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**ST06. Dollar Summary of Federal Supply
Classification and Service Category by
Company**

March 15

(Previous Title: Prime Contract Awards Over \$25,000
by Federal Supply Classification (FSC)
and Service Codes (SVC))

This is a listing of DoD prime contract awards over \$25,000 by FSC and SVC codes, subdivided by awards for Research, Development Test, and Evaluation (RTD&E); services; and supplies and equipment. The tabulation includes the code, contractor name, principal State of performance, awarding Department, and net value of awards. (Approximately 4,200 pages)

DEPARTMENT OF DEFENSE

PAGE 1

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AB91	(CONTINUED)				
AB91	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Community Svcs & Develop-Basic	\$ 2,608
AB96	Y M C A OF THE UNITED STATES	Hawaii	NAVY	RDTE/Other Community Svcs & Develop-Mgmt &	195
AC11	ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY	RDTE/Aircraft-Basic Research	60
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Basic Research	43
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Aircraft-Basic Research	65
	DECEL INC	Florida	NAVY	RDTE/Aircraft-Basic Research	370
	EAGLE TECHNOLOGY INC	Virginia	NAVY	RDTE/Aircraft-Basic Research	633
	ELECTROSPACE SYSTEMS INC	Florida	USAF	RDTE/Aircraft-Basic Research	1,009
	G T E LABORATORIES INC	Mass	NAVY	RDTE/Aircraft-Basic Research	40
	GENERAL ELECTRIC CO	Ohio	NAVY	RDTE/Aircraft-Basic Research	398
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Basic Research	1,465
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Aircraft-Basic Research	1,168
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Basic Research	319
	HONEYWELL INC	Minnesota	USAF	RDTE/Aircraft-Basic Research	25
	LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Aircraft-Basic Research	240
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Aircraft-Basic Research	1,335
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Aircraft-Basic Research	115
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Aircraft-Basic Research	79
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Aircraft-Basic Research	3,848
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Basic Research	717
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Aircraft-Basic Research	53
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Aircraft-Basic Research	350
	R&D TOTAL				12,332
AC12	A A I CORPORATION	Maryland	ARMY	RDTE/Aircraft-Exploratory Development	2,605

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC12 (CONTINUED)					
	ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	\$ 61
		California	NAVY	RDTE/Aircraft-Exploratory Development	474
	CONTRACTOR TOTAL				535
	ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Aircraft-Exploratory Development	513
	APPLICATIONS RESEARCH CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	1,060
	ATLANTIC SCIENCE & TECHNOLOGY	Penn	NAVY	RDTE/Aircraft-Exploratory Development	473
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Aircraft-Exploratory Development	134
			USAF	RDTE/Aircraft-Exploratory Development	272
	COUNTRY TOTAL				406
	BDM SERVICES COMPANY	Virginia	ARMY	RDTE/Aircraft-Exploratory Development	75
	BELL HELICOPTER INTERNATIONAL	Texas	ARMY	RDTE/Aircraft-Exploratory Development	38
	BIHRLE APPLIED RESEARCH INC	Virginia	USAF	RDTE/Aircraft-Exploratory Development	205
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Exploratory Development	525
		Washington	NAVY	RDTE/Aircraft-Exploratory Development	148
			USAF	RDTE/Aircraft-Exploratory Development	170
	COUNTRY TOTAL				318
	CONTRACTOR TOTAL				843
	BURNETTE ENGINEERING	Ohio	USAF	RDTE/Aircraft-Exploratory Development	106
	CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Exploratory Development	43
	CHROMATICS INC	Georgia	NAVY	RDTE/Aircraft-Exploratory Development	80
	CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	209
	DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Exploratory Development	287
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Aircraft-Exploratory Development	497
	DU PONT E I DE NMOURS COMPANY	Delaware	NAVY	RDTE/Aircraft-Exploratory Development	59

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC12 (CONTINUED)				
EAGLE TECHNOLOGY INC	California	NAVY	RDTE/Aircraft-Exploratory Development	\$ 90
FRACTURE TECHNOLOGY ASSOCIATES	Penn	NAVY	RDTE/Aircraft-Exploratory Development	39
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Exploratory Development	58
GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Aircraft-Exploratory Development	168
	Ohio	NAVY	RDTE/Aircraft-Exploratory Development	780
		USAF	RDTE/Aircraft-Exploratory Development	659
	COUNTRY TOTAL			1,439
CONTRACTOR TOTAL				
	Penn	NAVY	RDTE/Aircraft-Exploratory Development	100
				1,707
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Exploratory Development	35
		NAVY	RDTE/Aircraft-Exploratory Development	125
		USAF	RDTE/Aircraft-Exploratory Development	440
	COUNTRY TOTAL			600
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Exploratory Development	44
HONEYWELL INC	Minnesota	NAVY	RDTE/Aircraft-Exploratory Development	160
INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	200
JALORDS INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	75
KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Aircraft-Exploratory Development	132
KESTREL INSTITUTE	California	NAVY	RDTE/Aircraft-Exploratory Development	469
KETRON INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	159
LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Exploratory Development	50
	New Jersey	ARMY	RDTE/Aircraft-Exploratory Development	27
				77
CONTRACTOR TOTAL				
LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development	198

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FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC12 (CONTINUED)					
	LOGISTICS MANAGEMENT ENGRG	Penn	NAVY	RDTE/Aircraft-Exploratory Development	\$ 323
	LOUISIANA TECH UNIVERSITY	Louisiana	NAVY	RDTE/Aircraft-Exploratory Development	25
	LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Aircraft-Exploratory Development	380
	MARMON MOTOR COMPANY	Texas	ARMY	RDTE/Aircraft-Exploratory Development	642
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Aircraft-Exploratory Development	272
		Maryland	NAVY	RDTE/Aircraft-Exploratory Development	671
	CONTRACTOR TOTAL				943
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	80
	MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	470 193
		COUNTRY TOTAL			663
	MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	110
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Aircraft-Exploratory Development	349
	NAVVAR INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	221
	NORTHROP CORPORATION	California	ARMY NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	260 175 570
		COUNTRY TOTAL			1,005
	P D A ENGINEERING	California	NAVY	RDTE/Aircraft-Exploratory Development	39
	PERCEPTRONICS INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	100
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Aircraft-Exploratory Development	3,991
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	111
	SCIENCE APPLICATIONS INTL CORP	Mass	NAVY	RDTE/Aircraft-Exploratory Development	448
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Aircraft-Exploratory Development	498

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC12 (CONTINUED)					
	SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	\$ 51
	SPECIAL METALS CORPORATION	New York	USAF	RDTE/Aircraft-Exploratory Development	246-
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Aircraft-Exploratory Development	633
	TELEDYNE INDUSTRIES INC	California	ARMY	RDTE/Aircraft-Exploratory Development	138
	THERMACORE INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	244
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Exploratory Development	125
			NAVY	RDTE/Aircraft-Exploratory Development	3,550
		COUNTRY TOTAL			3,675
		Florida	ARMY	RDTE/Aircraft-Exploratory Development	95
			NAVY	RDTE/Aircraft-Exploratory Development	71
		COUNTRY TOTAL			166
	CONTRACTOR TOTAL				3,841
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Aircraft-Exploratory Development	25
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Exploratory Development	393
	VECTOR RESEARCH INC	Michigan	ARMY	RDTE/Aircraft-Exploratory Development	80
	VITRO CORPORATION	Maryland	NAVY	RDTE/Aircraft-Exploratory Development	225
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Aircraft-Exploratory Development	50
			USAF	RDTE/Aircraft-Exploratory Development	123
		COUNTRY TOTAL			173
	R&D TOTAL				27,527
	AC13 ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Aircraft-Advanced Development	138
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Advanced Development	2,067
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Aircraft-Advanced Development	230
	ANALYTICAL METHODS INC	Washington	USAF	RDTE/Aircraft-Advanced Development	104

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AC13 (CONTINUED)					
	ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	\$ 135
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Aircraft-Advanced Development	3,370
	AVCO CORPORATION	Conn	ARMY	RDTE/Aircraft-Advanced Development	1,782
	BARNARD & ASSOCIATES	California	NAVY	RDTE/Aircraft-Advanced Development	30
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Advanced Development	57,000
	BOEING COMPANY THE	Washington	NAVY	RDTE/Aircraft-Advanced Development	1,483
			USAF	RDTE/Aircraft-Advanced Development	12,477
		COUNTRY TOTAL			13,960
	CENTURY COMPUTING INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	274
	DWA COMPOSITE SPECIALTIES INC	California	NAVY	RDTE/Aircraft-Advanced Development	129
	ELDEC CORPORATION	Washington	ARMY	RDTE/Aircraft-Advanced Development	110
	FAAC PERCEPTIONICS INC	Michigan	USAF	RDTE/Aircraft-Advanced Development	75
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Advanced Development	38,324
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Aircraft-Advanced Development	2,565
		Ohio	USAF	RDTE/Aircraft-Advanced Development	202,194
	CONTRACTOR TOTAL				204,759
	GENERAL INSTRUMENT CORP DEL	New York	NAVY	RDTE/Aircraft-Advanced Development	32
	GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Aircraft-Advanced Development	4,261
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	3,900
		New York	USAF	RDTE/Aircraft-Advanced Development	1,095
	CONTRACTOR TOTAL				4,995
	HONEYWELL INC	Mass	NAVY	RDTE/Aircraft-Advanced Development	148
		Minnesota	USAF	RDTE/Aircraft-Advanced Development	725

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC13 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Advanced Development	873
	LITTON SYSTEMS INC	Iowa	NAVY	RDTE/Aircraft-Advanced Development	158
	LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Advanced Development	211
		USAF	RDTE/Aircraft-Advanced Development	1,000	
				168,800	
	COUNTRY TOTAL				169,800
		Georgia	USAF	RDTE/Aircraft-Advanced Development	1,840
					171,640
	CONTRACTOR TOTAL				
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Aircraft-Advanced Development	900
	LORAL ELECTRO OPTICAL SYSTEMS	California	USAF	RDTE/Aircraft-Advanced Development	200
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Aircraft-Advanced Development	428
	MC DONNELL DOUGLAS CORPORATION	Maryland	NAVY	RDTE/Aircraft-Advanced Development	72
		Missouri	NAVY	RDTE/Aircraft-Advanced Development	850
		USAF	RDTE/Aircraft-Advanced Development	55,358	
	COUNTRY TOTAL				56,208
					56,280
					57,000
	MCDONNELL DGLS BELL HEL TEX JV	Arizona	ARMY	RDTE/Aircraft-Advanced Development	290
	MERCURY LPE COMPANY INC	Penn	USAF	RDTE/Aircraft-Advanced Development	117,567
	NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	100
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Advanced Development	101,088
		USAF	RDTE/Aircraft-Advanced Development	101,188	
	COUNTRY TOTAL				689
		Oklahoma	USAF	RDTE/Aircraft-Advanced Development	101,877
	CONTRACTOR TOTAL				

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FISCAL YEAR 1989

(\$AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC13 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Advanced Development	\$ 1,769
		Virginia	USAF	RDTE/Aircraft-Advanced Development	1,000
	CONTRACTOR TOTAL				2,769
	SEMCOR INC	New Jersey	NAVY	RDTE/Aircraft-Advanced Development	2,620
	SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Advanced Development	91
	SYNETICS CORPORATION	Mass	USAF	RDTE/Aircraft-Advanced Development	400
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	228
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Aircraft-Advanced Development	765
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Advanced Development	266,620
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Advanced Development	550
	VEDA INCORPORATED	Ohio	USAF	RDTE/Aircraft-Advanced Development	4,408
		Penn	NAVY	RDTE/Aircraft-Advanced Development	3,460
	CONTRACTOR TOTAL				7,868
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Advanced Development	858
R&D TOTAL					1,121,968
AC14	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Engineering Development	362
		California	NAVY	RDTE/Aircraft-Engineering Development	250
	CONTRACTOR TOTAL				612
	ALLIED SIGNAL INC	California	NAVY	RDTE/Aircraft-Engineering Development	1,090
	ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Aircraft-Engineering Development	3,994
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Aircraft-Engineering Development	1,870
	BELL BOEING JV	Texas	NAVY	RDTE/Aircraft-Engineering Development	274,178
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Engineering Development	1,011-
			NAVY	RDTE/Aircraft-Engineering Development	5,632

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AC14 (CONTINUED)

BICRON CORP				COUNTRY TOTAL	\$	4,621
BOEING COMPANY THE	California	NAVY	RDTE/Aircraft-Engineering Development			71
	Alabama	USAF	RDTE/Aircraft-Engineering Development			7,252
	Penn	ARMY	RDTE/Aircraft-Engineering Development			1,614
		NAVY	RDTE/Aircraft-Engineering Development			1,669
COUNTRY TOTAL						3,283
	Washington	NAVY	RDTE/Aircraft-Engineering Development			67-
	USAF	RDTE/Aircraft-Engineering Development				91,816
COUNTRY TOTAL						91,749
COUNTRY TOTAL						102,284
CONTRACTOR TOTAL						
C A E INDUSTRIES LTD	Arizona	USAF	RDTE/Aircraft-Engineering Development			623
CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Engineering Development			225
CAS INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development			2,592
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Aircraft-Engineering Development			1,188
COMMUNICATIONS ELEC INTL	Florida	NAVY	RDTE/Aircraft-Engineering Development			43
COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Aircraft-Engineering Development			428
CTA INCORPORATED	Colorado	USAF	RDTE/Aircraft-Engineering Development			242
E SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development			1,045
EATON CORPORATION	New York	USAF	RDTE/Aircraft-Engineering Development			28,286
ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Engineering Development			11,142
	Penn	USAF	RDTE/Aircraft-Engineering Development			368
CONTRACTOR TOTAL						11,510
ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development			1,540
FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Aircraft-Engineering Development			4,178

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC14 (CONTINUED)

GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Aircraft-Engineering Development	\$	1,712
	Texas	USAF	RDTE/Aircraft-Engineering Development		11,141
CONTRACTOR TOTAL					9,429
GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Aircraft-Engineering Development		195
		NAVY	RDTE/Aircraft-Engineering Development		743
COUNTRY TOTAL					548
	Ohio	USAF	RDTE/Aircraft-Engineering Development		52,489
	Washington	ARMY	RDTE/Aircraft-Engineering Development		167
CONTRACTOR TOTAL					52,108
GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Engineering Development		5,657
		USAF	RDTE/Aircraft-Engineering Development		678
COUNTRY TOTAL					6,335
	Georgia	NAVY	RDTE/Aircraft-Engineering Development		75
GEORGIA TECH RESEARCH INST	New York	NAVY	RDTE/Aircraft-Engineering Development		187,980
GRUMMAN AEROSPACE CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development		105
H R TEXTRON INC	California	NAVY	RDTE/Aircraft-Engineering Development		6,212
HUGHES AIRCRAFT COMPANY	Texas	USAF	RDTE/Aircraft-Engineering Development		5,774
HUGHES TRAINING SYS INC	ISRAEL	USAF	RDTE/Aircraft-Engineering Development		38
ISRAEL AIRCRAFT INDS INTL	Missouri	ARMY	RDTE/Aircraft-Engineering Development		47,926
LIGHT HELICOPTER TURBIN ENG	Iowa	NAVY	RDTE/Aircraft-Engineering Development		147
LITTON SYSTEMS INC	California	NAVY	RDTE/Aircraft-Engineering Development		54,734
LOCKHEED CORPORATION		USAF	RDTE/Aircraft-Engineering Development		1,950
COUNTRY TOTAL					56,684
	Texas	ARMY	RDTE/Aircraft-Engineering Development		250
LOCKHEED MISSILES & SPACE CO					

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
C14 (CONTINUED)					
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Aircraft-Engineering Development	278
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Aircraft-Engineering Development	220
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development	162,435
		USAF	RD'E/Aircraft-Engineering Development	1,154,414	
	COUNTRY TOTAL				1,316,849
	Missouri	NAVY	RDTE/Aircraft-Engineering Development	4,551	
	USAF	RDTE/Aircraft-Engineering Development	19,756		
	COUNTRY TOTAL				24,307
	New York	NAVY	RDTE/Aircraft-Engineering Development	85	
	COUNTRY TOTAL				1,341,241
	CONTRACTOR TOTAL				48,004
	MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Engineering Development	26,155
	MC DONNELL DOUGLAS TRNG S S	Oklahoma	USAF	RDTE/Aircraft-Engineering Development	200,000
	MCDONNELL DGLS GEN DYNAMICS JV	Missouri	NAVY	RDTE/Aircraft-Engineering Development	420,000
		Texas	NAVY	RDTE/Aircraft-Engineering Development	620,000
	CONTRACTOR TOTAL				3,900
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Aircraft-Engineering Development	300
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Aircraft-Engineering Development	527
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Aircraft-Engineering Development	125
	PARAGON GRAPHICS INC	Florida	NAVY	RDTE/Aircraft-Engineering Development	375
	R & D AERONAUTICAL ENGRG CO	Texas	ARMY	RDTE/Aircraft-Engineering Development	132,690
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Engineering Development	96
	SCIENTIFIC MGT ASSOCIATES	Maryland	NAVY	RDTE/Aircraft-Engineering Development	575
	STG ELECTROSYSTEMS INC	Missouri	ARMY	RDTE/Aircraft-Engineering Development	41
	TELEDYNE INDUSTRIES INC	California	USAF	RDTE/Aircraft-Engineering Development	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	

AC14 (CONTINUED)

CONTRACTOR TOTAL					\$	420
UNITED TECHNOLOGIES CORP		Ohio	USAF	RDTE/Aircraft-Engineering Development		461
		Conn	NAVY	RDTE/Aircraft-Engineering Development		5,844
			USAF	RDTE/Aircraft-Engineering Development		200
COUNTRY TOTAL						6,044
		Florida	NAVY	RDTE/Aircraft-Engineering Development		2,082
			USAF	RDTE/Aircraft-Engineering Development		26,534
COUNTRY TOTAL						28,616
CONTRACTOR TOTAL						34,660
UNIVERSITY OF DAYTON		Ohio	USAF	RDTE/Aircraft-Engineering Development		683
VEDA INCORPORATED		Virginia	NAVY	RDTE/Aircraft-Engineering Development		98
VITRO CORPORATION		Maryland	NAVY	RDTE/Aircraft-Engineering Development		154
WESTINGHOUSE ELECTRIC CORP		Maryland	USAF	RDTE/Aircraft-Engineering Development		452
WILLIAMS INTERNATIONAL CORP		Michigan	USAF	RDTE/Aircraft-Engineering Development		321
R&D TOTAL						3,024,998
AC15 ALLIED SIGNAL AEROSPACE CO		Indiana	USAF	RDTE/Aircraft-Operational Systems Developm		829
APPLICATIONS RESEARCH CORP		Penn	NAVY	RDTE/Aircraft-Operational Systems Developm		42
ASTRONAUTICS CORP AMERICA		Wisconsin	NAVY	RDTE/Aircraft-Operational Systems Developm		195
BELL HELICOPTER TEXTRON INC		Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		3,708
BOEING COMPANY THE		Kansas	USAF	RDTE/Aircraft-Operational Systems Developm		20,072
		Penn	ARMY	RDTE/Aircraft-Operational Systems Developm		242
		Washington	NAVY	RDTE/Aircraft-Operational Systems Developm		2,150
CONTRACTOR TOTAL						22,464
CALSPAN CORPORATION		Ohio	USAF	RDTE/Aircraft-Operational Systems Developm		265

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	

AC15 (CONTINUED)

ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Aircraft-Operational	Systems Developm	\$ 1,000
	Texas	USAF	RDTE/Aircraft-Operational	Systems Developm	864
CONTRACTOR TOTAL					1,864
FLIGHT REFUELING LTD	UNITED KIN	ARMY	RDTE/Aircraft-Operational	Systems Developm	1,466
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Operational	Systems Developm	995
GENERAL ELECTRIC CO	Ohio	USAF	RDTE/Aircraft-Operational	Systems Developm	1,136
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Operational	Systems Developm	39
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Operational	Systems Developm	290
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Operational	Systems Developm	123
INTERNTAL TCHNAL ASSOCIATES	California	NAVY	RDTE/Aircraft-Operational	Systems Developm	53
KARTA TECHNOLOGY INC	Texas	ARMY	RDTE/Aircraft-Operational	Systems Developm	216
LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Operational	Systems Developm	56-
LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Aircraft-Operational	Systems Developm	3,710
MATERIALS ANALYSIS INC	Texas	ARMY	RDTE/Aircraft-Operational	Systems Developm	99
MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Aircraft-Operational	Systems Developm	23,503
MC FADDEN SYSTEMS INC	California	NAVY	RDTE/Aircraft-Operational	Systems Developm	32
NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Operational	Systems Developm	1,950
ORLANDO HELICOPTER AIRWAYS	Florida	ARMY	RDTE/Aircraft-Operational	Systems Developm	53
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Operational	Systems Developm	111-
	USAF	RDTE/Aircraft-Operational	Systems Developm	256,833	
COUNTRY TOTAL					256,722
STRATEGIC RESEARCH & MGT SVS	Ohio	USAF	RDTE/Aircraft-Operational	Systems Developm	179
	Virginia	USAF	RDTE/Aircraft-Operational	Systems Developm	98

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC15 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	SYSTEM DEVELOPMENT CORPORATION	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm	277
	SYSTEMS & SIMULATIONS INC	Florida	NAVY	RDTE/Aircraft-Operational Systems Developm	166
	ULTRAMET	California	NAVY	RDTE/Aircraft-Operational Systems Developm	6,504
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm	247
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Operational Systems Developm	1,951
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Operational Systems Developm	24,100
	R&D TOTAL				25
	AC16 A P A OPTICS INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	352,968
	A T S S INC	California	USAF	RDTE/Aircraft-Management & Support	166
	AEROSTRUCTURES INC	Virginia	NAVY	RDTE/Aircraft-Management & Support	50
	AIS SYS INC	New York	USAF	RDTE/Aircraft-Management & Support	175
	ANALYTIC ENGINEERING CO	Nebraska	USAF	RDTE/Aircraft-Management & Support	50
	ANALYTICAL METHODS INC	Washington	USAF	RDTE/Aircraft-Management & Support	50
	ANAMET LABORATORIES INC	California	USAF	RDTE/Aircraft-Management & Support	108
	ARNCO	Tennessee	USAF	RDTE/Aircraft-Management & Support	49
	BELL HELICOPTER TEXTRON INC	Texas	NAVY	RDTE/Aircraft-Management & Support	200
	BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Aircraft-Management & Support	975
	BOEING COMPANY THE	Kansas	NAVY USAF	RDTE/Aircraft-Management & Support RDTE/Aircraft-Management & Support	400
					310
					188
		COUNTRY TOTAL			498
	BREWER SCIENCE INC	Missouri	USAF	RDTE/Aircraft-Management & Support	173
	BROWN JOHN ASSOCIATES INC	New Jersey	USAF	RDTE/Aircraft-Management & Support	105

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC16 (CONTINUED)				
CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Management & Support	\$ 514
COMPUTER ASSOCIATES INTL	Virginia	ARMY	RDTE/Aircraft-Management & Support	97
CSA ENGINEERING INC	California	USAF	RDTE/Aircraft-Management & Support	150
DISPLAYTECH INC	Colorado	USAF	RDTE/Aircraft-Management & Support	400
DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Aircraft-Management & Support	275
EATON CORPORATION	New York	USAF	RDTE/Aircraft-Management & Support	7,850
ELECTRONIC WARFARE ASSOCIATES	Ohio	USAF	RDTE/Aircraft-Management & Support	47
FLOWDRILL CORP	Washington	USAF	RDTE/Aircraft-Management & Support	400
FOSTER MILLER INC	Mass	USAF	RDTE/Aircraft-Management & Support	77
GENERAL TECHNOLOGY CORP	Penn	USAF	RDTE/Aircraft-Management & Support	50
HITEC PRODUCTS INC	Mass	USAF	RDTE/Aircraft-Management & Support	49
HONEYWELL INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	39
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Aircraft-Management & Support	15,494
HUNB MICHAEL INC	Michigan	USAF	RDTE/Aircraft-Management & Support	50
JORDAN & ASSOCIATES	Tennessee	USAF	RDTE/Aircraft-Management & Support	497
LASER TECHNOLOGIES INC	Michigan	USAF	RDTE/Aircraft-Management & Support	126
LOCKHEED CORPORATION	Georgia	USAF	RDTE/Aircraft-Management & Support	200
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Aircraft-Management & Support	52
MATERIALS INNOVATION LABS	California	USAF	RDTE/Aircraft-Management & Support	111
MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Aircraft-Management & Support	200
	Missouri	NAVY	RDTE/Aircraft-Management & Support	164
CONTRACTOR TOTAL				364
MEASUREMENT TECHNOLOGY NW	Washington	USAF	RDTE/Aircraft-Management & Support	97

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC16 (CONTINUED)					
	METRON CORPORATION	Penn	NAVY	RDTE/Aircraft-Management & Support	\$ 150
	MSNW INC	California	USAF	RDTE/Aircraft-Management & Support	200
	METROLOGIC INC	California	NAVY	RDTE/Aircraft-Management & Support	51
	OPCOA INC	California	USAF	RDTE/Aircraft-Management & Support	142
	P D A ENGINEERING	California	USAF	RDTE/Aircraft-Management & Support	148
	PHYSICAL RESEARCH INC	California	USAF	RDTE/Aircraft-Management & Support	176
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Aircraft-Management & Support	50
	RAMSEARCH CO	Maryland	USAF	RDTE/Aircraft-Management & Support	350
	S LEVY INCORPORATED	California	USAF	RDTE/Aircraft-Management & Support	50
	SPACE POWER INCORPORATED	California	USAF	RDTE/Aircraft-Management & Support	169
	SPARTA INC	California	USAF	RDTE/Aircraft-Management & Support	58
	SPIRE CORPORATION	Mass	USAF	RDTE/Aircraft-Management & Support	50
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Aircraft-Management & Support	62
	STRESS TECH INC	New York	USAF	RDTE/Aircraft-Management & Support	47
	STRUCTURAL INTEGRITY ASSOC INC	California	USAF	RDTE/Aircraft-Management & Support	48
	SUPPORT SERVICES INC	Washington	USAF	RDTE/Aircraft-Management & Support	103
	SVERDRUP TECHNOLOGY INC	Tennessee	NAVY	RDTE/Aircraft-Management & Support	167
	TERRA TEK INC	Utah	USAF	RDTE/Aircraft-Management & Support	200
	TRIBOLOGY CONSULTANTS	Penn	USAF	RDTE/Aircraft-Management & Support	139
	VATELL CORPORATION	Virginia	USAF	RDTE/Aircraft-Management & Support	55
	ZYW CORP	New Jersey	USAF	RDTE/Aircraft-Management & Support	50
	R&D TOTAL				32,403
AC21	A A I CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea	3,169

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	AMERASIA TECHNOLOGY INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	247
	ARDAK CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	199
	ATLANTIC AEROSPACE ELECTRONICS	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	129
	AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	9,250
	BOEING COMPANY THE	Washington	NAVY	RDTE/Missile and Space Systems-Basic Resea	5,397
	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	80
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Missile and Space Systems-Basic Resea	44
	CHAMBERLAIN MANUFACTURING CORP	Maine	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,250
	ENFITEK INC	Texas	NAVY	RDTE/Missile and Space Systems-Basic Resea	248
	FERRANTI INSTRUMENTATION LTD	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,000
	FORWARD UNLIMITED	California	USAF	RDTE/Missile and Space Systems-Basic Resea	60
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,581
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	732
		USAF	RDTE/Missile and Space Systems-Basic Resea	1,500	
	COUNTRY TOTAL				2,232
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	525
		Penn	ARMY	RDTE/Missile and Space Systems-Basic Resea	400
		USAF	RDTE/Missile and Space Systems-Basic Resea	149	
	COUNTRY TOTAL				549
		Vermont	ARMY	RDTE/Missile and Space Systems-Basic Resea	2,750
		USAF	RDTE/Missile and Space Systems-Basic Resea	95	
	COUNTRY TOTAL				2,845
	CONTRACTOR TOTAL				3,919
	H R TEXTRON INC	Virginia	NAVY	RDTE/Missile and Space Systems-Basic Resea	250

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC21 (CONTINUED)					
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	\$ 1,000
	HERCULES INCORPORATED	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	4,300
	HILTON SYSTEMS INC	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	692
	HONEYWELL INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea	2,027
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Missile and Space Systems-Basic Resea	700
		USAF	RDTE/Missile and Space Systems-Basic Resea	1,243	
		COUNTRY TOTAL			1,943
	INTERSCIENCE INC	New York	ARMY	RDTE/Missile and Space Systems-Basic Resea	206
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,390
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,250
		USAF	RDTE/Missile and Space Systems-Basic Resea	237	
		COUNTRY TOTAL			1,487
	LEADING SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	2,200
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Basic Resea	195
	LOCKHEED SPACE OPRTONS COMPANY	Florida	USAF	RDTE/Missile and Space Systems-Basic Resea	1,496
	LORAL CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea	1,100
	LOUGHBOROUGH UNIV OF TECH	UNITED KIN	NAVY	RDTE/Missile and Space Systems-Basic Resea	98
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	820
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,498
		Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	61
		Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	6,534
		NAVY	RDTE/Missile and Space Systems-Basic Resea	536	
		COUNTRY TOTAL			7,070
	CONTRACTOR TOTAL				8,629

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC21 (CONTINUED)					
	MASSACHSETTS INST OF TECHNOLOGY	Mass	NAVY USAF	RDTE/Missile and Space Systems-Basic Resea RDTE/Missile and Space Systems-Basic Resea	\$ 165 84
		COUNTRY TOTAL			249
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,695
	NORTH EAST RESEARCH ASSOC	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	400
	OPTIMETRICS INC	Michigan	USAF	RDTE/Missile and Space Systems-Basic Resea	80
	REXHAM CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	337
	ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Missile and Space Systems-Basic Resea RDTE/Missile and Space Systems-Basic Resea	295 70,712
		COUNTRY TOTAL			71,007
	SC & A INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	164
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,831
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Missile and Space Systems-Basic Resea	98
	SRS TECHNOLOGIES	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	48
	STANFORD LELAND JUNIOR UNIV	California	ARMY	RDTE/Missile and Space Systems-Basic Resea	95
	STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Missile and Space Systems-Basic Resea	150
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	2,736
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	20,000
	TEXAS INSTRUMENTS INCORPORATED	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	217
		Texas	ARMY NAVY	RDTE/Missile and Space Systems-Basic Resea RDTE/Missile and Space Systems-Basic Resea	11,734 5,223
		COUNTRY TOTAL			16,957
	CONTRACTOR TOTAL				17,174
	THIokol CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Basic Resea	3,596
	U B C INC	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	274

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Basic Resea	577
	UNIVERSITY OF DAYTON	California	USAF	RDTE/Missile and Space Systems-Basic Resea	883
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Missile and Space Systems-Basic Resea	108
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	4,043
			NAVY	RDTE/Missile and Space Systems-Basic Resea	500
			USAF	RDTE/Missile and Space Systems-Basic Resea	100
		COUNTRY TOTAL			4,643
	UNIVERSITY OF VIRGINIA	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	209
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	VIRGINIA PLTYCHNIC INST/ST UNI	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	318
R&D TOTAL					183,360
AC22	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Exploratory	746
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	486
	AEROJET	California	USAF	RDTE/Missile and Space Systems-Exploratory	1,370
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	275
	AMERICAN SCIENCE & ENGINEERING	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	486
	ANATECH RESEARCH CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	80
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Exploratory	50
	ATLANTIC RESEARCH CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	150
		Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	429
	CONTRACTOR TOTAL				579
	AVCO CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	163
	BEECH AIRCRAFT CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	100
	BOEING COMPANY THE	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	1,565

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC22 (CONTINUED)					
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Exploratory	\$ 248
	CALIFORNIA ST UNIV SAN DIEGO	California	USAF	RDTE/Missile and Space Systems-Exploratory	67
	COMPUTER SCIENCES CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	1,437
	DECILOG INC	New York	ARMY	RDTE/Missile and Space Systems-Exploratory	56
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	EON INSTRUMENTATION INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	572
	FIBER MATERIALS INC	Maine	USAF	RDTE/Missile and Space Systems-Exploratory	29
	FORD AEROSPACE COMMCTIONS CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	633
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	768
	GENERAL DYNAMICS CORPORATION	California	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	871 201
		COUNTRY TOTAL			1,072
	GENERAL ELECTRIC CO	Penn	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	2,900 82
		COUNTRY TOTAL			2,982
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory	33-
	GRUMMAN CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	600
	GULF CREW TRANSPORT INC	Florida	NAVY	RDTE/Missile and Space Systems-Exploratory	40
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	228
	HERCULES INCORPORATED	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	948
		Utah	USAF	RDTE/Missile and Space Systems-Exploratory	1,106
		W Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	1,050
	CONTRACTOR TOTAL				3,104
	HERSH ACOUSTICAL ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Exploratory	217

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Missile and Space Systems-Exploratory	22,158
	IMPACT TECHNOLOGIES INC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	53
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Exploratory	200
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	500
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	1,046
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	2,339
	LORAL FAIRCHILD SYSTEMS INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory	285
	LOUISIANA STATE UNIVERSITY	Louisiana	USAF	RDTE/Missile and Space Systems-Exploratory	66
	LTV AEROSPACE & DEF CO	Texas	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	1,897 2,000
		COUNTRY TOTAL			3,897
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	143
		Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	45
	CONTRACTOR TOTAL				188
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	129
		Missouri	USAF	RDTE/Missile and Space Systems-Exploratory	141
	CONTRACTOR TOTAL				270
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	354
	NORTH CAROLINA A & T UNIV	N Carolina	USAF	RDTE/Missile and Space Systems-Exploratory	95
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	195
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	65
	PENNSYLVANIA STATE UNIV THE	Penn	USAF	RDTE/Missile and Space Systems-Exploratory	27
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Missile and Space Systems-Exploratory	60

AC22 (CONTINUED)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC22 (CONTINUED)					
	RAMCOR INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	\$ 491
	RAYTHEON COMPANY	Mass	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	2,863 450
		COUNTRY TOTAL			3,313
	ROCKET RESEARCH CO	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	438
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	7,974
		Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory	359
					8,333
	CONTRACTOR TOTAL				126
	SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	149
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	79
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Missile and Space Systems-Exploratory	128
	SOFTWARE & ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Exploratory	291
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	307
	SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Exploratory	130
	SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Exploratory	116
	STRESAU R LABORATORY INC	Wisconsin	NAVY	RDTE/Missile and Space Systems-Exploratory	48
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Exploratory	268
	TEXTRON INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory	118 80
	THIokol CORPORATION	Alabama	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	198
		COUNTRY TOTAL			523
		Utah	USAF	RDTE/Missile and Space Systems-Exploratory	721
	CONTRACTOR TOTAL				464
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC22 (CONTINUED)					
	ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Exploratory	125
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	1,232
		Conn	USAF	RDTE/Missile and Space Systems-Exploratory	123
		Florida	USAF	RDTE/Missile and Space Systems-Exploratory	1,149
	CONTRACTOR TOTAL				2,504
	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Missile and Space Systems-Exploratory	39
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Missile and Space Systems-Exploratory	33
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Exploratory	507
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory	42
	UNIVERSITY OF HAWAII	Hawaii	USAF	RDTE/Missile and Space Systems-Exploratory	99
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory	28
	UNIVERSITY OF OREGON	Oregon	USAF	RDTE/Missile and Space Systems-Exploratory	63
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Missile and Space Systems-Exploratory	30
	UNIVERSITY OF UTAH	Utah	USAF	RDTE/Missile and Space Systems-Exploratory	50
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	110
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	558
	WICKMAN SPOCRAFT PRPULSION CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	163
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Missile and Space Systems-Exploratory	489
	R&D TOTAL				70,010
	AC23 A P A OPTICS INC	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	55
		Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	CONTRACTOR TOTAL				105
	A T & T TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	596

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	A T S INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 159
	ABTECH CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	56
	ACTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De	310
	ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	9,628
	ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	334
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,582
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	38
	ADVANCED MATERIAL SYS INC	Louisiana	USAF	RDTE/Missile and Space Systems-Advanced De	50
	ADVANCED REFR TECHNOLOGIES	New York	NAVY	RDTE/Missile and Space Systems-Advanced De	146
	ADVANCED RES & APPLICATIONS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	198
	ADVANCED SCIENCES INC	New Mexico	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	749 501
		COUNTRY TOTAL			1,250
	ADVANCED TECHNOLOGY MTLs DEL	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	67
		Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	68
	CONTRACTOR TOTAL				135
	AEROJET	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	1,199 2,316
		COUNTRY TOTAL			3,515
	AEROJET ELECTRO SYSTEMS	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	10,256 265 -
		COUNTRY TOTAL			9,991
	AEROJET TECHSYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,480
	AIR TURBINE TECHNOLOGY INC	Florida	NAVY	RDTE/Missile and Space Systems-Advanced De	100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 7,915
	CONTRACTOR TOTAL				
	ALLIED SIGNAL INC	Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De	3,889
	ALPHATECH INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	11,804
	ALUMINUM COMPANY OF AMERICA	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	17,074
	AMERASIA TECHNOLOGY INC	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	589
	AMHERST SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	745
	AMORPHOUS METALS TECHN INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	254
	ANALOG DEVICES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	55
	ANALYTIC POWER CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	ANALYTIC SCIENCES CORP THE	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	1,549
	ANDROMEDA CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	60
	ANRO ENGINEERING CONSULTANTS	Alabama	USAF	RDTE/Missile and Space Systems-Advanced De	380
	ANTECH SERVICES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	74
	APPLICATION CONFIGURED COMPUTE	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	152
	APPLIED RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	85
	APPLIED SCIENCES INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	APTEK INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,691
	ASTRO INNOVATIONS INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	65
	ASTRONAUTICS CORP AMERICA	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	2,594
	ASTROSYSTEMS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	163
	ATLANTIC RESEARCH CORPORATION	Wisconsin	USAF	RDTE/Missile and Space Systems-Advanced De	700
		Delaware	ARMY	RDTE/Missile and Space Systems-Advanced De	160
		New York	ARMY	RDTE/Missile and Space Systems-Advanced De	146

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					

CONTRACTOR TOTAL					\$	1,075
ATM COMPUTER GMBH		Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		1,221
AUSTIN RESEARCH ASSOCIATES		GERMANY, F	ARMY	RDTE/Missile and Space Systems-Advanced De		3,652
AUTOMATED SCIENCES GROUP INC		Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		80
		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		5,470
		Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		296
CONTRACTOR TOTAL						5,766
AUTONOMOUS TECHNOLOGIES CORP		Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		61
AVCO CORPORATION		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		532
			USAF	RDTE/Missile and Space Systems-Advanced De		3,625
COUNTRY TOTAL						4,157
AVCO RESEARCH LABORATORY INC		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		6,783
BABCOCK & WILCOX COMPANY THE		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		356
BALL CORPORATION		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		2,429
BARNES ENGINEERING COMPANY		Conn	USAF	RDTE/Missile and Space Systems-Advanced De		301
BATTELLE MEMORIAL INSTITUTE		Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De		1,878
BDM INTERNATIONAL INC		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		25,572
		New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De		355
CONTRACTOR TOTAL						25,927
BEECH AIRCRAFT CORPORATION		Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		1,153
BELTRAN ASSOCIATES INC		New York	USAF	RDTE/Missile and Space Systems-Advanced De		49
BOEING COMPANY THE		Kansas	USAF	RDTE/Missile and Space Systems-Advanced De		2,410-
		Washington	ARMY	RDTE/Missile and Space Systems-Advanced De		129,392

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

CONTRACTOR TOTAL		USAF	RDTE/Missile and Space Systems-Advanced De	\$
BOOZ ALLEN & HAMILTON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,380
	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	96
CONTRACTOR TOTAL				1,476
BREWER SCIENCE INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	50
BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	216
BRITISH AEROSPACE NAVAL ELECTR	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	49
BRUNSWICK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	634
BUSINESS TECHNOLOGICAL SYSTEMS	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	401
CALSPAN CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Advanced De	346
CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	188
CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	32
CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	86
COLEMAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	7,073
COLORADO SUPERCONDUCTOR INC	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	49
COLSA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	8,525
	California	ARMY	RDTE/Missile and Space Systems-Advanced De	11,254
CONTRACTOR TOTAL				19,779
CONCEPT ANALYSIS CORPORATION	Michigan	USAF	RDTE/Missile and Space Systems-Advanced De	55
CORIUM INDUSTRIES	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De	50
CORY LABS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					

COSYDE GIE	FRANCE	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	1,302
CREARE RESEARCH & DEVELOPMENT	N H.	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		159 120
CSA ENGINEERING INC	COUNTRY TOTAL				279
CTK ENTERPRISES	California	USAF	RDTE/Missile and Space Systems-Advanced De		47
DEACON RESEARCH	California	USAF	RDTE/Missile and Space Systems-Advanced De		50
DEFENSE RESEARCH TECHNOLOGIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De		53
DELTA RESEARCH INC	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		165
DRAPER CHARLES STARK LAB INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		849
	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		9,970 33,977
DUKE UNIVERSITY	COUNTRY TOTAL				43,947
DUNLOP AVIATION INC	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		300
DYNETICS INC	UNITED KIN	USAF	RDTE/Missile and Space Systems-Advanced De		180
E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		4,439
E I C LABORATORY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		500
	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		106 29
E TEK DYNAMICS INC	COUNTRY TOTAL				135
	California	ARMY	RDTE/Missile and Space Systems-Advanced De		75
	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		125
EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Missile and Space Systems-Advanced De		200
EHRENPREIS DAVID B	New Jersey	NAVY	RDTE/Missile and Space Systems-Advanced De		596
					256

