA	KL-00-00-00-0	KL0000000 - Workforce Development for Teachers and Scientist	21,225.99	0.00	0.00	0.00	21,225.99
89X0222 2011 General Science and Research Activities, Reim							
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	1,803.17	0.00	0.00	0.00	1,803.17
WA	KA-00-00-00-0	KA0000000, High Energy Physics	727,620.09	0.00	0.00	0.00	727,620.09
89X0222 2012 General Science and Research Activities, Reim							
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	2,158.47	0.00	0.00	0.00	2,158.47
WA	KA-00-00-00-0	KA0000000, High Energy Physics	1,177,289.17	0.00	0.00	0.00	1,177,289.17
	KB-00-00-00-0	KB0000000 - Nuclear Physics	488.62	0.00	0.00	0.00	488.62
	KC-00-00-00-0	KC0000000, Basic Energy Sciences	101,498.69	0.00	0.00	0.00	101,498.69
89X0222 2013 General Science and Research Activities, Oper							
	39-KA-00-00-0 PRN11SC40000	39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE	1,160,666.75	0.00	0.00	0.00	1,160,666.75
	39-KA-00-00-0 PRN11SC41000	39KA00000PRN11SC41000, Muon to Electron Coversion Experiment	1,942,752.21	0.00	0.00	0.00	1,942,752.21
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	3,025.59	0.00	0.00	0.00	3,025.59
WA	KA-00-00-00-0	KA0000000, High Energy Physics	11,707,306.30	0.00	0.00	0.00	11,707,306.30
	KB-00-00-00-0	KB0000000 - Nuclear Physics	337,498.43	0.00	0.00	0.00	337,498.43
	KC-00-00-00-0	KC0000000, Basic Energy Sciences	279,587.59	0.00	0.00	0.00	279,587.59
	KJ-00-00-00-0	KJ0000000 - Advanced Scientific Computing Research	174,367.50	0.00	0.00	0.00	174,367.50
89X0222 2014 General Science and Research Activities, Oper							
	39-KA-00-00-0 PRN11SC40000	39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE	11,250,000.00	0.00	0.00	0.00	11,250,000.00
	39-KA-00-00-0 PRN11SC41000	39KA00000PRN11SC41000, Muon to Electron Coversion Experiment	35,000,000.00	0.00	0.00	0.00	35,000,000.00
	39-KG-02-00-0 PRN13SC70000	39KG02000PRN13SC70000, Utilities Upgrade at FNAL	33,881,310.52	0.00	0.00	0.00	33,881,310.52
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	443,251.36	(841.70)	0.00	(841.70)	442,409.66
WA	FS-10-00-00-0	FS1000000 - Safeguards and Security - Science	894,261.91	0.00	0.00	0.00	894,261.91
	KA-00-00-00-0	KA0000000, High Energy Physics	124,096,167.60	0.00	0.00	0.00	124,096,167.60
	KB-00-00-00-0	KB0000000 - Nuclear Physics	748,553.89	0.00	0.00	0.00	748,553.89
	KC-00-00-00-0	KC0000000, Basic Energy Sciences	45,000.00	0.00	0.00	0.00	45,000.00
	KJ-00-00-00-0	KJ0000000 - Advanced Scientific Computing Research	458,000.00	0.00	0.00	0.00	458,000.00
	KL-00-00-00-0	KL0000000 - Workforce Development for Teachers and Scientist	494,431.59	0.00	0.00	0.00	494,431.59

CHICAGO OPERATIONS OFFICE
FY 2015 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 2015 General Science and Research Activities, Oper								
WA	39-KA-00-00-0	PRN11SC40000	39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE	0.00	5,975,000.00	1,508,180.00	7,483,180.00	7,483,180.00
	39-KA-00-00-0	PRN11SC41000	39KA00000PRN11SC41000, Muon to Electron Coversion Experiment	0.00	18,750,000.00	5,000,000.00	23,750,000.00	23,750,000.00
2W	60-00-00-00-0		600000000 - Cost Of Reimbursable And Cooperative Work - Non-	0.00	431,917.13	39,307.33	471,224.46	471,224.46
