

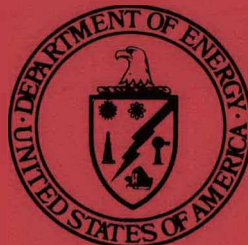
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Department of Energy Annual Procurement and Financial Assistance Report

FY 1988

April 1989



U.S. Department of Energy
Assistant Secretary, Management and Administration
Procurement and Assistance Management Directorate

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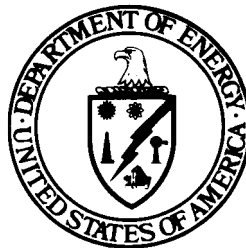
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Department of
Energy
Annual Procurement
and Financial Assistance
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U.S. Department of Energy
Assistant Secretary, Management and Administration
Procurement and Assistance Management Directorate
Washington, DC 20585

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INTRODUCTION

The information contained in the Department of Energy's "Annual Procurement and Financial Assistance Report - FY 1988" was extracted from Departmental data systems.

This report was prepared by the Office of Review and Analysis, Procurement and Assistance Management. Inquiries and comments should be addressed to:

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DEPARTMENT OF ENERGY
ANNUAL PROCUREMENT AND FINANCIAL ASSISTANCE REPORT
FY 1988

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SUMMARY

The procurement and financial assistance activity of the Department of Energy (DOE) is unique in the Federal Government. DOE is generally not a consumer of the technology it develops, nor does it procure production quantities of hardware for its own use. DOE is involved in basic and applied research in a wide range of technology areas including the following: Nuclear energy, nuclear waste management, fossil energy, conservation, renewable energy, and nuclear weapons development. The DOE procurement activities also support national security in the production and testing of nuclear weapons and the management of the Strategic Petroleum Reserve and the Naval Petroleum and Oil Shale Reserves. With the exception of the national security activities and departmental administration, DOE spends its procurement dollars more as a catalyst for technology development than for acquiring goods and services for Federal use. DOE enters into contractual arrangements with large and small firms involved in the technology areas for which it is responsible. In addition, DOE is involved in contractual and financial assistance activities with educational institutions, nonprofit organizations, and State and local governments.

A significant portion of DOE's mission is carried out by contractors operating DOE-owned plants and laboratories. Consequently, a large portion of DOE's procurement obligations is directed toward the funding of such management and operating contracts. For example, management and operating contractors operate the nine major, multi-program National Laboratories located throughout the United States. These laboratories provide scientific support for DOE programs and provide a scientific staff with various core capabilities to support various technology programs, and also constitute a valuable national resource. The programs carried out in the laboratories range from fundamental research in the physical and life sciences to advanced and goal-oriented development of nuclear and alternative energy technologies and nuclear weapons development.

DOE offers substantial opportunities for small and small disadvantaged business enterprises, both as DOE prime contractors and as subcontractors to the management and operating contractors. As one of the agencies designated by the Small Business Innovation Development Act of 1982, a portion of DOE's research and development budget is set aside each year for research awards to small businesses.

HIGHLIGHTS OF FISCAL YEAR 1988

- 0 DOE procurement and financial assistance obligations in FY 1988 were \$15.7B, an increase of 2 percent from FY 1987.

- 0 Obligations for management and operating contractors totalled \$11.5B.

- 0 The number of active procurement awards over \$25,000 (excluding management and operating contracts) on September 30, 1988, was 2,483 with a total award value of \$32.4B. This compares with 2,778 active awards with a value of \$34.9B on September 30, 1987.

- 0 The number and award value of financial assistance instruments active on September 30, 1988, was 4,321 and \$6.6B. On September 30, 1987, there were 4,689 active awards with a value of \$5.5B.

- 0 Subcontract awards totalled \$5.4B in FY 1988, of which \$2.5B (46%) went to small business firms. In FY 1987, subcontracts totalling \$4.1B were awarded, of which \$2.5B (61%) were awarded to small businesses.

- 0 The Department funded 90 unsolicited proposals with a total value of \$15 million in FY 1988. During fiscal year 1987, 118 unsolicited proposals were funded with a total award value of \$50 million.

PROCUREMENT ACTIVITY

1. FY 1988 AWARD ACTIVITY

a. OBLIGATIONS TO MANAGEMENT AND OPERATING CONTRACTORS

FY 1988 obligations to management and operating (M&O) contractors represented about 73 percent of the total FY 1988 procurement and assistance obligations. The contractor names and facility locations are contained in Appendix I. Listed below are the M&O contractors and the FY 1988 obligations:

OBLIGATIONS TO MANAGEMENT AND OPERATING CONTRACTORS

<u>CONTRACTOR (1)</u>	<u>AMOUNT OF OBLIGATIONS</u> <u>(000)</u>
Allied Corp.	\$ 607,135
Associated Universities, Inc.	264,139
AT&T Technologies, Inc.	1,179,659
Battelle Memorial Institute	154,373
Bechtel Petroleum Operations, Inc.	152,462
Boeing Petroleum Services, Inc.	104,320
California, University of (5 contracts)	2,151,826
Chicago, University of	303,303
E. I. DuPont DeNemours & Co., Inc.	1,206,987
EG&G, Inc. (3 contracts)	448,948
General Electric Co. (2 contracts)	359,268
Georgia Research Foundation, University of	7,306
Holmes & Narver, Inc.	76,220
Iowa State University	21,844
Lawrence-Allison & Associates West	18,625
Lovelace Biomedical & Environmental Research Institute	16,778
Martin Marietta Energy Systems, Inc. (2 contracts)	1,142,575
Mason & Hanger-Silas Mason Co., Inc.	157,530
Midwest Research Institute	54,920
MK-Ferguson Co.	1,200
Monsanto Research Corp.	156,352
Oak Ridge Associated Universities, Inc.	33,617
Princeton University	102,682
Protection Technologies Idaho, Inc.	15,642
Reynolds Electrical & Engineering Co., Inc.	369,965
Rockwell International Corp. (3 contracts)	491,758
Rust Engineering Corp.	72,391
Southeastern University Research Association	43,720
Stanford University	124,988
Universities Research Association, Inc.	207,373
Wackenhut Services, Inc. (2 contracts)	39,525
West Valley Nuclear Services	50,633
Westinghouse Electric Corp. (5 contracts)	<u>1,387,436</u>
TOTAL	\$11,525,511 =====

(1) Where there are multiple contracts indicated, some may be with wholly owned subsidiaries. See Appendix I for the contractors' locations or services rendered.

b. ACTIONS AND OBLIGATIONS

NOTE: Unless specifically included, management and operating contracts and contracts for \$25,000 or less are excluded from all procurement figures.

New awards issued during FY 1988 accounted for 18 percent of the 5,922 actions that obligated dollars and 13 percent of the total amount obligated.

A total of 2,078 modifications were awarded without dollars. These actions were mainly no-cost time extensions and administrative changes.

ACTIONS AND OBLIGATIONS

<u>TYPE OF ACTION</u>	<u>NUMBER OF ACTIONS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
NEW AWARDS	1,090	\$ 769,882
MODIFICATIONS WITH DOLLARS	4,832	\$2,738,514
SUBTOTAL	<u>5,922</u>	<u>\$3,508,396</u>
MODIFICATIONS WITHOUT DOLLARS	<u>2,078</u>	<u>-</u>
TOTAL	8,000 =====	\$3,508,396 =====

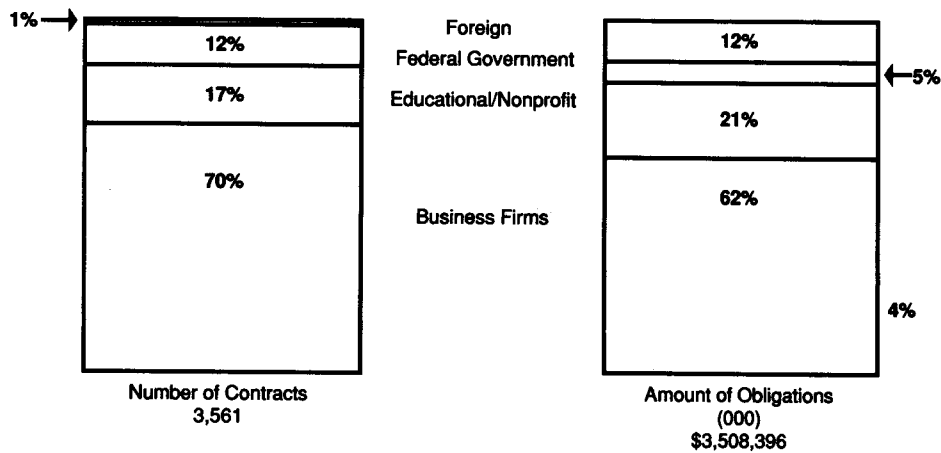
c. OBLIGATIONS BY ORGANIZATION TYPE

FY 1988 obligations represent awards to business firms, educational/nonprofit organizations, other federal agencies and foreign countries. The educational/nonprofit category includes hospitals, state and local governments, educational institutions and research groups. The "foreign" category awards with a place of performance outside the United States. The obligations to business firms also include \$488 million (22 percent of the total to business firms) covering awards with small business firms.