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	ELECTRIC PROPULSION LABORATORY	California	USAF	RDTE/Missile and Space Systems-Advanced De	97
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	211
	ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	861
			USAF	RDTE/Missile and Space Systems-Advanced De	350
		COUNTRY TOTAL			1,211
	ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De	259
	EMEC CONSULTANTS	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	50
	ENERGY COMPRESSION RES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	297
	ENGINEERING & ECONOMICS RES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	350
	EPION CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	47
	FAIL-SAFE TECHNOLOGY CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	300
	FIBER IMAGING TECH INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	54
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De	560
	FIBERTEK INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	61
	FORD AEROSPACE COMMCTIONS CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De	576
			USAF	RDTE/Missile and Space Systems-Advanced De	68
		COUNTRY TOTAL			644
	CONTRACTOR TOTAL	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	500
	FOSTER MILLER INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	1,144
			USAF	RDTE/Missile and Space Systems-Advanced De	63
		COUNTRY TOTAL			302
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Advanced De	365
					793

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					

G T DEVICES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	1,000
G T E LABORATORIES INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		443
GEMINI COMPUTERS INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De		80
GEN PURPOSE MACH LAB	California	ARMY	RDTE/Missile and Space Systems-Advanced De		49
GENCORP INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		100
	USAF	RDTE/Missile and Space Systems-Advanced De		15,293	
	COUNTRY TOTAL				15,393
GENERAL ATOMICS	California	USAF	RDTE/Missile and Space Systems-Advanced De		655
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		418
	USAF	RDTE/Missile and Space Systems-Advanced De		681	
	COUNTRY TOTAL				1,099
CONTRACTOR TOTAL	Texas	USAF	RDTE/Missile and Space Systems-Advanced De		644
GENERAL ELECTRIC CO	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		1,743
	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		2,702
	COUNTRY TOTAL				7,019
CONTRACTOR TOTAL	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		9,721
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		11,507
	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		373
	COUNTRY TOTAL				1,215
CONTRACTOR TOTAL	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De		13,095
GEORGIA TECH RESEARCH INST	USAF	RDTE/Missile and Space Systems-Advanced De		6,271	
	COUNTRY TOTAL				130
GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		6,401
	COUNTRY TOTAL				12,521

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AC23 (CONTINUED)					

H M TECHNOLOGIES INC
HARRIS CORPORATION
HONEYWELL INC

Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	\$	424
Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		707
Florida	USAF	RDTE/Missile and Space Systems-Advanced De		8,480
Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		81
Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		3,062
	USAF	RDTE/Missile and Space Systems-Advanced De		225
COUNTRY TOTAL				3,287

CONTRACTOR TOTAL
HUGHES AIRCRAFT COMPANY

Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		11,848
Arizona	USAF	RDTE/Missile and Space Systems-Advanced De		1,960
California	ARMY	RDTE/Missile and Space Systems-Advanced De		92-
	USAF	RDTE/Missile and Space Systems-Advanced De		7,068
COUNTRY TOTAL				12,044

CONTRACTOR TOTAL

I A P RESEARCH INC
I I T RESEARCH INSTITUTE
IMATRON INC
IMPACT TECHNOLOGIES INC
INTEGRATED ACCELERATOR TECH
INTEGRATED SYSTEMS INC
INTERMAGNETICS GENERAL CORP
INTERNATIONAL BUS MCHS CORP

Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		20,980
Illinois	USAF	RDTE/Missile and Space Systems-Advanced De		879
California	USAF	RDTE/Missile and Space Systems-Advanced De		425
Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		56
Florida	USAF	RDTE/Missile and Space Systems-Advanced De		53
California	USAF	RDTE/Missile and Space Systems-Advanced De		45
Conn	USAF	RDTE/Missile and Space Systems-Advanced De		70
New York	ARMY	RDTE/Missile and Space Systems-Advanced De		44
Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		784
COUNTRY TOTAL				1,672

CONTRACTOR TOTAL

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	INTERNATIONAL FUEL CELLS CORP	Conn	USAF	RDTE/Missile and Space Systems-Advanced De	1,000
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	1,741
	INTERSIL INC	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	2,996
	IONIC ATLANTA INCORPORATED	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	300
	IOWA LASER TECHNOLOGY INC	Iowa	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	IRVINE SENSORS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	300
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	363
	CONTRACTOR TOTAL				663
	JAYCOR	California	ARMY	RDTE/Missile and Space Systems-Advanced De	200
		USAF		RDTE/Missile and Space Systems-Advanced De	49
	COUNTRY TOTAL				249
	JUDITH DAYHOFF & ASSOC INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	KAISER AEROSPACE & ELEC CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	220
	KAMAN SCIENCES CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	391
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	7,758
		USAF		RDTE/Missile and Space Systems-Advanced De	663
	COUNTRY TOTAL				8,421
	CONTRACTOR TOTAL				8,812
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	2,275
	LASER SCIENCE INC	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	1,365
	LINEAR MONOLITHICS INCORPORAT	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	6,705
	LITTON INDUSTRIES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	LITTON SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	543
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	240

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-
AC23 (CONTINUED)				

CONTRACTOR TOTAL

LOCKHEED MISSILES & SPACE CO

Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	783
California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		960
COUNTRY TOTAL				179,692 4,989
				184,681
				185,641

CONTRACTOR TOTAL

LORAL FAIRCHILD SYSTEMS INC

LTV AEROSPACE & DEF CO

Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		375
Arkansas	ARMY	RDTE/Missile and Space Systems-Advanced De		35-
Texas	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		56,388 161
COUNTRY TOTAL				56,549
				56,514

CONTRACTOR TOTAL

MAINSTREAM ENGINEERING CO INC

MARTIN MARIETTA CORPORATION

Florida	USAF	RDTE/Missile and Space Systems-Advanced De		50
Colorado	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		1,409 9,625
COUNTRY TOTAL				11,034
				126

CONTRACTOR TOTAL

MATERIALS TECHNOLOGIES CORP

MAXWELL LABORATORIES INC

MAYO FOUNDATION

MC DONNELL DOUGLAS CORPORATION

Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		11,160
Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		110
California	USAF	RDTE/Missile and Space Systems-Advanced De		473
Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De		1,154
Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		8,833
California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		101,691 8,466
COUNTRY TOTAL				110,157

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

	Missouri	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	\$	951 2,086
CONTRACTOR TOTAL					3,037
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		122,027
MESILLA VLY HGH TECH	Penn	NAVY	RDTE/Missile and Space Systems-Advanced De		50
MICROCOM CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		477
MICROCOSM	California	ARMY	RDTE/Missile and Space Systems-Advanced De		702
MICROWAVE TECHNOLOGY INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		42
MISSION RESEARCH CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		263
	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De		81
CONTRACTOR TOTAL					640
	Miss	NAVY	RDTE/Missile and Space Systems-Advanced De		984
MISSISSIPPI STATE UNIVERSITY	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		100
MOLTECH CORP	Arizona	NAVY	RDTE/Missile and Space Systems-Advanced De		51
MOTOROLA INC	Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De		121,564
CONTRACTOR TOTAL					468
	California	NAVY	RDTE/Missile and Space Systems-Advanced De		122,032
NATIONAL STL SHPBLDING CMPTNY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		231
NATIVE AMERICAN SERVICE ASSN	California	ARMY	RDTE/Missile and Space Systems-Advanced De		319
NETROLOGIC INC	Alabama	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		49
NICHOLS RESEARCH CORPORATION					22,243 842
CONTRACTOR TOTAL					23,085
	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De		532
					23,617

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	300
	NUCLEAR METALS INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	247
	OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	250
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	2,230
	ORTEL CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	P D A ENGINEERING	California	ARMY	RDTE/Missile and Space Systems-Advanced De	54
			USAF	RDTE/Missile and Space Systems-Advanced De	154
	COUNTRY TOTAL				208
	PATEL ENTERPRISES INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,647
	PERKIN ELMER CORPORATION	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	518
			USAF	RDTE/Missile and Space Systems-Advanced De	343
	COUNTRY TOTAL				861
	PHASE IV SYSTEMS INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	446
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	254
	PHYSICON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	QUANSCAN INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	52
	QUANTUM TECHNOLOGY INC	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	R & D ASSOCIATES	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	340
			USAF	RDTE/Missile and Space Systems-Advanced De	150
	COUNTRY TOTAL				490
	RADIAN CORPORATION	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	100
	RADIATION SCIENCE INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De	55
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	39
	CONTRACTOR TOTAL				94

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AC23 (CONTINUED)					
	RAYMOND ENGINEERING INC	Conn	NAVY	RDTE/Missile and Space Systems-Advanced De	\$ 789
	RAYTHEON COMPANY	California	USAF	RDTE/Missile and Space Systems-Advanced De	589-
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	70,902
			NAVY	RDTE/Missile and Space Systems-Advanced De	240
			USAF	RDTE/Missile and Space Systems-Advanced De	738
		COUNTRY TOTAL			71,880
					71,291
	CONTRACTOR TOTAL				
	RDR INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Missile and Space Systems-Advanced De	132
	REXHAM CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	400
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De	16,220
			USAF	RDTE/Missile and Space Systems-Advanced De	57,901
		COUNTRY TOTAL			74,121
		Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	720
	CONTRACTOR TOTAL				74,841
	RYAN ASSOCIATES	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	237
	S SYSTEMS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	5,378
	SACH SINHA & ASSOCIATES	California	NAVY	RDTE/Missile and Space Systems-Advanced De	250
	SANDIA RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	58
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	261
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	53
	SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Missile and Space Systems-Advanced De	101
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,259
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	679
		Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	200

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AC23 (CONTINUED)

	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De	\$	715
	New Mexico	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		125 98
	COUNTRY TOTAL				223
	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		291
	COUNTRY TOTAL				3,367
CONTRACTOR TOTAL					728
SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		63
SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		142
SDRC SOFTWARE PDTS MKTG DIV	Ohio	NAVY	RDTE/Missile and Space Systems-Advanced De		164
SIERRA MONOLITHICS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		30
SOCIETE EUROPEENE DE PROP (SEP	FRANCE	ARMY	RDTE/Missile and Space Systems-Advanced De		525
SOFTWARE & ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Advanced De		123
SOUTHERN RESEARCH INSTITUTE	Alabama	USAF	RDTE/Missile and Space Systems-Advanced De		1,325
SPACE DATA CORPORATION	Arizona	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		15,135
	COUNTRY TOTAL				16,460
SPACE TECH CORP	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		173
SPARTA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		5,025
	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		2,860 6,459
	COUNTRY TOTAL				9,319
CONTRACTOR TOTAL					14,344
SPECTRAL SCIENCES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		84
SPECTRAMED INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		85

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

SPIRE CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	765
		USAF	RDTE/Missile and Space Systems-Advanced De		670
	COUNTRY TOTAL				1,435
SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		3,114
	California	USAF	RDTE/Missile and Space Systems-Advanced De		160
					3,274
SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,104
SUNOL SCIENCES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De		48
SUPERCON INCORPORATED	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		100
SUPERCONDUCTOR TECHNOLOGIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De		118
SYSTEM DEVELOPMENT CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		905
SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		265
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		90
SYSTOLIC SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		156
TACAN CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
TADIRAN ELECTRONIC INDUSTRIES	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De		5,493
TALANDIC RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		57
TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		45-
TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,912
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		62,829
TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Missile and Space Systems-Advanced De		143
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		5,969
THERMO ELECTRON TECH CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De		316

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					

THIOL CORPORATION

Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	370
Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		74
	USAF	RDTE/Missile and Space Systems-Advanced De		4,073
COUNTRY TOTAL				4,147

CONTRACTOR TOTAL
COR APPLIED SCIENCES INC
TRW INC

Utah	USAF	RDTE/Missile and Space Systems-Advanced De		102
Texas	USAF	RDTE/Missile and Space Systems-Advanced De		4,619
Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		195
California	ARMY	RDTE/Missile and Space Systems-Advanced De		11,078
	USAF	RDTE/Missile and Space Systems-Advanced De		19,151
COUNTRY TOTAL				9,378
				28,529
				39,607

CONTRACTOR TOTAL
U S AUTOMATION COMPANY
UNISYS CORPORATION

Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De		49
Florida	USAF	RDTE/Missile and Space Systems-Advanced De		7,159
Minnesota	USAF	RDTE/Missile and Space Systems-Advanced De		847

CONTRACTOR TOTAL
UNITED INTERNATIONAL ENGRG

Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		8,006
New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De		500
				789
				1,289

CONTRACTOR TOTAL
UNITED SPACE BOOSTERS INC
UNITED TECHNOLOGIES CORP

Alabama	NAVY	RDTE/Missile and Space Systems-Advanced De		40
California	USAF	RDTE/Missile and Space Systems-Advanced De		281
Conn	USAF	RDTE/Missile and Space Systems-Advanced De		2,541
Florida	USAF	RDTE/Missile and Space Systems-Advanced De		6,243
				9,065

CONTRACTOR TOTAL

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 280
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,011
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	556
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	41
	UNIVERSITY OF IOWA THE	Iowa	NAVY	RDTE/Missile and Space Systems-Advanced De	91
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	350
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	150
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	300
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	1,195
			USAF	RDTE/Missile and Space Systems-Advanced De	400
		COUNTRY TOTAL			1,595
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	396
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De	86
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	680
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Missile and Space Systems-Advanced De	155
	WEST VIRGINIA UNIVERSITY	W Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	317
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	1,200
		Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	234
			USAF	RDTE/Missile and Space Systems-Advanced De	2,737
		COUNTRY TOTAL			2,971
	CONTRACTOR TOTAL				4,171
	XONTECH INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	2,064
			USAF	RDTE/Missile and Space Systems-Advanced De	2,801
		COUNTRY TOTAL			4,865

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AC23 (CONTINUED)					
	ZEXTRON INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 50
	ZTEK INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	71
	R&D TOTAL				1,479,333
AC24	ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	490
	AMPEX CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	50
	ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	1,512
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	1,049
	AVCO CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	4,821
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Missile and Space Systems-Engr Develo	161
	BELL HELICOPTER INTERNATIONAL	Texas	NAVY	RDTE/Missile and Space Systems-Engr Develo	716-
	BOEING COMPANY THE	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	80,306
		Kansas	USAF	RDTE/Missile and Space Systems-Engr Develo	6,019
		Washington	NAVY	RDTE/Missile and Space Systems-Engr Develo	550
			USAF	RDTE/Missile and Space Systems-Engr Develo	108,278
	COUNTRY TOTAL				108,828
	CONTRACTOR TOTAL				195,153
	BRIDGE COMMUNICATIONS INC	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	154
	CROSS SYSTEMS INC	Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo	3,407
	CTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Engr Develo	3,040
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	1,713
	DYNAMICS RESEARCH CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	1,174
	E E R SYSTEMS CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	854
	E G & G WASHINGTON ALALYTL SVC	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	792
	EARTH TECHNOLOGY CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	11,546

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AC24 (CONTINUED)					

EXPERT EASE SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	\$	50
FAIRCHILD INDUSTRIES INC	New York	USAF	RDTE/Missile and Space Systems-Engr Develo		238-
FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Engr Develo		3,960
FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo		52-
	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo		12,882
CONTRACTOR TOTAL					12,830
GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo		5,261
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo		28,149
		USAF	RDTE/Missile and Space Systems-Engr Develo		978
COUNTRY TOTAL					29,127
CONTRACTOR TOTAL	Conn	NAVY	RDTE/Missile and Space Systems-Engr Develo		265
GENERAL ELECTRIC CO	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo		29,392
	Penn	USAF	RDTE/Missile and Space Systems-Engr Develo		943
CONTRACTOR TOTAL					20,258
GEODYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo		21,201
GTE GOVERNMENT SYSTEMS CORP	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo		1,709
HERCULES INCORPORATED	Utah	NAVY	RDTE/Missile and Space Systems-Engr Develo		123
		USAF	RDTE/Missile and Space Systems-Engr Develo		205
COUNTRY TOTAL					16,737
HONEYWELL INC	Florida	USAF	RDTE/Missile and Space Systems-Engr Develo		16,942
	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo		1,694
	New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo		39,854
CONTRACTOR TOTAL					18,191
					59,739

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC24 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	Arizona	USAF	RDTE/Missile and Space Systems-Engr Develo	\$ 5,291
		California	NAVY	RDTE/Missile and Space Systems-Engr Develo	109,238
			USAF	RDTE/Missile and Space Systems-Engr Develo	372
	COUNTRY TOTAL				109,610
	CONTRACTOR TOTAL				114,901
	INSTRUMENTS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	34
	INTELLISYS INC	New York	USAF	RDTE/Missile and Space Systems-Engr Develo	41
	INTERSTATE ELECTRONICS CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	13,027
			USAF	RDTE/Missile and Space Systems-Engr Develo	597
	COUNTRY TOTAL				13,624
	KAMAN SCIENCES CORPORATION	Colorado	NAVY	RDTE/Missile and Space Systems-Engr Develo	480
		New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	498
	CONTRACTOR TOTAL				978
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	323
	LITTON SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	11,292
		Utah	USAF	RDTE/Missile and Space Systems-Engr Develo	4,725
	CONTRACTOR TOTAL				16,017
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	4,925
			USAF	RDTE/Missile and Space Systems-Engr Develo	986
	COUNTRY TOTAL				5,911
	LOGICON INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	8,080
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	28,179
	MAGNAVOX GOVT & INDSTR ELCTR	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	225
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	58,759
		Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	120

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC24 (CONTINUED)					
CONTRACTOR TOTAL					
	MARTIN MARIETTA DIEHL THORN JV	Florida	ARMY	RDTE/Missile and Space Systems-Engr Develo	\$ 58,879
	MATHEMATICAL ANALYSIS RESEARCH	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	31,530
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	215
		Missouri	NAVY	RDTE/Missile and Space Systems-Engr Develo	58
					7,217
					7,275
					1,269
					2,484
					48
					913
					68
					269
					23,363
					295,147
					231
					318,741
					1,902
					320,912
					37,373
					13,958
					51,331
					11,371
					3,036
					941

CONTRACTOR TOTAL

MARTIN MARIETTA DIEHL THORN JV
 MATHEMATICAL ANALYSIS RESEARCH
 MC DONNELL DOUGLAS CORPORATION

CONTRACTOR TOTAL

MISSION RESEARCH CORPORATION
 NORTHROP CORPORATION
 OPTRA INC
 PALISADES GEOPHYSICAL INST
 PROTECTIVE GROUP INC
 RAYTHEON COMPANY

CONTRACTOR TOTAL

ROCKWELL INTERNATIONAL CORP

CONTRACTOR TOTAL

ROYAL NORWEGIAN NAVAL MATERIAL
 SCIENCE APPLICATIONS INTL CORP

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC24 (CONTINUED)					

SIPPICAN INC					\$	3,977
SYNETICS CORPORATION						3,398
SYSCON CORPORATION						60
SYSTEMS & LOGISTICS CORP						100
SYSTEMS RES APPLICATIONS CORP						1,556
TECOLOTE RESEARCH INC						1,612
TEXAS INSTRUMENT M MARIETTA JV						622
TEXAS INSTRUMENTS INCORPORATED						82,350
CONTRACTOR TOTAL						285
THIOKOL CORPORATION						2,119
TITAN SYSTEMS INC						2,404
TRW INC						50
UNISYS CORPORATION						7,731
CONTRACTOR TOTAL						7,781
UNITED INTERNATIONAL ENGRG						421
UNITED TECHNOLOGIES CORP						209,151
VEDA INCORPORATED						262,354
CONTRACTOR TOTAL						1,425
UNITED INTERNATIONAL ENGRG						263,779
UNITED TECHNOLOGIES CORP						470
VEDA INCORPORATED						1,004-
CONTRACTOR TOTAL						91
UNITED INTERNATIONAL ENGRG						50
UNITED TECHNOLOGIES CORP						
VEDA INCORPORATED						

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC24 (CONTINUED)				
CONTRACTOR TOTAL				
VITRO CORPORATION	Maryland	USAF	RDTE/Missile and Space Systems-Engr Develo	141
WALTER DORWIN TEAGUE INC	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	3,342
WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	373
		USAF	RDTE/Missile and Space Systems-Engr Develo	31,544
				54,028
	COUNTRY TOTAL			85,572
WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Engr Develo	77-
ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	50
R&D TOTAL				1,716,855
AC25 ADVANCED SCIENCES INC	New Mexico	USAF	RDTE/Missile and Space Systems-Op Systems	59
AEROJET	California	USAF	RDTE/Missile and Space Systems-Op Systems	252
AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Op Systems	6,736
	Marshall I	ARMY	RDTE/Missile and Space Systems-Op Systems	270-
CONTRACTOR TOTAL				6,466
AMSTAR TECHNICAL PRODUCTS CO	Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	26
ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Missile and Space Systems-Op Systems	6,518
ATLANTIC RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems	3,235
	Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	258
CONTRACTOR TOTAL				3,493
BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Op Systems	3,888
CONTEL FEDERAL SYSTEMS INC	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	9,476
	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	11,659
CONTRACTOR TOTAL				21,135

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC25 (CONTINUED)					
	DATA GENERAL CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Op Systems	1,177
	ELECTRONIC WARFARE ASSOCIATES	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems	7,750
		Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	913
	CONTRACTOR TOTAL				8,663
	FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Op Systems	2,103
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Op Systems	196
	GENERAL ELECTRIC CO	Mass	NAVY	RDTE/Missile and Space Systems-Op Systems	6,770
		New Jersey	USAF	RDTE/Missile and Space Systems-Op Systems	28,198
		Penn	USAF	RDTE/Missile and Space Systems-Op Systems	251
	CONTRACTOR TOTAL				35,219
	GRASEBY IONICS LTD	UNITED KIN	NAVY	RDTE/Missile and Space Systems-Op Systems	36
	HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems	13,739
		Nebraska	USAF	RDTE/Missile and Space Systems-Op Systems	100
	CONTRACTOR TOTAL				13,839
	HERCULES INCORPORATED	Utah	USAF	RDTE/Missile and Space Systems-Op Systems	268
	HONEYWELL INC	Arizona	USAF	RDTE/Missile and Space Systems-Op Systems	462
	HUGHES AIRCRAFT COMPANY	California	NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	57,144 1,107
	COUNTRY TOTAL				58,251
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,936
	INTERSTATE ELECTRONICS CORP	California	NAVY	RDTE/Missile and Space Systems-Op Systems	2,571
	J W P INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,119
	CONTRACTOR TOTAL	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	947
					2,066

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC25 (CONTINUED)					
	KAMAN SCIENCES CORPORATION	Colorado	ARMY NAVY	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	\$ 190 4,785
		COUNTRY TOTAL			4,975
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	1,522,166
		Maryland	NAVY	RDTE/Missile and Space Systems-Op Systems	26,389
		GERMANY, F	ARMY	RDTE/Missile and Space Systems-Op Systems	31
		COUNTRY TOTAL			1,548,586
	CONTRACTOR TOTAL				25
	MC CREARY RESEARCH INC	Maryland	NAVY	RDTE/Missile and Space Systems-Op Systems	872
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	150-
	MICROCOSM	California	USAF	RDTE/Missile and Space Systems-Op Systems	63
	MICRODYNE CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems	50
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	34
	O A O CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	32
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Missile and Space Systems-Op Systems	4,847
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Op Systems	230
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems	175
		Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	405
	CONTRACTOR TOTAL				130
	SCIENCE APPLICATIONS INTL CORP	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems	500
	SPARTA INC	California	ARMY	RDTE/Missile and Space Systems-Op Systems	2,984
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems	1,957
	SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,909
	THIokol CORPORATION	Utah	NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	185
		COUNTRY TOTAL			2,094

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC25 (CONTINUED)					
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,449
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems	316
	VREULS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	431
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	5,166
	R&D TOTAL				1,743,390
AC26	A T S S INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	797
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	129
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	66
	AEROMET INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	41
	ALABAMA CRYOGENIC ENGINEERING	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	57
	ALTUS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	51
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	84
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	298
	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	APPLIED TECHNOLOGY ASSOCIATES	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	ARIAS RESEARCH ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	532
	ASTRON CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	67
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
		Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	155
	CONTRACTOR TOTAL				205
	ATM CORP	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	135
	AVCO CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	1,400
	B D SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	69

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	BELTRAN ASSOCIATES INC	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 280
	CIM SYSTEMS INC	Texas	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	COMPUTATIONAL MECHANICS CO	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	390
	CORDEC CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	189
	CREARE RESEARCH & DEVELOPMENT	N.H.	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	305
	DAMASKOS INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	237
	ELECTRO OTEK CORPORATION	N Carolina	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	61
	ELECTROCHIMICA CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	96
	ENERGY COMPRESSION RES CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	ENFITEK INC	Texas	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	655
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	277
	EXTREL CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	252
	FLOWDRILL CORP	Washington	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	346
	FLUID PHYSICS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	57
	FOSTER CONSULTING CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	301
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	419
	FOWLER MULLIN ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	58
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	1,300
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	425
	GENERAL SCIENCES INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	630
	GINER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	GREEN MOUNTAIN RADIO RES CO	Vermont	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 114
	HI TECH INC	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	33
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	117
	HUGHES AIRCRAFT COMPANY	Arizona	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	1,278
	HYBERSONICS CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	264
	IMAGING SCIENCE TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	INTERACTIVE INTELL IMAGERY GRP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	150
	KOR ELECTRONICS	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	69
	LASER FARE LTD INC	Rhode Isl	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	LASER POWER CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	54
	MARTIN MARIETTA CORPORATION	Florida	ARMY NAVY	RDTE/Missile and Space Systems-Mgmt & Supp RDTE/Missile and Space Systems-Mgmt & Supp	2,082 4,619
		COUNTRY TOTAL			6,701
	MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	MICROWAVE MONOLITHICS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	114
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	650
		New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	47
	CONTRACTOR TOTAL				697
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	59
	P D A ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	350
	PERCEPTICS CORPORATION	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	295
	PHASEX CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	70

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		\$
AC26 (CONTINUED)						
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		48
	PHYSICS MATHEMATICS COMPUTER	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		41
	QUANTEX CORPORATION	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		218
	QUANTIC INDUSTRIES INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		235
	REKENTHALER TECHNOLOGY ASSOC	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		206
	ROTARY POSITIVE MOTORS	Washington	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		47
	SACH SINHA & ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		65
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		245
	SEMCOR INC	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		49
	SIMONS JOHN C & ASSOC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		47
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		399
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		1,295
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		50
	SPIRE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		145
	SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		249
	SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		1,340
	TAYLOR DEVICES INC	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		276
	TECHNOLOGY & MGT SYSTEMS	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		149
	TECHNOLOGY APPLICATIONS GROUP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		48
	TECHNOLOGY DEVELOPMENT ASSOCS	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		47
	TOYON RESEARCH CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		336
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp		1,256
	TREADWELL CORPORATION	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		150

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AC26 (CONTINUED)					
	ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	WYLE LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	208
	XONTECH INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	309
	XYNET CORPORATION	Ohio	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	R&D TOTAL				28,722
AC31	ABARIS	Nevada	NAVY	RDTE/Ships-Basic Research	473
	ADA TECHNOLOGIES	Colorado	NAVY	RDTE/Ships-Basic Research	450
	ANRO ENGINEERING CONSULTANTS	Florida	NAVY	RDTE/Ships-Basic Research	50
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	NAVY	RDTE/Ships-Basic Research	49
	ARCTIC ENERGIES L T D	Maryland	NAVY	RDTE/Ships-Basic Research	49
	ARL INC	Virginia	NAVY	RDTE/Ships-Basic Research	42
	DEEGAN RESEARCH GROUP INC	Rhode Isl	NAVY	RDTE/Ships-Basic Research	49
	DEFENSE GROUP INC THE	Virginia	NAVY	RDTE/Ships-Basic Research	301
	FORMATION INC	New Jersey	NAVY	RDTE/Ships-Basic Research	50
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ships-Basic Research	129
	GENERAL MOTORS CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	593
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Basic Research	496
	GINER INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Ships-Basic Research	48
	GOULD INC	Ohio	ARMY	RDTE/Ships-Basic Research	788
	HOLOMETRIX INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Ships-Basic Research	1,526
	LAQUE CTR FOR CRRSION TCHNLOGY	N Carolina	NAVY	RDTE/Ships-Basic Research	606

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AC31 (CONTINUED)					
	M D S MEMBRANE DEVELOPMENT SPS	California	NAVY	RDTE/Ships-Basic Research	50
	MEDICAL SYSTEMS SUPPORT INC	Virginia	NAVY	RDTE/Ships-Basic Research	50
	MICRO SENSOR SYSTEMS INC	Virginia	NAVY	RDTE/Ships-Basic Research	50
	MICROALLOYING INTERNATIONAL	Texas	NAVY	RDTE/Ships-Basic Research	65
	MICROSENSOR SYSTEMS INC	Virginia	NAVY	RDTE/Ships-Basic Research	41
	N K F ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	NORTHWEST TECHNICAL INDUSTRIES	Washington	NAVY	RDTE/Ships-Basic Research	41
	NUCLEAR & AEROSPACE MAT CORP	California	NAVY	RDTE/Ships-Basic Research	49
	OAK RIDGE NATIONAL LABS	Tennessee	NAVY	RDTE/Ships-Basic Research	80
	OPTICAL TECHNOLOGIES INC	Virginia	NAVY	RDTE/Ships-Basic Research	494
	ORINCON CORPORATION	California	NAVY	RDTE/Ships-Basic Research	48
	PASKOWITZ ASSOCIATES	Virginia	NAVY	RDTE/Ships-Basic Research	48
	PERFECT VIEW INC	N Carolina	NAVY	RDTE/Ships-Basic Research	66
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Ships-Basic Research	49
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Ships-Basic Research	49
	PROACTIVE RESOURCES	Rhode Isld	NAVY	RDTE/Ships-Basic Research	43
	REFRACTORY COMPOSITES INC	California	NAVY	RDTE/Ships-Basic Research	48
	S TRON	California	NAVY	RDTE/Ships-Basic Research	43
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Ships-Basic Research	648
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Ships-Basic Research	45
	SONALYSTS INC	Conn	NAVY	RDTE/Ships-Basic Research	378
	SPARTA INC	California	NAVY	RDTE/Ships-Basic Research	148
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Ships-Basic Research	216

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC31 (CONTINUED)					
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Ships-Basic Research	50
	SUPERSESSION SYSTEMS ENG	California	NAVY	RDTE/Ships-Basic Research	50
	SWEET WOOD SPECIALTY COMPANY	Penn	NAVY	RDTE/Ships-Basic Research	47
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Ships-Basic Research	488
	TECHNOLOGY INTGRN DEV GROUP	Mass	NAVY	RDTE/Ships-Basic Research	50
	TEXAS RESEARCH INSTITUTE	Texas	NAVY	RDTE/Ships-Basic Research	36
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Ships-Basic Research	654
	TEXTILE TECHNOLOGIES INC	Penn	NAVY	RDTE/Ships-Basic Research	48
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Ships-Basic Research	65
		Maryland	NAVY	RDTE/Ships-Basic Research	30
	CONTRACTOR TOTAL				95
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Ships-Basic Research	30
	VECTOR MICRO	Virginia	NAVY	RDTE/Ships-Basic Research	495
	WAGNER DANIEL H ASSOCIATES	California	NAVY	RDTE/Ships-Basic Research	518
	WORKSCIENCE CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	50
	R&D TOTAL				11,209
AC32	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,293
	ANALYTIC POWER CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	46
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Ships-Exploratory Development	288
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,666
	AVCO RESEARCH LABORATORY INC	Mass	NAVY	RDTE/Ships-Exploratory Development	404
	CASDE CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	217
	E G & G WASHINGTON ALALYTL SVC	Maryland	NAVY	RDTE/Ships-Exploratory Development	785

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AC32 (CONTINUED)					
	EDO CORPORATION	New York	NAVY	RDTE/Ships-Exploratory Development	\$ 67
	EINSTEIN ALBERT HLTHCRE	Penn	NAVY	RDTE/Ships-Exploratory Development	80
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Ships-Exploratory Development	80
	GAINES ELECTRIC SUPPLY CO INC	California	NAVY	RDTE/Ships-Exploratory Development	93
	GENERAL ELECTRIC CO	New York	NAVY	RDTE/Ships-Exploratory Development	1,409
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	850
	KRAUSE P C & ASSOCIATES INC	Indiana	NAVY	RDTE/Ships-Exploratory Development	250
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	300
	METALWORKING TECHNOLOGY INC	Penn	NAVY	RDTE/Ships-Exploratory Development	72
	MICROALLOYING INTERNATIONAL	Texas	NAVY	RDTE/Ships-Exploratory Development	60
	MTS SYSTEMS CORPORATION	Minnesota	NAVY	RDTE/Ships-Exploratory Development	2,000
	NATIONAL STL SHPBLDING COMPANY	California	NAVY	RDTE/Ships-Exploratory Development	60
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Exploratory Development	5,009
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Ships-Exploratory Development	120
	SEAWARD INTERNATIONAL	Virginia	NAVY	RDTE/Ships-Exploratory Development	214
	SPECIALTY PLASTICS INC	Louisiana	NAVY	RDTE/Ships-Exploratory Development	446
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Ships-Exploratory Development	25
	TRACOR APPLIED SCIENCES INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	55
	TRACOR HYDRONAUTICS INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	957
	UNIVERSITY OF PITTSBURGH TRUST	Ohio	NAVY	RDTE/Ships-Exploratory Development	170
		Penn	NAVY	RDTE/Ships-Exploratory Development	120
	CONTRACTOR TOTAL				290
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Ships-Exploratory Development	100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	

AC32 (CONTINUED)

VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	\$	7,009
WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Ships-Exploratory Development		700
	Penn	NAVY	RDTE/Ships-Exploratory Development		150
CONTRACTOR TOTAL					850
R&D TOTAL					25,095
AC33 A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development		3,587
ABARIS	Nevada	NAVY	RDTE/Ships-Advanced Development		45
ADVANCE SYSTEMS TECHNOLOGY	Virginia	NAVY	RDTE/Ships-Advanced Development		74
ALCOA/TRE INC	California	NAVY	RDTE/Ships-Advanced Development		43
ARGUS RESEARCH CORP	Virginia	NAVY	RDTE/Ships-Advanced Development		59
BOEING COMPANY THE	Penn	NAVY	RDTE/Ships-Advanced Development		50
CONSULTANTS & DESIGNERS INC	Virginia	NAVY	RDTE/Ships-Advanced Development		44
DEERE JOHN TECHNOLOGIES INTL	New Jersey	NAVY	RDTE/Ships-Advanced Development		2,123
E G & G SPECIAL PROJECTS INC	Nevada	NAVY	RDTE/Ships-Advanced Development		931
E G & G WASHINGTON ALALYTL SVC	Conn	NAVY	RDTE/Ships-Advanced Development		559
	Maryland	NAVY	RDTE/Ships-Advanced Development		6,020
CONTRACTOR TOTAL					6,579
ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Ships-Advanced Development		500
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Advanced Development		700
FIBER MATERIALS INC	Maine	NAVY	RDTE/Ships-Advanced Development		34
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Advanced Development		46,204
GENERAL ELECTRIC CO	Florida	NAVY	RDTE/Ships-Advanced Development		205
	Mass	NAVY	RDTE/Ships-Advanced Development		15,975

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC33 (CONTINUED)					
CONTRACTOR TOTAL					
	HALE FIRE PUMP CO	New York	NAVY	RDTE/Ships-Advanced Development	\$ 120,115
		Ohio	NAVY	RDTE/Ships-Advanced Development	384
	CONTRACTOR TOTAL				136,679
	INTEGRATED SYSTEMS ANALYSTS	Penn	NAVY	RDTE/Ships-Advanced Development	605
		California	NAVY	RDTE/Ships-Advanced Development	1,628
	MANTECH INTERNATIONAL CORP	New Mexico	NAVY	RDTE/Ships-Advanced Development	248
		Virginia	NAVY	RDTE/Ships-Advanced Development	279
	CONTRACTOR TOTAL				527
	MINIGRAPH INC	Penn	NAVY	RDTE/Ships-Advanced Development	1,395
	NATIVE AMERICAN CONSULTANTS	D.C.	NAVY	RDTE/Ships-Advanced Development	619
		Maryland	NAVY	RDTE/Ships-Advanced Development	114
	CONTRACTOR TOTAL				733
	NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	NAVY	RDTE/Ships-Advanced Development	339
	OHIO STATE UNIVERSITY	Ohio	NAVY	RDTE/Ships-Advanced Development	26
	ORI MANTECH	New Mexico	NAVY	RDTE/Ships-Advanced Development	127
	PEERLESS MFG CO	Texas	NAVY	RDTE/Ships-Advanced Development	57
	PIONEER TECHNOLOGY CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	100
	PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Ships-Advanced Development	32
	PROTO TECHNOLOGY	Conn	NAVY	RDTE/Ships-Advanced Development	375
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development	1,631
	SCIENCE APPLICATIONS INTL CORP	N.H.	NAVY	RDTE/Ships-Advanced Development	49
	SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development	500
	SYSTEMS PLANNING CORP	California	NAVY	RDTE/Ships-Advanced Development	2,587

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AC33 (CONTINUED)					
	CONTRACTOR TOTAL				
	UNITED SPACE BOOSTERS INC	Virginia	NAVY	RDTE/Ships-Advanced Development	81
	UNITED STATES DEPT OF COMMERCE	Alabama	NAVY	RDTE/Ships-Advanced Development	2,668
	UNITED TECHNOLOGIES CORP	Colorado	NAVY	RDTE/Ships-Advanced Development	70
	UNIVERSITY OF DAYTON	Conn	NAVY	RDTE/Ships-Advanced Development	100
	VECTOR RESEARCH COMPANY INC	Ohio	NAVY	RDTE/Ships-Advanced Development	850
	VILLAGE AUTO BODY INC	Maryland	NAVY	RDTE/Ships-Advanced Development	30
	WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Ships-Advanced Development	4,744
		Penn	NAVY	RDTE/Ships-Advanced Development	38
	R&D TOTAL				250,971
AC34	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Ships-Engineering Development	465,247
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Ships-Engineering Development	793
	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Engineering Development	341
	ARL INC	D.C.	NAVY	RDTE/Ships-Engineering Development	203
	BODENSEEWERK GERAETETECHNIK GM	GERMANY, F	NAVY	RDTE/Ships-Engineering Development	145
	CONTROL DATA CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development	811
	DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development	87
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Ships-Engineering Development	2,093
	GENERAL AERO PRODUCTS CORP	Michigan	NAVY	RDTE/Ships-Engineering Development	759
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Ships-Engineering Development	130
		Conn	NAVY	RDTE/Ships-Engineering Development	22,433
	CONTRACTOR TOTAL				3,706
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Ships-Engineering Development	26,139
					3,507

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC34 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Ships-Engineering Development	5,597
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Ships-Engineering Development	33,189
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development	280
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Engineering Development	54
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Ships-Engineering Development	4,551
	S Y S	California	NAVY	RDTE/Ships-Engineering Development	90
	SEPARATION SYSTEMS TECHNOLOGY	California	NAVY	RDTE/Ships-Engineering Development	489
	SHARP GEORGE G INC	Virginia	NAVY	RDTE/Ships-Engineering Development	50
	STEWART & STEVENSON SERVICES	Texas	ARMY	RDTE/Ships-Engineering Development	14,186
	T CARROLL ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Engineering Development	125
	TACTICAL TRUCK CORPORATION	Michigan	ARMY	RDTE/Ships-Engineering Development	8,957
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Ships-Engineering Development	8,467
	TEXTRON INC	Michigan	NAVY	RDTE/Ships-Engineering Development	450
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Ships-Engineering Development	27
	UNIVERSITY OF DAYTON	Ohio	NAVY	RDTE/Ships-Engineering Development	304
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Ships-Engineering Development	98
	WISCONSIN CENTRIFUGAL INC	Wisconsin	NAVY	RDTE/Ships-Engineering Development	47
	WYLE LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development	2,371
	R&D TOTAL				114,340
AC35	ELECTROMAGNETIC LAUNCH RES	Mass	NAVY	RDTE/Ships-Op Systems Development	700
	GENERAL ATOMICS	California	NAVY	RDTE/Ships-Op Systems Development	600
	GENERAL ELECTRIC CO	New York	NAVY	RDTE/Ships-Op Systems Development	604
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Op Systems Development	432

