AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE 1 OF PAGES 1

2. AMENDMENT/MODIFICATION NO. 105

3. EFFECTIVE DATE 08/15/2012

4. REQUISITION/PURCHASE REQ. NO. 12SC007513

5. PROJECT NO. *(If applicable)*

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 06006

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

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

FERMI RESEARCH ALLIANCE, LLC
Attn: GARY LEONARD
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 Decrease: -$17,450.89
SEE APPROVED FUNDING PROGRAM NO. 15; DATED 8/9/2012

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 119; DEAR 970.5232-4; and by mutual agreement of the parties
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

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

TAS:: 89 0222 ::TAS

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 decreased by $17,450.89 of ARRA funding, from a total of $2,530,861,020.91 to a total of $2,530,843,570.02.
FOB: Destination
Period of Performance: 01/01/2007 to 12/31/2015

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)*
Rory S. Simpson

15B. CONTRACTOR/OFFEROR
Cynthia Slonger
(Signature of person authorized to sign)

15C. DATE SIGNED 8/16/2012

16B. UNITED STATES OF AMERICA
(Signature of Contracting Officer)

16C. DATE SIGNED 08/14/2012

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

CHICAGO OPERATIONS OFFICE
FY 2012 APPROVED FUNDING PROGRAM NO. 15
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	104,840,816.91	320,788,575.27	0.00	320,788,575.27	425,629,392.18
CAPITAL EQUIPMENT	97,810,139.62	48,877,123.29	0.00	48,877,123.29	146,687,262.91
CONSTRUCTION	7,138,568.33	31,175,000.00	(17,450.89)	31,157,549.11	38,296,117.44
REIMBURSABLE WORK	19,059,358.79	1,019,866.32	0.00	1,019,866.32	20,079,225.11
GRAND TOTAL	228,848,883.65	401,860,564.88	(17,450.89)	401,843,113.99	630,691,997.64

Certification of Funds Availability:

Certifying Official

8-9-2012
Date

CHICAGO OPERATIONS OFFICE
FY 2012 APPROVED FUNDING PROGRAM NO. 15
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	37,762,536.32	0.00	(17,450.89)	(17,450.89)	37,745,085.43
89120243 2012 Other Defense Activities Non-Program Directi							
U2	HQ-00-00-00-0	HQ0000000	0.00	8,000.00	0.00	8,000.00	8,000.00
89X0222 2005 General Science and Research Activities, Oper							
WA	KA-00-00-00-0	KA0000000, High Energy Physics	223,662.36	(317.85)	0.00	(317.85)	223,344.51
	KS-01-00-00-0	KS0100000 - Research, Development And Operations	161,412.93	0.00	0.00	0.00	161,412.93
89X0222 2007 General Science and Research Activities, Oper							
	KA-00-00-00-0	KA0000000, High Energy Physics	3,105.00	0.00	0.00	0.00	3,105.00
89X0222 2008 General Science and Research Activities, Oper							
	KA-00-00-00-0	KA0000000, High Energy Physics	1,310,545.29	0.00	0.00	0.00	1,310,545.29
	KJ-00-00-00-0	KJ0000000 - Advanced Scientific Computing Research	7,535.71	(7,535.71)	0.00	(7,535.71)	0.00
89X0222 2009 General Science and Research Activities, Reim							
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	0.08	0.00	0.00	0.00	0.08
WA	KA-00-00-00-0	KA0000000, High Energy Physics	2,901,139.49	0.00	0.00	0.00	2,901,139.49
	KB-00-00-00-0	KB0000000 - Nuclear Physics	46,364.29	0.00	0.00	0.00	46,364.29
89X0222 2010 General Science and Research Activities, Reim							
3W	40-00-00-00-0	400000000 - Cost Of Reimbursable Work And Cooperative Work -	103,198.86	0.00	0.00	0.00	103,198.86
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	18,794,957.69	0.00	0.00	0.00	18,794,957.69
WA	FS-10-00-00-0	FS1000000 - Safeguards and Security - Science	71,862.97	0.00	0.00	0.00	71,862.97
	KA-00-00-00-0	KA0000000, High Energy Physics	16,835,949.91	0.00	0.00	0.00	16,835,949.91
	KB-00-00-00-0	KB0000000 - Nuclear Physics	125,685.07	(8.88)	0.00	(8.88)	125,676.19
	KC-00-00-00-0	KC0000000, Basic Energy Services	13,202.90	0.00	0.00	0.00	13,202.90
	KL-00-00-00-0	KL0000000 - Workforce Development for Teachers and Scientist	68,893.81	0.00	0.00	0.00	68,893.81
89X0222 2011 General Science and Research Activities, Reim							
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	161,202.16	0.00	0.00	0.00	161,202.16
WA	FS-10-00-00-0	FS1000000 - Safeguards and Security - Science	1,708,546.61	0.00	0.00	0.00	1,708,546.61
	KA-00-00-00-0	KA0000000, High Energy Physics	147,155,660.91	0.00	0.00	0.00	147,155,660.91
	KB-00-00-00-0	KB0000000 - Nuclear Physics	536,570.55	0.00	0.00	0.00	536,570.55
	KC-00-00-00-0	KC0000000, Basic Energy Services	76,387.80	0.00	0.00	0.00	76,387.80
	KJ-00-00-00-0	KJ0000000 - Advanced Scientific Computing Research	697,370.93	0.00	0.00	0.00	697,370.93
	KL-00-00-00-0	KL0000000 - Workforce Development for Teachers and Scientist	28,742.04	0.00	0.00	0.00	28,742.04
89X0222 2012 General Science and Research Activities, Oper							
	39-KA-00-00-0 PRN11SC41000	39KA00000PRN11SC40000, Muon to Electron Coversion Experiment	0.00	24,000,000.00	0.00	24,000,000.00	24,000,000.00
2W	60-00-00-00-0	600000000 - Cost Of Reimbursable And Cooperative Work - Non-	0.00	1,019,866.32	0.00	1,019,866.32	1,019,866.32
WA	FS-10-00-00-0	FS1000000 - Safeguards and Security - Science	0.00	3,533,000.00	0.00	3,533,000.00	3,533,000.00