OBLIGATIONS BY ORGANIZATION TYPE

<u>TYPE OF ORGANIZATION</u>	<u>NUMBER OF CONTRACTS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
BUSINESS FIRMS	2,493	\$2,183,605
EDUCATIONAL/NONPROFIT	624	753,077
FEDERAL GOVERNMENT	418	152,608
FOREIGN	26	419,106
TOTAL	3,561	\$3,508,396

Obligations by Organization Type



d. GEOGRAPHIC DISTRIBUTION OF OBLIGATIONS

This table lists the number of contracts and associated obligations by place of performance.

The Foreign and U.S. Outlying Areas category contains contracts with the place of performance outside of the United States. These contractors were located in fourteen foreign countries and one U.S. outlying area (Puerto Rico). Included are obligations of \$417M under contracts with Mexico for purchase of crude oil.

GEOGRAPHIC DISTRIBUTION OF OBLIGATIONS

<u>PLACE OF PERFORMANCE</u>	<u>NUMBER OF CONTRACTS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
Alabama	15	\$ 10,007
Alaska	8	283
Arizona	35	14,165
Arkansas	13	1,163
California	415	282,702
Colorado	179	126,338
Connecticut	67	77,945
Delaware	5	3,974
District of Columbia	295	93,241
Florida	20	4,267
Georgia	31	13,577
Hawaii	2	5,545
Idaho	26	5,276
Illinois	89	38,508
Indiana	22	10,942
Iowa	9	538
Kansas	12	5,802
Kentucky	5	330,098
Louisiana	48	42,024
Maine	0	0
Maryland	304	118,567
Massachusetts	161	79,898
Michigan	33	29,225
Minnesota	22	5,325
Mississippi	12	9,440
Missouri	41	15,559
Montana	20	14,705
Nebraska	10	605
Nevada	53	75,656
New Hampshire	13	1,343
New Jersey	74	30,298
New Mexico	170	120,391
New York	96	15,767
North Carolina	34	11,261
North Dakota	16	7,181
Ohio	123	236,139
Oklahoma	36	3,944
Oregon	21	1,512
Pennsylvania	215	180,045
Rhode Island	4	1,769
South Carolina	45	72,039
South Dakota	8	2,495
Tennessee	138	399,007
Texas	128	55,680
Utah	36	10,268
Vermont	1	231
Virginia	259	451,246
Washington	77	28,301
West Virginia	32	26,510
Wisconsin	24	10,646
Wyoming	22	5,974
Foreign and U.S. Outlying Areas	34	420,959
TOTAL	3,561	\$3,508,396
	=====	=====

e. COMPETITION

In response to Public Law 98-369, the Competition in Contracting Act (CICA), DOE established a competition advocacy program and the position of the Agency Competition Advocate (ACA). The Public Law also required that an annual report be delivered to Congress for the first five years after enactment of CICA. DOE is currently using two different methods, the Total Obligations Method and the New Awards Method, to illustrate its accomplishments and measure its progress in achieving greater levels of competition. The results produced by these two methods are covered below.

Irrespective of the method used, the important concept used in all of these analyses is the number of contract actions that are "available for competition under CICA provisions." This term is defined as all obligations to contracts or the number of all contract awards except for those awards or obligations: (1) to management and operating contracts and (2) those awards excluded or exempted under CICA provisions.

Under the Total Obligations Method, DOE tracks all dollars obligated to all contracts during a fiscal year, both for new awards and for contracts awarded in previous fiscal years. This method shows that 51 percent of FY 1985 funding was obligated to current/prior awards that were competed. This percentage was 60 percent during FY 1986, 70 percent in FY 1987, and 66 percent in FY 1988. This method raises concerns because it includes in the current year's competition statistics, funds added to contracts awarded in prior fiscal years. To preclude this type of funding from skewing the Department's data, the New Awards Method was developed. Under this method, only the number of new awards and their modifications subject to the Competition in Contracting Act (CICA) are considered. Only the New Awards Method offers a clear measure of the number of times a competition decision is made.

Considering the total number of new contracts and modifications to new contracts awarded in FY 1986, 89 percent of awards were competitively awarded. This figure increased to 91 percent in FY 1987 and to 93 percent in FY 1988. The New Awards Method is considered a more accurate measure of competition activity than the other method. Accordingly, in FY 1988 93 percent of the time when the Agency was faced with a competitive decision, the decision was made to compete.

COMPETITIVE ACCOMPLISHMENT FOR FY 1985 THROUGH FY 1988
DOLLARS IN THOUSANDS

	<u>NEW AWARDS</u>		<u>TOTAL OBLIGATIONS</u>	
FY 1985	*	*	\$2,086,958	51%
FY 1986	824	89%	\$2,170,495	60%
FY 1987	1,024	91%	\$1,905,699	70%
FY 1988	1,076	93%	\$1,975,704	66%

* NOT AVAILABLE

f. TOP 100 CONTRACTORS BY OBLIGATIONS

The top 100 contractors list is arranged in descending order by the amount of procurement obligations to each contractor during FY 1988. This data does not include management and operating contracts, or awards to Federal or other governmental agencies.

TOP 100 CONTRACTORS BY OBLIGATIONS
(DOLLARS IN THOUSANDS)

<u>CONTRACTOR NAME</u>	<u>AMOUNT OF OBLIGATIONS</u>	<u>NUMBER OF CONTRACTS</u>
1. Babcock & Wilcox Co.	\$368,341	30
2. Ohio Valley Electric Corp.	148,419	1
3. Electric Energy Institute	103,538	1
4. General Electric Co.	103,333	31
5. MK-Ferguson Co.	71,161	2
6. Nuclear Fuel Services, Inc.	62,501	2
7. Battelle Memorial Institute	52,488	24
8. General Atomic Co.	50,444	8
9. Massachusetts Institute of Technology	47,214	11
10. UNC Geotech, Inc.	46,513	1
11. Science Applications International Corp.	45,255	14
12. UNC, Inc.	44,635	9
13. Westinghouse Electric Corp.	40,982	34
14. Wackenhut Services, Inc.	40,133	2
15. National Academy of Sciences	23,097	15
16. Bart Associates, Inc.	22,570	1
17. Calculon Corp.	22,251	4
18. Bechtel Corp.	19,800	3
19. EG&G, Inc.	19,064	2
20. Fenix & Scisson, Inc.	17,852	2
21. TRW, Inc.	17,216	8
22. American Protective Services	16,534	2
23. Stanford University	16,287	18
24. International Fuel Cells Corp.	15,594	3
25. NUS Corp.	15,355	8
26. KMS Fusion, Inc.	15,236	4
27. Jacobs Engineering Group	14,740	3
28. Roy F. Weston, Inc.	14,550	2
29. Fluor Technology, Inc.	14,010	4
30. California, University of	12,787	23
31. Michael Curran & Assoc.	11,693	2
32. Advanced Sciences, Inc.	11,377	9
33. Analysas Corp.	11,362	2
34. Computer Data Systems, Inc.	10,620	1
35. Gilbert/Commonwealth, Inc.	10,598	6
36. Walk Haydel & Assoc.	10,483	1
37. Burns & Roe, Inc.	10,240	6
38. MSE, Inc.	10,082	2
39. Martin Marietta Data Systems	9,684	2
40. Ralph M. Parsons Co.	9,437	5
41. Rockwell International Corp.	9,431	11
42. Meridian Corp.	9,247	6
43. Jaynes Corp.	9,159	1
44. Tennessee, University of	9,015	7
45. Lockwood Greene Engineers, Inc.	9,009	2
46. Automated Sciences Group	8,977	1
47. Young Enterprises, Inc.	8,798	2
48. Institute of Gas Technology	8,528	13
49. IBM Corp.	8,517	47
50. Energy Research Corp.	8,316	6

TOP 100 CONTRACTORS BY OBLIGATIONS (Cont'd)
(DOLLARS IN THOUSANDS)