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC35 (CONTINUED)				
INDUSTRIAL QUALITY INC				
N K F ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Op Systems Development	40
SOMAT CORPORATION	Virginia	NAVY	RDTE/Ships-Op Systems Development	140
TRACOR APPLIED SCIENCES INC	Penn	NAVY	RDTE/Ships-Op Systems Development	238
	Conn	NAVY	RDTE/Ships-Op Systems Development	50
	Texas	NAVY	RDTE/Ships-Op Systems Development	302
CONTRACTOR TOTAL				
VITRO CORPORATION				
R&D TOTAL	Maryland	NAVY	RDTE/Ships-Op Systems Development	352
AC36 CBI NA-CON INC	Tennessee	NAVY	RDTE/Ships-Management & Support	1,771
FUZETRON INC	California	NAVY	RDTE/Ships-Management & Support	4,877
ROBOCOM SYSTEMS INC	New York	NAVY	RDTE/Ships-Management & Support	17,021
R&D TOTAL				50
AC41 ARMORED VEH TECH ASSOC				62
ARMORED VHCLE TECHNOLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	17,133
CEMCOM RESEARCH ASSOCIATES	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	33
EDO CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Basic Research	455
FOSTER MILLER INC	Conn	ARMY	RDTE/Tank - Automotive-Basic Research	250
FROUDE ENGINEERING INC	Mass	ARMY	RDTE/Tank - Automotive-Basic Research	30
GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	139
	Indiana	ARMY	RDTE/Tank - Automotive-Basic Research	75
	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	703
		ARMY	RDTE/Tank - Automotive-Basic Research	686
CONTRACTOR TOTAL				
GONZALEZ DESIGN ENGRG COMPANY	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	1,389
MICHIGAN TECHNICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	1,777
				340

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC41 (CONTINUED)					
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	87
	UNION CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Basic Research	6,037
	WEST VIRGINIA UNIVERSITY	W Virginia	ARMY	RDTE/Tank - Automotive-Basic Research	197
	R&D TOTAL				10,809
AC42	A A I CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	452
	ADIABATICS INCORPORATED	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	291
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	245
	ARMORED VEHICLE TECHNOLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	2,396
	AUTOMATION RESEARCH CORP	Nevada	ARMY	RDTE/Tank - Automotive-Exploratory Develop	44
	BBN COMMUNICATIONS CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	225
	BBN SYSTEMS & TECH CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	BKM INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	62
	CALIFORNIA RES & TECHNOLOGY	New Jersey	NAVY	RDTE/Tank - Automotive-Exploratory Develop	143
	CARBORIDE CORPORATION	Ohio	ARMY	RDTE/Tank - Automotive-Exploratory Develop	37
	CHENG TECHNOLOGY & SERVICES	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	445
	CIM SYSTEMS INC	Texas	ARMY	RDTE/Tank - Automotive-Exploratory Develop	431
	COLSA INC	Alabama	ARMY	RDTE/Tank - Automotive-Exploratory Develop	300
	CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	12,908
	FAILURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	316
	G M HUGHES ELECTRONICS CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	226
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	722
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	10,288
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	2,561

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC42 (CONTINUED)					
	HODGES TRANSPORTATION INC	Nevada	ARMY	RDTE/Tank - Automotive-Exploratory Develop	521
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	332
	INDEX INDUSTRIES INC	Washington	ARMY	RDTE/Tank - Automotive-Exploratory Develop	139
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	68
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	895
	MICHIGAN TECHNICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	547
	MICROWAVE RADIO CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	72
	ODETICS INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	503
	PERKIN ELMER CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	41
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	58
	RECON & OPTICAL INC	Illinois	ARMY	RDTE/Tank - Automotive-Exploratory Develop	137
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Tank - Automotive-Exploratory Develop	274
	TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Tank - Automotive-Exploratory Develop	153
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	3,285
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	350
	TSI INCORPORATED	Minnesota	ARMY	RDTE/Tank - Automotive-Exploratory Develop	175
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	68
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	39-
	R&D TOTAL				39,723
AC43	ALLIED SIGNAL AEROSPACE CO	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	400
	ARMORED VEHICLE TECHNOLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	13,000
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	150
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Tank - Automotive-Advanced Developmen	197

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AC43 (CONTINUED)					
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Advanced Development	\$ 500
		California	ARMY	RDTE/Tank - Automotive-Advanced Development	7,755
	CONTRACTOR TOTAL				8,255
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	4,364
	GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	343
	HANSEN ENGINE CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	295
	HARSCO CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Advanced Development	3,150
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Tank - Automotive-Advanced Development	300
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Advanced Development	200
	MICHIGAN TECHNICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	500
	MTS SYSTEMS CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	1,220
	RICKARD COMPUTER GROUP	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	36
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	430
	R&D TOTAL				32,840
AC44	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	5,429
	AVCO CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Engr Development	1-
	BUNDESAMT FUER WEHRTECHNIK	GERMANY, F	ARMY	RDTE/Tank - Automotive-Engr Development	1,834
	CASDE CORPORATION	California	NAVY	RDTE/Tank - Automotive-Engr Development	1,350
	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	30
		Maryland	ARMY	RDTE/Tank - Automotive-Engr Development	308
	CONTRACTOR TOTAL				338
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	42
		California	ARMY	RDTE/Tank - Automotive-Engr Development	59,297

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC44 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL DYNAMICS CORPORATION				
		Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	59,339
		Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	400
		Ohio	ARMY	RDTE/Tank - Automotive-Engr Development	155,653
					631,086
	CONTRACTOR TOTAL				787,139
	GENERAL ELECTRIC CO				
		Mass	ARMY	RDTE/Tank - Automotive-Engr Development	195
		Vermont	ARMY	RDTE/Tank - Automotive-Engr Development	7,526
	CONTRACTOR TOTAL				7,721
	GENERAL MOTORS CORPORATION				
	HODGES TRANSPORTATION INC	Indiana	ARMY	RDTE/Tank - Automotive-Engr Development	874
		Nevada	ARMY	RDTE/Tank - Automotive-Engr Development	261
		Virginia	ARMY	RDTE/Tank - Automotive-Engr Development	35
		Arizona	ARMY	RDTE/Tank - Automotive-Engr Development	416
		S Carolina	ARMY	RDTE/Tank - Automotive-Engr Development	56
		Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	54
	R&D TOTAL				864,733
	AC45 AM GENERAL CORPORATION				
	AVCO CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Op Systems Developm	3,915
		Conn	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,005
		Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	105
		Texas	NAVY	RDTE/Tank - Automotive-Op Systems Developm	90
		Indiana	ARMY	RDTE/Tank - Automotive-Op Systems Developm	137
		Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	5,002
		ISRAEL	NAVY	RDTE/Tank - Automotive-Op Systems Developm	107
		New York	ARMY	RDTE/Tank - Automotive-Op Systems Developm	811

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC45 (CONTINUED)					
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	\$ 450
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	76
	R&D TOTAL				11,698
AC51	ADVANCED TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Basic Research	50
	AMERICAN POWER JET CO INC	New Jersey	NAVY	RDTE/Weapons-Basic Research	50
	BRUNSWICK CORPORATION	California	ARMY	RDTE/Weapons-Basic Research	96
	CHAMBERLAIN MANUFACTURING CORP	Maine	USAF	RDTE/Weapons-Basic Research	1,568
	ELECTROMAGNETIC LAUNCH RES	Mass	NAVY	RDTE/Weapons-Basic Research	961
	GENERAL DYNAMICS CORPORATION	Virginia	NAVY	RDTE/Weapons-Basic Research	931
	HEWLETT PACKARD COMPANY	New Mexico	ARMY	RDTE/Weapons-Basic Research	96
	HEXCEL CORPORATION	Arizona	ARMY	RDTE/Weapons-Basic Research	43
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Basic Research	2,400
	I A P RESEARCH INC	Ohio	USAF	RDTE/Weapons-Basic Research	50
	INTEGRATED PARALLEL TECHNOLOGY	California	USAF	RDTE/Weapons-Basic Research	50
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Weapons-Basic Research	163
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Weapons-Basic Research	699
	MAXWELL LABORATORIES INC	New Mexico	USAF	RDTE/Weapons-Basic Research	54
	METRON CORPORATION	Penn	NAVY	RDTE/Weapons-Basic Research	400
	MOOG INC	New York	ARMY	RDTE/Weapons-Basic Research	51
	NORDEN SYSTEMS INC	New York	NAVY	RDTE/Weapons-Basic Research	1,214
	NORTH TEXAS STATE UNIVERSITY	Texas	USAF	RDTE/Weapons-Basic Research	60
	ODETICS INC	California	ARMY	RDTE/Weapons-Basic Research	1,169
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Weapons-Basic Research	656

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC51 (CONTINUED)					
	REMINGTON ARMS COMPANY INC	New York	ARMY	RDTE/Weapons-Basic Research	\$ 2,005
	ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Weapons-Basic Research	37
	ROLLS ROYCE PLC	UNITED KIN	ARMY	RDTE/Weapons-Basic Research	249
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Basic Research	193
	SAPHIKON INC	N. H.	NAVY	RDTE/Weapons-Basic Research	207
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Weapons-Basic Research	541
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Weapons-Basic Research	62
	SPARTA INC	Alabama	ARMY	RDTE/Weapons-Basic Research	1,648
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Basic Research	408
	SYNDELIX INC	New Mexico	USAF	RDTE/Weapons-Basic Research	2,694
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Weapons-Basic Research	508
	TROUND INTERNATIONAL INC	New Jersey	NAVY	RDTE/Weapons-Basic Research	1,070
	UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Basic Research	30
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Basic Research	80
	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Weapons-Basic Research	65
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Basic Research	130
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Weapons-Basic Research	68
	WICKES COMPANIES INC	Penn	ARMY	RDTE/Weapons-Basic Research	58
	R&D TOTAL				20,814
AC52	A A I CORPORATION	Maryland	ARMY	RDTE/Weapons-Exploratory Development	876
	A T & T TECHNOLOGIES INC	Penn	USAF	RDTE/Weapons-Exploratory Development	8,882
	APPLICATIONS RESEARCH CORP	Florida	USAF	RDTE/Weapons-Exploratory Development	57-
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	249

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AC52 (CONTINUED)					
	ARES INC	Ohio	ARMY	RDTE/Weapons-Exploratory Development	\$ 410
	BALL CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	164
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Weapons-Exploratory Development	200
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Weapons-Exploratory Development	767
	COLT INDUSTRIES INC	Conn	ARMY	RDTE/Weapons-Exploratory Development	893
	ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Weapons-Exploratory Development	1,256
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Weapons-Exploratory Development	467
	FMC CORPORATION	California	ARMY	RDTE/Weapons-Exploratory Development	32-
		Minnesota	NAVY	RDTE/Weapons-Exploratory Development	129
	CONTRACTOR TOTAL				97
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Exploratory Development	100
	GENERAL ATOMICS	New Mexico	USAF	RDTE/Weapons-Exploratory Development	2,852
	GENERAL DEFENSE CORPORATION	Florida	NAVY	RDTE/Weapons-Exploratory Development	944
	GENERAL ELECTRIC CO	Vermont	NAVY	RDTE/Weapons-Exploratory Development	47
			USAF	RDTE/Weapons-Exploratory Development	1,957
	COUNTRY TOTAL				2,004
	HONEYWELL INC	Minnesota	ARMY	RDTE/Weapons-Exploratory Development	1,495
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Exploratory Development	40-
	I I T RESEARCH INSTITUTE	Illinois	NAVY	RDTE/Weapons-Exploratory Development	246
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Weapons-Exploratory Development	69
	JAYCOR	California	USAF	RDTE/Weapons-Exploratory Development	80
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	467-
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	163

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC52 (CONTINUED)

LORAL CORPORATION	Arizona	USAF	RDTE/Weapons-Exploratory Development	\$	2,979
	Louisiana	USAF	RDTE/Weapons-Exploratory Development		103
	Penn	USAF	RDTE/Weapons-Exploratory Development		56
	Florida	USAF	RDTE/Weapons-Exploratory Development		307
	Maryland	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development		2,993 59
COUNTRY TOTAL					3,052
CONTRACTOR TOTAL	New Mexico	USAF	RDTE/Weapons-Exploratory Development		50
	California	USAF	RDTE/Weapons-Exploratory Development		3,409
MAXWELL LABORATORIES INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development		200
					1,058
CONTRACTOR TOTAL					1,258
MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development		950 207
	COUNTRY TOTAL				1,157
MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Weapons-Exploratory Development		701
	California	ARMY NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development		48 86 330
COUNTRY TOTAL					464
CONTRACTOR TOTAL	New Mexico	USAF	RDTE/Weapons-Exploratory Development		143
	Arizona	USAF	RDTE/Weapons-Exploratory Development		607
MOTOROLA INC	New Mexico	NAVY	RDTE/Weapons-Exploratory Development		1,593
	California	ARMY	RDTE/Weapons-Exploratory Development		2,738
CONTRACTOR TOTAL					46-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	ODETICS INC	California	ARMY	RDTE/Weapons-Exploratory Development	228
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Exploratory Development	60
	ORLANDO TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Exploratory Development	33
	PENNSYLVANIA STATE UNIV THE	Penn	USAF	RDTE/Weapons-Exploratory Development	70
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development	889
	PULSE SCIENCES INC	California	NAVY	RDTE/Weapons-Exploratory Development	242
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Exploratory Development	65
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	477
	CONTRACTOR TOTAL				542
	RAYTHEON COMPANY	Mass	USAF	RDTE/Weapons-Exploratory Development	3,294
	ROCKWELL DEL INC	California	ARMY	RDTE/Weapons-Exploratory Development	31
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Exploratory Development	245
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,901
	CONTRACTOR TOTAL				2,146
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	743
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Weapons-Exploratory Development	50
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Weapons-Exploratory Development	119
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Weapons-Exploratory Development	1,500
	SPARTA INC	California	ARMY	RDTE/Weapons-Exploratory Development	48
		USAF	USAF	RDTE/Weapons-Exploratory Development	1,548
	COUNTRY TOTAL				443
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Exploratory Development	1,691
	STEYR-DAIMLER-PUCH AG	AUSTRIA	ARMY	RDTE/Weapons-Exploratory Development	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Weapons-Exploratory Development	350
	TELEFLEX INCORPORATED	Penn	USAF	RDTE/Weapons-Exploratory Development	36-
	TROUND INTERNATIONAL INC	New Jersey	NAVY	RDTE/Weapons-Exploratory Development	54
	UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Exploratory Development	74
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Exploratory Development	477
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Exploratory Development	884
	UNIVERSITY OF IDAHO	Idaho	USAF	RDTE/Weapons-Exploratory Development	55
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Weapons-Exploratory Development	104
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,655
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Weapons-Exploratory Development	75
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Exploratory Development	1,052
	VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Weapons-Exploratory Development	50
	R&D TOTAL				53,128
AC53	ACUREX CORPORATION	Ohio	USAF	RDTE/Weapons-Advanced Development	6,540
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Weapons-Advanced Development	
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Weapons-Advanced Development	105
	APPLIED DYNAMICS INTERNATIONAL	Michigan	USAF	RDTE/Weapons-Advanced Development	26
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	3,538
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development	8,514
	BALL CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development	16,794
		New Mexico	USAF	RDTE/Weapons-Advanced Development	3,176
	CONTRACTOR TOTAL				19,970
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	1,334

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC53 (CONTINUED)					
	BOEING COMPANY THE	Alabama	USAF	RDTE/Weapons-Advanced Development	\$ 103
		Washington	NAVY	RDTE/Weapons-Advanced Development	60,182
		USAF	RDTE/Weapons-Advanced Development	1,160	
	COUNTRY TOTAL				61,342
					61,445
	CONTRACTOR TOTAL				
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Weapons-Advanced Development	739
		USAF	RDTE/Weapons-Advanced Development	200	
	COUNTRY TOTAL				939
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	760
	COAST CRYOGENICS	California	USAF	RDTE/Weapons-Advanced Development	231
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	5,942
	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Weapons-Advanced Development	429
	CORNING INC	New York	USAF	RDTE/Weapons-Advanced Development	173
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	50
	CREARE RESEAF H & DEVELOPMENT	N.H.	USAF	RDTE/Weapons-Advanced Development	53
	CSA ENGINEERING INC	California	USAF	RDTE/Weapons-Advanced Development	50
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Advanced Development	335
	EAGLE TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Advanced Development	425
	FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Weapons-Advanced Development	500
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development	1,790
	GENERAL ATOMICS	California	USAF	RDTE/Weapons-Advanced Development	143
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Weapons-Advanced Development	4,359
		Penn	USAF	RDTE/Weapons-Advanced Development	1,707
		Vermont	ARMY	RDTE/Weapons-Advanced Development	1,761

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	

AC53 (CONTINUED)

CONTRACTOR TOTAL					\$	
HARRIS CORPORAT:ON	Florida	ARMY	RDTE/Weapons-Advanced Development		7,827	
HERCULES INCORPORATED	Utah	USAF	RDTE/Weapons-Advanced Development		6,189	
HONEYWELL INC	Arizona	USAF	RDTE/Weapons-Advanced Development		300	
	Florida	USAF	RDTE/Weapons-Advanced Development		2,510	
	Minnesota	NAVY	RDTE/Weapons-Advanced Development		154	
					500	
					3,164	
CONTRACTOR TOTAL						
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Weapons-Advanced Development		996	
		USAF	RDTE/Weapons-Advanced Development		10,472	
	COUNTRY TOTAL				11,468	
I R T CORPORATION	California	USAF	RDTE/Weapons-Advanced Development		2,415	
INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Weapons-Advanced Development		46	
KAMAN CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development		19,362	
KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development		2,801	
KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development		573	
LITTON INDUSTRIES INC	Mass	USAF	RDTE/Weapons-Advanced Development		222	
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Advanced Development		6,785	
	New Mexico	USAF	RDTE/Weapons-Advanced Development		850	
					7,635	
CONTRACTOR TOTAL						
LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Advanced Development		2,497	
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development		1,064	
	Florida	ARMY	RDTE/Weapons-Advanced Development		67,654	
	New Mexico	USAF	RDTE/Weapons-Advanced Development		960	

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AC53 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Advanced Development	69,678
		New Mexico	USAF	RDTE/Weapons-Advanced Development	110
	CONTRACTOR TOTAL				340
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	450
		Missouri	NAVY	RDTE/Weapons-Advanced Development	1,314
			USAF	RDTE/Weapons-Advanced Development	500
	COUNTRY TOTAL				5,880
					6,380
	CONTRACTOR TOTAL				7,694
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	400
		New Mexico	USAF	RDTE/Weapons-Advanced Development	1,930
	CONTRACTOR TOTAL				2,330
	MOTOROLA INC	Arizona	ARMY	RDTE/Weapons-Advanced Development	222
	NORTHROP CORPORATION	Mass	USAF	RDTE/Weapons-Advanced Development	415
	PARKS ASSOCIATES	Virginia	NAVY	RDTE/Weapons-Advanced Development	75
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development	3,111
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development	100
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Advanced Development	500
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development	1,898
		New Mexico	USAF	RDTE/Weapons-Advanced Development	6,800
	CONTRACTOR TOTAL				8,698
	RIVERSIDE RESEARCH INSTITUTE	New York	USAF	RDTE/Weapons-Advanced Development	774
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Advanced Development	3,141

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC53 (CONTINUED)

CONTRACTOR TOTAL					\$	9,893
S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development		13,034	
SCHAFFER W J ASSOCIATES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development		2,308	
SCHOTT GLASS TECHNOLOGIES INC	Mass	USAF	RDTE/Weapons-Advanced Development		7,425	
SCIENCE & ENGINEERING ASSOC	GERMANY, F	USAF	RDTE/Weapons-Advanced Development		780	
SONALYSTS INC	New Mexico	USAF	RDTE/Weapons-Advanced Development		133	
SPECTRA DIODE LABORATORIES	Conn	NAVY	RDTE/Weapons-Advanced Development		352	
SPECTRA TECHNOLOGY INC	California	USAF	RDTE/Weapons-Advanced Development		1,032	
SRI INTERNATIONAL	Washington	USAF	RDTE/Weapons-Advanced Development		216	
SRS TECHNOLOGIES	California	USAF	RDTE/Weapons-Advanced Development		126	
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Weapons-Advanced Development		2,245	
TEXAS INSTRUMENTS INCORPORATED	Alabama	ARMY	RDTE/Weapons-Advanced Development		31-	
TEXTRON INC	Texas	USAF	RDTE/Weapons-Advanced Development		14,768	
THIOLKOL CORPORATION	New York	USAF	RDTE/Weapons-Advanced Development		82	
TRW INC	Utah	NAVY	RDTE/Weapons-Advanced Development		85	
	California	ARMY	RDTE/Weapons-Advanced Development		750	
	USAF	RDTE/Weapons-Advanced Development			28,729	
COUNTRY TOTAL					29,479	
UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Weapons-Advanced Development		607	
	Florida	USAF	RDTE/Weapons-Advanced Development		3,124	
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Advanced Development		3,731	
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Weapons-Advanced Development		1,332	
					500	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC53 (CONTINUED)					
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Advanced Development	\$ 492
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development	50
	R&D TOTAL				349,977
AC54	ANALYTIC SCIENCES CORP THE	Florida	USAF	RDTE/Weapons-Engineering Development	2,391
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	2,460
	AVCO CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development	73
		Mass	USAF	RDTE/Weapons-Engineering Development	15,758
	CONTRACTOR TOTAL				15,831
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Engineering Development	6,706
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	413
	CHAMBERLAIN MANUFACTURING CORP	Iowa	NAVY	RDTE/Weapons-Engineering Development	8,000
		Maine	ARMY	RDTE/Weapons-Engineering Development	100
	CONTRACTOR TOTAL				8,100
	CONTROL DATA CANADA LIMITED	CANADA	ARMY	RDTE/Weapons-Engineering Development	1,045
	CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Weapons-Engineering Development	30
	DYNAMAC CORPORATION	Maryland	NAVY	RDTE/Weapons-Engineering Development	712
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Weapons-Engineering Development	200
	EATON CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	202
	GENCORP INC	California	NAVY	RDTE/Weapons-Engineering Development	47
		Florida	USAF	RDTE/Weapons-Engineering Development	186
	CONTRACTOR TOTAL				233
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	1,811
	GENERAL ELECTRIC CO	New York	NAVY	RDTE/Weapons-Engineering Development	520

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R&D	CONTRACTOR NAME	COUNTRY	DEPT		R&D DESCRIPTION	

AC54 (CONTINUED)

GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Weapons-Engineering Development		\$	2,800
HARSCO CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development			25,613
HONEYWELL INC	California	NAVY	RDTE/Weapons-Engineering Development			2,151
	Minnesota	NAVY	RDTE/Weapons-Engineering Development			259,859
CONTRACTOR TOTAL						262,010
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Weapons-Engineering Development			290,869
KAMAN SCIENCES CORPORATION	California	USAF	RDTE/Weapons-Engineering Development			114
	New Mexico	USAF	RDTE/Weapons-Engineering Development			1,783
CONTRACTOR TOTAL						1,897
LEAR ASTRONICS CORP	California	USAF	RDTE/Weapons-Engineering Development			169
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Engineering Development			239
LORAL CORPORATION	Ohio	NAVY USAF	RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development			47,252 738
COUNTRY TOTAL						47,990
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development			262
MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Weapons-Engineering Development			11,405
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Engineering Development			51
NATIONAL FORGE COMPANY	Penn	USAF	RDTE/Weapons-Engineering Development			121
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Engineering Development			457
PACER SYSTEMS INC	Florida	NAVY	RDTE/Weapons-Engineering Development			1,813
RAM SYS GMBH	GERMANY, F	NAVY	RDTE/Weapons-Engineering Development			22,510
SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Weapons-Engineering Development			201
SPARTCN CORPORATION	Michigan	NAVY	RDTE/Weapons-Engineering Development			2,750

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC54 (CONTINUED)					
	STRESAU R LABORATORY INC	Wisconsin	NAVY	RDTE/Weapons-Engineering Development	78
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Engineering Development	50
	TECOLOTE RESEARCH INC	Virginia	NAVY	RDTE/Weapons-Engineering Development	352
	TRW INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	72
	UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Engineering Development	2,692
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Engineering Development	572
	WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Weapons-Engineering Development	51,937
	WRIGHT MALTA CORP	New York	ARMY	RDTE/Weapons-Engineering Development	1,669
	R&D TOTAL				769,233
AC55	BAIRD CORPORATION	Mass	USAF	RDTE/Weapons-Operational Systems Developme	584
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Weapons-Operational Systems Developme	62
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	2,439
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	377
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Weapons-Operational Systems Developme	250
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	487
	CONQUEST ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	55
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Weapons-Operational Systems Developme	770
	HONEYWELL INC	California	USAF	RDTE/Weapons-Operational Systems Developme	1,300
	CONTRACTOR TOTAL	New Mexico	ARMY	RDTE/Weapons-Operational Systems Developme	816
					2,116
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Operational Systems Developme	397
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	358
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	658

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC55 (CONTINUED)					
	LOGICON INC	California	USAF	RDTE/Weapons-Operational Systems Developme	\$ 139
	MCDONNELL DOUGLAS ASTRONAUTICS	Florida	NAVY	RDTE/Weapons-Operational Systems Developme	9,031
		Missouri	NAVY	RDTE/Weapons-Operational Systems Developme	2,600
	CONTRACTOR TOTAL				11,691
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	791
		New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	89
	CONTRACTOR TOTAL				880
	OKLAHOMA STATE UNIVERSITY	Florida	USAF	RDTE/Weapons-Operational Systems Developme	2,263
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Weapons-Operational Systems Developme	46
	R & D ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	243
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Weapons-Operational Systems Developme	30
	ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	266
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	35
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	310
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	227
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	5,146
	R&D TOTAL				29,829
AC56	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Weapons-Management & Support	52
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	USAF	RDTE/Weapons-Management & Support	48
	AMERICAN SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Weapons-Management & Support	380
	ANTRO-PIX CORPORATION	Texas	USAF	RDTE/Weapons-Management & Support	175
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Management & Support	1,143
	BIO QUANTUM TECH	Texas	USAF	RDTE/Weapons-Management & Support	34

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC56 (CONTINUED)					
	BOEING COMPANY THE	Washington	USAF	RDTE/Weapons-Management & Support	\$ 215
	CAMBRIDGE HYDRO-DYNAMICS INC	New Jersey	USAF	RDTE/Weapons-Management & Support	50
	CEMCO ENGR	Florida	USAF	RDTE/Weapons-Management & Support	38
	DELPHI RESEARCH INC	New Mexico	USAF	RDTE/Weapons-Management & Support	61
	DESIGN ENGINEERING INC	New Mexico	USAF	RDTE/Weapons-Management & Support	200
	DISPLAYTECH INC	Colorado	USAF	RDTE/Weapons-Management & Support	125
	G T DEVICES INC	Virginia	NAVY	RDTE/Weapons-Management & Support	48
	I A P RESEARCH INC	Ohio	USAF	RDTE/Weapons-Management & Support	483
	INTERSPEC INC	Penn	USAF	RDTE/Weapons-Management & Support	50
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Management & Support	73
	LOGICON INC	California	USAF	RDTE/Weapons-Management & Support	372
	MACDONALD CONSULTING	California	USAF	RDTE/Weapons-Management & Support	32
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Management & Support	227
	MERIDIAN CORPORATION	Virginia	USAF	RDTE/Weapons-Management & Support	111
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Weapons-Management & Support	46
	MILLITECH CORPORATION	Mass	USAF	RDTE/Weapons-Management & Support	51
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Management & Support	50
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Weapons-Management & Support	51
	PHOTOMETRICS INC	Mass	USAF	RDTE/Weapons-Management & Support	50
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Weapons-Management & Support	101
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Weapons-Management & Support	90
	POWER SPECTRUM ELC ENGRG	California	USAF	RDTE/Weapons-Management & Support	55
	SCIENCE RESEARCH LABORATORY	Mass	USAF	RDTE/Weapons-Management & Support	49

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC56 (CONTINUED)					
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Weapons-Management & Support	63
	SPARTA INC	California	USAF	RDTE/Weapons-Management & Support	48
	SPECTRAN CORPORATION	Mass	USAF	RDTE/Weapons-Management & Support	34
	STATCON INC	Maryland	USAF	RDTE/Weapons-Management & Support	67
	TALANDIC RESEARCH CORPORATION	Arizona	USAF	RDTE/Weapons-Management & Support	59
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Weapons-Management & Support	197
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Management & Support	100
	VITRO CORPORATION	Maine	NAVY	RDTE/Weapons-Management & Support	1,445
		Maryland	NAVY	RDTE/Weapons-Management & Support	300
		Miss	NAVY	RDTE/Weapons-Management & Support	854
		New Jersey	NAVY	RDTE/Weapons-Management & Support	102
		Virginia	NAVY	RDTE/Weapons-Management & Support	6,053
		New Mexico	USAF	RDTE/Weapons-Management & Support	8,754
	CONTRACTOR TOTAL				59
	VOSS SCIENTIFIC				13,841
	R&D TOTAL				11,442
AC61	A T & T TECHNOLOGIES INC	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Easic	95
	ABIOMED INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	238
	ADVANCED FIBEROPTICS CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	ADVANCED OPTICAL SYSTEM	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	578
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Basic	250
	ANACAPA SCIENCES INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Electronics & Communication Eq-Basic	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	281
	ARKADY ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	257
	ATLANTIC AEROSPACE ELECTRONICS	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	3,962
	AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	196
			NAVY	RDTE/Electronics & Communication Eq-Basic	1,403
			USAF	RDTE/Electronics & Communication Eq-Basic	200
	COUNTRY TOTAL				1,799
	AVTEC SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	250
	BALL COMMUNICATION SYSTEMS	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	385
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	2,224
	BELL COMMUNICATIONS RESEARCH	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	275
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	222
	BUSINESS TECHNOLOGICAL SYSTEMS	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	232
	C E OPERATIONS & MAINT SVC INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	3,733
	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Basic	150
	COMMAND SYSTEMS GROUP INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	220
	COMMONWEALTH TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	118
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	175
	CONSOLVE INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	COPROCESSOR CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	176
	DATA SYSTEMS ANALYSTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	52
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	239
	DEFENSE GROUP INC THE	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	DIGITAL FANTASIES LTD	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC61 (CONTINUED)

DYMAFLOW INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	\$	404
DYNAMIC ANALYSIS & TEST ASSOC	California	USAF	RDTE/Electronics & Communication Eq-Basic		45
E SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic		442
EG&G INC	Nevada	USAF	RDTE/Electronics & Communication Eq-Basic		2,034
ELECTRO RADIATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic		214
		USAF	RDTE/Electronics & Communication Eq-Basic		48
	COUNTRY TOTAL				262
ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Electronics & Communication Eq-Basic		47
ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic		50
FAIRCHILD INDUSTRIES INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Basic		390
FERMIONICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic		477
FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic		687
		NAVY	RDTE/Electronics & Communication Eq-Basic		185
	COUNTRY TOTAL				872
FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic		86
FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic		50
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Electronics & Communication Eq-Basic		
GENERAL SCIENCES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic		170
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic		1,002
		NAVY	RDTE/Electronics & Communication Eq-Basic		2,934
		USAF	RDTE/Electronics & Communication Eq-Basic		1,500
	COUNTRY TOTAL				5,436
II-VI INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic		133
INFORMATION SYSTEMS LABS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic		558
INTER NATIONAL RES INSTITUTE	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic		1,500

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AC61 (CONTINUED)

INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	\$ 50
INTERSTATE ELECTRONICS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	150
IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Electronics & Communication Eq-Basic	74
IRI INTERNATIONAL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	100
ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic	500
	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Basic	211
CONTRACTOR TOTAL				711
ITT GILFILLAN	California	NAVY	RDTE/Electronics & Communication Eq-Basic	200
KOFORD ENGINEERING	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	71
L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Electronics & Communication Eq-Basic	239
L J F CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	188
MAC AULAY BROWN INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	218
MAGNAVOX GOVT & INDSTR ELCTR	Indiana	USAF	RDTE/Electronics & Communication Eq-Basic	9,039
MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	227
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	248
	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	338
CONTRACTOR TOTAL				586
MEASUREMENT CONCEPT CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
MEGAPELS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	25
MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	179
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	305
NAVSYS CORP	Colorado	USAF	RDTE/Electronics & Communication Eq-Basic	199
NORTHROP CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	294

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC61 (CONTINUED)					

CONTRACTOR TOTAL	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	\$
OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	345
OHIO UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	639
OREGON GRAD CNTR STUCY RESERCH	Oregon	NAVY	RDTE/Electronics & Communication Eq-Basic	116
ORTEL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	300
PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	200
PROGRAMMING ENVIRONMENTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	220
PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic	37
QUALCOMM INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	286
		USAF	RDTE/Electronics & Communication Eq-Basic	39
				52
				190
				242
				10,000
RACAL COMMUNICATIONS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Basic	259
RADIATION MONITORING DEVICES	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	241
RALCON	Utah	ARMY	RDTE/Electronics & Communication Eq-Basic	85
RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic	17,991
	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	18,076
				18-
CONTRACTOR TOTAL				1,731
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	1,713
	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	399
				175
CONTRACTOR TOTAL				
SAN DIEGO SEMICONDUCTORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	
SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Basic	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	CONTRACTOR TOTAL				
	SCHWARTZ ELECTRO-OPTICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	21,144
		Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	21,319
		Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	70
	CONTRACTOR TOTAL				248
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Basic	318
		Hawaii	NAVY	RDTE/Electronics & Communication Eq-Basic	385
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	48
	CONTRACTOR TOTAL				429
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	862
	SCOPE INCORPORATED	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SIGNAL ANALYTICS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	251
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SONEX ENTERPRISES INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	231
	SOURCE TEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	498
	SPARTA INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
		NAVY	RDTE/Electronics & Communication Eq-Basic	109	
			RDTE/Electronics & Communication Eq-Basic	94	
	COUNTRY TOTAL				203
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	999
	CONTRACTOR TOTAL				1,202
	SPECTRA TECHNOLOGY INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	167
	SPIRE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	357
	SRI INTERNATIONAL	California	NAVY	RDTE/Electronics & Communication Eq-Basic	523

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC61 (CONTINUED)

STRUCTURED SYS & SOFTWARE	California	USAF	RDTE/Electronics & Communication Eq-Basic	\$	50
SUPERCONDUCTOR TECHNOLOGIES	California	ARMY	RDTE/Electronics & Communication Eq-Basic		49
SYNETICS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		128
SYSTEM DYNAMICS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic		50
TRI TESSCO	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		340
TRUSTED INFORMATION SYSTEMS	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic		1,080
TRW INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic		621
U F A INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		52
UNISYS CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Basic		110
UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic		225
UNIVERSITY OF DELAWARE	Delaware	NAVY	RDTE/Electronics & Communication Eq-Basic		382
UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Electronics & Communication Eq-Basic		56
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic		140
UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Electronics & Communication Eq-Basic		105
UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Electronics & Communication Eq-Basic		4,577
UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		18,904
UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic		129
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic		10,896
VANCE SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic		52
VISTA RESEARCH CORPORATION	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic		187
VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic		4,812
WALLACE T H INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic		208
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic		160

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	XEROX CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	250
	R&D TOTAL				155,427
AC62	ADAPTIVE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	46
	ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	ADVEC CORP	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	100
	AFL INDUSTRIES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	55
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	135
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	437
	ALLIED SIGNAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	380
	AMPEX CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	75
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	273
	ANALYTICAL SYSTEMS ENGRG CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	392
	ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	1,182
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	1,274
	APPLIED SOLAR ENERGY CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	524
	ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	831
	ATLANTIC AEROSPACE ELECTRONICS	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	60
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	245
	BALL CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	150
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	250
	CONTRACTOR TOTAL				400
	BATTERY INTERNATIONAL INC	Mass	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	242 517

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC62 (CONTINUED)					
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 759
	BELTRAN ASSOCIATES INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	742
	BOEING COMPANY THE	Washington	USAF	RDTE/Electronics & Communication Eq-Explor	50
	BOLT BERANEK & NEWMAN INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Explor	2,655
		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	200
					7,773
					7,973
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	105
	BRIDGEPORT MACHINES INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Explor	78
	C E OPERATIONS & MAINT SVC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	192
	CAD LANGUAGE SYSTEMS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	273
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Electronics & Communication Eq-Explor	153
	CANADIAN COMMERCIAL CORP	CANADA	ARMY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	1,486 435
					1,921
	CENTURY COMPUTING INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	95
	CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	80
	CHIRP CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	CLS LASER SYSTEMS INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	310
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Electronics & Communication Eq-Explor	550
	COMMUNCTIONS TCHNLOGY APPLCTONS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,088
	CONTRAVES GOERZ CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	196

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	CONVEX COMPUTER CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	34
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	139
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	391
	DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	DEFENSE GROUP INC THE	California	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	DIGITAL RADIO CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	602
			NAVY	RDTE/Electronics & Communication Eq-Explor	148
		COUNTRY TOTAL			750
	DIGITAL SYSTEMS GROUP INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	160
	DIGITAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	172
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	148
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	90
	DREXEL UNIVERSITY	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	98
	DYNAMIC MEASUREMENTS CO	Alabama	ARMY	RDTE/Electronics & Communication Eq-Explor	65
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Explor	159
	DYNACORP	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	151
	E I C LABORATORY INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	404
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	716
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	507
	EG&G INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	48
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Electronics & Communication Eq-Explor	867
	ENCORE COMPUTER CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	609

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AC62 (CONTINUED)					
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,210
	EPITAXX INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	ESL INCORPORATED	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,060
	ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	390
	F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	1,212
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,875
		COUNTRY TOTAL			3,087
	FREQUENCY ELECTRONICS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	FUSION SYSTEMS CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	GENERAL ATOMICS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	153
	GENERAL ELECTRIC CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	261
			NAVY	RDTE/Electronics & Communication Eq-Explor	100
		COUNTRY TOTAL			361
		New York	ARMY	RDTE/Electronics & Communication Eq-Explor	175
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,200
			USAF	RDTE/Electronics & Communication Eq-Explor	2,175
		COUNTRY TOTAL			3,550
		Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor	167
	CONTRACTOR TOTAL				4,078
	GENERAL ELECTRONIC SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	GENERAL TECHNICAL SERVICES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	210
	GEO CENTERS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	459
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Electronics & Communication Eq-Explor	2,126
			NAVY	RDTE/Electronics & Communication Eq-Explor	85

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AC62 (CONTINUED)					
			USAF	RDTE/Electronics & Communication Eq-Explor	158
		COUNTRY TOTAL			
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Explor	2,369
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	441
		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	
	HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	2,215
		New York	ARMY	RDTE/Electronics & Communication Eq-Explor	1,160
			ARMY	RDTE/Electronics & Communication Eq-Explor	400
					1,560
		Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	149
	HARTMANN RESEARCH INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	HAZELTINE CORPORATION		NAVY	RDTE/Electronics & Communication Eq-Explor	223
		COUNTRY TOTAL			273
	HECHT NIELSEN NEUROCOMPUTER	California	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	HONEYWELL INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	2,615
			NAVY	RDTE/Electronics & Communication Eq-Explor	337
			USAF	RDTE/Electronics & Communication Eq-Explor	350
		COUNTRY TOTAL			3,302
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	195
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	245
					3,742
		Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	316
	HORRIGAN ANALYTICS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	2,142
			NAVY	RDTE/Electronics & Communication Eq-Explor	522
			USAF	RDTE/Electronics & Communication Eq-Explor	6,475
		COUNTRY TOTAL			9,139
	HUGHES AIRCRAFT COMPANY	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	117

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	CONTRACTOR TOTAL				
	HYCOM INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	9,256
	I MATH ASSOCIATES INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	32
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	INTELLIGENT SYSTEMS DESIGN	Washington	NAVY	RDTE/Electronics & Communication Eq-Explor	471
	INTERNATIONAL BUS MCHS CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	479
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,328
					800
	COUNTRY TOTAL				2,128
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	330
	INTERSPEC INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	374
	ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	814
			NAVY	RDTE/Electronics & Communication Eq-Explor	890
			USAF	RDTE/Electronics & Communication Eq-Explor	100
	COUNTRY TOTAL				1,804
	CONTRACTOR TOTAL				
	J & D SCIENTIFIC INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	300
	J R S RESEARCH LABORATORIES	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	2,104
	K M S FUSION INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	242
	KAMAN SCIENCES CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	40
	KEYSTONE COMPUTER ASSOCIATES	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	L N K CORPORATION	Rhode Isl	NAVY	RDTE/Electronics & Communication Eq-Explor	30
	L N R COMMUNICATIONS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	128
	LASER SYSTEMS LABORATORY	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	498
		California	NAVY	RDTE/Electronics & Communication Eq-Explor	40
					3,095

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	LITTON INDUSTRIES INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	105
	LOCKHEED CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	2,315
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Electronics & Communication Eq-Explor	450
	LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	1,327
	LOGICON INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	196
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Explor	4,065
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	270
	M T L SYSTEMS INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	MAGNAVOX GOVT & INDSTR ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Explor	673
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Explor	650
	CONTRACTOR TOTAL				1,323
	MANATECH ASSOCIATES	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	39
	MARTIN MARIETTA CORPORATION	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	10,961 150
		COUNTRY TOTAL			11,111
	MAXWELL LABORATORIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	783
	MAYFLOWER COMMUNICATION CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	197
	MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	1,686 1,110
		COUNTRY TOTAL			2,796
	MEASUREMENT CONCEPTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	258
	METRATEK INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	METRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	74
	MICRODYNE CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	46