CHICAGO OPERATIONS OFFICE
FY 2012 APPROVED FUNDING PROGRAM NO. 15
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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 2012	General Science and Research Activities, Oper						
WA	KA-00-00-00-0	KA0000000, High Energy Physics	0.00	372,367,140.00	0.00	372,367,140.00	372,367,140.00
	KB-00-00-00-0	KB0000000 - Nuclear Physics	0.00	525,000.00	0.00	525,000.00	525,000.00
	KC-00-00-00-0	KC0000000, Basic Energy Services	0.00	35,000.00	0.00	35,000.00	35,000.00
	KJ-00-00-00-0	KJ0000000 - Advanced Scientific Computing Research	0.00	265,421.00	0.00	265,421.00	265,421.00
	KL-00-00-00-0	KL0000000 - Workforce Development for Teachers and Scientist	0.00	115,000.00	0.00	115,000.00	115,000.00
89X0243 2010	Materials Production and Other Defense Progra						
TF	HQ-00-00-00-0	HQ0000000	4,803.85	0.00	0.00	0.00	4,803.85
89X0243 2012	Materials Production and Other Defense Progra						
	HQ-00-00-00-0	HQ0000000	0.00	0.00	0.00	0.00	0.00
89X4180 2009	Isotope Production and Distribution Fund						
VE	ST-00-00-00-0	ST0000000 - Isotope Production And Distribution Program	49,546.12	0.00	0.00	0.00	49,546.12