WA	FS-10-00-00-0		FS1000000 - Safeguards and Security - Science	0.00	2,575,000.00	685,850.00	3,260,850.00	3,260,850.00
	KA-00-00-00-0		KA0000000, High Energy Physics	0.00	270,575,000.00	43,728,000.00	314,303,000.00	314,303,000.00
	KB-00-00-00-0		KB0000000 - Nuclear Physics	0.00	183,600.00	61,290.00	244,890.00	244,890.00
	KC-00-00-00-0		KC0000000, Basic Energy Sciences	0.00	675,000.00	0.00	675,000.00	675,000.00
	KJ-00-00-00-0		KJ0000000 - Advanced Scientific Computing Research	0.00	356,000.00	0.00	356,000.00	356,000.00
	KL-00-00-00-0		KL0000000 - Workforce Development for Teachers and Scientist	0.00	210,000.00	0.00	210,000.00	210,000.00
89X0243 2014 Materials Production and Other Defense Progra								
TF	HQ-00-00-00-0		HQ0000000	8,765.06	0.00	0.00	0.00	8,765.06
89X0243 2015 Materials Production and Other Defense Progra								
	HQ-00-00-00-0		HQ0000000	0.00	5,000.00	0.00	5,000.00	5,000.00

CHICAGO OPERATIONS OFFICE
FY 2015 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	8,765.06	0.00	0.00	0.00	8,765.06
			2015	25400	HQ1001000, Worker Advocacy	0.00	5,000.00	0.00	5,000.00	5,000.00
WA	FS-10-01-00-0		2014	25400	FS1001000, Protective Forces	496,794.29	0.00	0.00	0.00	496,794.29
			2015	25400	FS1001000, Protective Forces	0.00	1,129,000.00	330,000.00	1,459,000.00	1,459,000.00
	FS-10-02-00-0		2014	25400	FS1002000, Security Systems	301,026.97	0.00	0.00	0.00	301,026.97
			2015	25400	FS1002000, Security Systems	0.00	507,000.00	120,000.00	627,000.00	627,000.00
	FS-10-05-00-0		2014	25400	FS1005000, Cyber Security	50,382.30	0.00	0.00	0.00	50,382.30
			2015	25400	FS1005000, Cyber Security	0.00	724,000.00	182,000.00	906,000.00	906,000.00
	FS-10-07-00-0		2014	25400	FS1007000, Material Control and Accountability	42,509.58	0.00	0.00	0.00	42,509.58
			2015	25400	FS1007000, Material Control and Accountability	0.00	53,000.00	13,000.00	66,000.00	66,000.00
	FS-10-09-00-0		2014	25400	FS1009000, Program Management	3,548.77	0.00	0.00	0.00	3,548.77
			2015	25400	FS1009000, Program Management	0.00	162,000.00	40,850.00	202,850.00	202,850.00
	KA-11-02-03-4		2012	25400	KA1102034, Proton Facilities - Projects, Future Facility R&D	972,739.14	(750,000.00)	0.00	(750,000.00)	222,739.14
	KA-15-02-02-1		2012	25400	KA1502021, Advanced Technology Research, Accelerator Develop	204,550.03	0.00	0.00	0.00	204,550.03
	KA-21-01-02-0		2014	25400	KA2101020, National Laboratories	6,412,670.40	0.00	0.00	0.00	6,412,670.40
			2015	25400	KA2101020, National Laboratories	0.00	15,346,000.00	2,244,000.00	17,590,000.00	17,590,000.00
		OPEMIE30YB	2014	25400	KA2101020, National Laboratories	1,360,602.58	0.00	0.00	0.00	1,360,602.58
		OPEMIE30YB	2015	25400	KA2101020, National Laboratories	0.00	2,738,000.00	0.00	2,738,000.00	2,738,000.00
	KA-21-01-03-0		2013	25400	KA2101030, University Service Accounts	350,511.73	0.00	0.00	0.00	350,511.73
			2014	25400	KA2101030, University Service Accounts	223,000.00	0.00	0.00	0.00	223,000.00
			2015	25400	KA2101030, University Service Accounts	0.00	0.00	12,000.00	12,000.00	12,000.00
	KA-21-02-02-2		2014	25400	KA2102022, CMS Detector and Computing Support	14,549,947.76	0.00	0.00	0.00	14,549,947.76
			2015	25400	KA2102022, CMS Detector and Computing Support	0.00	22,338,000.00	3,375,000.00	25,713,000.00	25,713,000.00
