



Department of Energy

Argonne Group
9800 South Cass Avenue
Argonne, Illinois 60439
OFFICE OF THE DIRECTOR
ARGONNE NATL. LABORATORY

ARGONNE
CO JAN 12 PM 12:30
LEGAL
DEPARTMENT

JAN 13 2000
RECEIVED

TO: _____
FILE: _____

DEC 30 1999
*Contract
b/c*

Mr. Arthur Sussman
Vice President for
Argonne National Laboratory
The University of Chicago
5801 South Ellis Avenue
Chicago, Illinois 60637

SUBJECT: MODIFICATION NO. A352 TO U.S. DEPARTMENT OF ENERGY
CONTRACT W-31-109-ENG-38

Dear Mr. Sussman:

Enclosed for your records are four signed copies of the subject contract modification which unilaterally increases the amount of funds obligated hereunder by \$15,774,134.96 to a total of \$10,938,712,371.77. Also included is a Calculation of Funds statement.

Operating funds for Department of Energy are increased by \$12,460,342.75 as detailed in Exhibit I.

Funds for Reimbursable Work for Other Federal Agencies are increased by \$2,060,070.77 as detailed in Exhibit II.

Funds for Reimbursable Work for Non-Federal Entities are increased by \$907,756.96 as detailed in Exhibit III.

Funds for Use of Third-Party Receipts from Technology Transfer Activities are increased by \$345,964.48 as detailed in Exhibit IV.

Construction funds are unchanged and therefore there is no exhibit for them.

This obligation does not affect expenditure limitations which are applicable and which the laboratory may have been advised of separately from contract actions.

XC: WDP, HCB, JGA
A component of the Chicago Operations Office

2. AMENDMENT/MODIFICATION NO A352	3. EFFECTIVE DATE 12/31/99	4. REQUISITION/PURCHASE REQ. NO. 02-00-CHENG38.005	5. PROJECT NO. (If applicable) N/A
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6. ISSUED BY U.S. Department of Energy Chicago Operations Office/Argonne Group 9800 South Cass Avenue Argonne, IL 60439	7. ADMINISTERED BY (If other than Item 6) See Block 6.
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3. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code) The University of Chicago 5801 S. Ellis Avenue Chicago, IL 60637	(✓)	9.A. AMENDMENT OF SOLICITATION NO.
		9.B. DATED (SEE ITEM 11)
		10.A. MODIFICATION OF Contract/Order NO. W-31-109-ENG-38
		10.B. DATED (SEE ITEM 13) October 1, 1999

CODE N/A	FACILITY CODE N/A
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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 799A

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

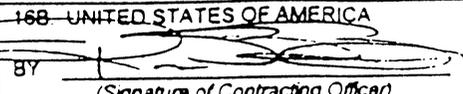
(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET 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: Mutual Agreement of the Parties
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not required to sign this document.

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

As provided in paragraph (a) of Part II, Clause I.79 – DEAR 970.5204.15, OBLIGATION OF FUNDS (APR 1994) (DEVIATION) of Modification No. M345 of the subject contract, the amount obligated hereunder is increased by \$15,774,134.96 to a total of \$10,938,712,371.77.

END OF MODIFICATION

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Rory S. Simpson, Contracting Officer
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)
	16C. DATE SIGNED 12/30/99

CALCULATION OF FUNDS 1/

**MODIFICATION NO. A352 TO CONTRACT W-31-109-ENG-38
FOR OPERATION OF ARGONNE NATIONAL LABORATORY
(IN DOLLARS)**

FY 2000 OPERATING FUNDS:

Approved Funding Program - Operating Expense Authorized Funding:

Operating Excluding EQU/GPE/GPP/AIP	297,883,898.71
GPE - General Plant Equipment	1,631,000.00
EQU - Capital Equipment	10,600,895.35
GPP - General Plant Projects	4,800,000.00
AIP - Accelerator Improvement Projects < \$5M	3,418,000.00

TOTAL	318,333,794.06
Reimbursable Work for Other Federal Agencies	13,686,728.10
Reimbursable Work for Non-Federal Entities	4,327,971.07
Use of Third Party Receipts from Technology Transfer Activities	932,864.03
Total Fiscal Year 2000 Operating Funding	337,281,357.26

FY 2000 PLANT FUNDS:

Approved Funding Program - Authorized Funding	4,580,000.00
Total Fiscal Year 2000 Plant Funding	4,580,000.00

TOTAL FY 2000 FUNDING 341,861,357.26

Operating, Plant and Capital Equipment Funds Requirements Through Mod A346
(Mod A346 is the final FY 1999 mod) 704,752,934.19

Total Funds Requirements on and after October 1, 1998 1,046,614,291.45

Contract Costs through September 30, 1998 (Through Mod A346) 9,892,098,080.32

Total Funds to be Provided 10,938,712,371.77

Funds Provided Through Modification A350 10,922,938,236.81

Funds Added by Modification A352 * 15,774,134.96

Mod. A351 is non-fund.