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC62 (CONTINUED)					
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 164
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	244
	MSNW INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	462
	MYK TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	244
	NATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,147
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Explor	296
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	702
	NOISE COM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	83
	NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	265
	NORTHROP CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	424
	OPTIVISION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	595
	OPTRON SYSTEMS INC	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	75 100
	COUNTRY TOTAL				175
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,851
	P C O INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	62
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	PACIFIC MONOLITHICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	80
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	924
	PENN COMPUTER ASSOCIATES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	72
	PENNWALT CORPORATION	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	102
	PERKIN ELMER CORPORATION	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	2,300

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC62 (CONTINUED)					
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	\$ 51
	PIEZO SONA TOOL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	188
	PIEZO TECHNOLOGY INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	231
	PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	1,239
	POLHEMUS NVGTN SCNC INC	Vermont	NAVY	RDTE/Electronics & Communication Eq-Explor	538
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,041
	Q S D INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	501
	QUALCOMM INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	46
	QUANSCAN INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	101
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	500
	RAYO 'AC CORPORATION	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Explor	619
	RAYTHEON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Explor	121
		Mass	ARMY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	372 2,572
	COUNTRY TOTAL				2,944
		Rhode Isl	NAVY	RDTE/Electronics & Communication Eq-Explor	411
	CONTRACTOR TOTAL				3,476
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	240
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	32
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	67 267 522
	COUNTRY TOTAL				856
		Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	41-

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AC62 (CONTINUED)					
	CONTRACTOR TOTAL				
	ROME RESEARCH CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	815
	S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	175
	S S G INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	119
	SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Explor	50
			NAVY	RDTE/Electronics & Communication Eq-Explor	622
					1,001
	COUNTRY TOTAL				1,623
	SCIENCE & ENGINEERING ASSOC	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	131
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	750
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	579
	CONTRACTOR TOTAL				1,329
	SCIENTIFIC ENGINEERING INSTRS	Nevada	NAVY	RDTE/Electronics & Communication Eq-Explor	460
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	244
	SCOPE INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	47
	SEAY THOMAS S INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	26
	SIERRA NEVADA CORPORATION	Nevada	ARMY	RDTE/Electronics & Communication Eq-Explor	480
	SIGPRO SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	71
	SILTRONIX INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	250
	SONETECH CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	SOUTHEASTN CTR ELECTRIC ENG ED	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	212
	SPACE COMPUTER CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	SPARTA INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	900
	SPAKTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	904
	SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	553
	SPIRE CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	1,000
	SRI INTERNATIONAL	California	ARMY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	4,445 100
		COUNTRY TOTAL			4,545
	STANFORD LELAND JUNIOR UNIV	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,090
	STAR MICROWAVE	California	ARMY	RDTE/Electronics & Communication Eq-Explor	325
	SWEET ASSOCIATES LTD	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,174
	T S C INC	California	USAF	RDTE/Electronics & Communication Eq-Explor	337
	TACAN CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	TEAM CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	52
	TEKTRONIX INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	587
		Oregon	NAVY	RDTE/Electronics & Communication Eq-Explor	89
	CONTRACTOR TOTAL				676
	TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	3,281
	TENCO SERVICES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	51
	TESSERA RESEARCH CORP	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	98
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	1,400
	TEXAS INSTRUMENTS ASIA LIMITED	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	645
	TEXAS INSTRUMENTS INCORPORATED	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	33

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AC62 (CONTINUED)

CONTRACTOR TOTAL									
TEXCOM INC		Texas	ARMY	RDTE/Electronics & Communication Eq-Explor				\$	3,445
THINKING MACHINES CORPORATION	Maryland		ARMY	RDTE/Electronics & Communication Eq-Explor					3,478
TIL DEFENSE SYS CNSLT INC	Mass		ARMY	RDTE/Electronics & Communication Eq-Explor					253
TITAN SYSTEMS INC	ISRAEL		ARMY	RDTE/Electronics & Communication Eq-Explor					4,608
TRACOR AEROSPACE INC	California		NAVY	RDTE/Electronics & Communication Eq-Explor					98
TRACTELL INC	Texas		NAVY	RDTE/Electronics & Communication Eq-Explor					563
TRIDENT SYSTEMS INC	Ohio		ARMY	RDTE/Electronics & Communication Eq-Explor					48
TRW INC	Virginia		NAVY	RDTE/Electronics & Communication Eq-Explor					40
	California		ARMY	RDTE/Electronics & Communication Eq-Explor					50
			NAVY	RDTE/Electronics & Communication Eq-Explor					14,927
			NAVY	RDTE/Electronics & Communication Eq-Explor					1,503
	COUNTRY TOTAL								16,430
	Virginia		NAVY	RDTE/Electronics & Communication Eq-Explor					580
									17,010
TRYMER COMPANY THE	Texas		NAVY	RDTE/Electronics & Communication Eq-Explor					50
UNITED TECHNOLOGIES CORP	Conn		ARMY	RDTE/Electronics & Communication Eq-Explor					118
	Florida		NAVY	RDTE/Electronics & Communication Eq-Explor					211
									329
UNIVERSITY OF ALABAMA	Alabama		USAF	RDTE/Electronics & Communication Eq-Explor					205
UNIVERSITY OF CALIFOPNIA	California		ARMY	RDTE/Electronics & Communication Eq-Explor					119
UNIVERSITY OF FLORIDA	Florida		ARMY	RDTE/Electronics & Communication Eq-Explor					345
UNIVERSITY OF MARYLAND	Maryland		ARMY	RDTE/Electronics & Communication Eq-Explor					138
UNIVERSITY OF SOUTHERN CALIF	California		NAVY	RDTE/Electronics & Communication Eq-Explor					40

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AC62 (CONTINUED)					
			USAF	RDTE/Electronics & Communication Eq-Explor	\$
		COUNTRY TOTAL			
	V L S I TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	3,298
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	3,338
			NAVY	RDTE/Electronics & Communication Eq-Explor	528
			NAVY	RDTE/Electronics & Communication Eq-Explor	662
			NAVY	RDTE/Electronics & Communication Eq-Explor	185
		COUNTRY TOTAL			847
	VENTANA SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	160
	VITESSE SEMICONDUCTOR CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	90
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	2,938
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	12,135
			USAF	RDTE/Electronics & Communication Eq-Explor	3,674
		COUNTRY TOTAL			15,809
		Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	37
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	161
					16,007
	WHITTAKER TECHNICAL PRODUCTS	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	180
	XMCO INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	R&D TOTAL				191,502
AC63	A T & T TECHNOLOGIES INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Advanc	1,179
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Advanc	60,346
			USAF	RDTE/Electronics & Communication Eq-Advanc	700
		COUNTRY TOTAL			61,046
		Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	1,264
					63,489
	ABACUS TECH CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	100

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AC63 (CONTINUED)					

ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Advanc	\$ 49
ADVANCED DECISION SYSTEMS	California	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	2,239 197
	COUNTRY TOTAL				2,436
ADVANCED PROJECTS RESEARCH INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	53
ALCOA DEFENSE SYSTEMS INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	707
ALLIED SIGNAL AEROSPACE CO	Maryland	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,014
AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	236
ANALYTIC SCIENCES CORP THE	Mass	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	6,480 761
	COUNTRY TOTAL				7,241
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	748
CONTRACTOR TOTAL					7,989
ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication	Eq-Advanc	99
ANRITSU AMERICA INC	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Advanc	28
ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Advanc	2,091
ATLANTIC AEROSPACE ELECTRONICS	Mass	USAF	RDTE/Electronics & Communication	Eq-Advanc	185
ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc	71
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	262
CONTRACTOR TOTAL					333
AUTOMETRIC INC	Virginia	USAF	RDTE/Electronics & Communication	Eq-Advanc	101
BALL CORPORATION	Colorado	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	227 86
	COUNTRY TOTAL				313

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 190
	BOEING COMPANY THE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	503
		California	NAVY	RDTE/Electronics & Communication Eq-Advanc	08
		Kansas	USAF	RDTE/Electronics & Communication Eq-Advanc	299
		Washington	USAF	RDTE/Electronics & Communication Eq-Advanc	2,185
	CONTRACTOR TOTAL				1,725
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	4,209
		COUNTRY TOTAL			549 43
	BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	592
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	546
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	413
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	1,042
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	201
	COMPUSEC INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	217
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	324
	COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	3,276
	DARTMOUTH COLLEGE	N.H.	USAF	RDTE/Electronics & Communication Eq-Advanc	271
	DATASONICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	62
	DAVID SARNOFF RESEARCH CENTER	California	USAF	RDTE/Electronics & Communication Eq-Advanc	263
	DBA SYSTEMS INC	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,273
		COUNTRY TOTAL			2,192 75
	DCS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,267
					422

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	DELFIN SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	521
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	3,641
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	182
	E SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	13,487
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	250
	EDAL INDUSTRIES INCORPORATED	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	143
	EG&G INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	95
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	120
	ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc	3,096
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	855
	ETM ELECTROMATIC INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	175
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	500
	FORD AEROSPACE COMMCTIONS CORP	Ca.ifornia	USAF	RDTE/Electronics & Communication Eq-Advanc	344
	G E C AVIONICS LTD	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	247
	GATEWAY MODELING INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	70
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	7,939
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	381
	CONTRACTOR TOTAL				8,320
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	252-
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,286
		New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,250
		NAVY	RDTE/Electronics & Communication Eq-Advanc	22,843	
		USAF	RDTE/Electronics & Communication Eq-Advanc	18,526	
	COUNTRY TOTAL				42,619

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL RESEARCH CORPORATION				
	California	USAF		RDTE/Electronics & Communication Eq-Advanc	43,653
	Virginia	USAF		RDTE/Electronics & Communication Eq-Advanc	147
					83
	CONTRACTOR TOTAL				
	GENERAL SIGNAL CORPORATION				
	Maine	USAF		RDTE/Electronics & Communication Eq-Advanc	230
	Georgia	ARMY		RDTE/Electronics & Communication Eq-Advanc	278
	USAF			RDTE/Electronics & Communication Eq-Advanc	1,235
					3,594
	COUNTRY TOTAL				
	California	NAVY		RDTE/Electronics & Communication Eq-Advanc	4,829
	Ohio	NAVY		RDTE/Electronics & Communication Eq-Advanc	1,740
					39
	CONTRACTOR TOTAL				
	GROTON ASSOCIATES				
	Mass	USAF		RDTE/Electronics & Communication Eq-Advanc	1,779
	New York	USAF		RDTE/Electronics & Communication Eq-Advanc	63
	Ohio	USAF		RDTE/Electronics & Communication Eq-Advanc	250
	Florida	ARMY		RDTE/Electronics & Communication Eq-Advanc	220
	USAF			RDTE/Electronics & Communication Eq-Advanc	350
					1,252
	COUNTRY TOTAL				
	New York	ARMY		RDTE/Electronics & Communication Eq-Advanc	1,602
	NAVY			RDTE/Electronics & Communication Eq-Advanc	849
					4,250
	CONTRACTOR TOTAL				
	HAZELTINE CORPORATION				
	New York	ARMY		RDTE/Electronics & Communication Eq-Advanc	5,099
	NAVY			RDTE/Electronics & Communication Eq-Advanc	6,701
					600
					519
					1,169
	COUNTRY TOTAL				
	Arizona	USAF		RDTE/Electronics & Communication Eq-Advanc	2,288
					93
	HONEYWELL INC				

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AC63 (CONTINUED)					
		Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 6,104
		Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	577
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,032
		COUNTRY TOTAL			2,609
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,298
			USAF	RDTE/Electronics & Communication Eq-Advanc	7,616
		COUNTRY TOTAL			8,914
		New Mexico	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,300
					20,020
		California	ARMY	PDTE/Electronics & Communication Eq-Advanc	12,934
			NAVY	RDTE/Electronics & Communication Eq-Advanc	9,670
			USAF	RDTE/Electronics & Communication Eq-Advanc	25,416
		COUNTRY TOTAL			48,020
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	519
					48,539
		California	ARMY	RDTE/Electronics & Communication Eq-Advanc	323
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	3'
		California	USAF	RDTE/Electronics & Communication Eq-Advanc	5,697
		California	NAVY	RDTE/Electronics & Communication Eq-Advanc	312
		Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	1,093
		Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	19,828
		California	USAF	RDTE/Electronics & Communication Eq-Advanc	700
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Advanc	220
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	757
					977
	CONTRACTOR TOTAL				
	HUGHES AIRCRAFT COMPANY				
	CONTRACTOR TOTAL				
	HYCOM INCORPORATED				
	HYDRASEARCH CO INC				
	INNOVATIVE INFORMATION SYS				
	INTEGRATED SYSTEMS ANALYSTS				
	INTERMETRICS INC				
	INTERNATIONAL BUS MCHS CORP				
	IRVINE SENSORS CORPORATION				
	ITT CORPORATION				
	CONTRACTOR TOTAL				

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AC63 (CONTINUED)					
	JAYCOR	D.C.	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 79
	LITTON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	715
		Conn	ARMY	RDTE/Electronics & Communication Eq-Advanc	260
			USAF	RDTE/Electronics & Communication Eq-Advanc	150
	COUNTRY TOTAL				410
	CONTRACTOR TOTAL				1,125
	LOCKHEED CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	400
		Georgia	NAVY	RDTE/Electronics & Communication Eq-Advanc	300
	CONTRACTOR TOTAL				700
	LOCKHEED ELECTRONICS CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	355
			USAF	RDTE/Electronics & Communication Eq-Advanc	590
	COUNTRY TOTAL				945
	LORAL CORPORATION	Arizona	USAF	RDTE/Electronics & Communication Eq-Advanc	533
		California	USAF	RDTE/Electronics & Communication Eq-Advanc	4,794
	CONTRACTOR TOTAL				5,327
	LORAL ELECTRO OPTICAL SYSTEMS	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	45
	LORAL ELECTRONIC SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	200
	LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	65
			USAF	RDTE/Electronics & Communication Eq-Advanc	280
	COUNTRY TOTAL				345
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	564
	M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	532
	M/A-COM INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	118
	MAGNAVOX GOVT & INDSTR ELCTR	Indiana	NAVY	RDTE/Electronics & Communication Eq-Advanc	59
			USAF	RDTE/Electronics & Communication Eq-Advanc	453
	COUNTRY TOTAL				512

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AC63 (CONTINUED)	MARTIN MARIETTA CORPORATION	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	\$ 408 11,355
		COUNTRY TOTAL			11,763
		Illinois	USAF	RDTE/Electronics & Communication Eq-Advanc	400
		Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	102
	CONTRACTOR TOTAL				12,265
	MASSACHUSETTS TECHNOLOGICAL LAB	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	221
	MC DONNELL DOUGLAS CORPORATION	California	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	3,750 346
		COUNTRY TOTAL			4,096
		Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	7,189
	CONTRACTOR TOTAL				11,285
	MEMTECH TECHNOLOGY CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	200
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	60
	MICROWAVE MODULE & DEVICES	California	USAF	RDTE/Electronics & Communication Eq-Advanc	60
	MICROWAVE TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	70
	MINNESOTA MIN & MFG COMPANY	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Advanc	29
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	111
	MOTOROLA INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Advanc	887
	NASA	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	200
	NATIONAL SCIENCE FOUNDATION	D.C.	USAF	RDTE/Electronics & Communication Eq-Advanc	146
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Electronics & Communication Eq-Advanc	99
	NEW ENGLAND RESEARCH CENTER	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	650
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Advanc	860
	NORDEN SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	278

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AC63 (CONTINUED)

	Conn	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	\$ 1,225
CONTRACTOR TOTAL	COUNTRY TOTAL				1,352
NORTHROP CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,630
	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Advanc	79
CONTRACTOR TOTAL					1,874
NUMERIX CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc	382
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	251
CONTRACTOR TOTAL					633
ODYSSEY RESEARCH ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	125
OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	90
ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	289
OPTIMETRICS INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	412
OPTOMEC DESIGN CO INC	New Mexico	NAVY	RDTE/Electronics & Communication	Eq-Advanc	462
ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,272
P E SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	636
PACIFIC SIERRA RESEARCH CORP	California	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	1,296 490
	COUNTRY TOTAL				1,786
PALISADES INST FOR RES SVCS	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	233
PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Electronics & Communication	Eq-Advanc	102
PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,563
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	49

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	QUALCOMM INC		USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 144
		COUNTRY TOTAL			193
	QUEST RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	332
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	729
	QUESTTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	370
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	27
	CONTRACTOR TOTAL				397
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	154
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,500
	COUNTRY TOTAL				2,654
	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	370	
		USAF	RDTE/Electronics & Communication Eq-Advanc	5,094	
	COUNTRY TOTAL				5,464
	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Advanc	292	
				8,410	
	CONTRACTOR TOTAL				100
	RAYTHEON SERVICE COMPANY	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	1,682
	RECON & OPTICAL INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Advanc	186
	RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	49
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Advanc	553
			USAF	RDTE/Electronics & Communication Eq-Advanc	602
	COUNTRY TOTAL				50
	RISBERG POWER ELECTRONICS INC	Wisconsin	NAVY	RDTE/Electronics & Communication Eq-Advanc	4,708
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	100
			NAVY	RDTE/Electronics & Communication Eq-Advanc	3,039
	COUNTRY TOTAL				7,847

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	SAFT AMERICA INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 1,562
	SANDERS ASSOCIATES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	9,409
	SCI TEC INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Advanc	200
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,744-
		California	ARMY	RDTE/Electronics & Communication Eq-Advanc	26
		NAVY	RDTE/Electronics & Communication Eq-Advanc	753	
				268	
	COUNTRY TOTAL				1,021
		D.C.	NAVY	RDTE/Electronics & Communication Eq-Advanc	119
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	100
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	421
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	560
		USAF	RDTE/Electronics & Communication Eq-Advanc	100	
	COUNTRY TOTAL				660
	CONTRACTOR TOTAL				2,321
	SCIENCE RESEARCH LABORATORY	California	USAF	RDTE/Electronics & Communication Eq-Advanc	50
	SCOPE INCORPORATED	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	190
	SEDCO SYSTEMS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	468
	SEMCOR INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	100
	SENSCI CORP	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	211
	SOFTECH INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	1,300
		Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	207
	CONTRACTOR TOTAL				1,507
	SOFTWARE PRDUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	35
	SOFTWARE SYSTEMS ENGINEERING	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	404

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$

AC63 (CONTINUED)

SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Advanc	30
SPARTON ELECTRONICS FLORIDA	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	150
SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Electronics & Communication Eq-Advanc	270
SPIRE CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	50
SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	9,289
STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Electronics & Communication Eq-Advanc	94
T S C INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	571
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc	5,160
		NAVY	RDTE/Electronics & Communication Eq-Advanc	1,000
		USAF	RDTE/Electronics & Communication Eq-Advanc	2,078
COUNTRY TOTAL				8,238
TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	285
TRACOR FLIGHT SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	424
TRICOR SYSTEMS INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Advanc	75
TRITON TECHNOLOGY INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	65
TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,716
		NAVY	RDTE/Electronics & Communication Eq-Advanc	5,028
		USAF	RDTE/Electronics & Communication Eq-Advanc	12,707
COUNTRY TOTAL				19,451
CONTRACTOR TOTAL	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	2,610
UNISYS CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	22,061
	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	45-
	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	370
	Utah	USAF	RDTE/Electronics & Communication Eq-Advanc	1,500
				2,650

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	UNITED STATES DEPT ENERGY	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	4,475
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	50
		Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	125
					400
	CONTRACTOR TOTAL				525
	UNIVERSITY OF KANSAS	Kansas	NAVY	RDTE/Electronics & Communication Eq-Advanc	32
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	385
			USAF	RDTE/Electronics & Communication Eq-Advanc	311-
	COUNTRY TOTAL				74
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	769-
	CONTRACTOR TOTAL				695-
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	472
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	600
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	228
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,640
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,475
	COUNTRY TOTAL				9,115
		Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	130
	CONTRACTOR TOTAL				9,245
	XETRON CORPORATION	Ohio	ARMY	RDTE/Electronics & Communication Eq-Advanc	70
	R&D TOTAL				417,562
	AC64 A A I CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	260
	A T & T TECHNOLOGIES INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	10,196
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	105,919

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					

CONTRACTOR TOTAL

ADVANCED TECHNOLOGY INC	Rhode Isl	NAVY	RDTE/Electronics & Communication	Eq-Engr D	\$ 116,115
AEL INDUSTRIES INC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Engr D	40
AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication	Eq-Engr D	68
AHNTech INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	248
ALLIED SIGNAL AEROSPACE CO	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Engr D	1,939
		NAVY	RDTE/Electronics & Communication	Eq-Engr D	60
		USAF	RDTE/Electronics & Communication	Eq-Engr D	1,910
			RDTE/Electronics & Communication	Eq-Engr D	47,754
	COUNTRY TOTAL				49,724

AMERICAN ELECTRONICS INC

AMERICAN SYSTEMS CORPORATION

	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Engr D	483
	Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D	2,147
	Virginia	USAF	RDTE/Electronics & Communication	Eq-Engr D	6,764

CONTRACTOR TOTAL

ANALYSIS & COMPUTER SYSTEMS

	Mass	ARMY	RDTE/Electronics & Communication	Eq-Engr D	8,911
		USAF	RDTE/Electronics & Communication	Eq-Engr D	3,950
					799

COUNTRY TOTAL

	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Engr D	4,749
	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D	2,180

ANDRULIS RESEARCH CORP

ASTRON CORPORATION

AYDIN CORPORATION

BDM INTERNATIONAL INC

BOEING COMPANY THE

	Penn	USAF	RDTE/Electronics & Communication	Eq-Engr D	68
	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Engr D	566
	Kansas	USAF	RDTE/Electronics & Communication	Eq-Engr D	98
	Washington	USAF	RDTE/Electronics & Communication	Eq-Engr D	774

COUNTRY TOTAL

					95,138
					71,483
					166,621
					167,395

CONTRACTOR TOTAL

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AC64 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	53
		Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,638
	CONTRACTOR TOTAL				1,691
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	162
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	400
	CONTRACTOR TOTAL				562
	BRIMROSE CORP OF AMERICA	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	150
	C E OPERATIONS & MAINT SVC INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	15,507
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	9,817
	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Electronics & Communication Eq-Engr D	59
			USAF	RDTE/Electronics & Communication Eq-Engr D	311
	COUNTRY TOTAL				370
	COLLINS INTERNATIONAL SVC CO	Iowa	NAVY	RDTE/Electronics & Communication Eq-Engr D	53-
			USAF	RDTE/Electronics & Communication Eq-Engr D	158
	COUNTRY TOTAL				105
	COMARCO INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	9,803
	COMMAND CTRL COMMUNICATIONS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	307
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	264
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,935
			USAF	RDTE/Electronics & Communication Eq-Engr D	8,202
	COUNTRY TOTAL				11,137
	CONTRACTOR TOTAL				11,401
	CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	13,787
			USAF	RDTE/Electronics & Communication Eq-Engr D	2,016
	COUNTRY TOTAL				15,803
	CRC SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	CTS CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	395
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,260
	DATRON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D	230
	DYNETICS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	1,315
	E SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	11,694
		Utah	ARMY	RDTE/Electronics & Communication Eq-Engr D	940
	CONTRACTOR TOTAL				12,634
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,058
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	200
			NAVY	RDTE/Electronics & Communication Eq-Engr D	7,609
	CONTRACTOR TOTAL				7,809
	EDO CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,256
	EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,248
	ELECTRONIC WARFARE ASSOCIATES	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	185
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	50
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	4,103
	FORD AEROSPACE COMMCTIONS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	349
			USAF	RDTE/Electronics & Communication Eq-Engr D	93,827
	CONTRACTOR TOTAL				94,176
		Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	32,353
	CONTRACTOR TOTAL				126,529
	FOSTER MILLER INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	500
	G T E LABORATORIES INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	70
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	13,140

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AC64 (CONTINUED)					
	GENERAL ELECTRIC CO	Alabama	ARMY	RDTE/Electronics & Communication Eq-Engr D	\$ 2,360
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	16,550
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	56,820
			USAF	RDTE/Electronics & Communication Eq-Engr D	93-
	COUNTRY TOTAL				56,727
		Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,000
	CONTRACTOR TOTAL				77,637
	GENERAL INSTRUMENT CORP DEL	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	5,653
	GEODYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D	115
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,217
			USAF	RDTE/Electronics & Communication Eq-Engr D	859
	COUNTRY TOTAL				2,076
	GRUMMAN AEROSPACE CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	32,862
		New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,052
			NAVY	RDTE/Electronics & Communication Eq-Engr D	12,791
			USAF	RDTE/Electronics & Communication Eq-Engr D	142,162
	COUNTRY TOTAL				156,005
	CONTRACTOR TOTAL				188,867
	GRUMMAN DATA SYSTEMS CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	8,405
	GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,666
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	130
	CONTRACTOR TOTAL				2,796
	HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,637
			USAF	RDTE/Electronics & Communication Eq-Engr D	18,112
	COUNTRY TOTAL				19,749

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AC64 (CONTINUED)					
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,771
	HEWLETT PACKARD COMPANY	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	157
	HONEYWELL INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,150
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	3,813
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	8,545
			NAVY	RDTE/Electronics & Communication Eq-Engr D	1,060
			USAF	RDTE/Electronics & Communication Eq-Engr D	2,272
	COUNTRY TOTAL				11,877
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	400
	CONTRACTOR TOTAL				12,277
	I I T RESEARCH INSTITUTE	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	6,851
	I L C DATA DEVICE CORP DEL	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	49
	I M R SYSTEMS CORPORATION	Kansas	ARMY	RDTE/Electronics & Communication Eq-Engr D	301
	I W G CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	57
	INDUSTRIAL DATA LINK CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	57
	INTERMETRICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	3,400
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	33
	CONTRACTOR TOTAL				3,433
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	1,847
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D	28
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	92,025
	CONTRACTOR TOTAL				93,900
	INTERSTATE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	21,752
	ISRAEL AIRCRAFT INDUSTRIES	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Engr D	11,851
	ITT CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	17,946

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AC64 (CONTINUED)

CONTRACTOR TOTAL				
K M S FUSION INC	Indiana	ARMY	RDTE/Electronics & Communication Eq-Engr D	7,372
KAMAN AEROSPACE CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	2,179
KAPOS ASSOCIATES INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	30
KEARFOTT GUIDANCE NAVIG CORP	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	614
				28,141
COUNTRY TOTAL				
K M S FUSION INC	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	600
KAMAN AEROSPACE CORPORATION	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,994
KAPOS ASSOCIATES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	212
KEARFOTT GUIDANCE NAVIG CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	97
		NAVY	RDTE/Electronics & Communication Eq-Engr D	15,323
		USAF	RDTE/Electronics & Communication Eq-Engr D	41,156
				56,576
COUNTRY TOTAL				
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	59
LEXIKOS CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	535
LITTON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,537
	Conn	USAF	RDTE/Electronics & Communication Eq-Engr D	50
				2,587
CONTRACTOR TOTAL				
LOCKHEED CORPORATION	N.H.	USAF	RDTE/Electronics & Communication Eq-Engr D	42,453
LOCKHEED MISSILES & SPACE CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,507
LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	64
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	253
				317
CONTRACTOR TOTAL				
LOGICON INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D	4,798
LORAL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D	2,063

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AC64 (CONTINUED)					
	LORAL ELECTRONIC SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 7,467
	LORAL FAIRCHILD SYSTEMS INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	6,772
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	1,422-
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	77
	M/A COM LINKABIT INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	7,918
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	399
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	6,198 392
		COUNTRY TOTAL			6,590
	MANAGEMENT CONSULTING & RES	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	83
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Engr D	15,145
		Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D	4,304
					13,449
	CONTRACTOR TOTAL				707
	MC DONNELL DOUGLAS CORPORATION	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	5,906
		Missouri	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	5,547
		COUNTRY TOTAL			11,453
					12,190
	CONTRACTOR TOTAL				4-
	METRIC SYSTEMS CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	161
	MICRO COMPUTER SYSTEM INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	MICROWAVE RADIO CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	12,554
	MOTOROLA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	3,287
	NATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	913
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Engr D	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Engr D	281
	NEWPORT NEWS SHPBLDG DRYDOCK	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	563
	NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	362
	NORTHEAN TELECOM INC DEL	Georgia	USAF	RDTE/Electronics & Communication Eq-Engr D	108
	NORTHROP CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D	300
		Illinois	USAF	RDTE/Electronics & Communication Eq-Engr D	879
		Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	698
	CONTRACTOR TOTAL				1,877
	OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	711
	ORKAND CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	60
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	57
	PERCEPTONICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	350
	PERKIN ELMER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,000
	PLANNING RESEARCH CORPORATION	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	289
	PLANNING SYSTEMS INCORPORATED	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	PLESSEY DYNAMICS CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	5,199
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	150
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,686
	QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	515
	R & D ASSOCIATES	Washington	ARMY	RDTE/Electronics & Communication Eq-Engr D	93
	RAVEN CONSTRUCTION NORTHERN	FRANCE	ARMY	RDTE/Electronics & Communication Eq-Engr D	767
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	250
			NAVY	RDTE/Electronics & Communication Eq-Engr D	1,161

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AC64 (CONTINUED)					
		COUNTRY TOTAL			\$
		Mass	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D
		COUNTRY TOTAL			1,411
		Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D
		Virginia	USAF	RDTE/Electronics & Communication	Eq-Engr D
		California	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D
		COUNTRY TOTAL			31-
		Texas	NAVY	RDTE/Electronics & Communication	Eq-Engr D
		COUNTRY TOTAL			525
		D.C.	NAVY	RDTE/Electronics & Communication	Eq-Engr D
		N.H.	NAVY	RDTE/Electronics & Communication	Eq-Engr D
		Michigan	USAF	RDTE/Electronics & Communication	Eq-Engr D
		Mass	NAVY	RDTE/Electronics & Communication	Eq-Engr D
		Alabama	USAF	RDTE/Electronics & Communication	Eq-Engr D
		California	NAVY	RDTE/Electronics & Communication	Eq-Engr D
		Ohio	USAF	RDTE/Electronics & Communication	Eq-Engr D
		Virginia	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D
		COUNTRY TOTAL			2,973
		COUNTRY TOTAL			200
		COUNTRY TOTAL			754 89-
		COUNTRY TOTAL			665
		Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D
		COUNTRY TOTAL			4,174
		COUNTRY TOTAL			1,942

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$

AC64 (CONTINUED)

SIERRA MONOLITHICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
SIERRA RESEARCH ENGRG CORP	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	642
SINGER COMPANY THE	California	USAF	RDTE/Electronics & Communication Eq-Engr D	50
SIPPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,066
SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	19,201
SPARTA INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D	217
	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	1,731
CONTRACTOR TOTAL				1,948
SPARTON CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	6,694
	Michigan	NAVY	RDTE/Electronics & Communication Eq-Engr D	619
CONTRACTOR TOTAL				7,313
SPERRY CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	2,860
SRI INTERNATIONAL	California	USAF	RDTE/Electronics & Communication Eq-Engr D	61
STANFORD TELECOMMUNICATIONS	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	577
		USAF	RDTE/Electronics & Communication Eq-Engr D	5,069
COUNTRY TOTAL				5,646
SUMARIA SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,805
SUMMIT TECHNOLOGIES INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,025
SYNDETIX INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Engr D	150
SYSTEM DEVELOPMENT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,897
SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,838-
SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	230
TECHDYN SYSTEMS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	1,801

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC64 (CONTINUED)

TECHNOLOGY COMMUNCATN INTL	California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	\$ 329
TECOLOTE RESEARCH INC	Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D	150
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	612
TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Electronics & Communication	Eq-Engr D	2,897
		USAF	RDTE/Electronics & Communication	Eq-Engr D	999
	COUNTRY TOTAL				3,896
TEXTRON INC	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	1,497
TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	467
TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	62
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Electronics & Communication	Eq-Engr D	50
	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Engr D	127
	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	16,494
	COUNTRY TOTAL				16,671
TRW INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	253
		USAF	RDTE/Electronics & Communication	Eq-Engr D	45,403
	COUNTRY TOTAL				45,656
U T L CORPORATION	Texas	ARMY	RDTE/Electronics & Communication	Eq-Engr D	441
UNISYS CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	250
	Minnesota	NAVY	RDTE/Electronics & Communication	Eq-Engr D	2,747
	COUNTRY TOTAL				2,997
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Engr D	199
VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	30
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Engr D	85
	COUNTRY TOTAL				115

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 990
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	664
	WATKINS JOHNSON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	15,402
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	6,500
			NAVY	RDTE/Electronics & Communication Eq-Engr D	2,759
			USAF	RDTE/Electronics & Communication Eq-Engr D	1,795
	COUNTRY TOTAL				11,054
	XETRON CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	674
	ZETA DATA INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	931
	R&D TOTAL				1,527,365
AC65	A T & T TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	233
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,178
	CONTRACTOR TOTAL				2,411
	ADAPTIVE SENSORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	50
	ADVANCE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,170
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	900
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	603
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	665
	AIITECH DEFENSE SYS INC	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Op Sys	85
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Op Sys	992
	ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,059
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	424
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	182
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	296
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,986

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$

AC65 (CONTINUED)

CONTRACTOR TOTAL					
AUTOMETRIC INC	Penn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,212
BBN SYSTEMS & TECHNOLOGIES	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys	4,494
BDM INTERNATIONAL INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	197
	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Op Sys	294
	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	1,521
					140
CONTRACTOR TOTAL					
BOEING COMPANY THE	Washington	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,661
BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	39
BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	5,404
	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	36-
					894
CONTRACTOR TOTAL					
BRUNSWICK CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	858
C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Op Sys	1,415
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	655
CINCINNATI ELECTRONICS CORP	Ohio	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	11,188
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	7,619
		USAF	RDTE/Electronics & Communication	Eq-Op Sys	587-
					75,700
COUNTRY TOTAL					
	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys	75,113
					50,734
CONTRACTOR TOTAL					
COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	125,847
COMTEK RESEARCH INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,202
					900

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC65 (CONTINUED)

COMPUTER CORPORATION AMERICA	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	\$ 127
COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	28,232
	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	265
CONTRACTOR TOTAL					28,497
COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	73
CONTRAVES GOERZ CORPORATION	Mass	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	250
CONVEX COMPUTER CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	500
CUBIC COMMUNICATIONS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	660
DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	152
DBA SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication	Eq-Op Sys	380
DESIGN ENGINEERING INC	New Mexico	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	28
DOSS AVIATION INC	Texas	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	3,276
DRAGON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	435
E C CORPORATION OF OAK RIDGE	Kentucky	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	1,436
ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys	350-
ENCORE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	2,360
ENGINEERING & ECONOMICS RES	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	771
ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	200
ESL INCORPORATED	N Carolina	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	110
EVALUATION RESEARCH CORP	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	2,873
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	400
FORD AEROSPACE COMMCTIONS CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	190
	Colorado	USAF	RDTE/Electronics & Communication	Eq-Op Sys	1,081-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC65 (CONTINUED)					

CONTRACTOR TOTAL					\$	9,983
GALAXY SCIENTIFIC CORP	Kansas	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		
	KOREA, REP	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		159
GENERAL DYNAMICS CORPORATION						9,251
GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys		85
	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		227-
CONTRACTOR TOTAL	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys		10,362
	Mass	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		10,135
GEORGIA TECH RESEARCH INST	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		3,760
	New York	USAF	RDTE/Electronics & Communication	Eq-Op Sys		59-
GRUMMAN AEROSPACE CORPORATION	Penn	USAF	RDTE/Electronics & Communication	Eq-Op Sys		370-
	Georgia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		2,594
GTE GOVERNMENT SYSTEMS CORP	NAVY	NAVY	RDTE/Electronics & Communication	Eq-Op Sys		5,925
	COUNTRY TOTAL					1,096
HARRIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication	Eq-Op Sys		90
	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		1,186
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		3,800
	NAVY	NAVY	RDTE/Electronics & Communication	Eq-Op Sys		81
CONTRACTOR TOTAL	COUNTRY TOTAL					3,144
						937
HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication	Eq-Op Sys		58,690
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys		62,771
HARVARD UNIVERSITY	COUNTRY TOTAL					62,852
						2,510
CONTRACTOR TOTAL						666

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

HONEYWELL INC	CONTRACTOR TOTAL	FLORIDA	USAF	RDTE/Electronics & Communication	Eq-Op	Sys	\$	88
		Minnesota	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		729
		New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		5,643
								6,460
		California	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		801
		Penn	USAF	RDTE/Electronics & Communication	Eq-Op	Sys		67
		California	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		2,206
			NAVY	RDTE/Electronics & Communication	Eq-Op	Sys		15,496
		COUNTRY TOTAL						17,702
		Illinois	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		67
								17,769
		Illinois	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		100
		California	USAF	RDTE/Electronics & Communication	Eq-Op	Sys		270
		Mass	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		468
		Florida	USAF	RDTE/Electronics & Communication	Eq-Op	Sys		768
		Hawaii	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		45
		Maryland	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys		332
			USAF	RDTE/Electronics & Communication	Eq-Op	Sys		10,331
		COUNTRY TOTAL						10,663
		New York	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys		700
			USAF	RDTE/Electronics & Communication	Eq-Op	Sys		27-
		COUNTRY TOTAL						673
		Oklahoma	USAF	RDTE/Electronics & Communication	Eq-Op	Sys		69
		COUNTRY TOTAL						12,218

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AC65 (CONTINUED)					
	ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	496
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	147
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	91,795
			USAF	RDTE/Electronics & Communication Eq-Op Sys	15,063
		COUNTRY TOTAL			107,005
					107,501
	CONTRACTOR TOTAL				493
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	35
	KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	474
	KESTREL INSTITUTE	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	100
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,729
	LITTON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	212,484
		Colorado	NAVY	RDTE/Electronics & Communication Eq-Op Sys	215,213
	CONTRACTOR TOTAL				9,971
	LOCKHEED CORPORATION	Georgia	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,493
	LOGICON INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	145
	M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	2,000
	MAGNAVOX GOVT & INDSTR ELCTR	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	92
	MAGNAVOX OVERSEAS LTD	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,323
	MANTECH INTERNATIONAL CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	37-
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	190
	MASSACHSETTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,257
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Op Sys	13,886
	MILTOPE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	218
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	180-
	NORDEN SYSTEMS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Op Sys	

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AC65 (CONTINUED)

P C O INC	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	\$ 74
PACER SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	557
PAR GOVT SYSTEMS CORP	New York	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	33
PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	44
PENNSYLVANIA STATE UNIV THE	Penn	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	70
		NAVY	RDTE/Electronics & Communication	Eq-Op Sys	46,743
	COUNTRY TOTAL				46,813
PENNWALT CORPORATION	Penn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	119
PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	672
QUANTITATIVE INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	222
RAYTHEON COMPANY	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	6,859
		USAF	RDTE/Electronics & Communication	Eq-Op Sys	63,998
	COUNTRY TOTAL				70,857
RESEARCH & DEV LABORATORIES	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	165
RICOH CORPORATION	Virginia	USAF	RDTE/Electronics & Communication	Eq-Op Sys	115-
RMS TECHNOLOGIES INCORPORATED	Penn	USAF	RDTE/Electronics & Communication	Eq-Op Sys	4,270
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,266
	Iowa	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,983
	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys	1,721-
CONTRACTOR TOTAL					3,528
SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	373
SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	73
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	4,918
	Virginia	USAF	RDTE/Electronics & Communication	Eq-Op Sys	418

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC65 (CONTINUED)

CONTRACTOR TOTAL					\$
SCIENTIFIC ATLANTA INC	Georgia	USAF	RDTE/Electronics & Communication	Eq-Op Sys	5,336
SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	777
SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	425
SINGER COMPANY THE	Oklahoma	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	518
SONALYSTS INC	Conn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3
SONICRAFT INC	Illinois	USAF	RDTE/Electronics & Communication	Eq-Op Sys	220
SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	524-
SPERRY CORPORATION	New York	USAF	RDTE/Electronics & Communication	Eq-Op Sys	260
SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	500
		NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,250
			RDTE/Electronics & Communication	Eq-Op Sys	1,284
					2,534
COUNTRY TOTAL					
STANFORD LELAND JUNIOR UNIV	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,945
SYSCON CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	2,245
SYSTEM DEVELOPMENT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	230
SYSTEM RESOURCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	1,369
SYSTEMS INTEGRATION & DEV INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	258
TECHDYN SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	26
TECHNOLOGY COMMUNCATN INTL	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	96
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	92
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	4,736
		NAVY	RDTE/Electronics & Communication	Eq-Op Sys	611
		USAF	RDTE/Electronics & Communication	Eq-Op Sys	291
COUNTRY TOTAL					5,638