<u>CONTRACTOR NAME</u>	<u>AMOUNT OF OBLIGATIONS</u>	<u>NUMBER OF CONTRACTS</u>
51. Southern Company Services, Inc.	\$8,000	1
52. Maxima Corp.	7,850	6
53. Black & Veatch	7,630	11
54. Orkand Corp.	7,236	2
55. Illinois, University of	7,202	7
56. Systematic Management Services	7,125	6
57. Bechtel National, Inc.	6,854	6
58. Authorization Systems, Inc.	6,826	3
59. Brothers Electric, Inc.	6,808	4
60. Ross Aviation	6,721	1
61. Mac Technical Services Co.	6,663	1
62. GA Technologies, Inc.	6,642	4
63. Stone & Webster Engineering Corp.	6,538	8
64. Wisconsin, University of	6,063	11
65. Yale University	6,059	7
66. Mike J. Thiel, Inc.	5,993	1
67. Siemens	5,922	1
68. RTK-Joint Venture	5,766	1
69. Grove, Inc.	5,643	1
70. KOH Systems, Inc.	5,581	7
71. National Systems & Research Co.	5,535	7
72. N. American Transformer	5,412	2
73. Wan Lee & Assoc. Inc.	5,395	2
74. Nuclear Assurance Corp.	5,349	3
75. General Telephone Co.	5,230	1
76. Tibbetts Mechanical Contractor	4,857	4
77. Union Power Construction	4,773	1
78. Hawaii Electric Co.	4,770	1
79. California Institute of Technology	4,565	2
80. EDS Federal Corp.	4,410	1
81. Solar Turbines, Inc	4,305	3
82. KRW Energy Systems, Inc.	4,300	1
83. Automated Business Systems & Services	4,243	1
84. Spectra Technology, Inc.	4,207	4
85. Notre Dame, University of	4,195	3
86. AMC Mechanical Contractors, Inc.	4,194	1
87. Continental Telephone Co. of Virginia	4,151	1
88. Washington, University of	4,064	7
89. Teledyne Energy Systems	4,027	2
90. RJO	3,867	1
91. Ray & Ross Transport, Inc.	3,794	1
92. Industrial Contractors, Inc.	3,779	1
93. Hicks & Ingle Corp.	3,673	3
94. E. I. Dupont Denemours & Co.	3,645	2
95. CER Corp.	3,638	2
96. Southwestern Construction	3,574	1
97. Combustion Engineering, Inc.	3,533	5
98. Pennsylvania University of	3,530	2
99. Peer Consultants, Inc.	3,508	3
100. Irving Burton Associates, Inc.	3,475	4

2. FY 1988 ADMINISTRATION ACTIVITY

a. ACTIVE CONTRACTS BY MAJOR AWARDING OFFICE

The DOE field elements with Head of Contracting Activity (HCA) authority are listed in this table. The data for each HCA shows the number of active contracts on September 30, 1988, and their associated award value. The contracts were awarded by all offices within the HCA. Reference Appendix II for the names and addresses of all DOE awarding offices.

Oak Ridge Operations' total award value includes \$1.4B in crude oil purchases for the Strategic Petroleum Reserve. Washington Procurement Office's total award value includes \$26M for the purchase of oil for the Strategic Petroleum Reserve.

ACTIVE CONTRACTS BY MAJOR AWARDING OFFICE
(Excludes Management and Operating Contracts)

<u>MAJOR AWARDING OFFICE</u>	<u>NUMBER OF ACTIVE CONTRACTS</u>	<u>TOTAL AWARD VALUE (000)</u>
Washington Procurement Office	545	\$ 2,543,980
Chicago Operations	247	2,556,290
San Francisco Operations	232	1,452,289
Albuquerque Operations	212	1,369,689
Oak Ridge Operations	321	17,976,735
Richland Operations	49	311,312
Idaho Operations	107	1,158,543
Nevada Operations	78	553,872
Savannah River Operations	38	108,513
Pittsburgh Naval Reactors	14	1,355,754
Schenectady Naval Reactors	20	1,735,457
Pittsburgh Energy Technology Center	200	361,063
Morgantown Energy Technology Center	186	662,239
Western Area Power Administration	203	274,572
Southwestern and Southeastern Power Administration	29	8,519
Alaska Power Administration	2	516
TOTAL	2,483	\$32,429,343
	=====	=====

b. GEOGRAPHIC DISTRIBUTION OF TOTAL AWARD VALUE FOR ACTIVE CONTRACTS

The data in the following table consists of contracts that were active on September 30, 1988. The contracts are distributed by place of performance. The Foreign and U.S. Outlying Areas category represents thirteen foreign countries and one U.S. outlying area. Included is a \$1.3B contract with Mexico for purchase of crude oil.

GEOGRAPHIC DISTRIBUTION OF TOTAL AWARD VALUE
FOR ACTIVE CONTRACTS

<u>PLACE OF PERFORMANCE</u>	<u>NUMBER OF ACTIVE CONTRACTS</u>	<u>TOTAL AWARD VALUE (000)</u>
Alabama	13	\$ 78,856
Alaska	2	516
Arizona	22	34,461
Arkansas	10	14,453
California	304	2,564,349
Colorado	130	659,093
Connecticut	48	1,204,411
Delaware	4	10,689
District of Columbia	182	630,063
Florida	16	150,789
Georgia	21	42,731
Hawaii	2	29,215
Idaho	21	46,449
Illinois	66	210,624
Indiana	15	129,444
Iowa	9	2,755
Kansas	11	80,727
Kentucky	2	30,735
Louisiana	26	202,468
Maine	1	1,290
Maryland	252	587,238
Massachusetts	122	748,865
Michigan	21	173,094
Minnesota	18	23,269
Mississippi	10	34,132
Missouri	27	473,161
Montana	16	196,869
Nebraska	7	24,131
Nevada	39	337,769
New Hampshire	7	1,571
New Jersey	42	180,553
New Mexico	109	837,978
New York	63	200,893
North Carolina	27	80,488
North Dakota	11	11,703
Ohio	87	2,720,799
Oklahoma	20	8,021
Oregon	13	5,429
Pennsylvania	150	1,292,934
Rhode Island	3	17,160
South Carolina	29	118,151
South Dakota	8	3,672
Tennessee	108	12,932,811
Texas	65	848,901
Utah	30	84,578
Vermont	1	447
Virginia	165	2,469,390
Washington	47	222,332
West Virginia	25	95,210
Wisconsin	11	101,334
Wyoming	18	55,313
Foreign and U.S. Outlying Areas	<u>27</u>	<u>1,417,015</u>
 TOTAL	 2,483 =====	 \$32,429,343 =====

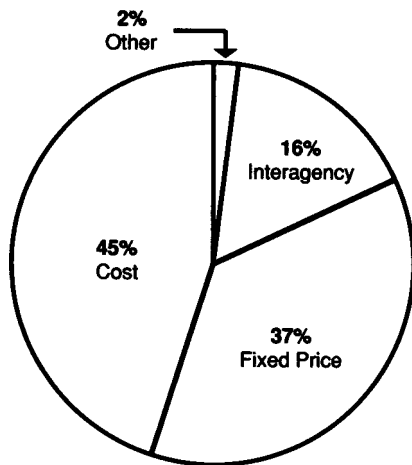
c. DISTRIBUTION BY TYPE OF CONTRACT

The data in the following chart includes contracts that were active on September 30, 1988.

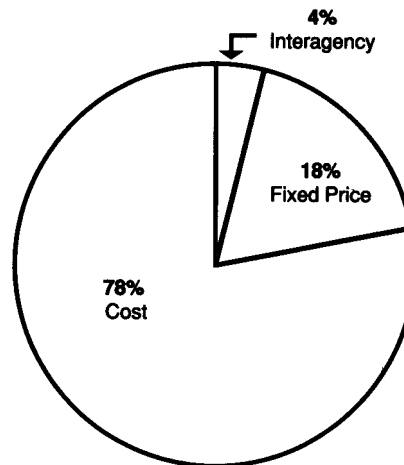
Interagency agreements with other Federal agencies account for 4 percent of the total award value. Eighteen percent of the total award value has been awarded through fixed price contracts, 78 percent through cost type contracts, and less than one percent through other categories.