CHICAGO OPERATIONS OFFICE
FY 2012 APPROVED FUNDING PROGRAM NO. 15
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	2010	25400	HQ1001000, Worker Advocacy	4,803.85	0.00	0.00	0.00	4,803.85
		2012	25400	HQ1001000, Worker Advocacy	0.00	0.00	0.00	0.00	0.00
U2		2012	25400	HQ1001000, Worker Advocacy	0.00	8,000.00	0.00	8,000.00	8,000.00
VE	ST-50-02-00-0	2009	25400	ST5002000, University Research	49,546.12	0.00	0.00	0.00	49,546.12
WA	FS-10-01-00-0	2011	25400	FS1001000, Protective Forces	722,671.42	0.00	0.00	0.00	722,671.42
		2012	25400	FS1001000, Protective Forces	0.00	1,838,000.00	0.00	1,838,000.00	1,838,000.00
	FS-10-02-00-0	2011	25400	FS1002000, Security Systems	309,276.64	0.00	0.00	0.00	309,276.64
		2012	25400	FS1002000, Security Systems	0.00	565,000.00	0.00	565,000.00	565,000.00
	EQU	2010	31003	FS1002000, Security Systems	71,862.97	0.00	0.00	0.00	71,862.97
	FS-10-05-00-0	2011	25400	FS1005000, Cyber Security	672,677.98	0.00	0.00	0.00	672,677.98
		2012	25400	FS1005000, Cyber Security	0.00	925,000.00	0.00	925,000.00	925,000.00
	FS-10-07-00-0	2011	25400	FS1007000, Material Control and Accountability	2,244.75	0.00	0.00	0.00	2,244.75
		2012	25400	FS1007000, Material Control and Accountability	0.00	45,000.00	0.00	45,000.00	45,000.00
	FS-10-09-00-0	2011	25400	FS1009000, Program Management	1,675.82	0.00	0.00	0.00	1,675.82
		2012	25400	FS1009000, Program Management	0.00	160,000.00	0.00	160,000.00	160,000.00
	KA-11-01-02-1	2011	25400	KA1101021, Proton Research, National Laboratory, Energy Fron	7,476,897.75	0.00	0.00	0.00	7,476,897.75
		2012	25400	KA1101021, Proton Research, National Laboratory, Energy Fron	0.00	23,503,500.00	0.00	23,503,500.00	23,503,500.00
	KA-11-01-02-2	2011	25400	KA1101022, Proton Research, National Laboratory, Intensity F	2,129,607.46	0.00	0.00	0.00	2,129,607.46
		2012	25400	KA1101022, Proton Research, National Laboratory, Intensity F	0.00	14,501,000.00	0.00	14,501,000.00	14,501,000.00
	KA-11-01-03-0	2010	25400	KA1101030, University Service Accounts	198,119.24	0.00	0.00	0.00	198,119.24
		2011	25400	KA1101030, University Service Accounts	1,662,230.00	0.00	0.00	0.00	1,662,230.00
		2012	25400	KA1101030, University Service Accounts	0.00	657,420.00	0.00	657,420.00	657,420.00
	KA-11-02-01-1	2011	25400	KA1102011, Accelerator Operations	13,012,505.28	0.00	0.00	0.00	13,012,505.28
		2012	25400	KA1102011, Accelerator Operations	0.00	79,540,000.00	0.00	79,540,000.00	79,540,000.00
	KA-11-02-01-2	2011	25400	KA1102012, Detector Operations	7,403,182.42	0.00	0.00	0.00	7,403,182.42
		2012	25400	KA1102012, Detector Operations	0.00	30,721,000.00	0.00	30,721,000.00	30,721,000.00
	KA-11-02-02-1 AIP	2009	32003	KA1102021, Accelerator Support	168,270.90	0.00	0.00	0.00	168,270.90
	AIP	2010	32003	KA1102021, Accelerator Support	20,000.00	0.00	0.00	0.00	20,000.00
	EQU	2010	31003	KA1102021, Accelerator Support	168,739.91	0.00	0.00	0.00	168,739.91
	EQU	2011	31003	KA1102021, Accelerator Support	2,883,059.74	0.00	0.00	0.00	2,883,059.74
	EQU	2012	31003	KA1102021, Accelerator Support	0.00	3,308,000.00	0.00	3,308,000.00	3,308,000.00
	KA-11-02-02-2 EQU	2011	31003	KA1102022, Detector Support	1,957,386.79	0.00	0.00	0.00	1,957,386.79
	KA-11-02-02-3	2011	25400	KA1102023, Other Tevatron Support Costs	1,343.17	0.00	0.00	0.00	1,343.17
	EQU	2010	31003	KA1102023, Other Tevatron Support Costs	93,464.66	0.00	0.00	0.00	93,464.66
	EQU	2011	31003	KA1102023, Other Tevatron Support Costs	1,840,000.00	(707,838.52)	0.00	(707,838.52)	1,132,161.48
	EQU	2012	31003	KA1102023, Other Tevatron Support Costs	0.00	0.00	0.00	0.00	0.00
	GPP	2009	32002	KA1102023, Other Tevatron Support Costs	928,174.80	0.00	0.00	0.00	928,174.80
	GPP	2010	32002	KA1102023, Other Tevatron Support Costs	992,000.00	0.00	0.00	0.00	992,000.00