	KA-21-03-01-1	EQUMIE30YB	2015	31001	KA2103011, MIE	0.00	2,887,000.00	595,000.00	3,482,000.00	3,482,000.00
		OPEMIE30YB	2015	31001	KA2103011, MIE	0.00	0.00	0.00	0.00	0.00
	KA-22-01-02-0		2014	25400	KA2201020, National Laboratories	4,661,590.19	0.00	0.00	0.00	4,661,590.19
			2015	25400	KA2201020, National Laboratories	0.00	14,531,000.00	2,189,000.00	16,720,000.00	16,720,000.00
	KA-22-01-03-0		2014	25400	KA2201030, University Service Accounts	291,584.23	0.00	0.00	0.00	291,584.23
			2015	25400	KA2201030, University Service Accounts	0.00	320,000.00	0.00	320,000.00	320,000.00
	KA-22-02-01-0		2015	25400	KA2202010, Experimental Operations and Support	0.00	500,000.00	0.00	500,000.00	500,000.00
	KA-22-02-02-1		2014	25400	KA2202021, Accelerator Operations	19,964,583.22	(4,500,000.00)	0.00	(4,500,000.00)	15,464,583.22
			2015	25400	KA2202021, Accelerator Operations	0.00	50,416,000.00	12,181,000.00	62,597,000.00	62,597,000.00
		AIP	2014	32003	KA2202021, Accelerator Operations	4,701,676.49	0.00	0.00	0.00	4,701,676.49
		AIP	2015	32003	KA2202021, Accelerator Operations	0.00	10,576,000.00	1,328,000.00	11,904,000.00	11,904,000.00
		EQU	2014	31003	KA2202021, Accelerator Operations	1,998,934.96	0.00	0.00	0.00	1,998,934.96
		EQU	2015	31003	KA2202021, Accelerator Operations	0.00	9,928,000.00	1,500,000.00	11,428,000.00	11,428,000.00
	KA-22-02-02-2		2013	25400	KA2202022, Detector and Computing	0.00	1,400,000.00	0.00	1,400,000.00	1,400,000.00
			2014	25400	KA2202022, Detector and Computing	11,989,749.96	(1,500,000.00)	0.00	(1,500,000.00)	10,489,749.96
			2015	25400	KA2202022, Detector and Computing	0.00	27,639,000.00	5,425,000.00	33,064,000.00	33,064,000.00
		EQU	2011	31003	KA2202022, Detector and Computing	316,414.90	0.00	0.00	0.00	316,414.90

CHICAGO OPERATIONS OFFICE
FY 2015 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-22-02-02-3		2013	25400 KA2202023, Other Complex Support	278,118.97	0.00	0.00	0.00	278,118.97
		EQU	2012	31003 KA2202023, Other Complex Support	0.00	750,000.00	0.00	750,000.00	750,000.00
		GPP	2013	32002 KA2202023, Other Complex Support	5,052,635.03	0.00	0.00	0.00	5,052,635.03
WA	KA-22-02-02-3	GPP	2014	32002 KA2202023, Other Complex Support	12,408,000.00	1,500,000.00	0.00	1,500,000.00	13,908,000.00
		GPP	2015	32002 KA2202023, Other Complex Support	0.00	12,463,000.00	0.00	12,463,000.00	12,463,000.00
	KA-22-02-81-1		2011	25400 KA2202811, Special Process Spares	26,491.11	0.00	0.00	0.00	26,491.11
			2013	25400 KA2202811, Special Process Spares	863,000.00	0.00	0.00	0.00	863,000.00
			2014	25400 KA2202811, Special Process Spares	3,310,105.84	0.00	0.00	0.00	3,310,105.84
			2015	25400 KA2202811, Special Process Spares	0.00	1,821,000.00	275,000.00	2,096,000.00	2,096,000.00
	KA-22-02-81-2		2005	25400 KA2202812, Common Use Stores	37,994.52	0.00	0.00	0.00	37,994.52
			2014	25400 KA2202812, Common Use Stores	189,326.18	0.00	0.00	0.00	189,326.18
	KA-22-03-01-1	EQUMIE01VK	2013	31001 KA2203011, MIE	565,438.08	0.00	0.00	0.00	565,438.08
		EQUMIE30YC	2014	31001 KA2203011, MIE	1,920,329.43	0.00	0.00	0.00	1,920,329.43
		EQUMIE30YC	2015	31001 KA2203011, MIE	0.00	6,750,000.00	1,125,000.00	7,875,000.00	7,875,000.00