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC65 (CONTINUED)					
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	\$ 96
	TRW INC	California	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	33,652 18,112
		COUNTRY TOTAL			51,764
	UNISYS CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	10,208
		New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	343
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	770
	CONT'ACTOR TOTAL				11,321
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Op Sys	882
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,595
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	270
	VARIAN ASSOCIATES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	28
	WANG LABORATORIES INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	290
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	65 39-
		COUNTRY TOTAL			26
	WILSON HILL ASSOCIATES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	187
	R&D TOTAL				919,321
AC66	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	399
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	191
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	186
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	300
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	75
	AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	134
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	59

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC66 (CONTINUED)					
	APTEK INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	48
	ARGOTEC INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	1,063
	ATEAM CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	128
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	52
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	ATLANTIC RESEARCH CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	30
	BDM INTERNATIONAL INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &	944
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &	1,823
	CONTRACTOR TOTAL				2,767
	BLOOM E J ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	100
	13CM TST ENGR	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	3,378
	CASCADE MICROTECH INC	Oregon	USAF	RDTE/Electronics & Communication Eq-Mgmt &	399
	CENTRA TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	CHANG INDUSTRY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	150
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	101
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	302
	CYNETICS CORPORATION	S Dakota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	59
	DCS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Mgmt &	49
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	100
	DOUGLAS MUSTER & ASSOC INC	Texas	USAF	RDTE/Electronics & Communication Eq-Mgmt &	43
	DYNAMET TECHNOLOGY INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	49
	E TEK DYNAMICS INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	449
	ELCEE COMPUTEK INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &	48

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	193
	ENGINEERING MGMT RESOURCES	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	FOSTER MILLER INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	323
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	233
	GENERAL SIGNAL CONTROLS INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	31
	GLYNN SCIENTIFIC INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	470
	GT-TECH INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	53
	HADRON INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	2,029
	HEWLETT PACKARD COMPANY	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	111
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	81
	INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	250
	INFORMTION SYSTEMS PLG ANALYSIS	Georgia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	38
	INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &	399
	INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	211
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	112
	K V H INDUSTRIES INC	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	KTECH CORPORATION	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &	67
	L N K CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	70
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	LISAN CORPORATION	D.C.	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	51
	LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	83
	LOGICON INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &	328

AC66 (CONTINUED)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AC66 (CONTINUED)						
	M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	\$	3,700
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		500
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		25
	CONTRACTOR TOTAL					525
	MONTEREY TECH	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		47
	NIMBLE COMPUTER CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		58
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		99
	PLANNING RESEARCH CORPORATION	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &		105
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
	POLYTRONIX INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
	PRT CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &		495
	Q DOT INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		47
	QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		140
	RADCON	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		268
	RAMSEARCH CO	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		300
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		195
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		85
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		150
	SCIENCE & TECHNOLOGY CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		233
	SCIENCE APPLICATIONS INTL CORP	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		777
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		1,178

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AC66 (CONTINUED)						
	CONTRACTOR TOTAL					
	SILHOUETTE TECHNOLOGY INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$	95
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		1,273
	SOFTWELL ASSOCIATES INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Mgmt &		2,050
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		48
	SPACE COMPUTER CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		48
	SRS TECHNOLOGIES	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		303
	STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &		683
	SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		399
	SYNETICS CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
	TACAN CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		6,844
	TAU CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		349
	TAWD SYSTEMS INCORPORATED	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		190
	TECH TEAM INC	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		100
	TECHNICAL RESEARCH ASSOCIATES	Utah	USAF	RDTE/Electronics & Communication Eq-Mgmt &		403
	TEKTRONIX INC	Maine	USAF	RDTE/Electronics & Communication Eq-Mgmt &		580
	TRW INC	Oregon	USAF	RDTE/Electronics & Communication Eq-Mgmt &		145
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		122
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		47
						74
						1,619
						6,149
						7,768
	COUNTRY TOTAL					
	U F A INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &		170
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &		250

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC66 (CONTINUED)					
	VANCE SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 350
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	35
	VEDA INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	30
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	WELTRON	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	320
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	3,110
	WILSON HILL ASSOCIATES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	163
	R&D TOTAL				47,424
AC91	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	565
	CHAMBERLAIN MANUFACTURING CORP	Illinois	NAVY	RDTE/Misc Hard Goods-Basic Research	35
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Misc Hard Goods-Basic Research	50
	INSTRUMENTS INC	California	NAVY	RDTE/Misc Hard Goods-Basic Research	77
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Misc Hard Goods-Basic Research	280
	MANDEX INC	Virginia	NAVY	RDTE/Misc Hard Goods-Basic Research	448
	NATIONAL EAGLE LEASING	D.C.	NAVY	RDTE/Misc Hard Goods-Basic Research	62
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Misc Hard Goods-Basic Research	38
	SRI INTERNATIONAL	California	USAF	RDTE/Misc Hard Goods-Basic Research	100
	SYSTEMS ENGRG & MGT COMPANY	Ohio	USAF	RDTE/Misc Hard Goods-Basic Research	160
	TRANSTECHNOLOGY CORPORATION	New Jersey	ARMY	RDTE/Misc Hard Goods-Basic Research	43
	R&D TOTAL				1,858
AC92	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Misc Hard Goods-Exploratory Developme	54-
	CLAMSHELL BUILDINGS INC	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	498
	DYNATECH CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	75

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AC92 (CONTINUED)

FERRANTI COMPUTER SYSTEMS LTD	UNITED KIN	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	\$ 157
GENERAL ELECTRIC CO	Ohio	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	3,118
HARRIS CORPORATION	Florida	USAF	RDTE/Misc	Hard Goods-Exploratory Developme	575
HONEYWELL INC	Minnesota	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	503
		USAF	RDTE/Misc	Hard Goods-Exploratory Developme	50
	COUNTRY TOTAL				553
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	407
LOCUS INC	Penn	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	519
MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	216
OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	449
SRI INTERNATIONAL	California	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	255
STANFORD LELAND JUNIOR UNIV	California	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	89
UNIV MIT	Mass	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	180
UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Misc	Hard Goods-Exploratory Developme	123
R&D TOTAL					7,160
AC93 DISPLAYTECH INC	Colorado	NAVY	RDTE/Misc	Hard Goods-Advanced Development	93
E G & G WASHINGTON ALALYTL SVC	Virginia	NAVY	RDTE/Misc	Hard Goods-Advanced Development	2,827
KECO INDUSTRIES INC	Kentucky	ARMY	RDTE/Misc	Hard Goods-Advanced Development	252
LOCKHEED ENGRG & MGT SVCS CO	Utah	ARMY	RDTE/Misc	Hard Goods-Advanced Development	2,400
LORAL CORPORATION	Arizona	ARMY	RDTE/Misc	Hard Goods-Advanced Development	143
M/A-COM INC	Mass	ARMY	RDTE/Misc	Hard Goods-Advanced Development	154
MOTOROLA INC	Arizona	NAVY	RDTE/Misc	Hard Goods-Advanced Development	468
NOAH HOWDEN INC	California	ARMY	RDTE/Misc	Hard Goods-Advanced Development	41

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC93 (CONTINUED)					
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Misc Hard Goods-Advanced Development	125
	S S G INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	100
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Misc Hard Goods-Advanced Development	201
	SCIPAR INCORPORATED	New York	USAF	RDTE/Misc Hard Goods-Advanced Development	70
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Misc Hard Goods-Advanced Development	152
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Misc Hard Goods-Advanced Development	29
	UNISYS CORPORATION	Utah	USAF	RDTE/Misc Hard Goods-Advanced Development	47
	R&D TOTAL				7,102
AC94	A A I CORPORATION	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	2,187
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Engr Development	211
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Misc Hard Goods-Engr Development	290
	CARTWRIGHT ELECTRONICS INC	Arkansas	NAVY	RDTE/Misc Hard Goods-Engr Development	25
	CONTRACTOR TOTAL	California	NAVY	RDTE/Misc Hard Goods-Engr Development	1,678
	CREARE RESEARCH & DEVELOPMENT	N.H.	NAVY	RDTE/Misc Hard Goods-Engr Development	1,703
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	49
	GENERAL DYNAMICS WESTNGHSE JV	California	NAVY	RDTE/Misc Hard Goods-Engr Development	267
	GENERAL ELECTRIC CO	Alabama	NAVY	RDTE/Misc Hard Goods-Engr Development	5,800
	CONTRACTOR TOTAL	Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	62,300
	HARSCO CORPORATION	Penn	ARMY	RDTE/Misc Hard Goods-Engr Development	9,294
	I L C INDUSTRIES DELAWARE	Delaware	ARMY USAF	RDTE/Misc Hard Goods-Engr Development	71,594
					292
					854
					33

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AC94 (CONTINUED)

CONTRACTOR TOTAL		COUNTRY TOTAL		
				\$
K V H INDUSTRIES INC	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	887
LOCKHEED MISSILES & SPACE CO	Rhode Isl	NAVY	RDTE/Misc Hard Goods-Engr Development	554
MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Misc Hard Goods-Engr Development	1,441
MODERN TECHNOLOGIES CORP	Missouri	NAVY	RDTE/Misc Hard Goods-Engr Development	242
MULTI ELECTRIC MFG INC	Ohio	USAF	RDTE/Misc Hard Goods-Engr Development	50
PACCAR INC	Illinois	USAF	RDTE/Misc Hard Goods-Engr Development	35,730
PACER SYSTEMS INC	Washington	USAF	RDTE/Misc Hard Goods-Engr Development	56
SUNOL SCIENCES CORP	Penn	USAF	RDTE/Misc Hard Goods-Engr Development	1,886
SYSTEMS ENGRG & MGT COMPANY	California	NAVY	RDTE/Misc Hard Goods-Engr Development	1,710
TELEDYNE INDUSTRIES INC	Ohio	NAVY	RDTE/Misc Hard Goods-Engr Development	40
TVI CORPORATION	Alabama	USAF	RDTE/Misc Hard Goods-Engr Development	250
UK MINDEF	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	1,028
UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Misc Hard Goods-Engr Development	744
	UNITED KIN	NAVY	RDTE/Misc Hard Goods-Engr Development	325
R&D TOTAL				68
AC95 ANDRULIS RESEARCH CORP	Utah	NAVY	RDTE/Misc Hard Goods-Engr Development	4,735
BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Misc Hard Goods-Engr Development	130,698
BUNDESAMT FUER WEHRTECHNIK	GERMANY, F	ARMY	RDTE/Misc Hard Goods-Op Systems Developmen	2,006
C & M TECHNOLOGY INC	Conn	USAF	RDTE/Misc Hard Goods-Op Systems Developmen	201
DYNAIR ELECTRONICS INC	California	ARMY	RDTE/Misc Hard Goods-Op Systems Developmen	127-
ELECTRO COMMUNICATION SYSTEMS	Texas	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	290
				30
				35

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AC95 (CONTINUED)						
	FEDERAL TECHNOLOGY CORP	Penn	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	\$ 31
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Misc	Hard Goods-Op Systems Developmen	100
	MNEMONICS INC	Florida	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	1,655
	NIGHT VISIONS SYS INC	Florida	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	86
	NORDIC AERO INC	California	USAF	RDTE/Misc	Hard Goods-Op Systems Developmen	68
	RALOID CORPORATION	Maryland	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	1,285
	ROWE DEINES INSTRUMENTS INC	California	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	110
	TERABIT COMPUTER ENGINEERING	Utah	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	31
	WYLE LABORATORIES	California	USAF	RDTE/Misc	Hard Goods-Op Systems Developmen	202
	R&D TOTAL					6,003
AC96	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Misc	Hard Goods-Mgmt & Support	1,491
	FIRESTONE INC	Ohio	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	76
	MOLTEN SALT TECHNOLOGY INC	Tennessee	USAF	RDTE/Misc	Hard Goods-Mgmt & Support	400
	OPTIVISION INC	California	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	50
	PERFECT VIEW INC	N Carolina	USAF	RDTE/Misc	Hard Goods-Mgmt & Support	101
	PHYSICAL DYNAMICS INC	California	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	49
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Misc	Hard Goods-Mgmt & Support	675
	STRAINOPTIC TECHNOLOGIES INC	Penn	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	50
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	1,175
	VISTA SCIENTIFIC CORPORATION	Penn	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	110
	WYLE LABORATORIES	California	USAF	RDTE/Misc	Hard Goods-Mgmt & Support	308
	R&D TOTAL					4,485
AD11	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Basic Research		91

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AD11 (CONTINUED)					
		COUNTRY TOTAL	USAF	RDTE/Ammunition-Basic Research	\$ 447
	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Ammunition-Basic Research	538
	COBRO CORPORATION	Missouri	ARMY	RDTE/Ammunition-Basic Research	285
	GEO CENTERS INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	132
	HERCULES INCORPORATED	W Virginia	USAF	RDTE/Ammunition-Basic Research	698
	MITECH INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	89
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Ammunition-Basic Research	48
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	43
	SCOT INCORPORATED	Illinois	USAF	RDTE/Ammunition-Basic Research	503
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Ammunition-Basic Research	170
	THIOKOL CORPORATION	Utah	NAVY	RDTE/Ammunition-Basic Research	243
	VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Ammunition-Basic Research	201
		COUNTRY TOTAL	NAVY	RDTE/Ammunition-Basic Research	50
			USAF	RDTE/Ammunition-Basic Research	50
					100
R&D TOTAL					3,050
AD12	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Exploratory Development	2,530
	AEROJET	California	ARMY	RDTE/Ammunition-Exploratory Development	330
	ASP CONSORTIUM	California	ARMY	RDTE/Ammunition-Exploratory Development	9,088
	AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Exploratory Development	763
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Ammunition-Exploratory Development	323
	BOEING COMPANY THE	Washington	USAF	RDTE/Ammunition-Exploratory Development	290
	CALSPAN CORPORATION	New York	USAF	RDTE/Ammunition-Exploratory Development	375
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Ammunition-Exploratory Development	244

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD12 (CONTINUED)					
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Ammunition-Exploratory Development	290
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Exploratory Development	311
	GIRINDUS CORP	GERMANY, F	NAVY	RDTE/Ammunition-Exploratory Development	148
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Exploratory Development	2,467
	MAXWELL LABORATORIES INC	California	NAVY	RDTE/Ammunition-Exploratory Development	850
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Ammunition-Exploratory Development	296
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Ammunition-Exploratory Development	400
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ammunition-Exploratory Development	250
	OLIN CORPORATION	Conn	NAVY	RDTE/Ammunition-Exploratory Development	697
		Illinois	ARMY	RDTE/Ammunition-Exploratory Development	736
	CONTRACTOR TOTAL				1,433
	ORTEL CORPORATION	California	NAVY	RDTE/Ammunition-Exploratory Development	440
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Ammunition-Exploratory Development	60
	XMCO INC	New York	NAVY	RDTE/Ammunition-Exploratory Development	158
	R&D TOTAL				21,046
AD13					
	AEROJET	California	ARMY	RDTE/Ammunition-Advanced Development	210
	AEROJET ELECTRO SYSTEMS	California	ARMY	RDTE/Ammunition-Advanced Development	4,194
	AEROJET ORDNANCE	Tennessee	ARMY	RDTE/Ammunition-Advanced Development	531
	ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Ammunition-Advanced Development	174
	AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Advanced Development	4,267
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Ammunition-Advanced Development	186
	FERRANTI INSTRUMENTAL,ION LTD	UNITED KIN	ARMY	RDTE/Ammunition-Advanced Development	208
	GENERAL DEFENSE CORPORATION	Penn	ARMY	RDTE/Ammunition-Advanced Development	95

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD13 (CONTINUED)					
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development	\$ 100
	GENERAL ELECTRIC CO	Maryland	ARMY	RDTE/Ammunition-Advanced Development	7,225
		Vermont	ARMY	RDTE/Ammunition-Advanced Development	204
	CONTRACTOR TOTAL				7,429
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Advanced Development	378
	HERCULES INCORPORATED	W Virginia	ARMY	RDTE/Ammunition-Advanced Development	29,750
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Advanced Development	25,960
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Ammunition-Advanced Development	5,298
	OLIN CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	275
		Illinois	ARMY	RDTE/Ammunition-Advanced Development	2,132
	CONTRACTOR TOTAL				2,407
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Ammunition-Advanced Development	2,130
	POLYMER TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Ammunition-Advanced Development	46
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Ammunition-Advanced Development	224
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Ammunition-Advanced Development	205
	STANFORD LELAND JUNIOR UNIV	California	ARMY	RDTE/Ammunition-Advanced Development	1,094
	WESTERN DESIGN CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development	422
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Ammunition-Advanced Development	200
	R&D TOTAL				85,508
AD14	AEROJET	California	ARMY	RDTE/Ammunition-Engineering Development	75,912
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Ammunition-Engineering Development	2,307
	COCKERHAM JOHN M & ASSOCIATES	Iowa	ARMY	RDTE/Ammunition-Engineering Development	141
	DYNAMIT NOBEL AG	GERMANY, F	ARMY	RDTE/Ammunition-Engineering Development	300

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD14 (CONTINUED)

ELECTRODYNAMICS INC	Illinois	ARMY	RDTE/Ammunition-Engineering Development	\$	2,344
EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Ammunition-Engineering Development		2,810
EVEREADY BATTERY CO INC	Vermont	ARMY	RDTE/Ammunition-Engineering Development		1,553
HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development		37,448
ISC DEFENSE SYSTEMS INC	Penn	NAVY	RDTE/Ammunition-Engineering Development		1,000
LOGI TECH ENGINEER RESOURCES	Virginia	NAVY	RDTE/Ammunition-Engineering Development		50
MOTOROLA INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development		28,135
NORTH AMERICAN DYNAMICS	California	USAF	RDTE/Ammunition-Engineering Development		54
SPARTA INC	California	ARMY	RDTE/Ammunition-Engineering Development		500
SUNDSTRAND CORPORATION	Illinois	NAVY	RDTE/Ammunition-Engineering Development		7,674
TALLEY DEFENSE SYSTEMS INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development		106
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Ammunition-Engineering Development		42
WAGNER CASTINGS COMPANY	Illinois	ARMY	RDTE/Ammunition-Engineering Development		771
R&D TOTAL					161,147
AD15 OLIN CORPORATION	Illinois	ARMY	RDTE/Ammunition-Operational Systems Develo		559
AD16 ADVANCED OPTICAK SYS	Alabama	USAF	RDTE/Ammunition-Management & Support		47
APPLIED CONCEPTS CORP	Virginia	ARMY	RDTE/Ammunition-Management & Support		607
DYNA EAST CORPORATION	Penn	NAVY	RDTE/Ammunition-Management & Support		72
		USAF	RDTE/Ammunition-Management & Support		487
COUNTRY TOTAL					559
GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Management & Support		991
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Ammunition-Management & Support		52
MTA INC	Alabama	ARMY	RDTE/Ammunition-Management & Support		550

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AD16 (CONTINUED)					
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Ammunition-Management & Support	\$ 167
	SPARTA INC	California	NAVY	RDTE/Ammunition-Management & Support	49
	R&D TOTAL				3,022
	AD21 ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Services-Basic Research	38
	ADVERTISING COUNCIL INC	D.C.	ARMY	RDTE/Services-Basic Research	300
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Services-Basic Research	75
	AMERICAN TELE & TELG COMPANY	N Carolina	NAVY	RDTE/Services-Basic Research	958
	ANALYTIC SCIENCES CORP THE	Mass	ARMY	RDTE/Services-Basic Research	550
	APD CRYOGENICS INC	Penn	NAVY	RDTE/Services-Basic Research	46
	ARMAMENT SYSTEMS INC	California	NAVY	RDTE/Services-Basic Research	1,743
	BERMAN WEILER ASSOCIATES	PHILIPPINE	ARMY	RDTE/Services-Basic Research	327
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Services-Basic Research	320
	DEERE JOHN CAPITAL CORP	Illinois	ARMY	RDTE/Services-Basic Research	25
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Services-Basic Research	650
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Services-Basic Research	170
	ELECTRONIC WARFARE ASSOCIATES	Virginia	ARMY	RDTE/Services-Basic Research	800
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Services-Basic Research	65
	ENGINEERING COMPUTER OPTECNOMICS	Maryland	NAVY	RDTE/Services-Basic Research	283
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Services-Basic Research	471
	GEO CENTERS INC	Mass	ARMY	RDTE/Services-Basic Research	563
		New Jersey	ARMY	RDTE/Services-Basic Research	235
	CONTRACTOR TOTAL				798
	GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Services-Basic Research	32

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD21 (CONTINUED)					
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Basic Research	\$ 35
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Services-Basic Research	124
		Tennessee	NAVY	RDTE/Services-Basic Research	5,500
	CONTRACTOR TOTAL				5,624
	INTERCONTINENTAL METALS EXPORTS	Florida	NAVY	RDTE/Services-Basic Research	50
	IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Services-Basic Research	52
	LERON ASSOCIATES	New Jersey	ARMY	RDTE/Services-Basic Research	85
	LSQUARE TECH INC	New Mexico	USAF	RDTE/Services-Basic Research	50
	LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Services-Basic Research	49
	MAC AULAY BROWN INC	Ohio	NAVY	RDTE/Services-Basic Research	75
			USAF	RDTE/Services-Basic Research	100
	COUNTRY TOTAL				175
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Basic Research	350
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Services-Basic Research	385
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Basic Research	966
	NEW HAMPSHIRE UNIVERSITY SYS	N.H.	NAVY	RDTE/Services-Basic Research	122
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Services-Basic Research	50
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Services-Basic Research	167
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Services-Basic Research	1,540
		California	ARMY	RDTE/Services-Basic Research	5,736
	CONTRACTOR TOTAL				7,276
	SLOSS LEON ASSOCIATES INC	D.C.	ARMY	RDTE/Services-Basic Research	37
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Services-Basic Research	666

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD21 (CONTINUED)					
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Basic Research	\$ 463
		Rhode Isld	NAVY	RDTE/Services-Basic Research	180
	CONTRACTOR TOTAL				643
	STATISTICA INC	Maryland	ARMY	RDTE/Services-Basic Research	3,680
	SYMETRIX CORPORATION	Colorado	NAVY	RDTE/Services-Basic Research	470
	SYSCON CORPORATION	Rhode Isld	NAVY	RDTE/Services-Basic Research	45
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Services-Basic Research	119
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Services-Basic Research	120
	T P L INC	New Mexico	NAVY	RDTE/Services-Basic Research	46
	TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Services-Basic Research	132
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Services-Basic Research	84
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Services-Basic Research	125
R&D TOTAL					29,254
AD22	A F LEHMAN ASSOCIATES	New York	NAVY	RDTE/Services-Exploratory Development	55
		Maryland	ARMY	RDTE/Services-Exploratory Development	338
			NAVY	RDTE/Services-Exploratory Development	483
	ADVANCED TECHNOLOGY & RESEARCH				
		COUNTRY TOTAL			
	AEROLAB	Rhode Isld	NAVY	RDTE/Services-Exploratory Development	821
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Exploratory Development	240
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Services-Exploratory Development	323
	ANALYTICS INCORPORATED	Penn	NAVY	RDTE/Services-Exploratory Development	415
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Exploratory Development	191
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Exploratory Development	122
					461

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
	AVCO CORPORATION	Mass	ARMY	RDTE/Services-Exploratory Development	\$ 313
	B K DYNAMICS INC	D.C.	NAVY	RDTE/Services-Exploratory Development	75
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Services-Exploratory Development	110
	BDM INTERNATIONAL INC	Kentucky	ARMY	RDTE/Services-Exploratory Development	675
		New Mexico	USAF	RDTE/Services-Exploratory Development	125
	CONTRACTOR TOTAL				800
	CAMPBELL KRONAUER ASSOCIATES	Conn	NAVY	RDTE/Services-Exploratory Development	40
	CHASE INC	Mass	NAVY	RDTE/Services-Exploratory Development	86
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Services-Exploratory Development	56
	COLSA INC	Alabama	ARMY	RDTE/Services-Exploratory Development	2,000
	DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Services-Exploratory Development	189
	DECISION SCIENCE APPLICATIONS	Virginia	NAVY	RDTE/Services-Exploratory Development	973
	DIRECTED TECHNOLOGIES INC	Virginia	NAVY	RDTE/Services-Exploratory Development	123
	DYNATHERM CORPORATION	Maryland	ARMY	RDTE/Services-Exploratory Development	98
	E P L ANALYSIS INC	Maryland	NAVY	RDTE/Services-Exploratory Development	45
	ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Services-Exploratory Development	700
	ESL INCORPORATED	California	NAVY	RDTE/Services-Exploratory Development	119
	EVALUATION ASSOCIATES	Penn	NAVY	RDTE/Services-Exploratory Development	31
	FMC CORPORATION	Minnesota	ARMY	RDTE/Services-Exploratory Development	48
		NAVY	NAVY	RDTE/Services-Exploratory Development	153
	COUNTRY TOTAL				201
	FOSTER MILLER INC	Mass	ARMY	RDTE/Services-Exploratory Development	58
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	850

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AD22 (CONTINUED)

GENERAL ELECTRIC CO	New York	NAVY	RDTE/Services-Exploratory Development	\$	170
GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development		1,030
HONEYWELL INC	Minnesota	USAF	RDTE/Services-Exploratory Development		162
I I T RESEARCH INSTITUTE	Maryland	ARMY	RDTE/Services-Exploratory Development		72
I NET INC	Maryland	NAVY	RDTE/Services-Exploratory Development		1,690
INFORMATION RESOURCES TECH	Virginia	NAVY	RDTE/Services-Exploratory Development		1,731
INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Services-Exploratory Development		150
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Services-Exploratory Development		150
LIFE CYCLE ENGINEERING INC	S Carolina	NAVY	RDTE/Services-Exploratory Development		35
LITTON SYSTEMS INC	California	USAF	RDTE/Services-Exploratory Development		255
MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Exploratory Development		98
MANDEX INC	Virginia	NAVY	RDTE/Services-Exploratory Development		153
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Services-Exploratory Development		9,785
	Maryland	NAVY	RDTE/Services-Exploratory Development		553
CONTRACTOR TOTAL					10,338
MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Services-Exploratory Development		175
MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Services-Exploratory Development		231
MICRO SYSTEMS CONSULTANTS	New Jersey	ARMY	RDTE/Services-Exploratory Development		43
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Exploratory Development		668
	New Mexico	NAVY	RDTE/Services-Exploratory Development		2,071
CONTRACTOR TOTAL					2,739
MONTGOMERY RICHARD A INC DBA	California	ARMY	RDTE/Services-Exploratory Development		183
NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Exploratory Development		520

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AD22 (CONTINUED)					
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Services-Exploratory Development	40
	OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Services-Exploratory Development	63
	OPTELECOM INC	Conn	NAVY	RDTE/Services-Exploratory Development	63
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	567
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Exploratory Development	327
	PHOENIX DIGITAL CORPORATION	Arizona	NAVY	RDTE/Services-Exploratory Development	50
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Services-Exploratory Development	764
	RAYTHEON COMPANY	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	245
	SCIENCE APPLICATIONS INTL CORP	Hawaii	NAVY	RDTE/Services-Exploratory Development	100
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Exploratory Development	335
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Services-Exploratory Development	509
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Services-Exploratory Development	134
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Services-Exploratory Development	200
	SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Services-Exploratory Development	99
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Exploratory Development	140
	TECHNICAL SERVICES GROUP	Ohio	USAF	RDTE/Services-Exploratory Development	473
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Exploratory Development	448
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Services-Exploratory Development	2,050
	UNIVERSITY OF RHODE ISLAND	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	38
	UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Services-Exploratory Development	64
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Services-Exploratory Development	53
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Services-Exploratory Development	111
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Services-Exploratory Development	40

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD22 (CONTINUED)

WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Services-Exploratory Development	\$	74
WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Services-Exploratory Development		75
	Penn	NAVY	RDTE/Services-Exploratory Development		565
					640
CONTRACTOR TOTAL					37,047
R&D TOTAL					754
AD23 ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Advanced Development		
AMERICAN SYSTEMS CORPORATION	Virginia	NAVY	RDTE/Services-Advanced Development		1,053
ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Advanced Development		1,839
ANALYTICS INCORPORATED	Penn	NAVY	RDTE/Services-Advanced Development		91
APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Advanced Development		154
AQUIDNECK MGT ASSOC LTD	Rhode Islnd	NAVY	RDTE/Services-Advanced Development		105
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Advanced Development		970
ATACS CORPORATION	California	NAVY	RDTE/Services-Advanced Development		45
ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Advanced Development		59
ATLANTIC RESEARCH CORPORATION	Penn	NAVY	RDTE/Services-Advanced Development		97
BALL CORPORATION	California	USAF	RDTE/Services-Advanced Development		2,047
BIOSPHERICAL INSTRUMENTS INC	California	NAVY	RDTE/Services-Advanced Development		103
BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Advanced Development		900
	Mass	NAVY	RDTE/Services-Advanced Development		761
CONTRACTOR TOTAL					1,661
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Services-Advanced Development		1,921
CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Services-Advanced Development		106
CAMBRIDGE RESEARCH ASSOCIATES	Virginia	NAVY	RDTE/Services-Advanced Development		66

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD23 (CONTINUED)

COMPUTER SCIENCES CORPORATION	Florida	NAVY	RDTE/Services-Advanced Development	\$	144
	Penn	NAVY	RDTE/Services-Advanced Development		363
CONTRACTOR TOTAL					507
CRAFTSMEN CORP	Ohio	USAF	RDTE/Services-Advanced Development		38-
CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Services-Advanced Development		250
CULHAM LABORATORY	UNITED KIN	ARMY	RDTE/Services-Advanced Development		500
E G & G WASHINGTON ALALYTL SVC	Conn	NAVY	RDTE/Services-Advanced Development		2,050
	Maryland	NAVY	RDTE/Services-Advanced Development		31
CONTRACTOR TOTAL					2,081
EDO CORPORATION	New York	NAVY	RDTE/Services-Advanced Development		210
ELDYNE INC	Conn	NAVY	RDTE/Services-Advanced Development		32
ENGINEERING & ECONOMICS RES	Rhode Isl	NAVY	RDTE/Services-Advanced Development		73
ENTWISTLE COMPANY (INC)	Mass	NAVY	RDTE/Services-Advanced Development		26
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Advanced Development		150
FIBERTEK INC	Virginia	ARMY	RDTE/Services-Advanced Development		150
FLORIDA STATE UNIVERSITY	Florida	NAVY	RDTE/Services-Advanced Development		100
FREQUENCY DEVICES INC	Mass	NAVY	RDTE/Services-Advanced Development		39
FUZETRON INC	California	NAVY	RDTE/Services-Advanced Development		40
G K Y & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development		31
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		757
GENERAL ELECTRIC CO	Penn	NAVY	RDTE/Services-Advanced Development		27
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Advanced Development		1,818
GEORGIA TECH RESEARCH INST	Georgia	NAVY	RDTE/Services-Advanced Development		75

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD23 (CONTINUED)					
	GIORDANO ASSOCIATES INC	New Jersey	ARMY	RDTE/Services-Advanced Development	\$ 77
	GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Services-Advanced Development	71
	HOLOGRAPHIC OPTICS INC	New York	NAVY	RDTE/Services-Advanced Development	216
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Advanced Development	1,187
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Services-Advanced Development	53
	I I T RESEARCH INSTITUTE	California	NAVY	RDTE/Services-Advanced Development	110
		Illinois	USAF	RDTE/Services-Advanced Development	2,817
		Tennessee	NAVY	RDTE/Services-Advanced Development	360
	CONTRACTOR TOTAL				3,287
	INFORMATION SPECTRUM INC	New Jersey	NAVY	RDTE/Services-Advanced Development	172
	INFORMATION SYSTEMS NETWORKS CORP	Ohio	USAF	RDTE/Services-Advanced Development	79
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Services-Advanced Development	709
		Virginia	NAVY	RDTE/Services-Advanced Development	30
	CONTRACTOR TOTAL				739
	INTEGRATED TEST & EVAL COOPERATIVE	California	NAVY	RDTE/Services-Advanced Development	100
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Services-Advanced Development	263
	INTERMETRICS INC	Penn	NAVY	RDTE/Services-Advanced Development	1,947
	K M S FUSION INC	Michigan	NAVY	RDTE/Services-Advanced Development	517
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Advanced Development	50
	MAGNAVOX COMPANY INC	New York	NAVY	RDTE/Services-Advanced Development	161
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Advanced Development	30
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Services-Advanced Development	30-
	MC LAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Advanced Development	232

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD23 (CONTINUED)

CONTRACTOR TOTAL					
MINE SAFETY APPLS COMPANY	Rhode Isl	NAVY	RDTE/Services-Advanced Development	\$	28
MINISTRY OF DEFENSE UK	Maryland	USAF	RDTE/Services-Advanced Development		260
MISSION RESEARCH CORPORATION	UNITED KIN	ARMY	RDTE/Services-Advanced Development		111
	California	ARMY	RDTE/Services-Advanced Development		2,730
	New Mexico	ARMY	RDTE/Services-Advanced Development		1,196
		NAVY	RDTE/Services-Advanced Development		198
					50
	COUNTRY TOTAL				248
					1,444
CONTRACTOR TOTAL					
MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Advanced Development		861
MYSTECH ASSOCIATES INC	Conn	NAVY	RDTE/Services-Advanced Development		275
NEW ENGLAND TECHNICAL SERVICES	Rhode Isl	NAVY	RDTE/Services-Advanced Development		35
OCEAN & ATMOSPHERIC SCIENCE	New York	NAVY	RDTE/Services-Advanced Development		50
OCEAN TECHNOLOGY INC	Rhode Isl	NAVY	RDTE/Services-Advanced Development		80
P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Services-Advanced Development		41
	Penn	NAVY	RDTE/Services-Advanced Development		793
					834
	COUNTRY TOTAL				4,874
					500
					50
					42
					3,240
					487

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD23 (CONTINUED)

QUEST RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Advanced Development	\$	1,208
QUESTECH INC	Virginia	ARMY	RDTE/Services-Advanced Development		912
R B C INCORPORATED	Virginia	NAVY	RDTE/Services-Advanced Development		30
R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Advanced Development		203
RAIL COMPANY	Virginia	ARMY	RDTE/Services-Advanced Development		653
RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Advanced Development		249
ROME RESEARCH CORP	New York	USAF	RDTE/Services-Advanced Development		130
SAFT AMERICA INC	Maryland	USAF	RDTE/Services-Advanced Development		228
SANDERS ASSOCIATES INC	N.H.	NAVY	RDTE/Services-Advanced Development		172
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Advanced Development		1,394
		USAF	RDTE/Services-Advanced Development		1,389
	COUNTRY TOTAL				2,783
SIXD B CORP	Maryland	NAVY	RDTE/Services-Advanced Development		547
SONALYSTS INC	Conn	NAVY	RDTE/Services-Advanced Development		2,062
SPARTON CORPORATION	Michigan	NAVY	RDTE/Services-Advanced Development		171
STERLING FEDERAL SYSTEMS INC	California	NAVY	RDTE/Services-Advanced Development		38
SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		150
	Rhode Isld	NAVY	RDTE/Services-Advanced Development		583
CONTRACTOR TOTAL					733
SYSTEMS RESOURCE MANAGEMENT	Rhode Isld	NAVY	RDTE/Services-Advanced Development		224
T S C INC	Conn	NAVY	RDTE/Services-Advanced Development		208
TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Services-Advanced Development		103
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Advanced Development		276

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD23 (CONTINUED)					
	TRACOR HYDRONAUTICS INC	Maryland	NAVY	RDTE/Services-Advanced Development	\$ 400
	TRACOR MARINE INC	Florida	NAVY	RDTE/Services-Advanced Development	416
	TRW INC	California	NAVY	RDTE/Services-Advanced Development	538
		USAF	RDTE/Services-Advanced Development	253	
	COUNTRY TOTAL				791
	CONTRACTOR TOTAL				1,277
	TUSKEGEE RESEARCH INSTITUTE	Virginia	NAVY	RDTE/Services-Advanced Development	2,068
	UNISYS CORPORATION	Alabama	NAVY	RDTE/Services-Advanced Development	49
		Penn	NAVY	RDTE/Services-Advanced Development	211
	UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Advanced Development	50
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY	RDTE/Services-Advanced Development	100
	VITRO CORPORATION	California	NAVY	RDTE/Services-Advanced Development	117
		Rhode Isl	NAVY	RDTE/Services-Advanced Development	73
	CONTRACTOR TOTAL				190
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Services-Advanced Development	87
	WALLACE & CO	N Carolina	USAF	RDTE/Services-Advanced Development	2,923
		Ohio	USAF	RDTE/Services-Advanced Development	72
	CONTRACTOR TOT .L				2,995
R&D TOTAL					60,187
AD24	A/G TECHNOLOGY CORP	Mass	USAF	RDTE/Services-Engineering Development	260
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Services-Engineering Development	675
		NAVY	RDTE/Services-Engineering Development	287	
	COUNTRY TOTAL				962
	ALLIED SIGNAL AEROSPACE CO	Maryland	ARMY	RDTE/Services-Engineering Development	124

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD24 (CONTINUED)

ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	\$	2,794
	Florida	NAVY	RDTE/Services-Engineering Development		5,060
	Rhode Isl	NAVY	RDTE/Services-Engineering Development		50
	Virginia	NAVY	RDTE/Services-Engineering Development		162
CONTRACTOR TOTAL					
ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Services-Engineering Development		8,066
	Conn	NAVY	RDTE/Services-Engineering Development		2,052
	Rhode Isl	NAVY	RDTE/Services-Engineering Development		808
					155
CONTRACTOR TOTAL					
AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Engineering Development		963
	Rhode Isl	NAVY	RDTE/Services-Engineering Development		273
					298
					571
CONTRACTOR TOTAL					
AQUIDNECK SYSTEMS INTL	Rhode Isl	NAVY	RDTE/Services-Engineering Development		69
	California	NAVY	RDTE/Services-Engineering Development		165
	California	NAVY	RDTE/Services-Engineering Development		519
		USAF	RDTE/Services-Engineering Development		122
CONTRACTOR TOTAL					
ARETE ASSOCIATES					641
					750
					1,391
					60
CONTRACTOR TOTAL					
ARINC RESEARCH CORPORATION					80
					999
					1,094
CONTRACTOR TOTAL					
ATLANTIC APPLIED RESEARCH					
CONTRACTOR TOTAL					
ATLANTIC RESEARCH CORPORATION					
CONTRACTOR TOTAL					
AVCO CORPORATION					
CONTRACTOR TOTAL					
BATTELLE MEMORIAL INSTITUTE					

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	BERLIN S INC	California	NAVY	RDTE/Services-Engineering Development	46
	BOEING COMPANY THE	Alabama	USAF	RDTE/Services-Engineering Development	1,743
		Kansas	USAF	RDTE/Services-Engineering Development	50
		Washington	NAVY	RDTE/Services-Engineering Development	55
	CONTRACTOR TOTAL				1,848
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Engineering Development	453
	C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	100
	CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Services-Engineering Development	428
	CAMPBELL KRONAUER ASSOCIATES	Mass	NAVY	RDTE/Services-Engineering Development	375
	CHASE INC	Mass	NAVY	RDTE/Services-Engineering Development	41
	COLUMBIA RESEARCH CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	123
	COMPUTER SCIENCES CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	1,365
	COMPUTER SOFTWARE ANALYSTS	California	USAF	RDTE/Services-Engineering Development	805
	CPT CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	38
	CRAFTSMEN CORP	Ohio	USAF	RDTE/Services-Engineering Development	1,209
	DAEDALEAN INC	Maryland	NAVY	RDTE/Services-Engineering Development	790
	DATANAMICS COMPUTER CORP	Penn	NAVY	RDTE/Services-Engineering Development	59
	DCS CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	100-
	DONALDSON COMPANY INC	Minnesota	ARMY	RDTE/Services-Engineering Development	741-
	DYNAMICS RESEARCH CORPORATION	Rhode Isld	NAVY	RDTE/Services-Engineering Development	45-
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Services-Engineering Development	256
	E G & G WASHINGTON ALALYTL SVC	Conn	NAVY	RDTE/Services-Engineering Development	84
		Virginia	NAVY	RDTE/Services-Engineering Development	91

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD24 (CONTINUED)

CONTRACTOR TOTAL

EAGLE TECHNOLOGY INC	New Jersey	ARMY	RDTE/Services-Engineering Development	\$	175
ELDYNE INC	Conn	NAVY	RDTE/Services-Engineering Development		559
ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Services-Engineering Development		34
ENGINEERING & ECONOMICS RES	Virginia	USAF	RDTE/Services-Engineering Development		653
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Engineering Development		97
ESSEX CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development		48
GEMMA CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development		256
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development		130
	Texas	USAF	RDTE/Services-Engineering Development		2,596
					3,046
					5,642
					24,352
					99
					24,451
					9,456
					33,907
					500
					254
					50
					233
					49
					52
					507

CONTRACTOR TOTAL

GENERAL ELECTRIC CO

New Jersey	NAVY	RDTE/Services-Engineering Development
USAF	RDTE/Services-Engineering Development	