CALCULATION OF FUNDS 1/

**MODIFICATION NO. A352 TO CONTRACT W-31-109-ENG-38
FOR OPERATION OF ARGONNE NATIONAL LABORATORY
(IN DOLLARS)**

1/ NOTICE of Funding Under the FY 2000 Energy and Water Development Appropriations ACT:

P.L. 106-60 provides that none of the funds appropriated may be used to establish or maintain independent centers at a Department of Energy laboratory or facility unless such funds have been specifically identified in the budget submission.

P.L. 106-60 provides that none of the funds appropriated may be expended after December 31, 1999, under a covered contract unless such expenditures are in accordance with a Laboratory Funding Plan that has been approved by the Secretary of Energy.

The budget authority provided by this allotment for FY 2000 construction projects may not be obligated until an external, independent assessment of the baseline cost and schedule has been performed and provided to the House and Senate Committees on Appropriations for review and concurrence.

Budgetary resources provided by this allotment are to be executed in accordance with the terms and provisions of P.L. 106-60, the FY 2000 Energy and water Development Appropriations Act.

89X0215.91 (HA)		* ENERGY CONSERVATION	
EC0904	Bldg Tech - Equip, Mat'l, Tools		22,000.00
EC1504	BldgTechAssist-CommunityEnrgyPrg		7,260.00
ED1802	Indstrl Sctr-Steel Vision		44,000.00
ED1803	Indstrl Sctr-Aluminum Vision		217,800.00
ED1805	Indstrl Sctr-Glass Vision		105,380.00
ED1806	Indstrl Sctr-Chemicals Vision		169,700.00
ED190602	Inventions		(216.80)
EE0501	Hybrid Systems R&D		2,233,500.00
EE0502	Fuel Cell R&D		933,900.00
EE0503	Advanced Combustion EngineR&D		372,800.00
EE0505	Electric Vehicle R&D		69,800.00
EE0506	Heavy Vehicle R&D		88,000.00
EE0601	Advanced PetroleumBasedFuels		66,000.00
EE0602	Technical Info Development		55,000.00
EE0701	Propulsion Materials Tech		93,500.00
EE0702	Lightweight Materials Tech		91,300.00
EE0801	Clean Cities		15,600.00
EE0803	EPACT Replacement Fuels Prog.		44,000.00
EE0804	Advanced Vehicle Competitions		184,800.00
EE0901	Evaluation, Planning & Analysis		206,800.00
820101	Interoffice Tfrs; To Others		(1,260,564.27)
TOTAL	89X0215.91 (HA)		<u>3,760,358.93</u>

89X0222.91 (WA)		* SCIENCE	
KA0403012	Muon Collider R&D		70,000.00
KA050103	EQU Other Facility Support		10,000.00
KB0201022	Heavy Ion Physics; Research		535,000.00
KC020101	Structure of Materials		46,000.00
KC020102	Mechanical Properties		39,000.00
KC020103	Physical Properties		40,000.00
KC020105	Engineering Materials		21,000.00
KJ010101	Basic Rsrch & Human Resources		250,000.00
KJ02	Laboratory Technology Rsrch		278,000.00
KP110301	Genome		50,000.00
KP120103	Atmospheric Radiation Meas.		300,000.00
820101	Interoffice Tfrs to Others		1,991,453.00
TOTAL	89X0222.91 (WA)		<u>3,630,453.00</u>

8990224.91 (Y9)	* ENERGY SUPPLY	
820102	Tfrs from Others Interoffice	347,689.16
TOTAL	8990224.91 (Y9)	347,689.16

8900224.91 (Y0)	* ENERGY SUPPLY	
AF55	Civilian R&D	320,000.00
AF55-CH	Civilian R&D	(320,000.00)
EB420000	Hydrogen Research R&D	249,506.00
EB5201	Ethanol Production	165,000.00
820201	Tfrs To Others Intraoffice	7,500.00
TOTAL	8900224.91 (Y0)	422,006.00

89X0228.91 (SA)	* DEPARTMENTAL ADMIN.	
WA500101	Data Development & MEAM	150,000.00
TOTAL	89X0228.91 (SA)	150,000.00