		EQUMIE71RF	2013	31001 KA2203011, MIE	3,205,807.60	(1,400,000.00)	0.00	(1,400,000.00)	1,805,807.60
		OPEMIE01VK	2011	25400 KA2203011, MIE	284,714.08	0.00	0.00	0.00	284,714.08
		OPEMIE30YC	2014	25400 KA2203011, MIE	1,621,100.51	0.00	0.00	0.00	1,621,100.51
		OPEMIE30YC	2015	25400 KA2203011, MIE	0.00	3,000,000.00	500,000.00	3,500,000.00	3,500,000.00
		OPEMIE71RF	2009	25400 KA2203011, MIE	20,431.60	0.00	0.00	0.00	20,431.60
		OPEMIE71RF	2011	25400 KA2203011, MIE	100,000.00	0.00	0.00	0.00	100,000.00
	KA-22-03-01-2	OPELBNE	2014	25400 KA2203012, Line Item OPC	1,951,054.18	0.00	0.00	0.00	1,951,054.18
		OPELBNE	2015	25400 KA2203012, Line Item OPC	0.00	7,125,000.00	1,188,000.00	8,313,000.00	8,313,000.00
		OPEMu2E	2013	25400 KA2203012, Line Item OPC	1,071,942.17	0.00	0.00	0.00	1,071,942.17
	KA-22-03-02-0		2014	25400 KA2203020, Future Project R&D	1,938,923.51	0.00	0.00	0.00	1,938,923.51
			2015	25400 KA2203020, Future Project R&D	0.00	17,137,000.00	2,500,000.00	19,637,000.00	19,637,000.00
	KA-23-01-02-0		2014	25400 KA2301020, National Laboratories	2,596,033.17	0.00	0.00	0.00	2,596,033.17
			2015	25400 KA2301020, National Laboratories	0.00	8,044,000.00	1,206,000.00	9,250,000.00	9,250,000.00
	KA-23-02-01-0		2013	25400 KA2302010, Experimental Operations and Support	319,852.72	0.00	0.00	0.00	319,852.72
			2014	25400 KA2302010, Experimental Operations and Support	3,000,000.00	0.00	0.00	0.00	3,000,000.00
			2015	25400 KA2302010, Experimental Operations and Support	0.00	2,501,000.00	375,000.00	2,876,000.00	2,876,000.00
	KA-23-03-01-1	OPEMIE41ZA	2015	25400 KA2303011, MIE	0.00	550,000.00	0.00	550,000.00	550,000.00
		OPEMIE51AB	2015	25400 KA2303011, MIE	0.00	525,000.00	88,000.00	613,000.00	613,000.00
	KA-23-03-02-0		2014	25400 KA2303020, Future Project R&D	1,606,588.01	0.00	0.00	0.00	1,606,588.01
	KA-24-01-01-2		2014	25400 KA2401012, National Laboratories	2,119,799.47	0.00	0.00	0.00	2,119,799.47
			2015	25400 KA2401012, National Laboratories	0.00	8,242,000.00	1,238,000.00	9,480,000.00	9,480,000.00
	KA-24-01-01-9		2014	25400 KA2401019, Other Research	146,665.92	0.00	0.00	0.00	146,665.92
			2015	25400 KA2401019, Other Research	0.00	0.00	48,000.00	48,000.00	48,000.00
	KA-24-01-02-1		2014	25400 KA2401021, Scientific Discovery through Advanced Computing (	2,038,037.74	0.00	0.00	0.00	2,038,037.74
			2015	25400 KA2401021, Scientific Discovery through Advanced Computing (	0.00	1,448,000.00	219,000.00	1,667,000.00	1,667,000.00
	KA-24-01-02-2		2014	25400 KA2401022, Scientific Computing	523,852.49	0.00	0.00	0.00	523,852.49
			2015	25400 KA2401022, Scientific Computing	0.00	846,000.00	128,000.00	974,000.00	974,000.00
	KA-24-03-01-3		2014	25400 KA2403013, Other Projects	343,170.14	0.00	0.00	0.00	343,170.14
			2015	25400 KA2403013, Other Projects	0.00	638,000.00	96,000.00	734,000.00	734,000.00
		EQU	2014	31003 KA2403013, Other Projects	8,032.25	0.00	0.00	0.00	8,032.25

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	KA-25-01-01-2	2014	25400 KA2501012, National Laboratories	8,378,980.70	0.00	0.00	0.00	8,378,980.70
		2015	25400 KA2501012, National Laboratories	0.00	10,011,000.00	1,525,000.00	11,536,000.00	11,536,000.00
	KA-25-01-02-1	2014	25400 KA2501021, LHC Accelerator Research	2,596,647.51	0.00	0.00	0.00	2,596,647.51