COUNTRY TOTAL

Virginia	NAVY	RDTE/Services-Engineering Development

CONTRACTOR TOTAL

GENERAL MOTORS CORPORATION

GIORDANO ASSOCIATES INC

GNOSTECH INC

GTE GOVERNMENT SYSTEMS CORP

GUMBS ASSOCIATES INC

HAMMELL THOMAS J

HARRIS CORPORATION

Indiana	NAVY	RDTE/Services-Engineering Development
New Jersey	ARMY	RDTE/Services-Engineering Development
Penn	NAVY	RDTE/Services-Engineering Development
California	USAF	RDTE/Services-Engineering Development
New Jersey	NAVY	RDTE/Services-Engineering Development
Conn	NAVY	RDTE/Services-Engineering Development
Florida	NAVY	RDTE/Services-Engineering Development

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD24 (CONTINUED)				
HEWLETT PACKARD COMPANY	Maryland	NAVY	RDTE/Services-Engineering Development	\$ 42
CONTRACTOR TOTAL				59
HUGHES AIRCRAFT COMPANY	Penn	NAVY	RDTE/Services-Engineering Development	101
INFORMATION NETWORK SYSTEMS	California	NAVY	RDTE/Services-Engineering Development	247
INFORMATION SYSTEMS NETWORKS CORP	Penn	NAVY	RDTE/Services-Engineering Development	29
INFOTEC DEVELOPMENT INC	Ohio	USAF	RDTE/Services-Engineering Development	150
INTEGRATED SYSTEMS ANALYSTS	Ohio	USAF	RDTE/Services-Engineering Development	55
	Conn	NAVY	RDTE/Services-Engineering Development	115
	Virginia	NAVY	RDTE/Services-Engineering Development	1,277
CONTRACTOR TOTAL				1,392
INTERMETRICS INC	Penn	NAVY	RDTE/Services-Engineering Development	1,611
INTERNAL MRSMRNT CTRL CMPNY	Colorado	NAVY	RDTE/Services-Engineering Development	39
INTEREST CORPORATION	California	NAVY	RDTE/Services-Engineering Development	38
JANIS RESEARCH COMPANY INC	Mass	NAVY	RDTE/Services-Engineering Development	42
KETRON INC	Penn	NAVY	RDTE/Services-Engineering Development	808
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Engineering Development	689
CONTRACTOR TOTAL				50
KULICKE AND SOFFA INDUSTRIES,	Virginia	NAVY	RDTE/Services-Engineering Development	739
LINCOM CORP NOT INC	Penn	NAVY	RDTE/Services-Engineering Development	43
LITTON SYSTEMS INC	Conn	NAVY	RDTE/Services-Engineering Development	50
LOCKHEED CORPORATION	California	NAVY	RDTE/Services-Engineering Development	461
LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Services-Engineering Development	200
	California	NAVY	RDTE/Services-Engineering Development	1,222

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AD24 (CONTINUED)

CONTRACTOR TOTAL				
MANAGEMENT CONSULTING & RES	Maryland	NAVY	RDTE/Services-Engineering Development	\$ 354
MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Services-Engineering Development	1,576
MAR INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development	1,498
MC LAUGHLIN RESEARCH CORP	Maryland	NAVY	RDTE/Services-Engineering Development	130
	Conn	NAVY	RDTE/Services-Engineering Development	1,469
	Rhode Islnd	NAVY	RDTE/Services-Engineering Development	67
CONTRACTOR TOTAL				
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Services-Engineering Development	125
MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Engineering Development	192
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Services-Engineering Development	250
N T L INC	New York	NAVY	RDTE/Services-Engineering Development	45
NAVMAR INC	Penn	NAVY	RDTE/Services-Engineering Development	1,669
NICHOLS RESEARCH CORPORATION	New Mexico	NAVY	RDTE/Services-Engineering Development	50
OCEAN ANALYTICS LTD	Conn	ARMY	RDTE/Services-Engineering Development	456
OMNI ANALYSIS INC	California	NAVY	RDTE/Services-Engineering Development	391
	Conn	NAVY	RDTE/Services-Engineering Development	40
		NAVY	RDTE/Services-Engineering Development	300
		NAVY	RDTE/Services-Engineering Development	158
		NAVY	RDTE/Services-Engineering Development	458
CONTRACTOR TOTAL				
ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Engineering Development	321
PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development	1,146
PAROSCIENTIFIC INC	Washington	NAVY	RDTE/Services-Engineering Development	115
PERCEPTRONICS INC	Penn	NAVY	RDTE/Services-Engineering Development	35
PLANNING RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Engineering Development	3,403

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD24 (CONTINUED)					
	PURVIS SYSTEMS INCORPORATED	Conn	NAVY	RDTE/Services-Engineering Development	\$ 261
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	71
	CONTRACTOR TOTAL				332
	QUADRAX	Rhode Isld	NAVY	RDTE/Services-Engineering Development	99
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Engineering Development	2,185
	R B C INCORPORATED	Virginia	NAVY	RDTE/Services-Engineering Development	135
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Services-Engineering Development	78
	ROW RESEARCH ASSOC	Florida	NAVY	RDTE/Services-Engineering Development	46
	SACHSE ENGINEERING ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	265
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Services-Engineering Development	685
		Florida	USAF	RDTE/Services-Engineering Development	321
	CONTRACTOR TOTAL				1,006
	SEMCOR INC	Penn	NAVY	RDTE/Services-Engineering Development	1,912
	SHEARWATER INC	Conn	NAVY	RDTE/Services-Engineering Development	88
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Engineering Development	1,486
	SPEARS ASSOCIATES INC	Mass	NAVY	RDTE/Services-Engineering Development	1,300
	SPERRY CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	1,536
	STRATEGIC RESEARCH & MGT SVS	Ohio	USAF	RDTE/Services-Engineering Development	130
	SYSCON CORPORATION	Rhode Isld	NAVY	RDTE/Services-Engineering Development	369
	T S C INC	Colorado	NAVY	RDTE/Services-Engineering Development	61
	TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Services-Engineering Development	57
	TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Services-Engineering Development	79
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Services-Engineering Development	370

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD24 (CONTINUED)

TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Services-Engineering Development		\$ 864
TEXTRON INC	New York	USAF	RDTE/Services-Engineering Development		45
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Engineering Development		397
	Texas	NAVY	RDTE/Services-Engineering Development		1,224
CONTRACTOR TOTAL					1,621
TRW INC	Conn	NAVY	RDTE/Services-Engineering Development		360
UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development		415
UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Engineering Development		51
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Services-Engineering Development		107
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Engineering Development		188
VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development		80
	Virginia	NAVY	RDTE/Services-Engineering Development		1,966
CONTRACTOR TOTAL					2,046
VIRO CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development		482
VREULS RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development		50
VSE CORPORATION	Florida	USAF	RDTE/Services-Engineering Development		6,995
ZEROONE SYSTEMS INC	Texas	USAF	RDTE/Services-Engineering Development		1,265
R&D TOTAL					112,324
AD25 ADVANCE INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm		1,398
ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Operational Systems Developm		419
AEPCO INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm		695
ALPHATECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm		290
AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Operational Systems Developm		78

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AD25 (CONTINUED)					
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	\$ 1,915
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	190
	CONTRACTOR TOTAL				2,105
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Services-Operational Systems Developm	1,329
	ANALYTICS INCORPORATED	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	267
		Penn	NAVY	RDTE/Services-Operational Systems Developm	241
	CONTRACTOR TOTAL				508
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Operational Systems Developm	44
	ARINC RESEARCH CORPORATION	California	USAF	RDTE/Services-Operational Systems Developm	134
		Maryland	ARMY	RDTE/Services-Operational Systems Developm	1,298
	CONTRACTOR TOTAL				1,432
	ARMAMENT SYSTEMS INC	Maryland	ARMY	RDTE/Services-Operational Systems Developm	99
	ATLANTIC RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	2,569
	AUTOMATED SCIENCES GROUP INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	34
	BDM INTERNATIONAL INC	New Mexico	NAVY	RDTE/Services-Operational Systems Developm	132
			USAF	RDTE/Services-Operational Systems Developm	381
	COUNTRY TOTAL				513
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	537
	CONTRACTOR TOTAL				1,050
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Services-Operational Systems Developm	866-
	BOEING COMPANY THE	Kansas	USAF	RDTE/Services-Operational Systems Developm	28
		Washington	NAVY	RDTE/Services-Operational Systems Developm	1,100
	CONTRACTOR TOTAL				1,128

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD25 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	\$ 249
	C A E INDUSTRIES LTD	Mar land	NAVY	RDTE/Services-Operational Systems Developm	165
	CAREER RESEARCH SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm	45
	COMPUTER SCIENCES CORPORATION	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	2,448
			NAVY	RDTE/Services-Operational Systems Developm	1,761
	COUNTRY TOTAL				4,209
		Penn	NAVY	RDTE/Services-Operational Systems Developm	1,585
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	10,769
	CONTRACTOR TOTAL				16,563
	CONTROL SYSTEMS ANALYSIS	Rhode Isld	NAVY	RDTE/Services-Operational Systems Developm	35
	CRITON TECHNOLOGIES	California	ARMY	RDTE/Services-Operational Systems Developm	61
	DATEC INC FORT WALTON BEACH	Florida	NAVY	RDTE/Services-Operational Systems Developm	246
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	736
	DYNAMICS RESEARCH CORPORATION	Mass	NAVY	RDTE/Services-Operational Systems Developm	58
		Rhode Isld	NAVY	RDTE/Services-Operational Systems Developm	610
	CONTRACTOR TOTAL				668
	E G & G WASHINGTON ALALYTL SVC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	44
	EAGLE SYSTEMS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	84
	ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	635
		Texas	USAF	RDTE/Services-Operational Systems Developm	100
	CONTRACTOR TOTAL				735
	ENGELHARD CORPORATION	Alabama	ARMY	RDTE/Services-Operational Systems Developm	200
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	1,504
	ENVIRONMENTAL RESEARCH	Michigan	ARMY	RDTE/Services-Operational Systems Developm	926

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	45
	ESSEX CORPORATION	Alabama	NAVY	RDTE/Services-Operational Systems Developm	114
	EVENTS ANALYSIS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	97
	EXECUTIVE RESOURCE ASSOCIATES	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,718
	G R D INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	287
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Operational Systems Developm	52
		Michigan	ARMY	RDTE/Services-Operational Systems Developm	299
		Rhode Isld	NAVY	RDTE/Services-Operational Systems Developm	303
	CONTRACTOR TOTAL				654
	GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	3,584
		Penn	NAVY	RDTE/Services-Operational Systems Developm	372
	CONTRACTOR TOTAL				3,956
	GENERAL PHYSICS CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	105
	GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Services-Operational Systems Developm	5,537
	HERSH ACOUSTICAL ENGINEERING	California	NAVY	RDTE/Services-Operational Systems Developm	26
	IMAGE ACOUSTICS INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	26
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Services-Operational Systems Developm	196
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	118
	INTEGRATED MICROCOMPUTER SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,493
	INTERNATIONAL COMPUTERS TELECOM	Maryland	NAVY	RDTE/Services-Operational Systems Developm	139
	ITT CORPORATION	Indiana	ARMY	RDTE/Services-Operational Systems Developm	1,715
	JOHNSON CONTROLS INC	Florida	ARMY	RDTE/Services-Operational Systems Developm	25,026
		Marshall I	ARMY	RDTE/Services-Operational Systems Developm	15,717

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AD25 (CONTINUED)

CONTRACTOR TOTAL					\$	40,743
	KETRON INC	Penn	NAVY	RDTE/Services-Operational Systems Developm		725
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Operational Systems Developm		1,052
	KRUG INTERNATIONAL CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm		100
	LEAR SIEGLER DIVERSIFIED HOLDINGS	Ohio	USAF	RDTE/Services-Operational Systems Developm		440
		Oklahoma	USAF	RDTE/Services-Operational Systems Developm		28
						468
CONTRACTOR TOTAL						73
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm		59
	LOCKHEED CORPORATION	California	NAVY	RDTE/Services-Operational Systems Developm		439
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Operational Systems Developm		31
	MANDEX INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		343-
	MC DONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Services-Operational Systems Developm		118
	MC LAUGHLIN RESEARCH CORP	Rhode Isl	NAVY	RDTE/Services-Operational Systems Developm		49
	MICRO COMPUTER SYSTEM INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		27
	MICRO CRAFT INC	Tennessee	NAVY	RDTE/Services-Operational Systems Developm		548
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Operational Systems Developm		212
	N T L INC	New York	NAVY	RDTE/Services-Operational Systems Developm		37
	NATION INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm		160
	NATIONAL SYSTEMS & RESEARCH CO	Colorado	NAVY	RDTE/Services-Operational Systems Developm		30
	NEWPORT NEWS SHPBLDG DRYDOCK	Virginia	NAVY	RDTE/Services-Operational Systems Developm		2,224-
	OWL INTERNATIONAL INC	Marshall I	ARMY	RDTE/Services-Operational Systems Developm		751
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Operational Systems Developm		1,371
	PLANNING RESEARCH CORPORATION	Virginia	ARMY	RDTE/Services-Operational Systems Developm		

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)				
QUESTECH INC	D.C.	ARMY	RDTE/Services-Operational Systems Developm	119
CONTRACTOR TOTAL				1,288-
RAIL COMPANY	Virginia	ARMY	RDTE/Services-Operational Systems Developm	1,169-
RAYTHEON SERVICE COMPANY	Maryland	NAVY	RDTE/Services-Operational Systems Developm	329
	Maine	NAVY	RDTE/Services-Operational Systems Developm	46-
	Virginia	NAVY	RDTE/Services-Operational Systems Developm	545
CONTRACTOR TOTAL				499
RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	468
S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	100
SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Services-Operational Systems Developm	72
SEMCOR INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	136
SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	521
SOFTTECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	32
SONALYSTS INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	844
STEVENS INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	167
STRATGIC FINANCIAL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	137
STV ENGINEERS INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	345
SUMMIT RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	29
SUNDSTRAND DATA CONTROL INC	Washington	ARMY	RDTE/Services-Operational Systems Developm	52-
SVERDRUP TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	917
	Tennessee	USAF	RDTE/Services-Operational Systems Developm	1,073
CONTRACTOR TOTAL				1,990
SYSCON CORPORATION	Rhode Isl	NAVY	RDTE/Services-Operational Systems Developm	92

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AD25 (CONTINUED)					
	CONTRACTOR TOTAL				
	SYSTEM DEVELOPMENT CORPORATION	Texas	NAVY	RDTE/Services-Operational Systems Developm	48
	SYSTEMS PLANNING CORP	Virginia	NAVY	RDTE/Services-Operational Systems Developm	9,557
	TECHNICAL & MGT SVCS CORP	Penn	NAVY	RDTE/Services-Operational Systems Developm	9,697
		Virginia	ARMY	RDTE/Services-Operational Systems Developm	1,345
		Maryland	USAF	RDTE/Services-Operational Systems Developm	153
		Ohio	USAF	RDTE/Services-Operational Systems Developm	331
	CONTRACTOR TOTAL				155
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Services-Operational Systems Developm	486
	TIME & SPACE PROCESSING INC	Virginia	USAF	RDTE/Services-Operational Systems Developm	10,245
	TRACOR AEROSPACE INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	26
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	27
	TRACOR MARINE INC	Florida	NAVY	RDTE/Services-Operational Systems Developm	68
	TRI STATE DESIGN INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	109
	TRW INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	49
	UNISYS CORPORATION	New York	NAVY	RDTE/Services-Operational Systems Developm	12,146
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	105
	CONTRACTOR TOTAL				1,205
	VITRO CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	188
		Maryland	NAVY	RDTE/Services-Operational Systems Developm	1,393
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	938
	CONTRACTOR TOTAL				617
	WALLACE & CO	N Carolina	USAF	RDTE/Services-Operational Systems Developm	1,555
					2,340

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
R&D TOTAL					
AD26	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Services-Management & Support	\$ 139,417
	ADAPTIVE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Services-Management & Support	641-
	ADVANCED ENGINEERING CORP	California	NAVY	RDTE/Services-Management & Support	44
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Management & Support	49
	ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Services-Management & Support	346
	AEROVIRONMENT INC	California	NAVY	RDTE/Services-Management & Support	2,305
	AKM ASSOCIATES	California	NAVY	RDTE/Services-Management & Support	50
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Management & Support	51
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Management & Support	250
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Services-Management & Support	89
	ANALYTIC SERVICES INC	Colorado	USAF	RDTE/Services-Management & Support	75
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	NAVY USAF	RDTE/Services-Management & Support RDTE/Services-Management & Support	678 178 8,368
	COUNTRY TOTAL				8,546
	ANALYTICS INCORPORATED	Virginia	ARMY	RDTE/Services-Management & Support	665
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Services-Management & Support	509
	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Services-Management & Support	185
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Management & Support	50
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Management & Support	606
	BALL CORPORATION	Ohio	USAF	RDTE/Services-Management & Support	1,745
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Management & Support	1,333
	COMPUSEARCH CORP	Virginia	NAVY	RDTE/Services-Management & Support	50
	COMPUTER RESOURCE ENGRG ASSOC	Maryland	ARMY	RDTE/Services-Management & Support	348

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD26 (CONTINUED)					
	CONTRACTOR TOTAL				
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Services-Management & Support	\$ 2,237
	CONTROL DATA CORPORATION	GERMANY, F	ARMY	RDTE/Services-Management & Support	1,171
	CORTANA CORPORATION	California	NAVY	RDTE/Services-Management & Support	3,756
	CRYSTALLUME	Minnesota	ARMY	RDTE/Services-Management & Support	1,195
	DCS CORPORATION	Virginia	NAVY	RDTE/Services-Management & Support	1,279
	DECISION SCIENCE CONSORTIUM	California	USAF	RDTE/Services-Management & Support	50
	DIALOG SYSTEMS INC	Virginia	NAVY	RDTE/Services-Management & Support	467
	DUAL & ASSOC INC	Mass	NAVY	RDTE/Services-Management & Support	700
	E M I TECHNOLOGIES INC	Virginia	NAVY	RDTE/Services-Management & Support	250
	EAGLE TECHNOLOGY INC	Mass	NAVY	RDTE/Services-Management & Support	60
	ELECTROSPACE SYSTEMS INC	Virginia	NAVY	RDTE/Services-Management & Support	1,215
	ENTROPIC SPEECH	New Mexico	ARMY	RDTE/Services-Management & Support	157
	EPSILON LAMBDA ELECTRONICS	Virginia	ARMY	RDTE/Services-Management & Support	4,692
	FAIRCHILD INDUSTRIES INC	Ohio	USAF	RDTE/Services-Management & Support	35-
	FRONTIER TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Management & Support	50
	GENERAL DYNAMICS CORPORATION	Illinois	USAF	RDTE/Services-Management & Support	66
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Services-Management & Support	286-
		California	USAF	RDTE/Services-Management & Support	1,095
		California	NAVY	RDTE/Services-Management & Support	2,318
		New Jersey	ARMY	RDTE/Services-Management & Support	26,404
		Marshall I	ARMY	RDTE/Services-Management & Support	1,158
	CONTRACTOR TOTAL				27,562
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Management & Support	399

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AD26 (CONTINUED)					
	GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Services-Management & Support	\$ 147
		Mass	ARMY	RDTE/Services-Management & Support	2,538
		Marshall I	ARMY	RDTE/Services-Management & Support	2,114
	CONTRACTOR TOTAL				4,799
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Services-Management & Support	51
	INNOVATIVE RESEARCH	Colorado	NAVY	RDTE/Services-Management & Support	46
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Services-Management & Support	305
	KILDARE	Conn	NAVY	RDTE/Services-Management & Support	50
	LOGISTICS MANAGEMENT ENGRG	Maryland	NAVY	RDTE/Services-Management & Support	169
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Services-Management & Support	1,848
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Management & Support	667
	MAR INCORPORATED	Florida	NAVY	RDTE/Services-Management & Support	2,648
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Services-Management & Support	822
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Management & Support	50
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Services-Management & Support	1,437
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Services-Management & Support	78
	MICRO MODE PRODUCTS INC	California	NAVY	RDTE/Services-Management & Support	203
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Management & Support	378
	N K F ENGINEERING INC	California	NAVY	RDTE/Services-Management & Support	866
	NAVVAR INC	Penn	NAVY	RDTE/Services-Management & Support	109
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Services-Management & Support	9,198
	NIAGARA SYS SOFTWARE INC	New York	NAVY	RDTE/Services-Management & Support	49
	OPTRA INC	Mass	NAVY	RDTE/Services-Management & Support	250

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AD26 (CONTINUED)					
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Management & Support	\$ 50
	ORTEL CORPORATION	California	NAVY	RDTE/Services-Management & Support	50
	PINNACLE RESEARCH INSTITUTE	California	USAF	RDTE/Services-Management & Support	433
	RADIX SYSTEMS	Maryland	NAVY	RDTE/Services-Management & Support	49
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Management & Support	337
	RIVERSIDE RESEARCH INSTITUTE	Mass	USAF	RDTE/Services-Management & Support	228
	S W L INC	Virginia	NAVY	RDTE/Services-Management & Support	259
	SCE INCORPORATED	Penn	NAVY	RDTE/Services-Management & Support	35
	SCHLUMBERGER TECHNOLOGY CORP	Michigan	USAF	RDTE/Services-Management & Support	428
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Services-Management & Support	74
	SIMNET	California	NAVY	RDTE/Services-Management & Support	50
	SOFTTECH INC	Mass	USAF	RDTE/Services-Management & Support	449
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Management & Support	325
	CONTRACTOR TOTAL	Rhode Isl	NAVY	RDTE/Services-Management & Support	70
					395
	SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Services-Management & Support	62
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Management & Support	1,128
	TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Services-Management & Support	137
	TECUMSEH PRODUCTS COMPANY	California	ARMY	RDTE/Services-Management & Support	170
	TEXAS INSTRUMENTS INCORPORATED	California	NAVY	RDTE/Services-Management & Support	5,141
	UJON RESEARCH CORP	California	USAF	RDTE/Services-Management & Support	275
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Services-Management & Support	860
	TRANSFORM INDEX TECHNOLOGY INC	Texas	NAVY	RDTE/Services-Management & Support	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD26 (CONTINUED)					
	TRW INC	Ohio	USAF	RDTE/Services-Management & Support	\$ 200
	UNITED STATES DEPT OF COMMERCE	D.C.	NAVY	RDTE/Services-Management & Support	285
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Services-Management & Support	2,128
	VENNTRONIX CORPORATION	New York	ARMY	RDTE/Services-Management & Support	355
	VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Management & Support	872
	ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Services-Management & Support	271
	R&D TOTAL				100,769
AD32	POTOMAC RESEARCH INCORPORATED	Virginia	ARMY	RDTE/Subsistence-Exploratory Development	97
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Subsistence-Exploratory Development	27
	UNIVERSITY OF PITTSBURGH TRUST	W Virginia	NAVY	RDTE/Subsistence-Exploratory Development	60
	R&D TOTAL				184
AD33	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Subsistence-Advanced Development	52
	TINGLEY RUBBER CORPORATION	New Jersey	ARMY	RDTE/Subsistence-Advanced Development	60
	R&D TOTAL				112
AD34	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Subsistence-Engineering Development	39-
AD35	FEDERAL INFORMATION TECH INC	Virginia	ARMY	RDTE/Subsistence-Operational Systems Devel	171
AD36	FAAC PERCEPTIONICS INC	Penn	USAF	RDTE/Subsistence-Management & Support	45
	SPACE SYSTEMS ENGINEERING	Utah	USAF	RDTE/Subsistence-Management & Support	302
	R&D TOTAL				347
AD41	AMERICAN HYPERFORM CO	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Basic Re	36
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	261
	POLYTRONIX INC	Texas	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	50
	R&D TOTAL				347

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AD42	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	\$ 50
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	81
	BIRDAIR STRUCTURES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	
	CHEM FAB CORPORATION	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	180
	CLEMONSON UNIVERSITY	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	371
	DU PONT E I DE NMOURS COMPANY	Delaware	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	77
	ENGINE RESEARCH ASSOCIATES	Indiana	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	36
	FROST ENGINEERING DEVELOPMENT	Colorado	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	45
	KAPPLER SAFETY GROUP INC	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	50
	MATERIAL CONCEPTS INC	Ohio	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	75
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	50
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	307
	RADIATION MONITORING DEVICES	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	160
	SYSTEM DYNAMICS INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	100
	TENSAR STRUCTURES INC	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	289
	R&D TOTAL				1,871
AD43	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	50
	BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Advanced	200
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	1,802
	INTERNATIONAL THERMAL RESEARCH	BOTSWANA	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	90
	MILLIMETER WAVE TECHNOLOGY	Georgia	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	440
	R&D TOTAL				2,582
AD44	BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	326-
	BROWN DAYTON T INC	New York	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	66-
	GENTEX CORPORATION	Penn	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	922

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD44 (CONTINUED)					
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	31
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	5,413
	STV ENGINEERS INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	1,003
	WICKES MANUFACTURING COMPANY	California	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	193
	R&D TOTAL				7,170
AD45	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	200
	KETRON INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	70
	MARITIME DYNAMICS INC	California	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	58
	PERCEPTONICS INC	Michigan	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	25
	TRACTELL INC	Ohio	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	42
	R&D TOTAL				395
AD51	HONIG INDUSTRIAL DIAMOND WHEEL	New York	NAVY	RDTE/Fuels and Lubricants-Basic Research	159-
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	66
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	134
	R&D TOTAL				41
AD52	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	145
	GEO CENTERS INC	D.C.	NAVY	RDTE/Fuels and Lubricants-Exploratory Deve	492
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	99
		Missouri	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	200
	CONTRACTOR TOTAL				299
	PHOENIX CHEMICAL LABORATORY	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	48
	SIGNAL RESEARCH CENTER INC	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	51
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	703

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD52 (CONTINUED)					
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	814
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	344
		Florida	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	444
		Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	465
	CONTRACTOR TOTAL				1,253
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	140
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,920
	R&D TOTAL				5,865
AD53	RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Fuels and Lubricants-Advanced Develop	105
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	1,291
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Advanced Develop	100
	R&D TOTAL				1,496
AD56	LUBRICATING SPC COMPANY	California	USAF	RDTE/Fuels and Lubricants-Management & Sup	94
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Fuels and Lubricants-Management & Sup	45
	R&D TOTAL				139
AD61	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Construction-Basic Research	708
	APPLIED RESEARCH CORPORATION	D.C.	NAVY	RDTE/Construction-Basic Research	878
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Construction-Basic Research	327
	ITT CORPORATION	Virginia	ARMY	RDTE/Construction-Basic Research	383
	MC DONNELL DOUGLAS INCO INC	Florida	ARMY	RDTE/Construction-Basic Research	785
	OKLAHOMA STATE UNIVERSITY	Virginia	ARMY	RDTE/Construction-Basic Research	56
	SCI TEC INC	New Jersey	ARMY	RDTE/Construction-Basic Research	250
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Construction-Basic Research	600

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD61 (CONTINUED)					
	THREE C SYSTEMS INC	Penn	USAF	RDTE/Construction-Basic Research	\$ 404
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Construction-Basic Research	150
	R&D TOTAL				4,541
AD62	ANAMET LABORATORIES INC	California	USAF	RDTE/Construction-Exploratory Development	50
	ENGINEERING INCORPORATED	Virginia	ARMY	RDTE/Construction-Exploratory Development	50
	GENERAL ELECTRIC CO	Ohio	NAVY	RDTE/Construction-Exploratory Development	960
	GEO CENTERS INC	Mass	ARMY	RDTE/Construction-Exploratory Development	259
	GREEN MOUNTAIN RADIO RES CO	Vermont	ARMY	RDTE/Construction-Exploratory Development	330
	HONEYWELL INC	Mass	ARMY	RDTE/Construction-Exploratory Development	294
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Construction-Exploratory Development	49
			USAF	RDTE/Construction-Exploratory Development	288
	COUNTRY TOTAL				337
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Construction-Exploratory Development	231
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Construction-Exploratory Development	240
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Construction-Exploratory Development	102
	PACIFIC SIERRA RESEARCH CORP	N Carolina	NAVY	RDTE/Construction-Exploratory Development	50
	POLAROID CORPORATION	Mass	ARMY	RDTE/Construction-Exploratory Development	574
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Construction-Exploratory Development	100
	S C S TELECOM INC	New York	ARMY	RDTE/Construction-Exploratory Development	54
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Exploratory Development	41
	SCIENCE APPLICATIONS INTL CORP	D.C.	NAVY	RDTE/Construction-Exploratory Development	638
		Virginia	ARMY	RDTE/Construction-Exploratory Development	1,200
			NAVY	RDTE/Construction-Exploratory Development	486
	COUNTRY TOTAL				1,686

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AD62 (CONTINUED)	CONTRACTOR TOTAL				\$ 2,324
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Construction-Exploratory Development	30
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Construction-Exploratory Development	766
	R&D TOTAL				6,792
AD63	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Construction-Advanced Development	252
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Construction-Advanced Development	70
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Construction-Advanced Development	264
	BBN SYSTEMS & TECH CORP	Mass	NAVY	RDTE/Construction-Advanced Development	993
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Construction-Advanced Development	200
	EDWARDS CMMNCTIONS ELC OPTIONS	Virginia	ARMY	RDTE/Construction-Advanced Development	500
	ELECTRO MAGNETIC APPLICATION	New Mexico	NAVY	RDTE/Construction-Advanced Development	25
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Construction-Advanced Development	465
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Construction-Advanced Development	82,623
	SRI INTERNATIONAL	California	ARMY	RDTE/Construction-Advanced Development	77
	TRW INC	California	NAVY	RDTE/Construction-Advanced Development	758
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Construction-Advanced Development	235
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Advanced Development	130
	R&D TOTAL				86,592
AD64	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Construction-Engineering Development	186
	MICREL INCORPORATED	California	ARMY	RDTE/Construction-Engineering Development	226
	SUNDSTRAND SERVICE CORPORATION	Illinois	NAVY	RDTE/Construction-Engineering Development	244
	R&D TOTAL				656
AD65	BUNDESAMT FUER WEHRTECHNIK	GERMANY, F	ARMY	RDTE/Construction-Operational Systems Deve	129
	PACIFIC SIERRA RESEARCH CORP	New Mexico	ARMY	RDTE/Construction-Operational Systems Deve	854

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD65 (CONTINUED)					
	PITT-DES MOINES INC	Penn	NAVY	RDTE/Construction-Operational Systems Deve	\$ 663
	SEMA INC	Virginia	ARMY	RDTE/Construction-Operational Systems Deve	600
	SPERRY CORPORATION	Virginia	NAVY	RDTE/Construction-Operational Systems Deve	158
	R&D TOTAL				2,404
	AD66 COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Construction-Management & Support	479
	JAYCOR	Virginia	NAVY	RDTE/Construction-Management & Support	156
	LOCUS INC	Penn	NAVY	RDTE/Construction-Management & Support	200
	R&D TOTAL				835
	AD91 A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	488
	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Other Defense-Basic Research	629
			NAVY	RDTE/Other Defense-Basic Research	175
	COUNTRY TOTAL				804
	ABT ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	32
	ADVANCE ENVIRONMENT RESEARCH	Virginia	ARMY	RDTE/Other Defense-Basic Research	176
	ADVANCED DECISION SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	156
	ADVANCED SCIENCES INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research	130
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	925
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Other Defense-Basic Research	159
	AEROJET	California	NAVY	RDTE/Other Defense-Basic Research	237
	AEROJET STRATEGIC PROPULSION	California	NAVY	RDTE/Other Defense-Basic Research	90
	AERONEX INC	Florida	NAVY	RDTE/Other Defense-Basic Research	100
	AGOURON INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	150
	ALABAMA CRYOGENIC ENGINEERING	Alabama	NAVY	RDTE/Other Defense-Basic Research	249

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AD91 (CONTINUED)					
	ALCATEL N V	Conn	NAVY	RDTE/Other Defense-Basic Research	\$ 45
	ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Defense-Basic Research	354
	ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	100
		D.C.	NAVY	RDTE/Other Defense-Basic Research	205
		Maryland	NAVY	RDTE/Other Defense-Basic Research	16,170
					16,475
	CONTRACTOR TOTAL				100
	ALLIED SIGNAL INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	91
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	79
		N Carolina	NAVY	RDTE/Other Defense-Basic Research	270
	CONTRACTOR TOTAL				495
	AM BIOTECHNOLOGY COMPANY	Maryland	NAVY	RDTE/Other Defense-Basic Research	100
	AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	366
	AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Defense-Basic Research	604
	AMERICAN RED CROSS THE	D.C.	NAVY	RDTE/Other Defense-Basic Research	2,389
	AMERICAN SOC FOR ENGRG EDCTON	D.C.	NAVY	RDTE/Other Defense-Basic Research	125
	AMOCO TECHNOLOGY CO	California	NAVY	RDTE/Other Defense-Basic Research	37
	AMRON CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	30
	ANALYSIS & TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	215
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Other Defense-Basic Research	65
	ANALYTICS INCORPORATED	Penn	USAF	RDTE/Other Defense-Basic Research	6,232
	ANALYTIX ELECTRONIC SYSTEMS	N.H.	NAVY	RDTE/Other Defense-Basic Research	50
	ANAREN MICROWAVE INC	New York	NAVY	RDTE/Other Defense-Basic Research	471
	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Other Defense-Basic Research	

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AD91 (CONTINUED)					
	APPLIED PHYSICS TECHNOLOGY	Virginia	NAVY	RDTE/Other Defense-Basic Research	\$ 30
	APPLIED SYSTEMS ENGINEERING	Texas	NAVY	RDTE/Other Defense-Basic Research	31
	AQUANAUTICS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	1,066
	ARCTIC ANALYSTS INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	69
	ARDAK CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	400
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	983
		Virginia	NAVY	RDTE/Other Defense-Basic Research	450
	CONTRACTOR TOTAL				1,433
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Other Defense-Basic Research	717
	ASSOC OF UNIV FOR RSCH IN ASTR	D.C.	NAVY	RDTE/Other Defense-Basic Research	50
	ASSOCIATED UNIVERSITIES INC	New York	NAVY	RDTE/Other Defense-Basic Research	212
	ASSURANCE TECHNOLOGY CORP	Florida	NAVY	RDTE/Other Defense-Basic Research	899
		Mass	NAVY	RDTE/Other Defense-Basic Research	8,201
	CONTRACTOR TOTAL				9,100
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Other Defense-Basic Research	69
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	298
	AUSTIN RESEARCH ASSOCIATES	Texas	NAVY	RDTE/Other Defense-Basic Research	130
	B K DYNAMICS INC	California	NAVY	RDTE/Other Defense-Basic Research	93
		Maryland	NAVY	RDTE/Other Defense-Basic Research	75
	CONTRACTOR TOTAL				168
	B-K TECHNOLOGIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	344
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	760
	BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	281

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AD91 (CONTINUED)					
	BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	95
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Other Defense-Basic Research	269
	BAYLOR UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	139
	BBN ADVANCED COMPUTERS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	57
	BDM CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	256
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	2,666
			NAVY	RDTE/Other Defense-Basic Research	1,158
					3,824
				COUNTRY TOTAL	
	BELL COMMUNICATIONS RESEARCH	New Jersey	NAVY	RDTE/Other Defense-Basic Research	101
	BETAC CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	115
	BIGELOW LAB FOR OCEAN SCNCES	Maine	NAVY	RDTE/Other Defense-Basic Research	77
	BIOPHOTONICS	Wisconsin	NAVY	RDTE/Other Defense-Basic Research	50
	BIOSPHERICAL INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Basic Research	247
	BOEING COMPANY THE	Washington	NAVY	RDTE/Other Defense-Basic Research	239
			USAF	RDTE/Other Defense-Basic Research	204
					443
				COUNTRY TOTAL	
	BOEING ELECTRONICS INC	Washington	ARMY	RDTE/Other Defense-Basic Research	124
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Other Defense-Basic Research	4,202
	BOSTON UNIVERSITY TRUSTEES OF	Mass	NAVY	RDTE/Other Defense-Basic Research	243
	BOWLING GREEN STATE UNIVERSITY	Ohio	NAVY	RDTE/Other Defense-Basic Research	50
	BRIGHAM YOUNG UNIVERSITY	Utah	NAVY	RDTE/Other Defense-Basic Research	267
	BROWN UNIVERSITY	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	3,922
	C & L ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	37
	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	6,214

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AD91 (CONTINUED)					
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	239
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Defense-Basic Research	75
	CALSPAN CORPORATION	New York	NAVY	RDTE/Other Defense-Basic Research	114
			USAF	RDTE/Other Defense-Basic Research	228
	COUNTRY TOTAL				342
	CAMBRIDGE HYDRO-DYNAMICS INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	326
			USAF	RDTE/Other Defense-Basic Research	50
	COUNTRY TOTAL				376
	CAMPBELL ENGINEERING INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	1,204
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Other Defense-Basic Research	37-
			NAVY	RDTE/Other Defense-Basic Research	322
	COUNTRY TOTAL				285
	CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Defense-Basic Research	52
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Defense-Basic Research	343
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	3,435
	CASE WESTERN RESERVE UNIV	Ohio	NAVY	RDTE/Other Defense-Basic Research	1,605
			USAF	RDTE/Other Defense-Basic Research	50
	COUNTRY TOTAL				1,655
	CATERPILLAR INC	Illinois	ARMY	RDTE/Other Defense-Basic Research	240
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Defense-Basic Research	422
	CERAMATEC INC	Utah	NAVY	RDTE/Other Defense-Basic Research	174
	CHASE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	94
	CHEMETEK	Oregon	ARMY	RDTE/Other Defense-Basic Research	50
	CHEMICAL DYNAMICS CORP	Maryland	NAVY	RDTE/Other Defense-Basic Research	55
	CHIA SHUN YIH	Michigan	NAVY	RDTE/Other Defense-Basic Research	25

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	\$
AD91 (CONTINUED)					
	CITY COLLEGE OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research	50
	CITY UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research	411
	CLARK ATLANTA UNIVERSITY	Georgia	NAVY	RDTE/Other Defense-Basic Research	330
	CLARK UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	109
	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Other Defense-Basic Research	257
	COHERENT INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	110
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Defense-Basic Research	200
	COLORADO SCHOOL OF MINES	Colorado	NAVY	RDTE/Other Defense-Basic Research	361
	COLORADO STATE UNIVERSITY	Colorado	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	30 791
		COUNTRY TOTAL			821
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	5,495
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	3,082
	COMPUTATIONAL LOGIC INC	Texas	NAVY	RDTE/Other Defense-Basic Research	140
	COMPUTER CONVERSIONS CORP	New York	NAVY	RDTE/Other Defense-Basic Research	42
	COMPUTER DATA SYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	197
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Basic Research	714
	COORDINATING RESEARCH COUNCIL	Georgia	ARMY	RDTE/Other Defense-Basic Research	140
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Basic Research	799
	CORDEC CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	450
	CORNELL UNIVERSITY	New York	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	200 3,442
		COUNTRY TOTAL			3,642
	CORNING INC	New York	NAVY	RDTE/Other Defense-Basic Research	100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	200
	CRYSTALLUME	California	NAVY	RDTE/Other Defense-Basic Research	356
	DARTMOUTH COLLEGE	N.H.	NAVY	RDTE/Other Defense-Basic Research	1,101
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Basic Research	262
	DEACON RESEARCH	California	NAVY	RDTE/Other Defense-Basic Research	135
	DECISION INFORMATION SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Basic Research	155
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Defense-Basic Research	147
	DECISION SCIENCE CONSORTIUM	Virginia	NAVY	RDTE/Other Defense-Basic Research	108
	DEFENSE GROUP INC THE	Virginia	NAVY	RDTE/Other Defense-Basic Research	150
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	5,582
	DESIGNERS & PLANNERS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	48
	DIAMOND MATERIALS INSTITUTE	Penn	NAVY	RDTE/Other Defense-Basic Research	433
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Basic Research	142
	DIGITAL OPTICS INC	Michigan	NAVY	RDTE/Other Defense-Basic Research	349
	DIGITAL SIGNAL CORPORATION	Virginia	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	128 49
		COUNTRY TOTAL			177
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	250
	DONMAR LTD	California	USAF	RDTE/Other Defense-Basic Research	48
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Basic Research	100
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	476
	DU PONT E I DE NMOURS COMPANY	Delaware	USAF	RDTE/Other Defense-Basic Research	100
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Basic Research	847

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Basic Research	70
	DYNAMET TECHNOLOGY INC	Mass	ARMY	RDTE/Other Defense-Basic Research	80
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Basic Research	120
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	778
	E G & G MASON RESEARCH INST	Mass	NAVY	RDTE/Other Defense-Basic Research	101
	E G & G WASHINGTON ALALYTL SVC	Maryland	NAVY	RDTE/Other Defense-Basic Research	139
		Mass	NAVY	RDTE/Other Defense-Basic Research	325
	CONTRACTOR TOTAL				464
	E I C LABORATORY INC	Mass	NAVY	RDTE/Other Defense-Basic Research	363
	E O CONSULTING	California	NAVY	RDTE/Other Defense-Basic Research	69
	E OIR MEASUREMENTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	75
	E P L ANALYSIS	Maryland	NAVY	RDTE/Other Defense-Basic Research	91
	EASTMAN KODAK COMPANY	New York	NAVY	RDTE/Other Defense-Basic Research	200
	EDUCATIONAL TESTING SERVICE	New Jersey	NAVY	RDTE/Other Defense-Basic Research	139
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Basic Research	60
	ELEWAVE VALTEC CABLE PDS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	926
	ELTRON RESEARCH INCORPORATED	Illinois	NAVY	RDTE/Other Defense-Basic Research	50
	EMORY UNIVERSITY	Georgia	NAVY	RDTE/Other Defense-Basic Research	215
	ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	190
	ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Defense-Basic Research	1,233
			USAF	RDTE/Other Defense-Basic Research	220
	COUNTRY TOTAL				1,453
	ERG SYSTEMS INC	New York	NAVY	RDTE/Other Defense-Basic Research	47