89X0240.91 (TC)	* WEAPONS ACTIVITIES	
DP0101034	ASCI-Strategic Alliances	1,250,000.00
DP0101041	ASCI-Special Projects	15,000.00
820101	Interoffice Tfrs; To Others	210,000.00
TOTAL	89X0240.91 (TC)	1,475,000.00

89X0242.91 (TE)	* DEF. ENVIRONMENTAL REST. & WASTE MGMT		
EW02MM09B-CH	CH7770-10	OPS/HQ-PP Pollution Prevention	115,000.00
EW02MM09B-CH	CH7770-14	OPS/HQ-PP Pollution Prevention	65,000.00
EW02MM11A	HQPM-001	IntrgovmntlAffairs/PublicAcct	(68.95)
EW4010	CH07-PS01	Tech Developmnt&Deploymnt	230.36
EW4010	CH20-SS10	Tech Developmnt&Deploymnt	(25,000.00)
EW4010	CH27-SS51	Tech Developmnt&Deploymnt	(230.36)
EW409010	CH27-SP22	EM Science Prog-Basic Sci.	80,000.00
EW409010 EQU	CH27-SP22	EM Science Prog-Basic Sci.	(80,000.00)
EW409020-CH	CH07-RP13	Risk Policy	50,000.00
820101		Inter Office Tfrs to Others	678,361.00
TOTAL	89X0242.91 (TE)		883,292.05

89X0243.91 (TF)	* OTHER DEFENSE ACTIV.		
GJ02	Treaties and Agreements		0.00
GJ04	Intn'l Safeguards Division		47,000.00
820102	Inter Office Tfrs from Others		(65,000.00)
TOTAL	89X0243.91 (TF)		(18,000.00)

89X0244.91 (TH)	* DEF. NUC. WSTE DISP.		
820101	Interoffice Tfrs; To Others		955,760.00
TOTAL	89X0244.91 (TH)		955,760.00

89X0250.91 (YN)	* NON-DEF. ENV. MGMT		
EX02MM01-CH	CHHQ-9999-06	HQ-2-00 Tech Support to ER	650,000.00
EX02MM01	CHOR-9999-21	HQ-2-00 Tech Support to ER	(216.39)
820101	Inter Office Tfrs; To Others		194,000.00
TOTAL	89X0250.91 (YN)		843,783.61

89X5231.91 (UE)	* URANIUM ENRICHMENT D&D FUND		
820201	Intra Office Tfrs; To Others		10,000.00
TOTAL	89X5231.91 (UE)		10,000.00

*** TOTAL OPERATING** 12,460,342.75

OPERATING EXPENSE (OE):

Operating Expense Excluding EQU, GPE, GPP & AIP	12,530,342.75
EQU	(70,000.00)
GPE	0.00
GPP	0.00
AIP	0.00
TOTAL OPERATING EXPENSE (OE)	<u><u>12,460,342.75</u></u>

ARGONNE NATIONAL LABORATORY
FISCAL YEAR 2000
(IN DOLLARS)

EXHIBIT II
MOD A352
*Mod A351 is non-fund.

B&R Number	ANL Proj #	ANL Acct #	Agency Order Number	Cum Thru Mod A350	Change Mod A352 *	Cum Thru Mod A352
REIMBURSABLE WORK FOR OTHER FEDERAL AGENCIES - TOTAL				11,626,657.33	2,060,070.77	13,686,728.10
40 04 RESEARCH AND DEVELOPMENT				11,626,657.33	2,060,070.77	13,686,728.10
40 04 01 DEPARTMENT OF AGRICULTURE				0.00	145,631.07	145,631.07
	P99102	8A433	No. 00-OA-22-35-004	0.00	145,631.07	145,631.07
40 04 03 DEPARTMENT OF DEFENSE				2,783,997.29	1,170,456.66	3,954,453.95
40 04 03 109 AIR FORCE				(46,250.35)	65,032.68	18,782.33
	P89150	8C817	MIPR 8816	(11,716.54)	0.00	(11,716.54)
	P89150	8C817	MIPR 8902	(34,533.81)	0.00	(34,533.81)
	P86058	8C850	ORDER N93-280	0.00	(611.75)	(611.75)
	P88066	8C819	FY6168900615	0.00	(4,104.00)	(4,104.00)
	P88066	8C917	FY6168900615	0.00	(1,364.34)	(1,364.34)
		8C418	ORDER T4435	0.00	(863.08)	(863.08)
	P88066	8C896	FY67169100379	0.00	(3,752.31)	(3,752.31)
	P95019	8C404	MIPR000000N589	0.00	75,728.16	75,728.16
40 04 03 209 ARMY				978,634.77	642,695.46	1,621,330.23
	P97070	8C734	MIPR9HDER40017	339,805.83	0.00	339,805.83
	P94066	8C090	MIPR 94-197	(80.36)	0.00	(80.36)
	P94066	8C090	MIPR 95-283	(6.95)	0.00	(6.95)
	P90021	8C862	7ATC-117-91	(96.75)	0.00	(96.75)
	P94054	8C740	M206W402M240	34,159.22	0.00	34,159.22
	P89026	8C345	MIPROBD0E00026	442,718.45	0.00	442,718.45
	P98017	8C728	W81EU693013772	80,000.00	0.00	80,000.00
	P98017	8C732	W81EU693023829	57,250.00	0.00	57,250.00
	P98017	8C718	W31G8682689048	25,000.00	0.00	25,000.00
	P91114	8C285	W52EU270639150	(114.67)	0.00	(114.67)
	P86058	8C052	FECOMIPRA4CX01	0.00	(32.38)	(32.38)
	P86058	8C210	IAA-001	0.00	(465.33)	(465.33)
	P86058	8C872	FECOMIPRA4BF01	0.00	(839.55)	(839.55)
	P93017	3C772	MIPR W16ROE93285605	0.00	100,000.00	100,000.00
	P91002	3C403	MIPROBKOR00036	0.00	352,427.19	352,427.19
	P93014	3C799	MIPROEDER40-087	0.00	30,000.00	30,000.00
	P93059	3C779	MIPROCPWENV031	0.00	82,524.27	82,524.27
	P97039	3C405	MIPROC4CR00019	0.00	79,126.21	79,126.21
	P89041	3C022	MIPR E36930021	0.00	(44.95)	(44.95)