WA	KA-25-01-02-1	2015	25400 KA2501021, LHC Accelerator Research	0.00	4,447,000.00	672,000.00	5,119,000.00	5,119,000.00
	KA-25-01-02-2	2014	25400 KA2501022, Muon Accelerators	2,245,603.20	0.00	0.00	0.00	2,245,603.20
		2015	25400 KA2501022, Muon Accelerators	0.00	4,633,000.00	700,000.00	5,333,000.00	5,333,000.00
	KA-25-01-03-2	2014	25400 KA2501032, National Laboratories	4,002,294.96	0.00	0.00	0.00	4,002,294.96
		2015	25400 KA2501032, National Laboratories	0.00	7,199,000.00	1,081,000.00	8,280,000.00	8,280,000.00
	KA-25-02-01-0	2014	25400 KA2502010, Accelerator Infrastructure and Test Facilities	4,716,012.29	3,000,000.00	0.00	3,000,000.00	7,716,012.29
		2015	25400 KA2502010, Accelerator Infrastructure and Test Facilities	0.00	11,121,000.00	1,650,000.00	12,771,000.00	12,771,000.00
	KA-25-02-02-0	2014	25400 KA2502020, Detector Infrastructure and Test Facilities	281,270.31	1,500,000.00	0.00	1,500,000.00	1,781,270.31
		2015	25400 KA2502020, Detector Infrastructure and Test Facilities	0.00	3,955,000.00	245,000.00	4,200,000.00	4,200,000.00
	EQU	2015	31003 KA2502020, Detector Infrastructure and Test Facilities	0.00	900,000.00	0.00	900,000.00	900,000.00
	KA-26-01-02-0	2015	25400 KA2601020, National Laboratories	0.00	0.00	20,000.00	20,000.00	20,000.00
	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	0.00	18,000.00	6,009.00	24,009.00	24,009.00
	KB-02-01-05-2	2013	25400 KB0201052, Heavy Ion Accelerator R&D Natl Lab Research	337,498.43	0.00	0.00	0.00	337,498.43
		2014	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	2014	25400 KB0301020, National Laboratory Research	248,553.89	0.00	0.00	0.00	248,553.89
		2015	25400 KB0301020, National Laboratory Research	0.00	165,600.00	55,281.00	220,881.00	220,881.00
	KC-04-01-02-0	2012	25400 KC0401020, Advanced Photon Source (ANL)	42,706.20	0.00	0.00	0.00	42,706.20
		2013	25400 KC0401020, Advanced Photon Source (ANL)	117,293.80	0.00	0.00	0.00	117,293.80
		2015	25400 KC0401020, Advanced Photon Source (ANL)	0.00	315,000.00	0.00	315,000.00	315,000.00
	KC-04-01-04-0	2012	25400 KC0401040, National Synchrotron Light Source II (BNL)	42,706.21	0.00	0.00	0.00	42,706.21
		2013	25400 KC0401040, National Synchrotron Light Source II (BNL)	117,293.79	0.00	0.00	0.00	117,293.79
		2015	25400 KC0401040, National Synchrotron Light Source II (BNL)	0.00	315,000.00	0.00	315,000.00	315,000.00
	KC-04-06-02-0	2012	25400 KC0406020, Accelerator and Detector Research	16,086.28	0.00	0.00	0.00	16,086.28
		2013	25400 KC0406020, Accelerator and Detector Research	45,000.00	0.00	0.00	0.00	45,000.00
		2014	25400 KC0406020, Accelerator and Detector Research	45,000.00	0.00	0.00	0.00	45,000.00
		2015	25400 KC0406020, Accelerator and Detector Research	0.00	45,000.00	0.00	45,000.00	45,000.00
	KJ-04-03-00-0	2013	25400 KJ0403000, Computational Partnerships	49,566.85	0.00	0.00	0.00	49,566.85
		2014	25400 KJ0403000, Computational Partnerships	90,000.00	0.00	0.00	0.00	90,000.00
	KJ-04-04-00-0	2013	25400 KJ0404000, Next Generation Networking for Science	65,951.65	0.00	0.00	0.00	65,951.65
		2014	25400 KJ0404000, Next Generation Networking for Science	368,000.00	0.00	0.00	0.00	368,000.00
		2015	25400 KJ0404000, Next Generation Networking for Science	0.00	356,000.00	0.00	356,000.00	356,000.00