CHICAGO OPERATIONS OFFICE
FY 2012 APPROVED FUNDING PROGRAM NO. 15
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
		GPP	2011	32002	KA1102023, Other Tevatron Support Costs	3,177,278.00	0.00	0.00	0.00	3,177,278.00
		GPP	2012	32002	KA1102023, Other Tevatron Support Costs	0.00	7,175,000.00	0.00	7,175,000.00	7,175,000.00
	KA-11-02-03-2		2008	25400	KA1102032, Detector RandD	431,581.29	0.00	0.00	0.00	431,581.29
WA	KA-11-02-03-3		2012	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	0.00	0.00	0.00	0.00	0.00
		EQUMIE01VK	2012	31001	KA1102033, Proton Facilities - Projects, Current Facility Pr	0.00	6,000,000.00	0.00	6,000,000.00	6,000,000.00
		EQUMIE71RF	2010	31001	KA1102033, Proton Facilities - Projects, Current Facility Pr	14,124,749.91	0.00	0.00	0.00	14,124,749.91
		EQUMIE71RF	2011	31001	KA1102033, Proton Facilities - Projects, Current Facility Pr	44,220,000.00	0.00	0.00	0.00	44,220,000.00
		EQUMIE71RF	2012	31001	KA1102033, Proton Facilities - Projects, Current Facility Pr	0.00	41,240,000.00	0.00	41,240,000.00	41,240,000.00
		EQUMIE81SB	2009	31001	KA1102033, Proton Facilities - Projects, Current Facility Pr	47,407.93	0.00	0.00	0.00	47,407.93
		OPELBNE	2011	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	2,892,957.94	17,634.90	0.00	17,634.90	2,910,592.84
		OPELBNE	2012	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	0.00	13,300,000.00	0.00	13,300,000.00	13,300,000.00
		OPEMIE01VK	2011	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	3,918,433.96	0.00	0.00	0.00	3,918,433.96
		OPEMIE71RF	2009	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	519,720.97	0.00	0.00	0.00	519,720.97
		OPEMIE71RF	2011	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	1,000,000.00	0.00	0.00	0.00	1,000,000.00
		OPEMu2E	2011	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	467,877.37	0.00	0.00	0.00	467,877.37
		OPEMu2E	2012	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr	0.00	8,000,000.00	0.00	8,000,000.00	8,000,000.00
	KA-11-02-03-4		2011	25400	KA1102034, Proton Facilities - Projects, Future Facility R&D	5,224,777.04	(17,634.90)	0.00	(17,634.90)	5,207,142.14
			2012	25400	KA1102034, Proton Facilities - Projects, Future Facility R&D	0.00	13,900,000.00	0.00	13,900,000.00	13,900,000.00
	KA-11-02-05-3		2011	25400	KA1102053, LHC Accelerator RandD	1,676,630.05	0.00	0.00	0.00	1,676,630.05
			2012	25400	KA1102053, LHC Accelerator RandD	0.00	2,809,000.00	0.00	2,809,000.00	2,809,000.00
	KA-11-02-05-4		2011	25400	KA1102054, Proton Facilities - LHC Support, ATLAS Detector &	235,668.02	0.00	0.00	0.00	235,668.02
	KA-11-02-05-5		2011	25400	KA1102055, Proton Facilities - LHC Support, CMS Detector & C	11,130,375.35	0.00	0.00	0.00	11,130,375.35
			2012	25400	KA1102055, Proton Facilities - LHC Support, CMS Detector & C	0.00	33,490,720.00	0.00	33,490,720.00	33,490,720.00
		EQU	2011	31003	KA1102055, Proton Facilities - LHC Support, CMS Detector & C	2,705,945.57	0.00	0.00	0.00	2,705,945.57
	KA-11-02-05-6	OPEMIE91TD	2010	25400	KA1102056, Proton Facilities - LHC Upgrade Projects	21.60	0.00	0.00	0.00	21.60
	KA-11-02-81-1		2008	25400	KA1102811, Special Process Spares	720,404.32	0.00	0.00	0.00	720,404.32
			2009	25400	KA1102811, Special Process Spares	1,122,000.00	0.00	0.00	0.00	1,122,000.00
			2011	25400	KA1102811, Special Process Spares	2,900,000.00	0.00	0.00	0.00	2,900,000.00
			2012	25400	KA1102811, Special Process Spares	0.00	1,000,000.00	0.00	1,000,000.00	1,000,000.00
	KA-11-02-81-2		2005	25400	KA1102812, Common Use Stores	207,362.51	0.00	0.00	0.00	207,362.51
	KA-12-01-02-0		2010	25400	KA1201020, National Laboratory Research	3,308.87	0.00	0.00	0.00	3,308.87
			2011	25400	KA1201020, National Laboratory Research	776,000.00	0.00	0.00	0.00	776,000.00
			2012	25400	KA1201020, National Laboratory Research	0.00	250,000.00	0.00	250,000.00	250,000.00
	KA-13-01-02-0	EQU	2009	31003	KA1301020, National Laboratory Research	46,823.22	(46,823.22)	0.00	(46,823.22)	0.00
	KA-13-01-02-1		2011	25400	KA1301021, Non-Accelerator Physics Research, National Labora	2,436,656.54	0.00	0.00	0.00	2,436,656.54
			2012	25400	KA1301021, Non-Accelerator Physics Research, National Labora	0.00	10,082,000.00	0.00	10,082,000.00	10,082,000.00
	KA-13-01-02-5		2011	25400	KA1301025, Non-Accelerator Research, National Laboratory, Ex	2,453,076.49	(2,453,076.49)	0.00	(2,453,076.49)	0.00
	KA-13-01-02-6		2009	25400	KA1301026, Experimental Operations and Other-Cosmic Frontier	0.00	46,823.22	0.00	46,823.22	46,823.22
			2011	25400	KA1301026, Experimental Operations and Other-Cosmic Frontier	0.00	2,453,076.49	0.00	2,453,076.49	2,453,076.49
			2012	25400	KA1301026, Experimental Operations and Other-Cosmic Frontier	0.00	3,470,000.00	0.00	3,470,000.00	3,470,000.00
	KA-13-01-03-0		2008	25400	KA1301030, Projects	142,142.47	0.00	0.00	0.00	142,142.47
		EQU01CI	2005	31001	KA1301030, Projects	317.85	(317.85)	0.00	(317.85)	0.00
	KA-13-01-03-1	EQUMIE81SA	2011	31001	KA1301031, Non-Accelerator Physics, Research, Projects, Curr	1,857,058.43	0.00	0.00	0.00	1,857,058.43
		EQUMIE91UH	2010	31001	KA1301031, Non-Accelerator Physics, Research, Projects, Curr	606,281.46	0.00	0.00	0.00	606,281.46