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&L DESCRIPTION	
AJ91 (CONTINUED)					
	EXCEL TECHNOLOGY INC	New York	NAVY	RDTE/Other Defense-Basic Research	50
	FAILURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Other Defense-Basic Research	50
	FALCON SYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	100
	FATIGUE TECHNOLOGY INC	Washington	NAVY	RDTE/Other Defense-Basic Research	50
	FEDERAL AMRCN ASSN ADMIN BLOGY	Maryland	NAVY	RDTE/Other Defense-Basic Research	63
	FELTECH INC	Florida	NAVY	RDTE/Other Defense-Basic Research	57
	FERRANTI INSTRUMENTATION LTD	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research	71
	FLORIDA ATLANTIC UNIVERSITY	Florida	NAVY	RDTE/Other Defense-Basic Research	38
	FLORIDA STATE UNIVERSITY	Florida	NAVY	RDTE/Other Defense-Basic Research	63
	FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Basic Research	670
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Other Defense-Basic Research	370
	FLUID PHYSICS INC	California	USAF	RDTE/Other Defense-Basic Research	61
	FMC CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	190
	FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Other Defense-Basic Research	123
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Basic Research	350
	FOUNDATION FOR SOVIET STUDENTS	Maryland	ARMY	RDTE/Other Defense-Basic Research	35
	FUJITA T THEODORE	Illinois	NAVY	RDTE/Other Defense-Basic Research	60
	G T E LABORATORIES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	37
	GENERAL ATOMICS	California	ARMY NAVY	RDTE/Other Defense-Basic Research	40 168
		COUNTRY TOTAL			208
	CENERAL DYNAMICS CORPORATION	Calif. rnia	ARMY NAVY	RDTE/Other Defense-Basic Research	1,130 210
		COUNTRY TOTAL			1,340

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL ELECTRIC CO				
		Conn	NAVY	RDTE/Other Defense-Basic Research	\$ 86
		Arizona	USAF	RDTE/Other Defense-Basic Research	1,426
		Mass	NAVY	RDTE/Other Defense-Basic Research	198
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	200
		New York	NAVY	RDTE/Other Defense-Basic Research	142
			USAF	RDTE/Other Defense-Basic Research	247
				RDTE/Other Defense-Basic Research	108
	COUNTRY TOTAL				355
		Ohio	USAF	RDTE/Other Defense-Basic Research	140
	CONTRACTOR TOTAL				1,035
	GENERAL HOSPITAL CORPORATION				61
	GENERAL MOTORS CORPORATION				127
	GENERAL RESEARCH CORPORATION				329
	GEO CENTERS INC				100
	GEORGE MASON UNIVERSITY				554
	GEORGE WASHINGTON UNIV THE				288
	GEORGETOWN UNIVERSITY				122
	GEORGIA STATE OF				248
	GEORGIA STATE UNIVERSITY				30
	GEORGIA TECH RESEARCH INST				1,862
			USAF	RDTE/Other Defense-Basic Research	397
	COUNTRY TOTAL				2,259
	GRAMMATECH INC				50
	HARRIS CORPORATION				2,390
		New York	NAVY	RDTE/Other Defense-Basic Research	351
		Florida	NAVY	RDTE/Other Defense-Basic Research	
			USAF	RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AD91 (CONTINUED)						
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Basic Research	\$	473
			NAVY	RDTE/Other Defense-Basic Research		125
		COUNTRY TOTAL				598
	I W G CORP	California	NAVY	RDTE/Other Defense-Basic Research		59
	ICECASTING INC	Washington	NAVY	RDTE/Other Defense-Basic Research		84
	IMPACT ASSESSMENT INC	California	NAVY	RDTE/Other Defense-Basic Research		29
	INDIANA UNIVERSITY FOUNDATION	Indiana	NAVY	RDTE/Other Defense-Basic Research		223
	INERTIA SWITCH INC	New York	NAVY	RDTE/Other Defense-Basic Research		122
	INFORMATION PLANNING ASSOC	Virginia	NAVY	RDTE/Other Defense-Basic Research		776
	INFORMATION SPECTRUM INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		60
	INFORMATION VENTURES INC	Penn	NAVY	RDTE/Other Defense-Basic Research		33
	INFOSOFT DESIGN ASSOC	Penn	NAVY	RDTE/Other Defense-Basic Research		30
	INSTITUTE FOR SCIENTIFIC STUD	Texas	NAVY	RDTE/Other Defense-Basic Research		97
	INTERACTIVE TV COMPANY	Virginia	ARMY	RDTE/Other Defense-Basic Research		2,195
	INTERNATIONAL BUS MCHS CORP	California	NAVY	RDTE/Other Defense-Basic Research		699
		New York	NAVY	RDTE/Other Defense-Basic Research		1,025
		Virginia	NAVY	RDTE/Other Defense-Basic Research		138
	CONTRACTOR TOTAL					1,862
	INTERNATIONAL FUEL CELLS CORP	Conn	NAVY	RDTE/Other Defense-Basic Research		425
	INTRASPACE CORP	Utah	NAVY	RDTE/Other Defense-Basic Research		4,042
	IOWA STATE UNIV SCNC	Iowa	NAVY USAF	RDTE/Other Defense-Basic Research		226 84
		COUNTRY TOTAL				310
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Other Defense-Basic Research		630

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)	ITT CORPORATION	Indiana	USAF	RDTE/Other Defense-Basic Research	252
		New Jersey	USAF	RDTE/Other Defense-Basic Research	425
	CONTRACTOR TOTAL				677
	JACKSON LABORATORY THE	Maine	NAVY	RDTE/Other Defense-Basic Research	88
	JACKSON STATE UNIVERSITY	Miss	NAVY	RDTE/Other Defense-Basic Research	56
	JAYCOR	Virginia	NAVY	RDTE/Other Defense-Basic Research	94
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Basic Research	2,455
	JORTNER RESEARCH & ENGRG	Illinois	NAVY	RDTE/Other Defense-Basic Research	50
	KANSAS STATE UNIVERSITY	Kansas	NAVY	RDTE/Other Defense-Basic Research	251
	KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	296
	KEIRON INC	Penn	NAVY	RDTE/Other Defense-Basic Research	66
	KOR ELECTRONICS	California	NAVY	RDTE/Other Defense-Basic Research	635
	L N K CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	427
	LA JOLLA INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	685
	LANXIDE CORP	Delaware	NAVY	RDTE/Other Defense-Basic Research	1,830
	LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research	243
	LEHIGH UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	850
	LIFE CELL CORP	Texas	NAVY	RDTE/Other Defense-Basic Research	50
	LITHIUM ENERGY ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	LITTON INDUSTRIES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	412
	LITTON SYSTEMS INC	California	ARMY	RDTE/Other Defense-Basic Research	250
		Georgia	ARMY	RDTE/Other Defense-Basic Research	1,581
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	85

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	LOCKHEED CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	1,916
	LOCKHEED MISSILES & SPACE CO	California	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	75 1,615 1,055
		COUNTRY TOTAL			2,670
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Basic Research	538
	LORAL CORPORATION	Ohio	NAVY	RDTE/Other Defense-Basic Research	210
	LOUISIANA STATE UNIVERSITY	Louisiana	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	740 50
		COUNTRY TOTAL			790
	LOYOLA COLLEGE	Maryland	NAVY	RDTE/Other Defense-Basic Research	64
	LOYOLA UNIVERSITY OF CHICAGO	Illinois	NAVY	RDTE/Other Defense-Basic Research	48
	M M R TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Basic Research	79
	MAC AULAY BROWN INC	Ohio	ARMY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	98 1,410
		COUNTRY TOTAL			1,508
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	USAF	RDTE/Other Defense-Basic Research	404
	MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Basic Research	184
	MARINE BIOLOGICAL LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research	49
	MARINE IMAGING SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	281
	MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	284
		Florida	ARMY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	29 100
		COUNTRY TOTAL			129
		Maryland	NAVY	RDTE/Other Defense-Basic Research	277

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	MARYLAND MEDICAL LABORATORY	Maryland	NAVY	RDTE/Other Defense-Basic Research	690
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Other Defense-Basic Research	50-
			USAF	RDTE/Other Defense-Basic Research	15,757
					110
		COUNTRY TOTAL			15,867
	MASSACHUSETTS UNIVERSITY OF	Mass	NAVY	RDTE/Other Defense-Basic Research	2,222
	MATERIAL & ELECTROCHEMICAL RES	Arizona	USAF	RDTE/Other Defense-Basic Research	500
	MATERIAL MODIFICATIONS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	53
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Defense-Basic Research	148
	MATERIALS TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Defense-Basic Research	55
	MAXIM TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Basic Research	226
	MAYO FOUNDATION	New York	NAVY	RDTE/Other Defense-Basic Research	50
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	1,885
	MCPHEE RESEARCH CO	Washington	NAVY	RDTE/Other Defense-Basic Research	181
	MEDICAL COLLEGE OF PA	Penn	NAVY	RDTE/Other Defense-Basic Research	139
	MEDICAL RES FNDTION OF OREGON	Oregon	NAVY	RDTE/Other Defense-Basic Research	37
	MEDWIN HERMAN DR	California	NAVY	RDTE/Other Defense-Basic Research	55
	MEMORY METALS CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research	45
	MEMPHIS STATE UNIVERSITY	Tennessee	NAVY	RDTE/Other Defense-Basic Research	164
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Basic Research	90
	MERRIFIELD LABORATORIES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	97
	MESA INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	253
	METRATEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	111

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AD91 (CONTINUED)					
	METSAT INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	\$ 598
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research	451
	MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	87 68
		COUNTRY TOTAL			155
	MICROELECTRONICS CENTER OF NORTH CAROLINA	North Carolina	NAVY	RDTE/Other Defense-Basic Research	120
	MINISTRY OF DEFENSE UK	UNITED KINGDOM	ARMY	RDTE/Other Defense-Basic Research	2,440
	MINNESOTA MINING & MANUFACTURING COMPANY	Minnesota	USAF	RDTE/Other Defense-Basic Research	195
	MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY	Missouri	NAVY	RDTE/Other Defense-Basic Research	367
	MOLECULAR TECH INC	Massachusetts	USAF	RDTE/Other Defense-Basic Research	49
	MONTANA STATE UNIVERSITY	Montana	NAVY	RDTE/Other Defense-Basic Research	164
	MONTEREY BAY	California	NAVY	RDTE/Other Defense-Basic Research	56
	NATIONAL ACADEMY OF SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Basic Research	771
	NATIONAL OPINION RESEARCH CENTER	Illinois	NAVY	RDTE/Other Defense-Basic Research	103
	NATIONAL SCIENCE FOUNDATION	D.C.	NAVY	RDTE/Other Defense-Basic Research	850
	NATIONAL TECHNOLOGICAL UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Basic Research	100
	NEUROSCIENCES RESEARCH FOUNDATION	New York	NAVY	RDTE/Other Defense-Basic Research	307
	NEW HAMPSHIRE UNIVERSITY SYSTEM	N.H.	NAVY	RDTE/Other Defense-Basic Research	100
	NEW JERSEY INSTITUTE OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	81
	NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Basic Research	340
	NEW YORK UNIVERSITY	New York	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	109 1,221
		COUNTRY TOTAL			1,330
	NICHOLS RESEARCH CORPORATION	Alabama	NAVY	RDTE/Other Defense-Basic Research	122

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Basic Research	\$ 31
	NORTH AMER CORROSION CONSULT	Ohio	NAVY	RDTE/Other Defense-Basic Research	50
	NORTH CAROLINA A & T UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	245
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	2,868
	NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Other Defense-Basic Research	50
	NORTHEASTERN OH UNIV CLG MD	Ohio	NAVY	RDTE/Other Defense-Basic Research	48
	NORTHEASTERN UNIVERSITY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	176
	NORTHERN ILLINOIS UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	99
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	1,000
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Other Defense-Basic Research	218
	NORTHWEST RSCH ASSOC INC	Washington	NAVY	RDTE/Other Defense-Basic Research	160
	NORTHWESTERN UNIVERSITY	Illinois	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	943 100
		COUNTRY TOTAL			1,043
	NOVA UNIVERSITY INC	Florida	NAVY	RDTE/Other Defense-Basic Research	72
	OAKLAND UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research	28
	OCEAN DATA SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	1,732
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Other Defense-Basic Research	685
	OHIO STATE UNIVERSITY	Ohio	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	108 575 66
		COUNTRY TOTAL			749
	OKLAHOMA STATE UNIVERSITY	Oklahoma	NAVY	RDTE/Other Defense-Basic Research	197
	OLD DMNION UNIV RES FOUNDATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	225

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Other Defense-Basic Research	\$	110
OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Basic Research		371
OPTICOMP CORPORATION	Nevada	NAVY	RDTE/Other Defense-Basic Research		580
OPTIVISION INC	California	NAVY	RDTE/Other Defense-Basic Research		300
OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Basic Research		300
		USAF	RDTE/Other Defense-Basic Research		61
	COUNTRY TOTAL				361
OREGON GRAD CNTR STUDY RESERCH	Oregon	NAVY	RDTE/Other Defense-Basic Research		125
OREGON STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Defense-Basic Research		4,093
ORINCOR CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		289
ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Basic Research		57
OVONIC SYNTHETIC MATERIALS CO	Michigan	NAVY	RDTE/Other Defense-Basic Research		162
PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Defense-Basic Research		834
PARKER HANNIFIN CORPORATION	California	USAF	RDTE/Other Defense-Basic Research		120
PENNSYLVANIA STATE UNIV THE	Penn	ARMY	RDTE/Other Defense-Basic Research		67
		NAVY	RDTE/Other Defense-Basic Research		5,316
	COUNTRY TOTAL				5,383
PENNZOIL COMPANY	Texas	NAVY	RDTE/Other Defense-Basic Research		83
PFCCEPTRONICS INC	California	ARMY	RDTE/Other Defense-Basic Research		92
PERK N ELMER CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research		2,000
PERSONNEL DCSONS RES INSTITUTE	Minnesota	NAVY	RDTE/Other Defense-Basic Research		432
PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research		358
PHYSICAL DYNAMICS INC	California	NAVY	RDTE/Other Defense-Basic Research		57
	Virginia	NAVY	RDTE/Other Defense-Basic Research		362

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

CONTRACTOR TOTAL					\$	419
PHYSICAL RESEARCH INC	California	NAVY	RDTE/Other Defense-Basic Research		75	
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Basic Research		1,092	
	Mass	NAVY	RDTE/Other Defense-Basic Research		268	
CONTRACTOR TOTAL					1,360	
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Basic Research		2,232	
POLARIS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		716	
POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research		747	
PORTLAND STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Defense-Basic Research		50	
POWER SPECTRA INC	California	NAVY	RDTE/Other Defense-Basic Research		94	
PRECISION NAVIGATION INC	California	ARMY	RDTE/Other Defense-Basic Research		142	
PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research		3,204	
PRODUCT PLANNING INC	Illinois	NAVY	RDTE/Other Defense-Basic Research		50	
PROFESSIONAL MANAGEMENT ASSOC	Maryland	NAVY	RDTE/Other Defense-Basic Research		149	
PROGRAM RESOURCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		285	
PUBLIC HEALTH RESEARCH	New York	NAVY	RDTE/Other Defense-Basic Research		49	
PULSE SCIENCES INC	California	NAVY	RDTE/Other Defense-Basic Research		148	
PURDUE UNIVERSITY	Indiana	NAVY USAF	RDTE/Other Defense-Basic Research		4,022	
			RDTE/Other Defense-Basic Research		37	
COUNTRY TOTAL					4,059	
QUANTEX CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		263	
QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research		54	
QUESTTECH INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		200	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	1,467
	RADIATION SCIENCE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	60
	RAVEN INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	136
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Defense-Basic Research	409
		Rhode Isl	NAVY	RDTE/Other Defense-Basic Research	276
	CONTRACTOR TOTAL				685
	RDA INTL	California	ARMY	RDTE/Other Defense-Basic Research	252
	REKENTHALER TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Other Defense-Basic Research	50
	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other Defense-Basic Research	48
			NAVY	RDTE/Other Defense-Basic Research	2,953
	COUNTRY TOTAL				3,001
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Other Defense-Basic Research	218
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Other Defense-Basic Research	634
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	94
	RICE WILLIAM MARSH UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	502
	RIVERSIDE RESEARCH INSTITUTE	New York	NAVY	RDTE/Other Defense-Basic Research	113
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Basic Research	2,470
			USAF	RDTE/Other Defense-Basic Research	141
	COUNTRY TOTAL				2,611
	RONDOUT ASSOCIATES INC	New York	NAVY	RDTE/Other Defense-Basic Research	198
	ROSWELL PARK MEM INST	New York	NAVY	RDTE/Other Defense-Basic Research	199
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Basic Research	83
	ROWE DEINES INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Basic Research	234
	RUTGERS THE STATE UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	1,200

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	SACHS FREEMAN ASSOCIATES INC	D.C	NAVY	RDTE/Other Defense-Basic Research	\$ 2,340
	SAN JOSE STATE UNIVERSITY	California	NAVY	RDTE/Other Defense-Basic Research	264
			USAF	RDTE/Other Defense-Basic Research	55
		COUNTRY TOTAL			319
	SANDIA CORPORATION	New Mexico	NAVY	RDTE/Other Defense-Basic Research	190
	SCHAFFER W J ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	900
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Basic Research	50
	SCHMITT TECHNOLOGY	Conn	NAVY	RDTE/Other Defense-Basic Research	287
	SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Defense-Basic Research	792
		Virginia	NAVY	RDTE/Other Defense-Basic Research	93
	CONTRACTOR TOTAL				885
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Defense-Basic Research	8,217
		Colorado	ARMY	RDTE/Other Defense-Basic Research	90
		D.C.	NAVY	RDTE/Other Defense-Basic Research	443
		Virginia	ARMY	RDTE/Other Defense-Basic Research	675
			NAVY	RDTE/Other Defense-Basic Research	863
			USAF	RDTE/Other Defense-Basic Research	75
	COUNTRY TOTAL				1,613
	CONTRACTOR TOTAL				10,363
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research	1,596
	SCIENTIFIC COMPUTING ASSOC	Conn	NAVY	RDTE/Other Defense-Basic Research	62
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Other Defense-Basic Research	433
	SCRIPPS CLINIC RES FOUNDATION	California	NAVY	RDTE/Other Defense-Basic Research	205
	SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	108

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	SIAGENIC INC	Indiana	NAVY	RDTE/Other Defense-Basic Research	\$ 250
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Basic Research	50
	SIGNITION INCORPORATED	New Mexico	NAVY	RDTE/Other Defense-Basic Research	248
	SMITHSONIAN INSTITUTION	Mass	NAVY	RDTE/Other Defense-Basic Research	150
	SOFTWARE CONSULTANT INTL LTD	Washington	NAVY	RDTE/Other Defense-Basic Research	346
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Basic Research	359
	SONOGUEST ADVANCED	Mass	NAVY	RDTE/Other Defense-Basic Research	52
	SOUTH CAROLINA RES AUTHORITY	S Carolina	NAVY	RDTE/Other Defense-Basic Research	14,225
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Basic Research	379
		Mass	USAF	RDTE/Other Defense-Basic Research	113
	CONTRACTOR TOTAL				492
	SOUTHERN ILLINCIS UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	314
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Defense-Basic Research	4,570
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Basic Research	3,050
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Defense-Basic Research	98
			NAVY	RDTE/Other Defense-Basic Research	229
	COUNTRY TOTAL				327
	SPACE COMPUTER CORP	California	NAVY	RDTE/Other Defense-Basic Research	485
	SPACE POWER INCORPORATED	California	NAVY	RDTE/Other Defense-Basic Research	320
	SPACE TECH CORP	Colorado	NAVY	RDTE/Other Defense-Basic Research	48
	SPARTA INC	California	NAVY	RDTE/Other Defense-Basic Research	292
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Basic Research	80
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Basic Research	5,337

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)				
STANFORD LELAND JUNIOR UNIV				
	COUNTRY TOTAL	USAF	RDTE/Other Defense-Basic Research	\$ 182
	California	NAVY	RDTE/Other Defense-Basic Research	5,519
		USAF	RDTE/Other Defense-Basic Research	13,866
	COUNTRY TOTAL			79
				13,945
	New Jersey	NAVY	RDTE/Other Defense-Basic Research	145
				14,090
CONTRACTOR TOTAL				1,846
STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research	174
STEVENS INST OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	177
STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	181
	NAVY	RDTE/Other Defense-Basic Research	358	
COUNTRY TOTAL				157
STRATEGIC RESEARCH & MGT SVS	Virginia	NAVY	RDTE/Other Defense-Basic Research	43
SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	209
SWALES & ASSOCIATES	Maryland	NAVY	RDTE/Other Defense-Basic Research	590
SWALES & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	49
SYNERGEN INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	150
SYNERGY INC	D. C.	NAVY	RDTE/Other Defense-Basic Research	254
SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	27
SYNTEK ENGRG COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Basic Research	47
SYNTEX ENGR & COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Basic Research	216
SYRACUSE UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	3,727
SYSTEMS & ELECTRONICS INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	50
SYSTEMS & PROCESSES ENGRG CORP	Texas	NAVY	RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AD91 (CONTINUED)					
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Defense-Basic Research	\$ 2,907
	SYSTEMS PLANNING CORP	Virginia	ARMY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	5,488 206
		COUNTRY TOTAL			5,694
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Basic Research	1,865
		Texas	USAF	RDTE/Other Defense-Basic Research	37
		COUNTRY TOTAL			1,902
	CONTRACTOR TOTAL				118
	TECHNO-SCIENCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	128
	TECHNOLOGY U S A INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Basic Research	200
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research	67
		Texas	NAVY	RDTE/Other Defense-Basic Research	267
	CONTRACTOR TOTAL				613
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Defense-Basic Research	105
	TEXAS CHRISTIAN UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	99
	TEXAS INSTRUMENTS INCORPORATED	Colorado	USAF	RDTE/Other Defense-Basic Research	2,116
		Texas	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	312
		COUNTRY TOTAL			2,428
	CONTRACTOR TOTAL				2,527
	TEXAS TECH UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	80
	THERMO ELECTRON TECH CORP	California	NAVY	RDTE/Other Defense-Basic Research	2,332
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research	672
	THIOLKOL CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	123
		Utah	NAVY	RDTE/Other Defense-Basic Research	65

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	THOMSON CSF INC	California	NAVY	RDTE/Other Defense-Basic Research	188
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Basic Research	150
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Basic Research	398
	TRIFID CORP	Missouri	ARMY	RDTE/Other Defense-Basic Research	397
	TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Basic Research	50
	TRUAX ENGINEERING INC	California	NAVY	RDTE/Other Defense-Basic Research	1,637
	TRW INC	California	NAVY	RDTE/Other Defense-Basic Research	842
		Georgia	NAVY	RDTE/Other Defense-Basic Research	6,338
		USAF	USAF	RDTE/Other Defense-Basic Research	207
		Ohio	USAF	RDTE/Other Defense-Basic Research	1,458
	CONTRACTOR TOTAL				8,003
	TUFTS UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	56
	TULANE UNIVERSITY	Louisiana	NAVY	RDTE/Other Defense-Basic Research	105
	TUSKEGEE UNIVERSITY	Alabama	NAVY	RDTE/Other Defense-Basic Research	270
	U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	75
	ULTRAMET	California	NAVY	RDTE/Other Defense-Basic Research	50
	UNISYS CORPORATION	Penn	NAVY	RDTE/Other Defense-Basic Research	1,915
		Virginia	USAF	RDTE/Other Defense-Basic Research	937
	CONTRACTOR TOTAL				2,852
	UNITED STATES DEPT ENERGY	California	NAVY	RDTE/Other Defense-Basic Research	363
		D.C.	NAVY	RDTE/Other Defense-Basic Research	400
		Illinois	NAVY	RDTE/Other Defense-Basic Research	230
		Tennessee	NAVY	RDTE/Other Defense-Basic Research	238

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
CONTRACTOR TOTAL					
	UNITED STATES DEPT INTERIOR				
		Arizona	NAVY	RDTE/Other Defense-Basic Research	1,231
		California	NAVY	RDTE/Other Defense-Basic Research	30
		Virginia	NAVY	RDTE/Other Defense-Basic Research	122
					30
					182
	UNITED STATES DEPT OF COMMERCE				
		Colorado	NAVY	RDTE/Other Defense-Basic Research	297
		Maryland	NAVY	RDTE/Other Defense-Basic Research	2,222
		Miss	NAVY	RDTE/Other Defense-Basic Research	70
		Washington	NAVY	RDTE/Other Defense-Basic Research	249
					2,838
	CONTRACTOR TOTAL				1,921
	UNITED TECHNOLOGIES CORP				
		Conn	NAVY	RDTE/Other Defense-Basic Research	1,921
		Florida	NAVY	RDTE/Other Defense-Basic Research	1,636
		USAF	RDTE/Other Defense-Basic Research	29	
					1,665
					3,586
					2,342
	CONTRACTOR TOTAL				49
	UNIVERSAL ENERGY SYSTEMS INC				
		Ohio	USAF	RDTE/Other Defense-Basic Research	43
		New York	ARMY	RDTE/Other Defense-Basic Research	50
		Ohio	NAVY	RDTE/Other Defense-Basic Research	163
		Alabama	NAVY	RDTE/Other Defense-Basic Research	924
		Alaska	NAVY	RDTE/Other Defense-Basic Research	204
		Arizona	NAVY	RDTE/Other Defense-Basic Research	30,365
		Arkansas	NAVY	RDTE/Other Defense-Basic Research	
		California	NAVY	RDTE/Other Defense-Basic Research	

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other	Defense-Basic	Research	\$
AD91 (CONTINUED)								
UNIVERSITY OF CENTRAL FLORIDA	Florida	ARMY	RDTE/Other Defense-Basic Research					640
		NAVY	RDTE/Other Defense-Basic Research					31,005
								100
								451
								551
UNIVERSITY OF CHICAGO THE	Illinois	NAVY	RDTE/Other Defense-Basic Research					1,355
UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Other Defense-Basic Research					1,259
UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Other Defense-Basic Research					1,473
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Defense-Basic Research					1,784
UNIVERSITY OF DELAWARE	Delaware	NAVY	RDTE/Other Defense-Basic Research					389
		USAF	RDTE/Other Defense-Basic Research					69
								458
UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Other Defense-Basic Research					865
UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Defense-Basic Research					100
		NAVY	RDTE/Other Defense-Basic Research					60
								160
UNIVERSITY OF GEORGIA	Georgia	NAVY	RDTE/Other Defense-Basic Research					50
UNIVERSITY OF HAWAII	Hawaii	NAVY	RDTE/Other Defense-Basic Research					1,574
UNIVERSITY OF HEALTH SCIENCES	Illinois	NAVY	RDTE/Other Defense-Basic Research					100
UNIVERSITY OF HOUSTON SYSTEM	Texas	NAVY	RDTE/Other Defense-Basic Research					213
UNIVERSITY OF IDAHO	Idaho	NAVY	RDTE/Other Defense-Basic Research					52
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Defense-Basic Research					220
		NAVY	RDTE/Other Defense-Basic Research					6,378
		USAF	RDTE/Other Defense-Basic Research					143
								6,741
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Defense-Basic Research					140

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AD91 (CONTINUED)					
			NAVY	RDTE/Other Defense-Basic Research	\$ 435
		COUNTRY TOTAL			575
	UNIVERSITY OF KANSAS	Kansas	NAVY	RDTE/Other Defense-Basic Research	153
	UNIVERSITY OF KENTUCKY	Kentucky	NAVY	RDTE/Other Defense-Basic Research	161
	UNIVERSITY OF LOUISVILLE	Kentucky	NAVY	RDTE/Other Defense-Basic Research	65
	UNIVERSITY OF LOWELL	Mass	NAVY	RDTE/Other Defense-Basic Research	231
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Other Defense-Basic Research	3,589
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Other Defense-Basic Research	66
	UNIVERSITY OF MICHIGAN	Michigan	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	167 2,754 140
		COUNTRY TOTAL			3,061
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	27,500 745
		COUNTRY TOTAL			28,245
	UNIVERSITY OF MISSISSIPPI	Miss	NAVY	RDTE/Other Defense-Basic Research	176
	UNIVERSITY OF NEBRASKA	Nebraska	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	204 104
		COUNTRY TOTAL			308
	UNIVERSITY OF NEW MEXICO	New Mexico	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	230 48
		COUNTRY TOTAL			278
		Texas	NAVY	RDTE/Other Defense-Basic Research	50
	CONTRACTOR TOTAL				328
	UNIVERSITY OF NORTH CAROLINA	N Carolina	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	135 1,320

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AD91 (CONTINUED)				
		USAF	RDTE/Other Defense-Basic Research	\$ 150
	COUNTRY TOTAL			1,605
UNIVERSITY OF NOTRE DAME	Indiana	NAVY	RDTE/Other Defense-Basic Research	43
		USAF	RDTE/Other Defense-Basic Research	32
	COUNTRY TOTAL			75
UNIVERSITY OF OREGON	Oregon	NAVY	RDTE/Other Defense-Basic Research	579
UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Other Defense-Basic Research	4,983
UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Other Defense-Basic Research	900
		USAF	RDTE/Other Defense-Basic Research	26
	COUNTRY TOTAL			926
UNIVERSITY OF PUERTO RICO	Puerto Ric	NAVY	RDTE/Other Defense-Basic Research	210
UNIVERSITY OF RHODE ISLAND	Rhode Isl	NAVY	RDTE/Other Defense-Basic Research	1,947
UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Other Defense-Basic Research	789
UNIVERSITY OF SOUTH ALABAMA	Alabama	NAVY	RDTE/Other Defense-Basic Research	120
UNIVERSITY OF SOUTH CAROLINA	S Carolina	NAVY	RDTE/Other Defense-Basic Research	133
UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Basic Research	329
UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Defense-Basic Research	2,910
		NAVY	RDTE/Other Defense-Basic Research	2,945
	COUNTRY TOTAL			5,855
UNIVERSITY OF TENNESSEE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	881
UNIVERSITY OF TEXAS SYSTEM	Nebraska	ARMY	RDTE/Other Defense-Basic Research	75
	Texas	NAVY	RDTE/Other Defense-Basic Research	2,766
		USAF	RDTE/Other Defense-Basic Research	92
	COUNTRY TOTAL			2,858
CONTRACTOR TOTAL				2,933

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AD91 (CONTINUED)						
	UNIVERSITY OF UTAH	Utah	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	\$	591 818
		COUNTRY TOTAL				1,409
	UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Other Defense-Basic Research		639
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Basic Research		10,509
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Other Defense-Basic Research		1,674
	UNIVERSITY OF WYOMING	Wyoming	NAVY	RDTE/Other Defense-Basic Research		413
	VANDERBILT UNIVERSITY THE	Tennessee	NAVY	RDTE/Other Defense-Basic Research		93
	VARIAN ASSOCIATES INC	California	NAVY	RDTE/Other Defense-Basic Research		417
	VECTOR RESEARCH INC	Michigan	USAF	RDTE/Other Defense-Basic Research		49
	VEXCEL CORPORATION	Colorado	ARMY	RDTE/Other Defense-Basic Research		55
	VIRGINIA COMMONWEALTH UNIV	Virginia	NAVY	RDTE/Other Defense-Basic Research		124
	VIRGINIA PLYTECHNIC INST/ST UNI	Virginia	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		818 522
		COUNTRY TOTAL				1,340
	VISTA RESEARCH INC	California	NAVY	RDTE/Other Defense-Basic Research		200
	VMS CONSULTING ENGINEERS	New York	ARMY	RDTE/Other Defense-Basic Research		76
		Oregon	ARMY	RDTE/Other Defense-Basic Research		384
						460
	CONTRACTOR TOTAL					160
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Basic Research		58
	WALLACE T H INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		743
	WASHINGTON STATE UNIVERSITY	Washington	NAVY	RDTE/Other Defense-Basic Research		259
	WASHINGTON UNIVERSITY	Missouri	NAVY	RDTE/Other Defense-Basic Research		236
	WAYNE STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research		50
	WELDING ENGINEERS INC	Penn	NAVY	RDTE/Other Defense-Basic Research		

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	WEST VIRGINIA UNIVERSITY	W Virginia	NAVY	RDTE/Other Defense-Basic Research	\$ 119
	WESTEC SERVICES INC	California	NAVY	RDTE/Other Defense-Basic Research	79
	WESTERN MICHIGAN UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research	96
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	12,223
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Basic Research	2,028
			NAVY	RDTE/Other Defense-Basic Research	50
		COUNTRY TOTAL			2,078
		Mass	ARMY	RDTE/Other Defense-Basic Research	110
		Penn	NAVY	RDTE/Other Defense-Basic Research	152
			USAF	RDTE/Other Defense-Basic Research	215
		COUNTRY TOTAL			367
	CONTRACTOR TOTAL				2,555
	WINDROCK ASSOC	Tennessee	ARMY	RDTE/Other Defense-Basic Research	51
	WOODS HOLE OCEANOGRAPHIC	Mass	NAVY	RDTE/Other Defense-Basic Research	42
	WOODS HOLE OCEANOGRAPHIC INSTUTE	Mass	NAVY	RDTE/Other Defense-Basic Research	12,760
	WRIGHT STATE UNIVERSITY	Ohio	NAVY	RDTE/Other Defense-Basic Research	74
			USAF	RDTE/Other Defense-Basic Research	559
		COUNTRY TOTAL			633
	XEROX CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	100
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50
	XONTECH INC	California	NAVY	RDTE/Other Defense-Basic Research	80
	YALE UNIVERSITY	Conn	NAVY	RDTE/Other Defense-Basic Research	2,393
	YESHIVA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	65
	ZERNOW TECHNICAL SERVICES INC	California	NAVY	RDTE/Other Defense-Basic Research	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AD92	A A I CORPORATION	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	522,711 135 200
		COUNTRY TOTAL			335
	A P A OPTICS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	50
	A T & T TECHNOLOGIES INC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	1,595
		N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				1,645
	ACME DIVAC INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	93
	ACUREX CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	190
	ADAPTIVE OPTICS ASSOCIATES	Mass	USAF	RDTE/Other Defense-Exploratory Development	469
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Exploratory Development	221
	ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development	110
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	910
	ADVANCED DECISION SYSTEMS	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,799 1,661
		COUNTRY TOTAL			3,460
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	216
	ADVANCED PROJECTS RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	60
	ADVANCED RES & APPLICATIONS	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	516 267
		COUNTRY TOTAL			783
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	156
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	450

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

ADVANCED TECHNOLOGY MTLs DEL	Conn	ARMY NAVY	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	\$ 75 574
	COUNTRY TOTAL				649
ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	275
AEROCON INC	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	47
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other	Defense-Exploratory Development	290
AEROJET	California	USAF	RDTE/Other	Defense-Exploratory Development	1,109
AEROLIFT INC	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	888
AEROVIRONMENT INC	California	USAF	RDTE/Other	Defense-Exploratory Development	152
AGBABIAN ASSOCIATES	California	ARMY	RDTE/Other	Defense-Exploratory Development	61
ALGOSTAR INCORPORATED	Illinois	ARMY	RDTE/Other	Defense-Exploratory Development	64
ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	179 1,918
	COUNTRY TOTAL				2,097
	California	NAVY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	1,015 300
	COUNTRY TOTAL				1,315
	Indiana	NAVY	RDTE/Other	Defense-Exploratory Development	80
	Maryland	NAVY	RDTE/Other	Defense-Exploratory Development	300
	Nevada	ARMY	RDTE/Other	Defense-Exploratory Development	3,302
					7,094
CONTRACTOR TOTAL					2,310
ALLIED SIGNAL INC	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development	
ALLOY SURFACES CO	Delaware	NAVY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	435 186
	COUNTRY TOTAL				621

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AD92 (CONTINUED)					
	ALPHA CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	\$ 73
	ALPHATECH INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	221
	AMERICAN ELECTRONICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	242
	AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	55
	AMERICAN MAGNETICS INC	Tennessee	NAVY	RDTE/Other Defense-Exploratory Development	476
	AMERINEX ARTIFICIAL INTELLIGEN	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Defense-Exploratory Development	290
	AMPARO CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	244
	ANADAC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	99
	ANALYTIC SCIENCES CORP THE	California	ARMY	RDTE/Other Defense-Exploratory Development	627
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	200
			USAF	RDTE/Other Defense-Exploratory Development	1,625
	COUNTRY TOTAL				1,825
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	80
	CONTRACTOR TOTAL				2,532
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	522
	ANALYTICAL SYSTEMS ENGRG CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	42
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	1,038
	CONTRACTOR TOTAL				1,080
	ANALYTICS INCORPORATED	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	79
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	138
	CONTRACTOR TOTAL				217
	ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	386
	ANDERSEN ARTHUR & CO	Illinois	USAF	RDTE/Other Defense-Exploratory Development	57

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ANRO ENGINEERING CONSULTANTS	Florida	ARMY	RDTE/Other Defense-Exploratory Development	55
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Exploratory Development	175
	APCOT CORPORATION	Penn	NAVY	RDTE/Other Defense-Exploratory Development	30
	APD CRYOGENICS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	95
	APEX ENVIRONMENTAL INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	93
	APPLIED ELECTROMAGNETICS INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	119
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,691
		N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	71
	CONTRACTOR TOTAL				1,762
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	2,788
	APPLIED SCIENCE ASSOCIATES	Penn	USAF	RDTE/Other Defense-Exploratory Development	165
	APPLIED SYSTEMS ENGINEERING	Texas	NAVY	RDTE/Other Defense-Exploratory Development	36
	APPLIED THEORY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	419
	APTEK INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	914
	ARCO POWER TECHNOLOGY	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	152
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Exploratory Development	50
	ARRAL INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,707
	ASTRON RESEARCH & ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development	28
			USAF	RDTE/Other Defense-Exploratory Development	70
	COUNTRY TOTAL				98
	ASTRONAUTICS CORP AMERICA	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	269
	ATHENA ENGINEERING CO	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	270

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	56
	ATLANTIC RESEARCH CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	399
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	340
			NAVY	RDTE/Other Defense-Exploratory Development	134
			USAF	RDTE/Other Defense-Exploratory Development	1,236
	COUNTRY TOTAL				1,710
	CONTRACTOR TOTAL				2,109
	ATM CORP	Conn	ARMY	RDTE/Other Defense-Exploratory Development	73
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,279
	AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Other Defense-Exploratory Development	389
	AUTO INFO & MANAGE SYS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	47
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	688
	AUTOMETRIC INC	New York	USAF	RDTE/Other Defense-Exploratory Development	55
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	49
	CONTRACTOR TOTAL				104
	AVCO CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	1,747
			USAF	RDTE/Other Defense-Exploratory Development	253
	COUNTRY TOTAL				2,000
	AVOGADRO ENERGY SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	586
	BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	889
	BALL CORPORATION	Colorado	USAF	RDTE/Other Defense-Exploratory Development	250
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	5,325
			USAF	RDTE/Other Defense-Exploratory Development	504
	COUNTRY TOTAL				5,829

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	BBN COMMUNICATIONS CORP	Mass	USAF	RDTE/Other Defense-Exploratory Development	\$ 356
	BDM CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,000
	BDM INTERNATIONAL INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	2,448
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	6,484
			USAF	RDTE/Other Defense-Exploratory Development	53
	COUNTRY TOTAL				6,537
	CONTRACTOR TOTAL				9,185
	BDM MANAGEMENT SERVICES CO	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	99
	BECHTEL NATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	5,400
	BEECHER RESEARCH CO	Ohio	USAF	RDTE/Other Defense-Exploratory Development	75
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	140
	BENMOL CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	175
	BERKELEY RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	822
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,572
	CONTRACTOR TOTAL				2,394
	BETHESDA TECHNICAL SUPPORT CO	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	56
	BIOMAGNETIC TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	479
	BLUESTONE PRO FARMS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	50
	BOEING COMPANY THE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	6,238
		Kansas	USAF	RDTE/Other Defense-Exploratory Development	228
		Washington	ARMY	RDTE/Other Defense-Exploratory Development	633
			USAF	RDTE/Other Defense-Exploratory Development	3,223
	COUNTRY TOTAL				3,856
	CONTRACTOR TOTAL				10,322