	KJ-05-04-00-0	2013	25400 KJ0504000, High Performance Network Facilities and Testbeds	58,849.00	0.00	0.00	0.00	58,849.00
	KL-10-01-00-0	2014	25400 KL1001000, Science Undergraduate Laboratory Internship	598.48	0.00	0.00	0.00	598.48
		2015	25400 KL1001000, Science Undergraduate Laboratory Internship	0.00	80,000.00	0.00	80,000.00	80,000.00
	KL-10-02-00-0	2014	25400 KL1002000, Community College Internship Program	1,422.07	10,236.52	0.00	10,236.52	11,658.59
		2015	25400 KL1002000, Community College Internship Program	0.00	60,000.00	0.00	60,000.00	60,000.00
	KL-10-03-00-0	2014	25400 KL1003000, Visiting Faculty Program	10,236.52	(10,236.52)	0.00	(10,236.52)	0.00
		2015	25400 KL1003000, Visiting Faculty Program	0.00	70,000.00	0.00	70,000.00	70,000.00
	KL-11-02-00-0	2010	25400 KL1102000, DOE Office of Science Graduate Fellowship	21,225.99	0.00	0.00	0.00	21,225.99
	KL-15-00-00-0	2014	25400 KL1500000, Outreach	482,174.52	0.00	0.00	0.00	482,174.52

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	KS-01-01-00-0	2005	25400 KS0101000, Accelerator and Experimental Facilities Research	132,094.98	0.00	0.00	0.00	132,094.98

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OPERATING EXPENSES (ENVIRONMENTAL)									
WO	KA-15-02-01-2	2009	25400	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	6.67	(6.67)	0.00	(6.67)	0.00
			31001	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	2,413.90	(2,413.90)	0.00	(2,413.90)	0.00
			31003	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	9,556.00	(9,556.00)	0.00	(9,556.00)	0.00
			32002	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	7,022.63	(7,022.63)	0.00	(7,022.63)	0.00

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CONSTRUCTION					
WA 39-KA-00-00-0 2013 39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE PRN11SC40000/32001	1,160,666.75	0.00	0.00	0.00	1,160,666.75
2013 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen PRN11SC41000/32001	1,942,752.21	0.00	0.00	0.00	1,942,752.21
2014 39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE PRN11SC40000/32001	11,250,000.00	0.00	0.00	0.00	11,250,000.00
2014 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen PRN11SC41000/32001	35,000,000.00	0.00	0.00	0.00	35,000,000.00
2015 39KA00000PRN11SC40000, Long Baseline Neutrino Experiment (PE PRN11SC40000/32001	0.00	5,975,000.00	1,508,180.00	7,483,180.00	7,483,180.00
2015 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen PRN11SC41000/32001	0.00	18,750,000.00	5,000,000.00	23,750,000.00	23,750,000.00
39-KG-02-00-0 2014 39KG02000PRN13SC70000, Utilities Upgrade at FNAL PRN13SC70000/32001	33,881,310.52	0.00	0.00	0.00	33,881,310.52

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REIMBURSABLE WORK									
2W	60-03-01-02-0	2015	25400	600301020, Foreign					
	AGRCRADA20150001			CHAGRCRADA20150001	0.00	97,087.40	0.00	97,087.40	97,087.40
	AGRWFO20140018			CHAGRWFO20140018	0.00	0.00	23,962.21	23,962.21	23,962.21
				TOTAL B&R REPORTING 60-03-01-02-0	0.00	97,087.40	23,962.21	121,049.61	121,049.61
	60-03-03-00-0	2011	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRWFO02001			CH AGRWFO02001	1,803.17	0.00	0.00	0.00	1,803.17
				TOTAL B&R REPORTING 60-03-03-00-0	1,803.17	0.00	0.00	0.00	1,803.17