DISTRIBUTION BY TYPE OF CONTRACT

<u>TYPE OF CONTRACT</u>	<u>NUMBER OF ACTIVE CONTRACTS</u>	<u>TOTAL AWARD VALUE (000)</u>
FIXED PRICE	930	\$5,697,709
COST	1,116	25,250,823
INTERAGENCY AGREEMENTS	387	1,434,935
OTHER	50	45,876
TOTAL	2,483	\$32,429,343



Number of Active Contracts
2,483



Total Award Value (000)
\$32,429,343

3. FY 1988 SOCIOECONOMIC ACTIVITY

a. DOE PRIME CONTRACTS

(1) Socioeconomic Actions and Obligations

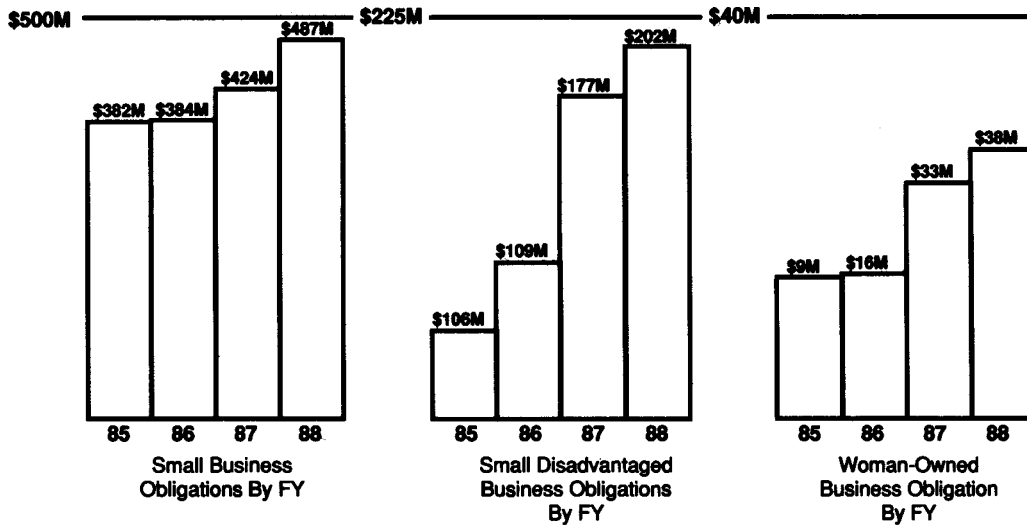
This table illustrates the socioeconomic statistics for prime contracts obligated during FY 1988. Awards to management and operating contractors are included. Individual actions are shown in more than one category if the contractor belonged in more than one group. Thus, an award to a small business firm which is in a labor surplus area is included under both categories.

SOCIOECONOMIC ACTIONS AND OBLIGATIONS

	New Awards	Number of		Amount of Obligations (000)		
		Modifications	Total	New Awards	Modifications	Total
Small Business	548	2,736	3,284	\$182,803	\$ 304,732	\$ 487,535
Small Disadvantaged Business	142	1,161	1,303	45,609	156,859	202,268
Labor Surplus Area	67	1,172	1,239	43,793	5,987,271	6,031,064
Labor Surplus Area Set-Aside	10	91	101	4,527	8,601	13,128
Woman-Owned Business	41	160	201	6,570	31,953	38,523

(2) FY 1985-1988 Socioeconomic Obligations

These charts present obligations by fiscal year within the socioeconomic procurement categories for the past four fiscal years. The same conditions described in (1) above apply to these charts.



(3) Small Business Innovation Research (SBIR) Obligations

Under the Small Business Innovation Development Act of 1982, P.L. 97-219, during FY 1988, DOE obligated \$30.9M under 295 SBIR contracts, of which 142 were Phase I awards totalling \$7.3M, and 153 were Phase II awards totalling \$23.6M. Included in the SBIR awards were four contracts totalling \$369,129 awarded to small disadvantaged businesses.

(4) Top 100 Small Business Contractors

The top 100 small business contractors are arranged in descending order by amount of procurement obligations to each contractor during FY 1988. Thirty two (32) are included in the listing of DOE's top 100 contractors.

TOP 100 SMALL BUSINESS CONTRACTORS
(DOLLARS IN THOUSANDS)

<u>CONTRACTOR NAME</u>	<u>AMOUNT OF OBLIGATIONS</u>	<u>NUMBER OF CONTRACTS</u>
1. Bart Associates, Inc.	\$22,570	1
2. KMS Fusion, Inc	15,236	4
3. Michael Curran & Associates	11,693	2
4. Advanced Sciences, Inc.	11,377	9
5. Analysas Corp.	11,362	2
6. MSE, Inc.	10,082	2
7. Meridian Corp.	9,247	6
8. Automated Sciences Group	8,977	1
9. Young Enterprises, Inc.	8,798	2
10. Maxima Corp.	7,850	6
11. Orkand Corp.	7,236	2
12. Systematic Management Services	7,125	6
13. Authorization Systems, Inc.	6,826	3
14. Brothers Electric, Inc.	6,808	4
15. Ross Aviation	6,721	1
16. Mac Technical Services Co.	6,663	1
17. Mike Thiel, Inc.	5,993	1
18. KOH Systems, Inc.	5,581	7
19. National Systems & Research Co.	5,535	7
20. Wan Lee & Associates, Inc.	5,395	2
21. Nuclear Assurance Corp.	5,349	3
22. Union Power Construction	4,773	1
23. Automated Business Systems & Services	4,243	1
24. AMC Mechanical Contractors, Inc.	4,194	1
25. RJO	3,867	1
26. Ray & Ross Transport, Inc.	3,794	1
27. Industrial Contractors, Inc.	3,779	1
28. Hicks & Ingle Corp.	3,673	3
29. CER Corp.	3,638	2
30. Southwestern Construction	3,574	1
31. Peer Consultants, Inc.	3,508	3
32. Irving Burton Assoc, Inc.	3,475	4
33. M. A. Baheth and Co.	3,437	4
34. Science & Technology, Inc.	3,254	3
35. Christenson Electric, Inc.	3,204	1
36. Corella Electric, Inc.	3,156	1
37. Energetics, Inc.	3,140	9
38. Response Analysis Corp.	3,138	2
39. Firth Construction Co., Inc.	3,069	4
40. Wise Construction Co.	3,000	1
41. Fort Steuben Enterprises	2,983	1
42. Eaton Operating Co., Inc.	2,974	1
43. Lee Wan Associates, Inc.	2,781	1
44. Job Line Construction Inc.	2,714	1
45. SRA Technologies, Inc.	2,529	4
46. Contractors Four, Inc.	2,506	3
47. Plaquemines Contracting Co., Inc.	2,350	2
48. C. Seagall, Inc.	2,318	1
49. Addison Construction Co.	2,302	6
50. Labat-Anderson, Inc.	2,251	4

TOP 100 SMALL BUSINESS CONTRACTOR (Cont'd)
(DOLLARS IN THOUSANDS)

<u>CONTRACTOR NAME</u>	<u>AMOUNT OF OBLIGATIONS</u>	<u>NUMBER OF CONTRACTS</u>
51. High Power Inc.	\$2,225	4
52. Lamb Engineering & Const Co.	2,198	2
53. Direct Services, Inc.	2,092	2
54. STD Research Corp.	2,081	2
55. S & C Security, Inc.	2,023	1
56. Ceramatec, Inc.	2,018	5
57. Cortez III Service Corp.	2,007	1
58. J. F. Sato & Associates, Inc.	2,005	2
59. Forrest H. Jackson, Inc.	1,960	4
60. EC Corp.	1,912	2
61. Technology & Management Services	1,845	2
62. World Computer System Services Associates	1,840	2
63. Nuclear Packaging, Inc.	1,823	2
64. Donald Clark Associates	1,803	3
65. Sheladia Associates, Inc.	1,787	2
66. Jerry R. Bergeson & Assoc.	1,723	1
67. Process Technology, Inc.	1,702	1
68. R & D Development, Inc.	1,700	1
69. Washington Consulting Group	1,685	4
70. Supercon, Inc.	1,645	12
71. Delco Systems Operations	1,632	1
72. Elmwood Office Park	1,632	3
73. Salazar Associates International, Inc.	1,609	4
74. Executive Resource Assoc.	1,607	2
75. Decision Analysis Corp.	1,546	1
76. John James Estes & Assoc.	1,500	1
77. Pevarnik Brothers, Inc.	1,475	1
78. Leonard G. Birnbaum & Co.	1,468	2
79. A & C Building & Industrial Maintenance	1,440	1
80. Luna Construction	1,356	1
81. Summit Construction Inc.	1,329	1
82. Advanced Fuel Research, Inc.	1,311	7
83. Brink Electric Construction	1,298	1
84. Spire Corp.	1,232	6
85. Wheeler Industries, Inc.	1,217	1
86. Eagle Research Group, Inc.	1,210	2
87. Social & Scientific Systems, Inc.	1,174	1
88. Bradley Construction Co., Inc.	1,168	3
89. Fernandez & Assoc PC	1,154	2
90. New Bedford Panoranex	1,132	4
91. Management & Tech Consultants	1,111	4
92. Creare, Inc.	1,110	8
93. Mechanical Construction Co.	1,102	1
94. ADC Ltd	1,051	2
95. Electro Chem, Inc.	1,049	3
96. Lundberg Marshall & Assoc.	1,042	1
97. Ike J. Monty, Inc.	1,031	7
98. Scientech, Inc.	1,029	2
99. Britton & Rich Contractors, Inc.	1,018	1
100. Cuaron & Gomez, Inc.	1,010	2

b. SUBCONTRACT ACTIVITY OF DOE PRIME CONTRACTORS
(Including Management and Operating Contractors)

This table presents FY 1988 subcontracting data from major DOE prime contractors. Individual actions are shown in more than one category if the subcontractor belonged in more than one group. Thus, an award to a small business firm which is also a labor surplus area set-aside is included under both categories. The total number of actions and amount of obligations include subcontracts to categories other than the socioeconomic groups shown, such as large business.