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		OPEMIE81SA	2009	25400	KA1301031, Non-Accelerator Physics, Research, Projects, Curr	10,982.60	0.00	0.00	0.00	10,982.60
	KA-13-01-03-2		2011	25400	KA1301032, Non-Accelerator Physics Research, Projects, Futur	1,659,153.35	0.00	0.00	0.00	1,659,153.35
			2012	25400	KA1301032, Non-Accelerator Physics Research, Projects, Futur	0.00	1,520,000.00	0.00	1,520,000.00	1,520,000.00
WA	KA-14-01-02-0		2011	25400	KA1401020, National Laboratory Research	747,579.73	707,838.52	0.00	707,838.52	1,455,418.25
			2012	25400	KA1401020, National Laboratory Research	0.00	9,700,000.00	0.00	9,700,000.00	9,700,000.00
	KA-14-01-03-0		2011	25400	KA1401030, Scientific Discovery through Advanced Computing (	1,170,452.87	0.00	0.00	0.00	1,170,452.87
			2012	25400	KA1401030, Scientific Discovery through Advanced Computing (	0.00	2,037,000.00	0.00	2,037,000.00	2,037,000.00
	KA-14-01-04-0		2011	25400	KA1401040, Other	308,269.73	0.00	0.00	0.00	308,269.73
			2012	25400	KA1401040, Other	0.00	685,000.00	0.00	685,000.00	685,000.00
		EQU	2008	31003	KA1401040, Other	16,417.21	(16,417.21)	0.00	(16,417.21)	0.00
	KA-14-01-05-0		2008	25400	KA1401050, Theoretical Physics Research, Computational HEP	0.00	16,417.21	0.00	16,417.21	16,417.21
			2011	25400	KA1401050, Theoretical Physics Research, Computational HEP	142,149.72	85,837.36	0.00	85,837.36	227,987.08
			2012	25400	KA1401050, Theoretical Physics Research, Computational HEP	0.00	1,850,000.00	0.00	1,850,000.00	1,850,000.00
		EQU	2011	31003	KA1401050, Theoretical Physics Research, Computational HEP	712,922.17	(85,837.36)	0.00	(85,837.36)	627,084.81
	KA-15-01-02-0		2010	25400	KA1501020, National Laboratory Research	0.00	2,599.22	0.00	2,599.22	2,599.22
			2011	25400	KA1501020, National Laboratory Research	1,177,207.23	0.00	0.00	0.00	1,177,207.23
			2012	25400	KA1501020, National Laboratory Research	0.00	4,955,000.00	0.00	4,955,000.00	4,955,000.00
		EQU	2005	31003	KA1501020, National Laboratory Research	15,982.00	0.00	0.00	0.00	15,982.00
		EQU	2007	31003	KA1501020, National Laboratory Research	3,105.00	0.00	0.00	0.00	3,105.00
		EQU	2009	31003	KA1501020, National Laboratory Research	57,759.07	0.00	0.00	0.00	57,759.07
		EQU	2010	31003	KA1501020, National Laboratory Research	105,000.00	(2,599.22)	0.00	(2,599.22)	102,400.78
	KA-15-02-01-1		2010	25400	KA1502011, Advanced Technology Research, Accelerator Develop	0.00	195,529.18	0.00	195,529.18	195,529.18
			2011	25400	KA1502011, Advanced Technology Research, Accelerator Develop	7,383,645.17	500,000.00	0.00	500,000.00	7,883,645.17
			2012	25400	KA1502011, Advanced Technology Research, Accelerator Develop	0.00	16,253,000.00	0.00	16,253,000.00	16,253,000.00
		EQU	2010	31003	KA1502011, Advanced Technology Research, Accelerator Develop	335,928.80	(195,529.18)	0.00	(195,529.18)	140,399.62
		EQU	2011	31003	KA1502011, Advanced Technology Research, Accelerator Develop	500,000.00	(500,000.00)	0.00	(500,000.00)	0.00
	KA-15-02-01-2		2011	25400	KA1502012, Advanced Technology Research, Accelerator Develop	3,290,251.43	0.00	0.00	0.00	3,290,251.43
			2012	25400	KA1502012, Advanced Technology Research, Accelerator Develop	0.00	12,800,000.00	0.00	12,800,000.00	12,800,000.00
	KA-15-02-02-1		2010	25400	KA1502021, Advanced Technology Research, Accelerator Develop	0.00	15,378.44	0.00	15,378.44	15,378.44
			2011	25400	KA1502021, Advanced Technology Research, Accelerator Develop	1,757,316.69	0.00	0.00	0.00	1,757,316.69
			2012	25400	KA1502021, Advanced Technology Research, Accelerator Develop	0.00	8,816,000.00	0.00	8,816,000.00	8,816,000.00
		EQU	2010	31003	KA1502021, Advanced Technology Research, Accelerator Develop	15,378.44	(15,378.44)	0.00	(15,378.44)	0.00
	KA-15-02-02-3		2011	25400	KA1502023, Advanced Technology Research, Accelerator Develop	1,067,747.70	0.00	0.00	0.00	1,067,747.70
			2012	25400	KA1502023, Advanced Technology Research, Accelerator Develop	0.00	1,500,000.00	0.00	1,500,000.00	1,500,000.00
	KA-15-02-03-0		2011	25400	KA1502030, Muon Accelerators	769,860.50	0.00	0.00	0.00	769,860.50
			2012	25400	KA1502030, Muon Accelerators	0.00	8,601,000.00	0.00	8,601,000.00	8,601,000.00
	KA-15-03-02-0		2010	25400	KA1503020, Detector Development	0.00	53,771.42	0.00	53,771.42	53,771.42
			2011	25400	KA1503020, Detector Development	1,030,157.25	0.00	0.00	0.00	1,030,157.25
			2012	25400	KA1503020, Detector Development	0.00	10,702,500.00	0.00	10,702,500.00	10,702,500.00
		EQU	2010	31003	KA1503020, Detector Development	172,957.02	(53,771.42)	0.00	(53,771.42)	119,185.60
	KB-01-01-02-2		2010	25400	KB0101022, Other National Laboratory Research	8.88	(8.88)	0.00	(8.88)	0.00
	KB-02-01-02-1		2012	25400	KB0201021, RHIC Research	0.00	0.00	0.00	0.00	0.00
		EQUMIE81SF	2009	31001	KB0201021, RHIC Research	46,364.29	(46,364.29)	0.00	(46,364.29)	0.00
	KB-02-01-02-2		2012	25400	KB0201022, Other National Laboratory Research	0.00	25,000.00	0.00	25,000.00	25,000.00