**ARGONNE NATIONAL LABORATORY
FISCAL YEAR 2000
(IN DOLLARS)**

**EXHIBIT II
MOD A352
*Mod A351 is non-fund.**

B&R Number	ANL Proj #	ANL Acct #	Agency Order Number	Cum Thru Mod A350	Change Mod A352 *	Cum Thru Mod A352
40 04 03 309	NAVY			762,621.36	194,174.76	956,796.12
	P97093	8C775	Order N4175600GO13600	<u>760,194.18</u>	0.00	<u>760,194.18</u>
	P98068	8C741	NO760A00MPEV001	2,427.18	0.00	2,427.18
	P37093	8C723	N4175600GO13800	0.00	194,174.76	194,174.76
40 04 03 709	DEFENSE NUCLEAR AGENCY			0.00	(348.27)	(348.27)
	P36058	8C902	MIPR 94-854	<u>0.00</u>	<u>(348.27)</u>	<u>(348.27)</u>
40 04 03 809	DEFENSE ADVANCED RESEARCH PROJECT AGENCY			959,840.61	174,757.28	1,134,597.89
	P86058	8C224	PR99B1009056	<u>312,621.36</u>	0.00	<u>312,621.36</u>
	P96082	8C259	MIPR 97-8075	(9,173.26)	0.00	(9,173.26)
	P96082	8C737	MIPR 00-E283	388,349.52	0.00	388,349.52
	P98040	8C727	MIPR 00-G016	268,932.04	0.00	268,932.04
	P96082	8C257	MIPR 96-2020	(889.05)	0.00	(889.05)
	P99049	8C760	MIPR 00-H777	0.00	174,757.28	174,757.28
40 04 03 909	OTHER DEPARTMENT OF DEFENSE			129,150.90	94,144.75	223,295.65
	P86058	8C383	IACRO #003403	<u>130,097.09</u>	0.00	<u>130,097.09</u>
	P86058	8C499	MIPR DWAL 50021	(946.19)	0.00	(946.19)
	P99045	8C229	ORDER NO MOD 707299	0.00	116,504.85	116,504.85
	P86058	8C178	DZRO53039	0.00	(40.25)	(40.25)
	P86058	8C642	SN89-85, A2	0.00	(22,276.55)	(22,276.55)
	P86058	8C855	MIPR DJAM 0 0023	0.00	(43.30)	(43.30)
40 04 07	DEPARTMENT OF TRANSPORTATION			0.00	(2,471.05)	(2,471.05)
	P34100	8G405	Order No. DTRA14-85-1-C1467	<u>0.00</u>	<u>(2,471.05)</u>	<u>(2,471.05)</u>
40 04 08	ENVIRONMENTAL PROTECTION AGENCY			82,979.69	(5,973.10)	77,006.59
	P97068	8H519	Order No. DW89937828-01-6	<u>90,000.00</u>	0.00	<u>90,000.00</u>
		8H462	Order No. DW89930604	(6,348.31)	0.00	(6,348.31)
		8H462	Order No. DW89947506	(672.00)	0.00	(672.00)
	P32009	8H448	Order No. DW89930246-0-9	0.00	(5,808.66)	(5,808.66)
	P39142	8H482	Order No. DW89934117-1	0.00	(114.14)	(114.14)
	P91144	8H489	Order No. DW89935257-01-1	0.00	(50.30)	(50.30)
40 04 09 90	NATIONAL AERONAUTICS & SPACE ADMINISTRATION			(1,017.75)	38,334.95	37,317.20
	P94146	8J436	Agreement W13,688	<u>(1,017.75)</u>	0.00	<u>(1,017.75)</u>
	P93097	8J456	Order No. W-19, 590	0.00	38,334.95	38,334.95