SUBCONTRACT ACTIVITY OF DOE PRIME CONTRACTORS
(Including Management and Operating Contractors)
(Dollars in Thousands)

	<u>Management & Operating Contractors</u>		<u>Non-Management & Operating Contractors**</u>	
	<u>Actions</u>	<u>Obligations</u>	<u>Actions</u>	<u>Obligations</u>
TOTAL SUBCONTRACTING	<u>1,155,039</u>	<u>\$4,953,262</u>	<u>Not Collected</u>	<u>\$445,095</u>
SMALL BUSINESS	865,035	\$2,344,290	Not Collected	\$210,305
SMALL DISADVANTAGED BUSINESS	111,289	249,887	Not Collected	51,088
LABOR SURPLUS AREA	307,832	1,128,451	6,312	83,614
LABOR SURPLUS AREA SET-ASIDE	102,522	188,932	Not Collected	Not Collected
WOMAN-OWNED BUSINESS	117,018	208,170	Not Collected	Not Collected

** With the exception of the labor surplus area category, Non-Management and Operating Contractors are not required to provide the number of subcontracting actions, only the summary data on dollars obligated.

SMALL PURCHASE ACTIVITY

This chart represents small purchases and contracts for \$25,000 or less. Individual actions are included in more than one category if the contractor belonged in more than one group. Thus, an award to a small business firm which is also a labor surplus area set-aside is included under both categories. The total number of actions and amount of obligations include subcontracts to categories other than the socioeconomic groups shown, such as large business.

FY 1988 ACTIONS AND OBLIGATIONS

	<u>NUMBER OF ACTIONS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
OPERATIONS OFFICES	12,594	\$21,876
ENERGY TECHNOLOGY CENTERS	2,720	3,175
POWER ADMINISTRATIONS	<u>40,834</u>	<u>39,864</u>
TOTAL	56,148	\$64,915
SMALL BUSINESS	(not collected)	\$43,260
SMALL DISADVANTAGED BUSINESS	1,359	\$ 1,384
LABOR SURPLUS AREA SET-ASIDE	1,939	2,558
WOMAN-OWNED BUSINESS	929	1,483

FINANCIAL ASSISTANCE ACTIVITY

1. FY 1988 AWARD ACTIVITY

a. ACTIONS AND OBLIGATIONS

This table contains information on FY 1988 financial assistance obligations. New awards issued during FY 1988 accounted for 32 percent of the 4,685 actions that obligated dollars and 33 percent of the amount obligated. The number of modifications awarded without dollars totalled 1,890.

ACTIONS AND OBLIGATIONS

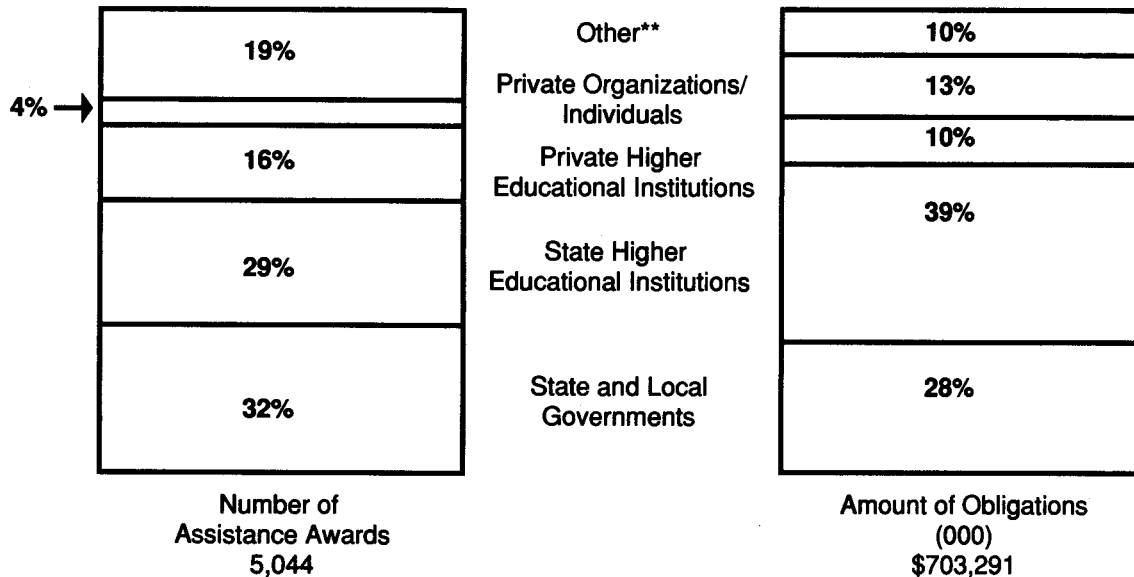
<u>TYPE OF ACTIONS</u>	<u>NUMBER OF ACTIONS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
NEW AWARDS	1,515	\$229,430
MODIFICATIONS WITH DOLLARS	3,170	473,861
SUBTOTAL	<u>4,685</u>	<u>\$703,291</u>
MODIFICATIONS WITHOUT DOLLARS	<u>1,890</u>	<u>-</u>
TOTAL	6,575 =====	\$703,291 =====

b. OBLIGATIONS BY RECIPIENT TYPE

State and local governments received 28 percent of the amount obligated and accounted for 32 percent of the instruments. State higher educational institutions received 29 percent of the awards and 39 percent of the amount obligated.

<u>TYPE OF RECIPIENT</u>	<u>NUMBER OF ASSISTANCE AWARDS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
STATE AND LOCAL GOVERNMENTS	1,634	\$196,244
STATE HIGHER EDUCATIONAL INSTITUTIONS	1,462	273,471
PRIVATE HIGHER EDUCATIONAL INSTITUTIONS	809	69,402
PRIVATE ORGANIZATIONS/INDIVIDUALS	205	89,702
OTHER **	<u>934</u>	<u>74,472</u>
TOTAL	5,044 =====	\$703,291 =====

Obligations by Recipient Type



**Financial assistance recipient type that includes: Indian tribes, non-profit organizations, recipients outside of the United States, and all recipients not otherwise specified.

c. GEOGRAPHIC DISTRIBUTION OF OBLIGATIONS

This table lists obligations distributed by place of performance and the number of awards under which the obligations were made.

The Foreign and U.S. Outlying Areas category contains awards that have a place of performance outside of the United States. The recipients were located in seven foreign countries and eight U.S. Outlying Areas.

GEOGRAPHIC DISTRIBUTION OF OBLIGATIONS

<u>PLACE OF PERFORMANCE</u>	<u>NUMBER OF ASSISTANCE AWARDS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
Alabama	101	\$ 14,054
Alaska	26	2,642
Arizona	57	15,130
Arkansas	22	2,082
California	380	67,111
Colorado	125	10,549
Connecticut	93	6,890
Delaware	32	1,410
District of Columbia	86	5,449
Florida	132	21,704
Georgia	123	8,354
Hawaii	30	1,113
Idaho	45	2,604
Illinois	231	27,146
Indiana	136	10,017
Iowa	70	5,069
Kansas	53	4,243
Kentucky	101	5,633
Louisiana	43	14,898
Maine	60	3,121
Maryland	94	8,690
Massachusetts	210	32,854
Michigan	182	17,900
Minnesota	185	12,313
Mississippi	35	2,702
Missouri	84	7,789
Montana	49	2,372
Nebraska	61	3,088
Nevada	23	8,983
New Hampshire	19	2,706
New Jersey	119	15,449
New Mexico	56	7,910
New York	247	56,019
North Carolina	109	5,512
North Dakota	33	6,755
Ohio	200	75,862
Oklahoma	50	24,797
Oregon	80	6,462
Pennsylvania	209	47,687
Rhode Island	55	2,827
South Carolina	58	11,561
South Dakota	28	2,249
Tennessee	79	7,134
Texas	162	24,052
Utah	62	6,848
Vermont	52	1,688

GEOGRAPHIC DISTRIBUTION OF OBLIGATIONS (Cont'd)

<u>PLACE OF PERFORMANCE</u>	<u>NUMBER OF ASSISTANCE AWARDS</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
Virginia	92	\$ 11,311
Washington	103	12,269
West Virginia	48	9,241
Wisconsin	174	16,893
Wyoming	42	11,819
Foreign and U.S. Outlying Areas	<u>98</u>	<u>8,880</u>
 TOTAL	 5,044 =====	 \$703,291 =====

d. TOP 100 RECIPIENTS BY OBLIGATIONS

The top 100 recipients list is arranged in descending order by the amount of financial assistance obligated to each recipient during FY 1988.