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	KB-02-01-05-2	2011	25400	KB0201052, Heavy Ion Accelerator R&D Natl Lab Research	489,601.31	0.00	0.00	0.00	489,601.31
		2012	25400	KB0201052, Heavy Ion Accelerator R&D Natl Lab Research	0.00	500,000.00	0.00	500,000.00	500,000.00
	KB-03-01-02-0	2009	25400	KB0301020, National Laboratory Research	0.00	46,364.29	0.00	46,364.29	46,364.29
WA	KB-03-01-02-0	2011	25400	KB0301020, National Laboratory Research	46,969.24	0.00	0.00	0.00	46,969.24
	KB-03-01-05-2	2010	25400	KB0301052, National Laboratory Research	125,676.19	0.00	0.00	0.00	125,676.19
	KC-02-02-01-0	2010	25400	KC0202010, X-Ray and Neutron Scattering Research	13,202.90	0.00	0.00	0.00	13,202.90
	KC-04-07-00-0	2011	25400	KC0407000, Accelerator and Detector Research	76,387.80	0.00	0.00	0.00	76,387.80
		2012	25400	KC0407000, Accelerator and Detector Research	0.00	35,000.00	0.00	35,000.00	35,000.00
	KJ-01-01-04-0	2008	25400	KJ0101040, Distributed Network Environment Research	7,535.71	(7,535.71)	0.00	(7,535.71)	0.00
	KJ-04-03-00-0	2012	25400	KJ0403000, Computational Partnerships	0.00	90,000.00	0.00	90,000.00	90,000.00
	KJ-04-04-00-0	2011	25400	KJ0404000, Next Generation Networking for Science	594,787.22	0.00	0.00	0.00	594,787.22
	KJ-05-04-00-0	2011	25400	KJ0504000, High Performance Network Facilities and Testbeds	102,583.71	0.00	0.00	0.00	102,583.71
		2012	25400	KJ0504000, High Performance Network Facilities and Testbeds	0.00	175,421.00	0.00	175,421.00	175,421.00
	KL-01-01-00-0	2010	25400	KL0101000, Science Undergraduate Laboratory Internship (SULI	49,951.18	13,728.55	0.00	13,728.55	63,679.73
		2011	25400	KL0101000, Science Undergraduate Laboratory Internship (SULI	17,400.00	841.52	0.00	841.52	18,241.52
	KL-01-02-00-0	2011	25400	KL0102000, Community College Institute of Science and Techno	10,500.52	0.00	0.00	0.00	10,500.52
		2012	25400	KL0102000, Community College Institute of Science and Techno	0.00	45,000.00	0.00	45,000.00	45,000.00
	KL-01-03-00-0	2011	25400	KL0103000, Pre-Service Teachers (PST)	841.52	(841.52)	0.00	(841.52)	0.00
	KL-02-01-00-0	2010	25400	KL0201000, Laboratory Science Teacher Professional Developme	13,728.55	(13,728.55)	0.00	(13,728.55)	0.00
	KL-02-02-00-0	2010	25400	KL0202000, Faculty and Student Teams (FaST)	5,214.08	0.00	0.00	0.00	5,214.08
		2012	25400	KL0202000, Faculty and Student Teams (FaST)	0.00	70,000.00	0.00	70,000.00	70,000.00
	KS-01-01-00-0	2005	25400	KS0101000, Accelerator and Experimental Facilities Research	161,412.93	0.00	0.00	0.00	161,412.93