	60-03-03-00-0	2012	25400	600303000, 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 60-03-03-00-0	2,158.47	0.00	0.00	0.00	2,158.47
	60-03-03-00-0	2013	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRWFO20110003			CHAGRWFO20110003	3,025.59	0.00	0.00	0.00	3,025.59
				TOTAL B&R REPORTING 60-03-03-00-0	3,025.59	0.00	0.00	0.00	3,025.59
	60-03-03-00-0	2014	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRCRADA20120001			CHAGRCRADA20120001	21,592.18	0.00	0.00	0.00	21,592.18
			25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRCRADA20140002			CHAGRCRADA20140002	30,696.49	0.00	0.00	0.00	30,696.49
	AGRCRADA20140008			CHAGRCRADA20140008	17,081.66	0.00	0.00	0.00	17,081.66
	AGRCRADA20140009			CHAGRCRADA20140009	23,762.31	0.00	0.00	0.00	23,762.31
	AGRCRADA20140011			CHAGRCRADA20140011	24,272.10	0.00	0.00	0.00	24,272.10
	AGRCRADA20140012			CHAGRCRADA20140012	23,932.96	0.00	0.00	0.00	23,932.96
	AGRWFO02001			CH AGRWFO02001	1,880.80	0.00	0.00	0.00	1,880.80
	AGRWFO20130002			CHAGRWFO20130002	45,264.59	0.00	0.00	0.00	45,264.59
	AGRWFO20130003			CHAGRWFO20130003	9,565.64	0.00	0.00	0.00	9,565.64
	AGRWFO20130011			CHAGRWFO20130011	39,016.72	0.00	0.00	0.00	39,016.72
	AGRWFO20130014			CHAGRWFO20130014	119,796.12	0.00	0.00	0.00	119,796.12
	AGRWFO20140003			CHAGRWFO20140003	35,923.22	0.00	0.00	0.00	35,923.22
				TOTAL B&R REPORTING 60-03-03-00-0	392,784.79	0.00	0.00	0.00	392,784.79

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	60-03-03-00-0	2015	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRCRADA20130006			CHAGRCRADA20130006	0.00	40,061.09	0.00	40,061.09	40,061.09
	AGRCRADA20140013			CHAGRCRADA20140013	0.00	18,800.00	0.00	18,800.00	18,800.00
2W	60-03-03-00-0	2015	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRWFO20130002			CHAGRWFO20130002	0.00	61,569.62	15,631.59	77,201.21	77,201.21
	AGRWFO20130011			CHAGRWFO20130011	0.00	46,481.00	0.00	46,481.00	46,481.00
	AGRWFO20130014			CHAGRWFO20130014	0.00	119,796.12	0.00	119,796.12	119,796.12
	AGRWFO20140003			CHAGRWFO20140003	0.00	23,076.78	0.00	23,076.78	23,076.78
	AGRWFO20140017			CHAGRWFO20140017	0.00	15,293.27	0.00	15,293.27	15,293.27
	AGRWFO20140019			CHAGRWFO20140019	0.00	2,974.85	(286.47)	2,688.38	2,688.38
				TOTAL B&R REPORTING 60-03-03-00-0	0.00	328,052.73	15,345.12	343,397.85	343,397.85
	60-03-05-00-0	2014	25400	600305000, Universities and Institutes					
	AGRCRADA20110001			CHAGRCRADA20110001	3,719.93	0.00	0.00	0.00	3,719.93
			25400	600305000, Universities and Institutes					
	AGRWFO20110001			CHAGRWFO20110001	841.70	(841.70)	0.00	(841.70)	0.00
	AGRWFO20130004			CHAGRWFO20130004	11,074.52	0.00	0.00	0.00	11,074.52
	AGRWFO20140014			CHAGRWFO20140014	34,830.42	0.00	0.00	0.00	34,830.42
				TOTAL B&R REPORTING 60-03-05-00-0	50,466.57	(841.70)	0.00	(841.70)	49,624.87
	60-03-05-00-0	2015	25400	600305000, Universities and Institutes					
	AGRWFO20140005			CHAGRWFO20140005	0.00	6,777.00	0.00	6,777.00	6,777.00
				TOTAL B&R REPORTING 60-03-05-00-0	0.00	6,777.00	0.00	6,777.00	6,777.00
3W	40-04-09-90-0	2010	25400	400409900, Other					
	AGRNNG10FC45I			CHAGRNNG10FC45I	8,092.80	0.00	0.00	0.00	8,092.80
				TOTAL B&R REPORTING 40-04-09-90-0	8,092.80	0.00	0.00	0.00	8,092.80