TOP 100 RECIPIENTS BY OBLIGATIONS

<u>RECIPIENT NAME</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>	<u>NUMBER OF ASSISTANCE AWARDS</u>
1. Ohio Power Co.	\$40,900	1
2. California, University of	24,774	127
3. Children's Hospital of Pittsburgh	15,000	1
4. Ohio Ontario Clean Fuels, Inc.	14,837	1
5. Louisiana State University	13,445	13
6. Florida State University	13,152	13
7. IIT Research Institute	12,726	1
8. Mt. Sinai School of Medicine	12,700	1
9. Arizona State University	12,461	12
10. Rochester, University of	12,399	19
11. Michigan, State of	11,174	4
12. Pennsylvania, State of	10,972	4
13. Alabama, University of	10,956	5
14. Illinois, State of	10,400	15
15. Ohio, State of	9,536	3
16. Boston University	8,931	6
17. Texas University	8,573	29
18. Columbia University	8,547	18
19. Loma Linda University Medical Center	8,500	1
20. Nevada, State of	8,270	6
21. Minnesota, State of	8,242	5
22. Wisconsin, University of	8,084	51
23. Medical University of South Carolina	7,961	2
24. Center For Molecular Medicine	7,500	1
25. Atomic Energy of Canada LTD	7,150	1
26. West Virginia University	6,819	9
27. Drexel University	6,685	3
28. Wisconsin, State of	6,630	4
29. Massachusetts Institute of Technology	6,175	33
30. Oklahoma, University of	5,969	6
31. Stanford University	5,934	34
32. Pacific Gas & Electric Co.	5,700	2
33. Florida, University of	5,688	23
34. Western Research Institute	5,555	2
35. Illinois, University of	5,518	36
36. Los Alamos Schools	5,468	1
37. Massachusetts, State of	5,439	10
38. Washington, University of	5,225	22
39. California, State of	5,116	4
40. New Jersey, State of	5,006	6
41. Indiana, State of	4,915	4
42. Missouri, State of	4,772	9
43. Colorado, State of	4,654	8
44. California Institute of Technology	4,558	20
45. Calderon Energy Co.	4,389	1
46. North Dakota, University of	4,370	5
47. Michigan, University of	4,317	25
48. Boston College	4,000	1
49. East Central University	4,000	1
50. Iowa, State of	3,907	7
51. Cornell University	3,858	33

TOP 100 RECIPIENTS BY OBLIGATIONS (Cont'd)

<u>RECIPIENT NAME</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>	<u>NUMBER OF ASSISTANCE AWARDS</u>
52. New York University	\$3,791	7
53. Utah, State of	3,727	6
54. Washington, State of	3,725	8
55. Maryland, University of	3,637	21
56. Chicago University of	3,468	19
57. Kentucky, State of	3,342	5
58. Yale University	3,174	23
59. Tennessee, State of	3,169	5
60. Virginia, State of	3,105	6
61. Energy International, Inc.	3,078	1
62. Texaco, Inc.	2,829	1
63. North Carolina, State of	2,815	3
64. Minnesota, University of	2,793	19
65. Virginia Polytechnic Institute/State University	2,695	9
66. Georgia Research Foundation, University of	2,611	15
67. Maine, State of	2,610	7
68. Northwestern University	2,563	22
69. Tennessee, University of	2,526	20
70. Bureau of Economic Geology	2,500	1
71. New York, State University of	2,496	24
72. Pennsylvania State University	2,434	27
73. Oregon, State of	2,433	7
74. Los Alamos, Inc., County of	2,385	1
75. Purdue Research Foundation	2,368	21
76. Colorado, University of	2,355	18
77. Harvard University	2,338	17
78. Maryland, State of	2,328	4
79. Pennsylvania, University of	2,327	21
80. Utah, University of	2,319	16
81. Texas A & M University	2,315	11
82. West Virginia, State of	2,273	5
83. Connecticut, State of	2,161	12
84. Nebraska, State of	2,153	5
85. Oregon Graduate Center	2,086	4
86. Texas, State of	2,078	1
87. Virginia, University of	2,069	17
88. North Dakota, State of	2,042	5
89. Electric Power Research Institute	2,034	5
90. Chicago, City of	1,947	3
91. National Academy of Sciences	1,945	20
92. Kansas, State of	1,929	6
93. Georgia, State of	1,884	7
94. Oklahoma, State of	1,856	6
95. South Carolina, State of	1,846	7
96. Idaho, State of	1,806	7
97. Montana, State of	1,795	4
98. South Dakota, State of	1,794	5
99. Alabama, State of	1,750	4
100. Kentucky Research Fdn, Univ of	1,737	7

e. PROGRAMS SUPPORTED BY OBLIGATIONS

This table summarizes the major programs supported by FY 1988 financial assistance obligations. The four programs highlighted represent 85 percent of total obligations for the year. The remaining 15 percent was divided among 45 other programs.

PROGRAMS SUPPORTED BY OBLIGATIONS

<u>PROGRAM</u>	<u>AMOUNT OF OBLIGATIONS (000)</u>
Weatherization Assistance for Low-Income Persons	\$142,060
Basic Energy Sciences	304,425
Energy Conservation for Institutional Buildings	27,410
Fossil Energy Research and Development	127,405
All Other Programs	<u>101,991</u>
TOTAL	\$703,291 =====

2. FY 1988 ASSISTANCE ADMINISTRATION ACTIVITY

a. ACTIVE AWARDS BY MAJOR AWARDING OFFICE

The DOE field elements with Head of Contracting Activity (HCA) authority which made assistance awards are listed on this table. The data for each HCA includes financial assistance awards that were active on September 30, 1988, and awarded by all offices within the HCA. Reference Appendix II for the names and addresses of all DOE awarding offices.

ACTIVE AWARDS BY MAJOR AWARDING OFFICE

<u>MAJOR AWARDING OFFICE</u>	<u>NUMBER OF ACTIVE AWARDS</u>	<u>TOTAL AWARD VALUE (000)</u>
Washington Procurement Office	134	\$ 429,874
Chicago Operations	1,715	2,673,851
San Francisco Operations	447	641,719
Albuquerque Operations	244	768,952
Oak Ridge Operations	443	209,081
Richland Operations	182	245,629
Idaho Operations	458	350,644
Nevada Operations	6	26,347
Savannah River Operations	448	557,283
Western Area Power Administration	32	5,320
Pittsburgh Energy Technology Center	155	386,890
Morgantown Energy Technology Center	<u>57</u>	<u>300,134</u>
TOTAL	4,321 =====	\$6,595,724 =====

b. GEOGRAPHIC DISTRIBUTION OF TOTAL AWARD VALUE FOR ACTIVE AWARDS

The data in the following table consists of financial assistance instruments that were active on September 30, 1988. The awards are distributed by place of performance which includes eight foreign countries and eight U.S. Outlying Areas.

GEOGRAPHIC DISTRIBUTION OF TOTAL AWARD VALUE FOR ACTIVE AWARDS

<u>PLACE OF PERFORMANCE</u>	<u>NUMBER OF ACTIVE AWARDS</u>	<u>TOTAL AWARD VALUE (000)</u>
Alabama	75	\$ 89,385
Alaska	22	34,395
Arizona	57	90,971
Arkansas	17	47,535
California	423	519,560
Colorado	112	188,937
Connecticut	89	55,269
Delaware	22	14,466
District of Columbia	72	59,798
Florida	103	167,964
Georgia	117	103,876
Hawaii	37	43,130
Idaho	44	24,951
Illinois	203	326,514
Indiana	114	339,267
Iowa	59	84,540
Kansas	38	50,024
Kentucky	87	158,701
Louisiana	33	177,998
Maine	41	27,177
Maryland	82	75,202
Massachusetts	178	185,823
Michigan	133	199,893
Minnesota	104	160,656
Mississippi	49	57,205
Missouri	64	118,717
Montana	36	22,359
Nebraska	47	36,194
Nevada	25	41,746
New Hampshire	25	21,599
New Jersey	70	129,153
New Mexico	51	102,896
New York	210	331,578
North Carolina	98	86,943
North Dakota	39	53,205
Ohio	161	612,167
Oklahoma	41	142,775
Oregon	70	95,289
Pennsylvania	192	330,246
Rhode Island	51	20,010
South Carolina	44	88,465
South Dakota	30	18,159
Tennessee	67	188,925
Texas	143	135,005
Utah	52	112,113
Vermont	42	33,816
Virginia	80	104,104

GEOGRAPHIC DISTRIBUTION OF TOTAL AWARD VALUE FOR ACTIVE AWARDS (Cont'd)

<u>PLACE OF PERFORMANCE</u>	<u>NUMBER OF ACTIVE AWARDS</u>	<u>TOTAL AWARD VALUE (000)</u>
Washington	96	\$ 123,649
West Virginia	36	56,972
Wisconsin	124	134,935
Wyoming	36	75,292
Foreign and U.S. Outlying Areas	<u>79</u>	<u>96,134</u>
 TOTAL	 4,321 <u>=====</u>	 \$6,595,724 <u>=====</u>