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OPERATING EXPENSES (ENVIRONMENTAL)									
WO	KA-11-02-02-3	2009	32002	KA1102023, Other Tevatron Support Costs					
	2005140			Fermilab GPP augmentation	464,733.21	0.00	(17,450.89)	(17,450.89)	447,282.32
	KA-11-02-03-3	2009	25400	KA1102033, Proton Facilities - Projects, Current Facility Pr					
	2005175			Long Baseline Neutrino Experiment	300,687.64	45,222.34	0.00	45,222.34	345,909.98
			31001	KA1102033, Proton Facilities - Projects, Current Facility Pr					
	2005120			NOvA MIE Fully fund the cooperative agreement with the Unive	15,848,210.03	0.00	0.00	0.00	15,848,210.03
	KA-11-02-03-4	2009	25400	KA1102034, Proton Facilities - Projects, Future Facility R&D					
	2005175			Long Baseline Neutrino Experiment	45,222.34	(45,222.34)	0.00	(45,222.34)	0.00
	KA-15-02-01-1	2009	25400	KA1502011, Advanced Technology Research, Accelerator Develop					
	2005170			Advanced technology R&D augmentation	526,664.75	0.00	0.00	0.00	526,664.75
	KA-15-02-01-2	2009	25400	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	9,831,889.78	0.00	0.00	0.00	9,831,889.78
			31001	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	6,041,265.61	0.00	0.00	0.00	6,041,265.61
			31003	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	3,315,751.54	0.00	0.00	0.00	3,315,751.54
			32002	KA1502012, Advanced Technology Research, Accelerator Develop					
	2005130			Superconducting Radio Frequency (SRF) R&D Fully fund the dev	1,388,111.42	0.00	0.00	0.00	1,388,111.42