ARGONNE NATIONAL LABORATORY
FISCAL YEAR 2000
(IN DOLLARS)

EXHIBIT II
MOD A352

*Mod A351 is non-fund.

B&R Number	ANL Proj #	ANL Acct #	Agency Order Number	Cum Thru Mod A350	Change Mod A352 *	Cum Thru Mod A352
40 04 12			DEPARTMENT OF HEALTH AND HUMAN SERVICES	20,000.00	0.00	20,000.00
	P00009	8D418	AGR Y1-GM-0073-01	20,000.00	0.00	20,000.00
40 08			OTHER - ENERGY-RELATED ACTIVITIES	4,281,955.36	203,883.50	4,485,838.86
40 08 90			OTHER FEDERAL AGENCIES	4,281,955.36	203,883.50	4,485,838.86
	P99110	8N531	Order No. AGR. 99PPW255803	16,504.85	0.00	16,504.85
	P99121	8N536	Order No. S-IAA-99-PM (ESF)-2	112,621.36	0.00	112,621.36
	P99122	8N535	Order No. S-IAA-99PM-(NADR)-3	111,650.49	0.00	111,650.49
	P92024	8N410	Order No. EME-97-1A-0052, MOD 17	1,400,401.95	0.00	1,400,401.95
	P92024	8N460	Order No. EME-97-1A-0052, MOD 17	2,640,776.71	0.00	2,640,776.71
	P99110	8N531	AGR. 99PPW255803	0.00	9,708.74	9,708.74
	P97082	8N537	REQUEST NO. 006235	0.00	194,174.76	194,174.76
40 10			REGULATORY SERVICES	4,458,742.74	509,708.74	4,968,451.48
40 10 01 02			NUCLEAR REACTOR REGULATION	194,174.76	194,174.76	388,349.52
	PJ2076	8M819	Order No. 20-00-003	194,174.76	0.00	194,174.76
	PJ2076	8M819	Order No. 20-00-018	0.00	194,174.76	194,174.76
40 10 01 06			NUCLEAR REGULATORY RESEARCH	4,264,567.98	315,533.98	4,580,101.96
	PW6487	8M833	Order No. 60-00-008	1,868,932.05	0.00	1,868,932.05
	PY6112	8M845	Order No. 60-00-011	72,815.53	0.00	72,815.53
	PF6138	8M853	Order No. 60-00-016	97,087.38	0.00	97,087.38
	PF6137	8M852	Order No. 60-00-015	58,208.74	0.00	58,208.74
	PY6105	8M851	Order No. 60-00-014	97,087.38	0.00	97,087.38
	PW6483	8M832	Order No. 60-00-041	1,000,000.00	0.00	1,000,000.00
	PY6248	8M832	Order No. 60-00-040	85,000.00	0.00	85,000.00
	PW6610	8M835	Order No. 60-00-024	985,436.90	0.00	985,436.90
	PY6112	8M845	Order No. 60-00-067	0.00	315,533.98	315,533.98

12/29/99
11:13 AM

ARGONNE NATIONAL LABORATORY
FY 2000

EXHIBIT III
MOD A352

89X0224.92 (2Y)

• ENERGY SUPPLY R&D REIMB. WORK/NON-FED.

600306

Reimbursable Work for Non-Federal Entities

907,756.96

TOTAL

89X0224.92 (2Y)

907,756.96

TOTAL OPERATING (NON-FED ENTITIES)

907,756.96

12/29/99
11:14 AM

ARGONNE NATIONAL LABORATORY
FY 2000

EXHIBIT IV
MOD A352

89X0224.95 (1Y)	ENERGY SUPPLY R&D	
650103	Use of Third-Party Receipts from Tech Tfr Activ, Other	345,964.48
TOTAL	89X0224.95 (1Y)	345,964.48
TOTAL OPERATING (THIRD-PARTY RECEIPTS)		345,964.48