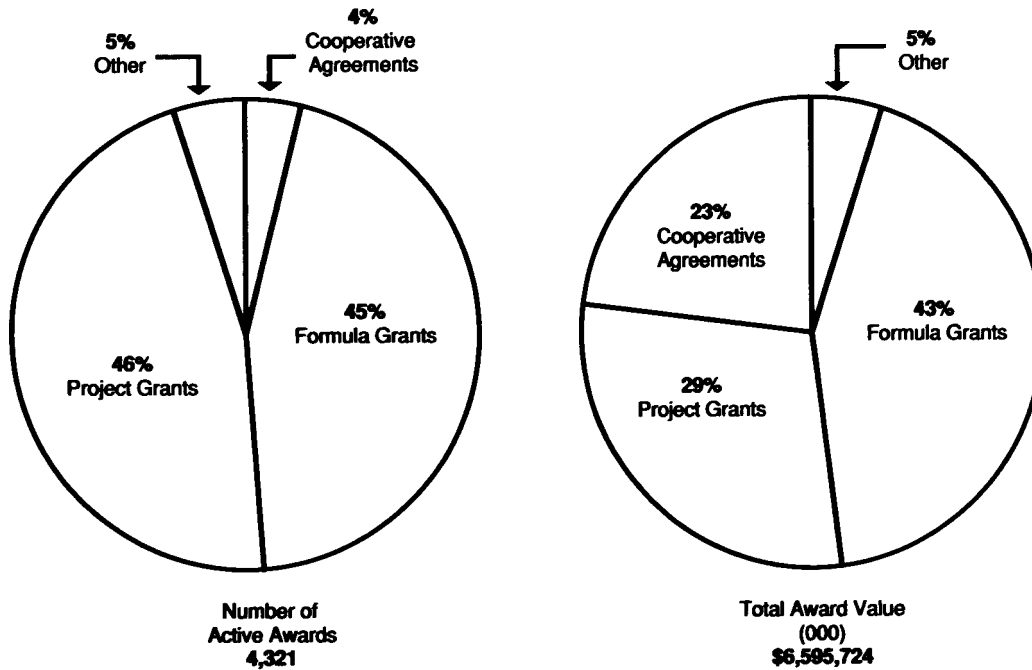
c. DISTRIBUTION BY TYPE OF ASSISTANCE AWARD

The data in the following chart shows financial assistance awards that were active on September 30, 1988.

Formula grants accounted for 43 percent of the total award value and 45 percent of the number of active instruments.

<u>TYPE OF AWARD</u>	<u>NUMBER OF ACTIVE AWARDS</u>	<u>TOTAL AWARD VALUE (000)</u>
PROJECT GRANTS	1,972	\$1,926,875
FORMULA GRANTS	1,943	2,849,932
COOPERATIVE AGREEMENTS	171	1,523,356
OTHER	235	295,561
TOTAL	4,321	\$6,595,724

Distribution By Type of Assistance Award



RETIREMENT ACTIVITY

This table illustrates the number of award instruments that DOE retired in FY 1988. DOE has made significant progress in reducing the number of inactive instruments. This contributes to reduced administrative burden and substantial reduction in unliquidated government obligations.

<u>TYPE OF AWARD INSTRUMENT</u>	<u>FY 1988 RETIREMENTS</u>
<u>Procurement</u>	
Fixed-Price	721
Cost Reimbursement	390
Other Procurement	<u>450</u>
Subtotal	<u>1,561</u>
<u>Assistance</u>	
Grants	1,609
Cooperative Agreements	62
Other Assistance	<u>99</u>
Subtotal	<u>1,770</u>
TOTAL	3,331 =====

UNSOLICITED PROPOSAL ACTIVITY

An unsolicited proposal is a written offer to perform an effort submitted by an organization or individual solely on its own initiative with the objective of obtaining financial support and not in response to a specific request made by DOE. DOE considers proposals in all areas of energy and energy-related research and development with emphasis on long-term, high-risk, high-payoff technologies. A proposal may be accepted by DOE if it explores a method, approach, or an idea, or carries out research and development and does not duplicate work already underway or contemplated by DOE, and not already known by DOE, or has previously unrecognized merit or value.

The table below shows the number of proposals available for review, funded, and declined.

	<u>NUMBER</u>	<u>TOTAL AWARD VALUE (000)</u>
CARRIED OVER TO FY 1988	71	
RECEIVED DURING FY 1988	<u>276</u>	
TOTAL FOR REVIEW		347 ===
ACTIONS FUNDED	90	\$15,493
ACTIONS DECLINED	<u>143</u>	
TOTAL REVIEWED		233 ===
CARRYOVER TO FY 1989		114

GLOSSARY

The explanations contained in this glossary are not intended to be definitions. They are included only to aid in understanding certain terms as used in this report.

Action -- A new award or modification of an already existing award.

Active Instrument -- An award instrument that, as of a certain date, has not reached its completion date.

Award Value -- Current total value of the award including both Government share and awardee share of cost-sharing awards.

CICA--Competition in Contracting Act of 1984, P.L. 98-369.

Contract -- A binding legal document used to acquire goods or services for the direct benefit of the Federal Government.

Contract Type -- Specific pricing arrangement employed for the performance of work under a contract.

Cooperative Agreement -- Assistance instrument with substantial involvement between DOE and recipient.

Cost Type Contract -- An agreement by the contractor to conduct work in return for a guarantee of some degree of cost reimbursement.

Financial Assistance -- The transfer of money or the assumption of risk, the principal purpose of which is to accomplish a public purpose of support or stimulation authorized by Federal statute. Assistance includes, but is not limited to, grants, cooperative agreements, direct payments, loans and loan guarantees.

Fixed Price Contract -- An agreement by the contractor to furnish specified supplies or services at a stipulated price which is usually not subject to adjustment because of performance cost.

Formula Grant -- Allocation of funds to states or their subdivisions in accordance with a distribution formula prescribed by law or administrative regulation for activities of a continuing nature not confined to a specific project.

Interagency Agreement -- Procurement action placed with or through other Federal agencies.

Management and Operating Contractors (M&O) -- A Government-owned or controlled facility, such as a National Laboratory, that is managed and operated by a contractor, as specifically defined in FAR 17.6.

Modification -- Alteration to an existing award.

Obligation -- Amount which is actually funded by the Government.

Other -- Financial assistance recipient type that includes: Indian tribes, non-profit organizations, recipients outside of the United States, and all recipients not otherwise specified.

Private Organizations/Individuals -- Financial assistance recipient type that includes: profit making concerns and individuals.

Procurement -- Purchase of goods or services with an award instrument, such as a contract or purchase order.

Project Grant -- Allocation of funds for fixed or known periods for a specific project, or the delivery of specific services or products without liability for damages for failure to perform.

Small Business -- A profitmaking concern which is independently owned and operated, is not dominant in its field, and further qualifies under the size standards criteria of the Small Business Administration.

Small Purchase -- A procurement of supplies or services (other than personal services) where total cost is no more than \$25,000.

U.S. Outlying Area -- American Samoa, Guam, Northern Mariana Islands, Puerto Rico, Trust Territory of the Pacific Islands, and Virgin Islands.

MANAGEMENT AND OPERATING CONTRACTORS

<u>CONTRACTOR NAME</u>	<u>FACILITY OR SERVICE RENDERED AND LOCATION</u>	<u>CONTRACT NUMBER & FY 1988 OBLIGATIONS (\$000)</u>
Allied-Signal Inc.	Kansas City Plant Kansas City, Missouri	AC04-76DP00613 \$607,135
Associated Universities, Inc.	Brookhaven National Laboratory Upton, New York	AC02-76CH00016 \$264,139
AT&T Technologies, Inc.	Sandia National Laboratory Albuquerque, New Mexico	AC04-76DP00789 \$1,179,659
Battelle Memorial Institute	Pacific Northwest Laboratories Richland, Washington	AC06-76RL01830 \$154,373
Bechtel Petroleum Operations, Inc.	Naval Petroleum Reserves in California Tupman, California	AC01-85FE60520 \$152,462
Boeing Petroleum Services, Inc.	Strategic Petroleum Reserve Harahan, Louisiana	AC96-85P021431 \$104,320
California, University of	Laboratory of Energy-Related Health Research Davis, California	AC03-76SF00472 \$ 576
California, University of	Laboratory of Radiobiology and Environmental Health San Francisco, California	AC03-76SF01012 \$3,078
California, University of	Lawrence Berkeley Laboratory Berkeley, California	AC03-76SF00098 \$180,777
California, University of	Lawrence Livermore National Laboratory Livermore, California	W-7405-ENG-48 \$996,630
California, University of	Los Alamos National Scientific Laboratory Los Alamos, New Mexico	W-7405-ENG-36 \$970,765
Chicago, University of	Argonne National Laboratory Argonne, Illinois	W-31109-ENG-38 \$303,303
E. I. DuPont DeNemours & Co., Inc.	Savannah River Laboratory and Plant Aiken, South Carolina	AC09-76SR00001 \$1,206,987
EG&G Idaho, Inc.	Idaho National Engineering Laboratory Idaho Falls, Idaho	AC07-76ID01570 \$281,499
EG&G Energy Measurements, Inc.	Timing, Firing and Scientific Support Las Vegas, Nevada	AC08-83NV10282 and AC08-88NV10617 \$167,447
General Electric Co.	Knolls Atomic Power Laboratory Schenectady, New York	AC12-76SNO0052 \$243,522
General Electric Co.	Pinellas Plant Jacksonville, Florida	AC04-76DP00656 \$115,746