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CONSTRUCTION					
WA 39-KA-00-00-0 2012 39KA00000PRN11SC41000, Muon to Electron Conversion Experimen PRN11SC41000/32001	0.00	24,000,000.00	0.00	24,000,000.00	24,000,000.00

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REIMBURSABLE WORK									
2W	60-03-03-00-0	2009	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRCRADA20060002			CHAGRCRADA20060002	0.08	0.00	0.00	0.00	0.08
				TOTAL B&R REPORTING 60-03-03-00-0	0.08	0.00	0.00	0.00	0.08
	60-03-03-00-0	2010	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRWFO20100002			CHAGRWFO20100002	18,794,957.69	0.00	0.00	0.00	18,794,957.69
				TOTAL B&R REPORTING 60-03-03-00-0	18,794,957.69	0.00	0.00	0.00	18,794,957.69
	60-03-03-00-0	2011	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRWFO02001			CH AGRWFO02001	3,693.41	0.00	0.00	0.00	3,693.41
	AGRWFO04001			CHAGRWFO04001	19,765.46	0.00	0.00	0.00	19,765.46
				TOTAL B&R REPORTING 60-03-03-00-0	23,458.87	0.00	0.00	0.00	23,458.87
	60-03-03-00-0	2012	25400	600303000, State and Local Governments and Non-Profit Organi					
	AGRCRADA20060003			CHAGRCRADA20060003	0.00	48,043.00	0.00	48,043.00	48,043.00
	AGRCRADA20110002			CHAGRCRADA20110002	0.00	60,000.00	0.00	60,000.00	60,000.00
	AGRCRADA20110003			CHAGRCRADA20110003	0.00	37,207.53	0.00	37,207.53	37,207.53
	AGRCRADA20110004			CHAGRCRADA20110004	0.00	30,000.00	0.00	30,000.00	30,000.00
	AGRCRADA20110005			CHAGRCRADA20110005	0.00	30,000.00	0.00	30,000.00	30,000.00
	AGRCRADA20110006			CHAGRCRADA20110006	0.00	30,000.00	0.00	30,000.00	30,000.00
	AGRWFO02001			CH AGRWFO02001	0.00	2,158.47	0.00	2,158.47	2,158.47
	AGRWFO04001			CHAGRWFO04001	0.00	55,791.83	0.00	55,791.83	55,791.83
	AGRWFO20110002			CHAGRWFO20110002	0.00	25,000.00	0.00	25,000.00	25,000.00
	AGRWFO20110003			CHAGRWFO20110003	0.00	149,011.68	0.00	149,011.68	149,011.68
				TOTAL B&R REPORTING 60-03-03-00-0	0.00	467,212.51	0.00	467,212.51	467,212.51
	60-03-05-00-0	2011	25400	600305000, Universities and Institutes					
	AGRCRADA20110001			CHAGRCRADA20110001	40,517.20	0.00	0.00	0.00	40,517.20
			25400	600305000, Universities and Institutes					
	AGRWFO20100001			CHAGRWFO20100001	70,145.48	0.00	0.00	0.00	70,145.48
	AGRWFO20110001			CHAGRWFO20110001	27,080.61	0.00	0.00	0.00	27,080.61
				TOTAL B&R REPORTING 60-03-05-00-0	137,743.29	0.00	0.00	0.00	137,743.29

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	60-03-05-00-0	2012	25400	600305000, Universities and Institutes					
	AGRCRADA20110001			CHAGRCRADA20110001	0.00	339,390.07	0.00	339,390.07	339,390.07
	AGRWFO20100001			CHAGRWFO20100001	0.00	192,915.92	0.00	192,915.92	192,915.92
2W	60-03-05-00-0	2012	25400	600305000, Universities and Institutes					
	AGRWFO20110001			CHAGRWFO20110001	0.00	20,347.82	0.00	20,347.82	20,347.82
				TOTAL B&R REPORTING 60-03-05-00-0	0.00	552,653.81	0.00	552,653.81	552,653.81
3W	40-04-09-90-0	2010	25400	400409900, Other					
	AGRNNG10FC45I			CHAGRNNG10FC45I	103,198.86	0.00	0.00	0.00	103,198.86
				TOTAL B&R REPORTING 40-04-09-90-0	103,198.86	0.00	0.00	0.00	103,198.86

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