MANAGEMENT AND OPERATING CONTRACTORS (Cont'd)

<u>CONTRACTOR NAME</u>	<u>FACILITY OR SERVICE RENDERED AND LOCATION</u>	<u>CONTRACT NUMBER & FY 1988 OBLIGATIONS (\$000)</u>
Georgia Research Foundation, University of	Savannah River Ecology Laboratory Athens, Georgia	AC09-76SR00819 \$7,306
Holmes & Narver, Inc.	Architect-Engineer Services Las Vegas, Nevada	AC08-86NV10471 \$76,220
Iowa State University	Ames Laboratory Ames, Iowa	W-7405-ENG-82 \$21,844
Lawrence-Allison & Associates West	Naval Petroleum and Oil Shale Reserves, Casper, Wyoming	AC01-86FE60896 \$18,625
Lovelace Biomedical and Environmental Research Institute	Inhalation Toxicology Research Institute Albuquerque, New Mexico	AC04-76EV01013 \$16,778
Martin Marietta Energy Systems, Inc.	Oak Ridge Gaseous Diffusion Plant Oak Ridge National Laboratory Paducah Gaseous Diffusion Plant Y-12 Plant Oak Ridge, Tennessee	AC05-84OR21400 \$1,050,049
Martin Marietta Energy Systems, Inc.	Portsmouth Gaseous Diffusion Plant Piketon, Ohio	AC05-76OR00001 \$92,526
Mason & Hanger-Silas Mason Co.	Pantex Plant Amarillo, Texas	AC04-76DP00487 \$157,530
Midwest Research Institute	Solar Energy Research Institute Golden, Colorado	AC02-83CH10093 \$54,919
M-K Ferguson Co.	Construction Management Services Idaho Falls, Idaho	AC07-79ID01750 \$ 1,200
Monsanto Research Corp.	Mound Facility Miamisburg, Ohio	AC04-76DP00053 \$156,352
Oak Ridge Associated Universities, Inc.	Research and Training Facilities Oak Ridge, Tennessee	AC05-76OR00033 \$33,617
Princeton University	Princeton Plasma Physics Laboratory Princeton, New Jersey	AC02-76CH03073 \$102,682
Protection Technologies, Inc.	Security Services Idaho Falls, Idaho	AC07-88ID12715 \$15,642
Reynolds Electrical and Engineering Co., Inc.	Weapons Test Support Services Las Vegas, Nevada	AC08-84NV10327 \$369,965

MANAGEMENT AND OPERATING CONTRACTORS (Cont'd)

<u>CONTRACTOR NAME</u>	<u>FACILITY OR SERVICE RENDERED AND LOCATION</u>	<u>CONTRACT NUMBER & FY 1988 OBLIGATIONS (\$000)</u>
Rockwell International Corp.	Energy Technology Engineering Center Canoga Park, California	AC03-76SF00700 \$22,263
Rockwell International Corp.	Rocky Flats Plant Golden, Colorado	AC04-76DP03533 \$447,769
Rockwell International Corp.	Specific Manufacturing Capability Plant Idaho Falls, Idaho	AC07-87ID12600 \$21,726
Rust Engineering Corp.	Construction Services Oak Ridge, Tennessee	AC05-79OR05663 \$72,391
Southeastern Universities Research Association	Architect-Engineering Services Newport News, Virginia	AC05-84ER40150 \$43,720
Stanford University	Stanford Linear Accelerator Facility Stanford, California	AC03-76SF00515 \$124,988
Universities Research Association, Inc.	Fermi National Accelerator Laboratory Batavia, Illinois	AC02-76CH03000 \$207,373
Wackenhut Services, Inc.	Security Services Las Vegas, Nevada	AC08-87NV10559 \$24,346
Wackenhut Services, Inc.	Security Services Aiken, South Carolina	AC09-88SR18002 \$15,179
West Valley Nuclear Services	West Valley Project West Valley, New York	AC07-81NE44139 \$50,633
Westinghouse Electric Corp.	Bettis Atomic Power Laboratory West Mifflin, Pennsylvania	AC11-76PN00014 \$259,800
Westinghouse Electric Corp.	Waste Isolation Pilot Plant Carlsbad, New Mexico	AC04-86AL31950 \$89,335
Westinghouse Hanford Co.	Operations and Engineering Services at Hanford Richland, Washington	AC06-87RL10930 \$738,966
Westinghouse Idaho Nuclear Co., Inc.	Idaho Chemical Processing Plant Idaho Falls, Idaho	AC07-84ID12435 \$106,082
Westinghouse Materials Co. of Ohio	Fernald Feed Materials Production Center Cincinnati, Ohio	AC05-86OR21600 \$193,253

ADDRESSES OF DEPARTMENT OF ENERGY AWARDING OFFICES

Washington Operations Office (HCA)
1000 Independence Avenue, SW
Forrestal Building, MA-45, Room 11-066
Washington, D.C. 20585

Chicago Operations Office (HCA)
9800 South Cass Avenue
Building 201, 3rd Floor
Argonne, IL 60439

Environmental Measurements Laboratory
376 Hudson Street
New York, NY 10014

Boston Support Office
10 Causeway Street
Boston, MA 02222

New York Support Office
26 Federal Plaza, Room 3437
New York, NY 10278

Philadelphia Support Office
1421 Cherry Street
Philadelphia, PA 19102

Chicago Support Office
9800 South Cass Avenue
Building 201, 3rd Floor
Argonne, IL 60439

San Francisco Operations Office (HCA)
1333 Broadway
Oakland, CA 94612

Albuquerque Operations Office (HCA)
Kirtland AFB, H Street
Albuquerque, NM 87115

Los Alamos Area Office
528 - 35th Street
Los Alamos, NM 87544

Kansas City Area Office
200 E 95th Street
Kansas City, MO 64141

Dallas Support Office
1440 W. Mockingbird Lane
Dallas, TX 75235

Kansas City Support Office
911 Walnut St., 14th Floor
Kansas City, MO 64106

Oak Ridge Operations Office (HCA)
200 Administration Road, Federal Building
Oak Ridge, TN 37830

Strategic Petroleum Reserve Project
Management Office
900 Commerce Road, East, U.S. 492
New Orleans, LA 70123

Richland Operations Office (HCA)
825 Jadwin Avenue
Richland, WA 99352

Idaho Operations Office (HCA)
785 DOE Place
Idaho Falls, ID 83402

Grand Junction Project Office
2597B - 3/Quarter Road
Grand Junction, CO 81502

Denver Support Office
1075 Yukon Street
Lakewood, CO 80226

ADDRESSES OF DEPARTMENT OF ENERGY AWARDING OFFICES (Cont'd)

Nevada Operations Office (HCA)
2753 S. Highland Street
Las Vegas, NV 89114

Savannah River Operations Office (HCA)
Savannah River Plant, Plant 1
Aiken, SC 29801

Atlanta Support Office
730 Peachtree Street, NE, Suite 876
Atlanta, GA 30308

Pittsburgh Naval Reactors Office (HCA)
McKeesport Blvd.
West Mifflin, PA 15122

Schenectady Naval Reactors Office (HCA)
River Road
Schenectady, NY 12301

Morgantown Energy Technology Center (HCA)
3610 Collins Ferry Road
Morgantown, WV 26505

Grand Forks Project Office
15 N. 23rd Street
Grand Forks, ND 58202

Laramie Project Office
365 N. 9th Street
Laramie, WY 82071

Pittsburgh Energy Technology Center (HCA)
Cochran Mill Road
Pittsburgh, PA 15236

Bartlesville Project Office
Virginia & Cudahy Streets
Bartlesville, OK 74005

Western Area Power Administration (HCA)
1627 Cole Boulevard
Golden, CO 80401

Southwestern Power Administration (HCA)
333 W. Fourth Street
Tulsa, OK 74101

Southeastern Power Administration
Samuel Elbert Building
Elberton, GA 30635

Bonneville Power Administration (HCA)
415 First Avenue North
Portland, OR 97208

Alaska Power Administration (HCA)
Glacier Avenue & 99th Street
Juneau, AK 99802