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	EOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 496
			USAF	RDTE/Other Defense-Exploratory Development	725
		COUNTRY TOTAL			1,221
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	36
					1,257
	B00Z ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	3,432
			USAF	RDTE/Other Defense-Exploratory Development	150
		COUNTRY TOTAL			3,582
		Texas	USAF	RDTE/Other Defense-Exploratory Development	262
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	493
					4,337
		COUNTRY TOTAL			360
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	49
	BROWN R G ASSOCIATES	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	700
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	27
	BURKE TECHNOLOGIES INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	2,618
	C A E INDUSTRIES LTD	Arizona	USAF	RDTE/Other Defense-Exploratory Development	50
	C B & F ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	62
	C M C ELECTRONICS INC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	173
	C S R INC	D.C.	USAF	RDTE/Other Defense-Exploratory Development	685
	CACI INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	50
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Other Defense-Exploratory Development	2,734
	CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development	117
	CALL RECALL	California	USAF	RDTE/Other Defense-Exploratory Development	35
	CALSPAN CORPORATION	Alabama	USAF	RDTE/Other Defense-Exploratory Development	46
		Arizona	USAF	RDTE/Other Defense-Exploratory Development	

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AD92 (CONTINUED)

	California	USAF	RDTE/Other	Defense-Exploratory Development	\$ 419
	Colorado	USAF	RDTE/Other	Defense-Exploratory Development	99
	Conn	USAF	RDTE/Other	Defense-Exploratory Development	100
	Florida	USAF	RDTE/Other	Defense-Exploratory Development	75
	Mass	USAF	RDTE/Other	Defense-Exploratory Development	85
	New York	ARMY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	353 4,370
	COUNTRY TOTAL				4,723
	Penn	ARMY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	40 75
	COUNTRY TOTAL				115
CONTRACTOR TOTAL					5,697
CAMPBELL ENGINEERING INC	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	139
CANADIAN COMMERCIAL CORP	CANADA	ARMY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	309 272
	COUNTRY TOTAL				581
CARNEGIE MELLON UNIVERSITY	Penn	ARMY USAF	RDTE/Other RDTE/Other	Defense-Exploratory Development Defense-Exploratory Development	1,123 6,455
	COUNTRY TOTAL				7,578
CARPENTER RESEARCH CORP	California	ARMY	RDTE/Other	Defense-Exploratory Development	250
CARTWRIGHT ELECTRONICS INC	California	USAF	RDTE/Other	Defense-Exploratory Development	953
CAS INC	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	1,247
CASCADE MICROTECH INC	Oregon	ARMY	RDTE/Other	Defense-Exploratory Development	50
CASE WESTERN RESERVE UNIV	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	585
CENTURY COMPUTING INC	Maryland	NAVY	RDTE/Other	Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		\$
AD92 (CONTINUED)						
	CERAMICS PROCESS SYSTEMS CORP	Mass	NAVY	RDTE/Other Defense-Exploratory Development		1,260
	CERAMPHYSICS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		200
	CFD RESEARCH CORP	Alabama	NAVY	RDTE/Other Defense-Exploratory Development		67
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		360
	CHAN COMPUTER	New York	NAVY	RDTE/Other Defense-Exploratory Development		557
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		194
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		50
	CHIRP CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		482
	CHRONOS RESEARCH LABORATORIES	California	ARMY	RDTE/Other Defense-Exploratory Development		50
	CICCONE V J & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		56
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development		92
	COBRO CORPORATION	Missouri	ARMY	RDTE/Other Defense-Exploratory Development		172
	COGNITECH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		47
	COGNITIVE SYSTEMS INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development		50
	COLLINS INTERNATIONAL SVC CO	Texas	USAF	RDTE/Other Defense-Exploratory Development		50
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Other Defense-Exploratory Development		26
	COMAR INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		57
	COMPOUND ENGINE CONSULTANTS IN	Arizona	ARMY	RDTE/Other Defense-Exploratory Development		55
	COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		2,109
	COMPUTER CORPORATION AMERICA	Mass	USAF	RDTE/Other Defense-Exploratory Development		410
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		3,975
		Virginia	USAF	RDTE/Other Defense-Exploratory Development		226
	CONTRACTOR TOTAL					4,201

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	COMPUTER SYSTEMS & RESOURCES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	\$ 224
	CONCEPT ENGINEERING	Washington	ARMY	RDTE/Other Defense-Exploratory Development	429
	CONCURRENT COMPUTER CORP	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	350
	CONTEL FEDERAL SYSTEMS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	201
	CONTROL DATA CANADA LIMITED	Penn	NAVY	RDTE/Other Defense-Exploratory Development	61
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	127
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	727
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Defense-Exploratory Development	193
	CORP FOR STUDIES & ANALYSIS	California	NAVY	RDTE/Other Defense-Exploratory Development	47
	CORPORATE INTERIORS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	676
	CORPORATE SYSTEMS GROUP	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	53
	CORVUS SYSTEMS INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	83
	COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	258
	CRAY RESEARCH INC	Minnesota	NAVY	RDTE/Other Defense-Exploratory Development	30-
	CREARE RESEARCH & DEVELOPMENT	California	ARMY	RDTE/Other Defense-Exploratory Development	285
		N.H.	ARMY	RDTE/Other Defense-Exploratory Development	200
	CONTRACTOR TOTAL				485
	CROTON INSTITUTE LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	304
	CRYO-POWER ASSOCIATES	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	56
	C.S./STALLUME	California	ARMY	RDTE/Other Defense-Exploratory Development	65
	CTA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Exploratory Development	294
	DAEDALUS RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	52
	DAMASKOS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	99
	DATAMETRICS RESEARCH INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	81

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Exploratory Development	64
	DAYCHEM LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	170
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	120
	DEACON RESEARCH	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,227
			USAF	RDTE/Other Defense-Exploratory Development	550
		COUNTRY TOTAL			1,777
	DEFENSE GROUP INC THE	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	146
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	100
	DEFENSE SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	656
	DESCRIPT	Texas	ARMY	RDTE/Other Defense-Exploratory Development	41
	DEVELCO INCORPORATED	California	NAVY	RDTE/Other Defense-Exploratory Development	45
	DIEHL GMBH & CO	GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development	486
	DIGITAL BASICS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	67
	DIGITAL EQUIPMENT CORPORATION	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	175-
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	225
	DOVE ELECTRONICS INC	New York	USAF	RDTE/Other Defense-Exploratory Development	39
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Exploratory Development	991
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	47
			USAF	RDTE/Other Defense-Exploratory Development	832
		COUNTRY TOTAL			879
	DU PONT E I DE NMOURS COMPANY	Delaware	ARMY	RDTE/Other Defense-Exploratory Development	2,743
			USAF	RDTE/Other Defense-Exploratory Development	180
		COUNTRY TOTAL			2,923

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	DYNA EAST CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development	\$ 125
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	318
	DYNACORP APPLIED TECHNOLOGY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	346
	DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,478
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	342
		Tennessee	ARMY	RDTE/Other Defense-Exploratory Development	165
	CONTRACTOR TOTAL				507
	E G & G WASHINGTON ALALYTL SVC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	200
	E I C LABORATORY INC	Mass	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	464 284
	COUNTRY TOTAL				748
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	50
	EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	921
		Colorado	USAF	RDTE/Other Defense-Exploratory Development	497
		Missouri	USAF	RDTE/Other Defense-Exploratory Development	234
	CONTRACTOR TOTAL				1,652
	EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	648
	EAGLE TECHNOLOGY INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	226
	EARTH SATELLITE CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	68
	EARTH TECHNOLOGY CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	98
	EASTMAN KODAK COMPANY	New York	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,583 45 76
	COUNTRY TOTAL				1,704
	EATON CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

EBASCO SERVICES INCORPORATED	New York	ARMY	RDTE/Other Defense-Exploratory Development	\$	5,300
EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Exploratory Development		74
ELECTRO DESIGN MANUFACTURING	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		401
ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		49
ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		64
ELECTRONIC ASSOCIATES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		1,038
	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		1,578
CONTRACTOR TOTAL					2,616
ELECTRONIC DECISIONS INC	Illinois	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		46 3,916
	COUNTRY TOTAL				3,962
EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Other Defense-Exploratory Development		93
ENGINEERING RESEARCH ASSOC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		100
ENGINEERING METHODS APPLICATIONS	Florida	ARMY	RDTE/Other Defense-Exploratory Development		255
ENVIRONMENTAL RESEARCH	Michigan	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		191 1,139
	COUNTRY TOTAL				1,330
EPITAXX INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		49
EPSILON LAMBDA ELECTRONICS	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		66
ERNST MACHINSTITUT	GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development		186
ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		144
ETAK INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development		109
EWA INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development		50
EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	EXFLUOR RESEARCH CORPORATION	Texas	NAVY	RDTE/Other Defense-Exploratory Development	396
	FALCON ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,675
	FAR WEST SENSOR CORP	California	USAF	RDTE/Other Defense-Exploratory Development	50
	FLUROCHEM INC	California	NAVY	RDTE/Other Defense-Exploratory Development	454
	FLUID PHYSICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	168
	FLUIDYNE ENGINEERING CORP	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	500
	FMC CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	51
		Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	3,930
	CONTRACTOR TOTAL				3,981
	FORD AEROSPACE COMMCTIONS CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	996
		NAVY		RDTE/Other Defense-Exploratory Development	50
	COUNTRY TOTAL				1,046
		Colorado	USAF	RDTE/Other Defense-Exploratory Development	130
	CONTRACTOR TOTAL				1,176
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	924
		USAF		RDTE/Other Defense-Exploratory Development	297
	COUNTRY TOTAL				1,221
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Other Defense-Exploratory Development	299
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Exploratory Development	225
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				275
	FROST ENGINEERING DEVELOPMENT	Colorado	USAF	RDTE/Other Defense-Exploratory Development	50
	FUENTEZ SYSTEMS CONCEPTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	50
	G & F COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development	10,578

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)	G M HUGHES ELECTRONICS CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	46
	G T E LABORATORIES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	62
	GARJAK RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	416
	GENCORP INC	California	ARMY	RDTE/Other Defense-Exploratory Development	3,668
		USAF	RDTE/Other Defense-Exploratory Development	273	
	COUNTRY TOTAL				9,941
	GENERAL ATOMICS	California	ARMY	RDTE/Other Defense-Exploratory Development	270
		NAVY	RDTE/Other Defense-Exploratory Development	656	
		USAF	RDTE/Other Defense-Exploratory Development	262	
	COUNTRY TOTAL				1,188
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	9,326
		USAF	RDTE/Other Defense-Exploratory Development	276	
	COUNTRY TOTAL				9,602
	CONTRACTOR TOTAL				416
	GENERAL ELECTRIC CO	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	6,063
	Texas	USAF	RDTE/Other Defense-Exploratory Development	485	
COUNTRY TOTAL				16,566	
	Arizona	USAF	RDTE/Other Defense-Exploratory Development	4,556	
	Mass	ARMY	RDTE/Other Defense-Exploratory Development	225	
	NAVY	RDTE/Other Defense-Exploratory Development	204		
	USAF	RDTE/Other Defense-Exploratory Development	80		
COUNTRY TOTAL				509	
	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	94	
	NAVY	RDTE/Other Defense-Exploratory Development	385		
	USAF	RDTE/Other Defense-Exploratory Development	286		
COUNTRY TOTAL				765	
	New York	ARMY	RDTE/Other Defense-Exploratory Development	433	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

			NAVY	RDTE/Other Defense-Exploratory Development	\$	435
			USAF	RDTE/Other Defense-Exploratory Development		2,702
		COUNTRY TOTAL				3,570
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development		19,000
			NAVY	RDTE/Other Defense-Exploratory Development		143
			USAF	RDTE/Other Defense-Exploratory Development		3,545
		COUNTRY TOTAL				22,688
		Penn	ARMY	RDTE/Other Defense-Exploratory Development		2,601
			USAF	RDTE/Other Defense-Exploratory Development		122
		COUNTRY TOTAL				2,723
		Vermont	ARMY	RDTE/Other Defense-Exploratory Development		1,134
						35,945
	CONTRACTOR TOTAL					377
	GENERAL INDICATOR CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,225
	GENERAL MGT ASSOCIATES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		756
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Other Defense-Exploratory Development		4,018
			USAF	RDTE/Other Defense-Exploratory Development		4,774
		COUNTRY TOTAL				2,213
		California	ARMY	RDTE/Other Defense-Exploratory Development		2,242
			USAF	RDTE/Other Defense-Exploratory Development		4,455
		COUNTRY TOTAL				1,000
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development		5,455
						74
	CONTRACTOR TOTAL	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		733
	GEO CENTERS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		540
		Mass	ARMY	RDTE/Other Defense-Exploratory Development		1,347
	CONTRACTOR TOTAL					

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	\$ 50
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Defense-Exploratory Development	6,218
			NAVY	RDTE/Other Defense-Exploratory Development	165
			USAF	RDTE/Other Defense-Exploratory Development	5,130
	COUNTRY TOTAL				11,513
	CONTRACTOR TOTAL				74
		Texas	USAF	RDTE/Other Defense-Exploratory Development	11,587
	GEOSPECTRA CORPORATION	Michigan	USAF	RDTE/Other Defense-Exploratory Development	50
	GIORDANO ASSOCIATES INC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	118
	GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	47
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	94
	GLOBAL INFO SYSTEMS TECHNOLOGY	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	200
	GOODRICH B F COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development	400
	GRAHAM RESEARCH	Penn	ARMY	RDTE/Other Defense-Exploratory Development	49
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	196
		New York	ARMY	RDTE/Other Defense-Exploratory Development	593
			USAF	RDTE/Other Defense-Exploratory Development	925
	COUNTRY TOTAL				1,518
	CONTRACTOR TOTAL				1,714
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Exploratory Development	300
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Other Defense-Exploratory Development	500
			USAF	RDTE/Other Defense-Exploratory Development	50
	COUNTRY TOTAL				550
	H & N INSTRUMENTS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	236
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	500
			USAF	RDTE/Other Defense-Exploratory Development	3,513

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

CONTRACTOR TOTAL		COUNTRY TOTAL	USAF	RDTE/Other Defense-Exploratory Development	\$
HARVARD UNIVERSITY		New York			4,013
HAZELTINE CORPORATION		Mass	ARMY	RDTE/Other Defense-Exploratory Development	250
HCC SCIENCE & TECHNOLOGY CO		New York	USAF	RDTE/Other Defense-Exploratory Development	195
HECHT NIELSEN NEUROCOMPUTER		New Jersey	USAF	RDTE/Other Defense-Exploratory Development	60
HERCULES INCORPORATED		California	ARMY	RDTE/Other Defense-Exploratory Development	50
HILTON SYSTEMS INC		Utah	ARMY	RDTE/Other Defense-Exploratory Development	398
HITTITE MICROWAVE CORPORATION		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	4,965
HONEYWELL FEDERAL SYSTEMS		Mass	NAVY	RDTE/Other Defense-Exploratory Development	49
HONEYWELL INC		Virginia	USAF	RDTE/Other Defense-Exploratory Development	222
		Mass	NAVY	RDTE/Other Defense-Exploratory Development	385
		Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	8,010
			NAVY	RDTE/Other Defense-Exploratory Development	762
			USAF	RDTE/Other Defense-Exploratory Development	3,797
		COUNTRY TOTAL			12,569
		Washington	NAVY	RDTE/Other Defense-Exploratory Development	31
					12,985
		California	ARMY	RDTE/Other Defense-Exploratory Development	1,536
		Maryland	NAVY	RDTE/Other Defense-Exploratory Development	168
		Penn	USAF	RDTE/Other Defense-Exploratory Development	106
					274
		California	ARMY	RDTE/Other Defense-Exploratory Development	6,377
			NAVY	RDTE/Other Defense-Exploratory Development	2,226

CONTRACTOR TOTAL

HORIZONS TECHNOLOGY INC

HRB SINGER INC

CONTRACTOR TOTAL

HUGHES AIRCRAFT COMPANY

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	HUGHES ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	3,101
	HUMAN FACTORS APPLICATIONS	Penn	NAVY	RDTE/Other Defense-Exploratory Development	11,704
	HUTCHINSON F CANCER RESEARCH	Washington	USAF	RDTE/Other Defense-Exploratory Development	310
	HY TECH RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	12,014
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Exploratory Development	329
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	377
			USAF	RDTE/Other Defense-Exploratory Development	101
					752
					1,455
					355
					30
					385
	COUNTRY TOTAL				
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Exploratory Development	100
	I R T CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	80^
	I S I GROUP INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	220
	IBIS TECHNOLOGY CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	96
	ICF INCORPORATED	Louisiana	USAF	RDTE/Other Defense-Exploratory Development	56
	IGR ENTERPRISES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50
	IM TECH CO	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development	50
	IMAGING SCIENCE TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	100
	INCREMENTAL SYSTEMS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development	500
	INDIANA UNIVERSITY FOUNDATION	Indiana	USAF	RDTE/Other Defense-Exploratory Development	67
	INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	55
	INSTITUTE FOREIGN PLCY ANLYS	Mass	ARMY	RDTE/Other Defense-Exploratory Development	550

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	119
	INTEL CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	2,500
	INTELLIGENT SYSTEMS TECHNOLOGY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	341
	INTELLICORP	California	USAF	RDTE/Other Defense-Exploratory Development	622
	INTERGRAPH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	373
	TERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	191
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Other Defense-Exploratory Development	200
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	USAF	RDTE/Other Defense-Exploratory Development	260
	INTERSONICS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	71
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	58
	ITT CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	194
		Indiana	USAF	RDTE/Other Defense-Exploratory Development	239
		New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	414
			USAF	RDTE/Other Defense-Exploratory Development	718
	COUNTRY TOTAL				1,132
	CONTRACTOR TOTAL				1,565
	ITT GILFILLAN	California	USAF	RDTE/Other Defense-Exploratory Development	338
	J K RESEARCH	Montana	ARMY	RDTE/Other Defense-Exploratory Development	156
	JAMIESON SCIENCE & ENGINEERING	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	47
	JAYCOR	California	ARMY	RDTE/Other Defense-Exploratory Development	15,054
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	72
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	140
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	228

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AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	JES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	\$ 1,120
	JOHNS HOPKINS UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	974
	JOHNSON CONTROLS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	17,588
	JSM ASSOCIATES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	70
	KAISER AEROSPACE & ELEC CORP	Nevada	ARMY	RDTE/Other Defense-Exploratory Development	81
	KAMAN SCIENCES CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	360
		California	USAF	RDTE/Other Defense-Exploratory Development	50
		California	ARMY	RDTE/Other Defense-Exploratory Development	196
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	3,686
			USAF	RDTE/Other Defense-Exploratory Development	6,492
					68
					6,560
	COUNTRY TOTAL				
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		230
	New York	USAF	RDTE/Other Defense-Exploratory Development		86
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,124
					11,686
	CONTRACTOR TOTAL				
	KAPOS ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	75
	KARAGOZIAN & CASE	California	ARMY	RDTE/Other Defense-Exploratory Development	592
	KBM ENTERPRISES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	281
	KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Exploratory Development	290
	KETRON INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	34
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	74
	KNOLL INTERNATIONAL HOLDINGS	Indiana	USAF	RDTE/Other Defense-Exploratory Development	120

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	KNOWLEDGE SYSTEMS CONCEPTS	New York	USAF	RDTE/Other Defense-Exploratory Development	265
	KOHLBERG & ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	130
	KOPIN CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	195
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	2,117
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	350
	LACHEL PIEPENBURG & ASSOC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	350
	LASER POWER CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	48
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	100
	LEWIS BROTHERS STAGES INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	1,162
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	455
	LITTON INDUSTRIES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	1,901
	LITTON SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,181
	CONTRACTOR TOTAL	New York	USAF	RDTE/Other Defense-Exploratory Development	143
	LOCKHEED CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,324
		California	USAF	RDTE/Other Defense-Exploratory Development	141
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	1,212
		Georgia	USAF	RDTE/Other Defense-Exploratory Development	1,353
		N.H.	USAF	RDTE/Other Defense-Exploratory Development	4,266
		New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	437
	CONTRACTOR TOTAL				139
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Defense-Exploratory Development	6,195
					17,557

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FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	COUNTRY TOTAL				
		Nevada	ARMY	RDTE/Other Defense-Exploratory Development	250
	CONTRACTOR TOTAL				
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	18,734
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	2,330
	CONTRACTOR TOTAL				
	LOGICA SPACE & DEFENSE SYS INC	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development	688
	LOGICON INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	3,018 650
	COUNTRY TOTAL				
		Nebraska	ARMY	RDTE/Other Defense-Exploratory Development	4,962
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,064
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	6,026
	CONTRACTOR TOTAL				
	LOGISTICS MANAGEMENT ENGRG	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	7,809
	LORAL CORPORATION	Arizona	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	109 478 195
	COUNTRY TOTAL				
		Florida	NAVY	RDTE/Other Defense-Exploratory Development	673
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	74
	CONTRACTOR TOTAL				
	LORAL ELECTRO OPTICAL SYSTEMS	California	USAF	RDTE/Other Defense-Exploratory Development	93
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Other Defense-Exploratory Development	840
					335
					183

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 47 35
		COUNTRY TOTAL			82
	LOWE DONALD ASSOCIATES INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	99
	LSI INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	34
	LTV AEROSPACE & DEF CO	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 545
		COUNTRY TOTAL			595
	M D B SYSTEMS INC	California	NAVY	RDTE/Other Defense-Exploratory Development	28
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	360
	M T L SYSTEMS INC	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	49 259
		COUNTRY TOTAL			308
	M/A COM LINKABIT INC	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	500 1,664
		COUNTRY TOTAL			2,164
	M/A-COM INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	44 105
		COUNTRY TOTAL			149
	M/A-COM PHI INC	California	USAF	RDTE/Other Defense-Exploratory Development	184
	MAC AULAY BROWN INC	Florida	USAF	RDTE/Other Defense-Exploratory Development	700
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	884
	CONTRACTOR TOTAL				
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,467 205
		COUNTRY TOTAL			1,672

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	MAGNESYS	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 50
	MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	3,125
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	65
	CONTRACTOR TOTAL				3,190
	MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	721
	MARK RESOURCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	101
			USAF	RDTE/Other Defense-Exploratory Development	372
	COUNTRY TOTAL				473
	MARKO MATERIALS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100
	MARQUARDT COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development	230
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	2,227
			USAF	RDTE/Other Defense-Exploratory Development	47
	COUNTRY TOTAL				2,274
		Florida	ARMY	RDTE/Other Defense-Exploratory Development	4,195
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,440
			NAVY	RDTE/Other Defense-Exploratory Development	97
			USAF	RDTE/Other Defense-Exploratory Development	281
	COUNTRY TOTAL				2,818
	CONTRACTOR TOTAL				9,287
	MASCON ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	180
	MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	2,411
			NAVY	RDTE/Other Defense-Exploratory Development	795
			USAF	RDTE/Other Defense-Exploratory Development	859
	COUNTRY TOTAL				4,065
	MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Defense-Exploratory Development	679
			USAF	RDTE/Other Defense-Exploratory Development	453
	COUNTRY TOTAL				1,132

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	MATERIALS & ELECTROCHEMICAL	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	50
	MATERIALS TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Defense-Exploratory Development	55
	MAXIM TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	397
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	145
	CONTRACTOR TOTAL				542
	MAXWELL LABORATORIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	30,051
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	224
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	195
	CONTRACTOR TOTAL				30,470
	MAYO FOUNDATION	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	300
	MC CAY TOOL & ENGINEERING CO	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	87
	MC DEAN	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	29
	MC DONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,914
			NAVY	RDTE/Other Defense-Exploratory Development	69
			USAF	RDTE/Other Defense-Exploratory Development	299
	COUNTRY TOTAL				2,282
		Missouri	USAF	RDTE/Other Defense-Exploratory Development	6,554
		Texas	USAF	RDTE/Other Defense-Exploratory Development	40
	CONTRACTOR TOTAL				8,876
	MC LEAN RESEARCH CENTER INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	148
	MCS CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development	483
	MEDICAL SYSTEMS SUPPORT INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	49
	MEI ASSOCIATES INCORPORATED	Mass	USAF	RDTE/Other Defense-Exploratory Development	259
	MEI RESEARCH	California	ARMY	RDTE/Other Defense-Exploratory Development	74

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	\$	132
MERRIFIELD LABORATORIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		100
MERRITT CASES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		33
MESA INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		303
METATECH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		1,250
METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Exploratory Development		701
MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Exploratory Development		1,225
MIDWEST RESEARCH INSTITUTE	Missouri	USAF	RDTE/Other Defense-Exploratory Development		126
MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		353
MILLITECH CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development		250
MINE SAFETY APPLS COMPANY	Penn	ARMY	RDTE/Other Defense-Exploratory Development		148
MISSION RESEARCH CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		10,913 377
	COUNTRY TOTAL				11,290
	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		212
	New Mexico	USAF	RDTE/Other Defense-Exploratory Development		65
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		246
					11,813
CONTRACTOR TOTAL					
MISSOURI UNIVERSITY OF	Missouri	NAVY	RDTE/Other Defense-Exploratory Development		136
MODELL DEVELOPMENT CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development		56
MOLDED FIBER GLASS COMPANIES	Penn	ARMY	RDTE/Other Defense-Exploratory Development		546
MOLZEN CORBIN & ASSOCIATES PA	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		873
MOOG INC	New York	USAF	RDTE/Other Defense-Exploratory Development		100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

MOTOROLA INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	\$	881
MSNW INC	California	ARMY	RDTE/Other Defense-Exploratory Development		55
		USAF	RDTE/Other Defense-Exploratory Development		120
	COUNTRY TOTAL				175
MULTIMAX INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		50
N K F ENGINEERING INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		400
NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Defense-Exploratory Development		1,094
NATIONAL CNCL ON RADTN PRCTN	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		50
NATIONAL SECURITY RESEARCH	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,509
NETWORK SOLUTIONS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,574
NEW YORK UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development		50
NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		203
NEXT	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		61
NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		2,799
		USAF	RDTE/Other Defense-Exploratory Development		97
	COUNTRY TOTAL				2,896
NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Defense-Exploratory Development		265
NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Other Defense-Exploratory Development		317
		USAF	RDTE/Other Defense-Exploratory Development		100
	COUNTRY TOTAL				417
NORTH CAROLINA A & T UNIV	N Carolina	USAF	RDTE/Other Defense-Exploratory Development		192
NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development		192
		NAVY	RDTE/Other Defense-Exploratory Development		350
	COUNTRY TOTAL				542
NORTH STAR RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		65

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					

NORTHROP CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 1,180 1,676 2,856 389 3,245
COUNTRY TOTAL	Illinois	USAF	RDTE/Other Defense-Exploratory Development	
CONTRACTOR TOTAL	Washington	ARMY	RDTE/Other Defense-Exploratory Development	538
NORTHWEST RESEARCH ASSOCIATES	Illinois	USAF	RDTE/Other Defense-Exploratory Development	47
NORTHWESTERN UNIVERSITY	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	58
NUMERICAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	69
OCEAN DATA SYSTEMS INC	New York	USAF	RDTE/Other Defense-Exploratory Development	805
ODYSSEY RESEARCH ASSOCIATES	Ohio	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	492 40 410
OHIO STATE UNIVERSITY	COUNTRY TOTAL			942
OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	517
OPTICAL COATING LABORATORY	California	NAVY	RDTE/Other Defense-Exploratory Development	128
OPTOMETRICS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	54
	Ohio	USAF	RDTE/Other Defense-Exploratory Development	250
CONTRACTOR TOTAL	Mass	ARMY	RDTE/Other Defense-Exploratory Development	304
OPTRON SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	100
ORBITAL SCIENCES CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	6,000
ORD INC	Oregon	NAVY	RDTE/Other Defense-Exploratory Development	244
OREGON GRAD CNTR STUCY RESERCH	California	NAVY	RDTE/Other Defense-Exploratory Development	97
ORTEL CORPORATION				263

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	P C O INC	California	NAVY	RDTE/Other Defense-Exploratory Development	\$ 110
			USAF	RDTE/Other Defense-Exploratory Development	122
		COUNTRY TOTAL			232
	P D A ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development	931
	P D I TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	101
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	2,045
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	2,049
			NAVY	RDTE/Other Defense-Exploratory Development	1,065
		COUNTRY TOTAL			3,114
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,112
					4,226
	CONTRACTOR TOTAL				1,290
	PALISADES INST FOR RES SVCS	New York	USAF	RDTE/Other Defense-Exploratory Development	67
	PAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	147
		Conn	USAF	RDTE/Other Defense-Exploratory Development	2,550
		New York	USAF	RDTE/Other Defense-Exploratory Development	2,764
	CONTRACTOR TOTAL				54
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	180
	PERCEPTRONICS INC	Michigan	USAF	RDTE/Other Defense-Exploratory Development	100
	PERKIN ELMER CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	90
	PHOTO METRIC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	779
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	140
			USAF	RDTE/Other Defense-Exploratory Development	919
		COUNTRY TOTAL			5,408
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$	378
PHYSICON INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		424
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		13,987
PIERCE JOHN B FOUNDATION LAB	Conn	USAF	RDTE/Other Defense-Exploratory Development		109
PINSON ASSOCIATES INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development		240
PLANNING RESEARCH CORPORATION	Nebraska	USAF	RDTE/Other Defense-Exploratory Development		180
	Virginia	USAF	RDTE/Other Defense-Exploratory Development		287
					467
CONTRACTOR TOTAL					1,204
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		50
PLASMATRON COATINGS & SYSTEMS	Penn	ARMY	RDTE/Other Defense-Exploratory Development		56
PLESSEY UK LIMITED	UNITED KIN	USAF	RDTE/Other Defense-Exploratory Development		700
POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Other Defense-Exploratory Development		150
POLYTRONIX INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		200
POTOMAC PHOTONICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		49
POTOMAC SYNEGETICS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		49
PRAXIS INTERNATIONAL INC	Miss	ARMY	RDTE/Other Defense-Exploratory Development		136
PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development		46
PRISMOID OPTICAL CO	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development		165
PROCESSING RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		415
PROGRAMMED COMPOSITES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		419
PROPULSION SCIENCE TECHNOLOGY	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		191
PROSPECTIVE COMPUTER ANALYSTS	New York	ARMY	RDTE/Other Defense-Exploratory Development		32
PSYCHOMETRICS INC	California	USAF	RDTE/Other Defense-Exploratory Development		

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AD92 (CONTINUED)					
	PULSE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	88
	QUADREX CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	88
	QUALCOMM INC	California	USAF	RDTE/Other Defense-Exploratory Development	150
	QUANSCAN INC	California	ARMY	RDTE/Other Defense-Exploratory Development	300
	QUANTEX CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50
		USAF	RDTE/Other Defense-Exploratory Development	90	
		COUNTRY TOTAL			140
	QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	1,777
	QUESTECH INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	200
		NAVY	RDTE/Other Defense-Exploratory Development	673	
		COUNTRY TOTAL			873
	R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	11,641
		NAVY	RDTE/Other Defense-Exploratory Development	50	
		COUNTRY TOTAL			11,691
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	190
		GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development	2,189
					14,070
	CONTRACTOR TOTAL				164
	R J O ENTERPRISES INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	69
	RAMCOR INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	86
	RAYTHEON COMPANY	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	40,506
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	2,569
		USAF	RDTE/Other Defense-Exploratory Development		
		COUNTRY TOTAL			43,075
		Rhode Isld	NAVY	RDTE/Other Defense-Exploratory Development	247
		SPAIN	ARMY	RDTE/Other Defense-Exploratory Development	65-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	RAYTHEON NORTHRP INWS JNT VNTR	California	NAVY	RDTE/Other Defense-Exploratory Development	43,343
	RAYTHEON SERVICE COMPANY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	118
	REGIS CHEMICAL CO	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	456
	RENSELAER POLYTECHNIC INST	New York	NAVY	RDTE/Other Defense-Exploratory Development	50
	RESEARCH ANALYSIS AND MAINT	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	5,148
			NAVY	RDTE/Other Defense-Exploratory Development	279
			USAF	RDTE/Other Defense-Exploratory Development	120
			USAF	RDTE/Other Defense-Exploratory Development	508
	COUNTRY TOTAL				907
	RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other Defense-Exploratory Development	2,345
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	659
			NAVY	RDTE/Other Defense-Exploratory Development	150
			USAF	RDTE/Other Defense-Exploratory Development	1,681
	COUNTRY TOTAL				2,490
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	446
		Texas	ARMY	RDTE/Other Defense-Exploratory Development	207-
	CONTRACTOR TOTAL				2,729
	ROHR INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	230
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	279
	S C S TELECOM INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	47
	S T RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	244
	S Y CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	60
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	1,653
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	126

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	SAN DIEGO SEMICONDUCTORS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 898
	SANDERS ASSOCIATES INC	N.H.	USAF	RDTE/Other Defense-Exploratory Development	1,024
	SANGAMO WESTON INC	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	2,677
	SCHAFFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	52
			USAF	RDTE/Other Defense-Exploratory Development	193
					370
					3,237
					1,594
					4,331
	COUNTRY TOTAL				
	Virginia	ARMY		RDTE/Other Defense-Exploratory Development	100
					4,931
	CONTRACTOR TOTAL				
	SCI TEC INC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	62
	SCIENCE & ENGINEERING ASSOC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	75
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	318
					393
	CONTRACTOR TOTAL				
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	59
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	536
	SCIENCE & TECHNOLOGY INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	96
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	2,752
		California	ARMY	RDTE/Other Defense-Exploratory Development	15,932
			NAVY	RDTE/Other Defense-Exploratory Development	1,102
			USAF	RDTE/Other Defense-Exploratory Development	116
					17,150
	COUNTRY TOTAL				
	Nevada	ARMY		RDTE/Other Defense-Exploratory Development	371
	New Mexico	ARMY		RDTE/Other Defense-Exploratory Development	490

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AD92 (CONTINUED)					

		COUNTRY TOTAL	USAF	RDTE/Other Defense-Exploratory Development	\$	100
			USAF	RDTE/Other Defense-Exploratory Development		590
		Ohio	USAF	RDTE/Other Defense-Exploratory Development		2,079
		Penn	USAF	RDTE/Other Defense-Exploratory Development		129
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development		19,236
			NAVY	RDTE/Other Defense-Exploratory Development		150
			USAF	RDTE/Other Defense-Exploratory Development		593
		COUNTRY TOTAL				19,979
						43,050
						480
						283
						250
		COUNTRY TOTAL				533
						145
						189
						60
						250
						59
						503
		COUNTRY TOTAL				562
						45
						50
						49
						504
						246

CONTRACTOR TOTAL	
SCIENCE RESEARCH LABORATORY	
SCIENTIFIC RESEARCH ASSOC INC	
SEARCH TECHNOLOGY INC	
SECURITIES TECH	
SEMA INC	
SEMTEX CORP	
SENSIS CORPORATION	
SEQUA CORPORATION	
SIGMATECH INC	
SIGNAL PAROCESSING TECHNOLOGY	
SIGNAL RESEARCH CENTER INC	
SILICON DESIGNS INC	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	\$ 925
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	3,025
	CONTRACTOR TOTAL				3,950
	SIMULATION TECHNOLOGY INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	100
	SMALL BUS HIGH TECHNOLOGY INST	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	290
	SOCIETY OF AUTO ENGINEERS	Penn	USAF	RDTE/Other Defense-Exploratory Development	166
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	388
	SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	532
	SOFTWARE PRDUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Exploratory Development	470
	SOFTWARE SYSTEMS DESIGN INC	California	NAVY	RDTE/Other Defense-Exploratory Development	369
	SOHAR INCORPORATED	California	USAF	RDTE/Other Defense-Exploratory Development	91
	SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	853
	SOLIDLITE CORP	Washington	ARMY	RDTE/Other Defense-Exploratory Development	50
	SOUTHEASTN CTR ELECTR ENG ED	California	USAF	RDTE/Other Defense-Exploratory Development	130
		Florida	USAF	RDTE/Other Defense-Exploratory Development	1,013
		Kansas	USAF	RDTE/Other Defense-Exploratory Development	45
		Texas	USAF	RDTE/Other Defense-Exploratory Development	98
		Utah	USAF	RDTE/Other Defense-Exploratory Development	176
	CONTRACTOR TOTAL				1,462
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development	4,917
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	259
		USAF	RDTE/Other Defense-Exploratory Development		1,250
	COUNTRY TOTAL				1,509

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 166 301
		COUNTRY TOTAL			467
	SPACE COMPUTER CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	58
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	10,610
	SPARTA INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	150
		California	ARMY	RDTE/Other Defense-Exploratory Development	721
		USAF		RDTE/Other Defense-Exploratory Development	157
		COUNTRY TOTAL			878
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	173
	CONTRACTOR TOTAL				1,201
	SPECTRA SYSTEMS	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50
	SPEECH SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	477
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	350
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Exploratory Development	4,936
		NAVY		RDTE/Other Defense-Exploratory Development	467
		USAF		RDTE/Other Defense-Exploratory Development	2,913
		COUNTRY TOTAL			8,316
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	103
	CONTRACTOR TOTAL				8,419
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Exploratory Development	569
		NAVY		RDTE/Other Defense-Exploratory Development	49
		COUNTRY TOTAL			618
	SSDS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	105
	STANFORD LELAND JUNIOR UNIV	California	NAVY	RDTE/Other Defense-Exploratory Development	650
		USAF		RDTE/Other Defense-Exploratory Development	900
		COUNTRY TOTAL			1,550

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	STANFORD TELECOMMUNICATIONS	Virginia	USAF	RDTE/Other Defense-Exploratory Development	\$ 80
	STAR MICROWAVE	California	USAF	RDTE/Other Defense-Exploratory Development	210
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Defense-Exploratory Development	100
	STATISTICAL CONSULTING ASSOC	Rhode Isl	ARMY	RDTE/Other Defense-Exploratory Development	233
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	STRESS TECH INC	New York	USAF	RDTE/Other Defense-Exploratory Development	64
	SUNBURST RECOVERY INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	50
	SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	512
		USAF	USAF	RDTE/Other Defense-Exploratory Development	313
	COUNTRY TOTAL				825
	CONTRACTOR TOTAL				75
		Illinois	ARMY	RDTE/Other Defense-Exploratory Development	900
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Exploratory Development	1,526
	SWERLING MANASSE & SMITH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	48
	SYMBIOTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	244
	SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	108
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development	244
	SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other Defense-Exploratory Development	883
	SYRACUSE UNIVERSITY	Alabama	USAF	RDTE/Other Defense-Exploratory Development	100
		Mass	USAF	RDTE/Other Defense-Exploratory Development	30
		New York	USAF	RDTE/Other Defense-Exploratory Development	7,831
	CONTRACTOR TOTAL				7,961
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	100
	SYSTEM DYNAMICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,001

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	SYSTEM ENGINEERING & DEV CORP	Florida	ARMY	RDTE/Other Defense-Exploratory Development	6,523
	SYSTEMS EXPLORATION INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	7,524
	SYSTEMS PLANNING & ANALYSIS	Ohio	USAF	RDTE/Other Defense-Exploratory Development	300
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	384
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	250
		USAF	ARMY	RDTE/Other Defense-Exploratory Development	1,755
			USAF	RDTE/Other Defense-Exploratory Development	163
	COUNTRY TOTAL				1,918
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	9,813
		Texas	USAF	RDTE/Other Defense-Exploratory Development	1,044
	CONTRACTOR TOTAL				10,857
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,833
	T P L INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	47
	T S C INC	California	USAF	RDTE/Other Defense-Exploratory Development	729
	TAU CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	208
	TECH REPS INCORPORATED	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	347
	TECHNICAL DIRECTIONS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	93
	TECHNICAL RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	175
	TECHNICO SOUTHWEST INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	300
	TECHNOLOGY DEVELOPEMENT ASSOCS	Penn	ARMY	RDTE/Other Defense-Exploratory Development	300
	TECHNOLOGY INTERNATIONAL CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	202
	TECHNOLOGY INTGRN DEV GROUP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	TECHNOLOGY SYSTEMS INC	Maine	ARMY	RDTE/Other Defense-Exploratory Development	441

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

TELECOMMUNICATION SCIENCE ASSOC	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	\$ 367
TELEDYNE INDUSTRIES INC	California	ARMY	RDTE/Other	Defense-Exploratory Development	2,518
		NAVY	RDTE/Other	Defense-Exploratory Development	644
COUNTRY TOTAL					3,162
CONTRACTOR TOTAL					282
	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	3,444
TEMPLE UNVRSTY CMNWLTH SYST	Penn	NAVY	RDTE/Other	Defense-Exploratory Development	412
TERRA TEK INC	Utah	ARMY	RDTE/Other	Defense-Exploratory Development	513
TETRA CORPORATION	New Mexico	ARMY	RDTE/Other	Defense-Exploratory Development	867
TEXAS A & M UNIV SYS THE	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	550
		USAF	RDTE/Other	Defense-Exploratory Development	323
COUNTRY TOTAL					873
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	11,924
		NAVY	RDTE/Other	Defense-Exploratory Development	672
		USAF	RDTE/Other	Defense-Exploratory Development	810
COUNTRY TOTAL					13,406
TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other	Defense-Exploratory Development	110
TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	1,747
TG BAUER ASS	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	752
THINKING MACHINES CORPORATION	Maryland	NAVY	RDTE/Other	Defense-Exploratory Development	192
	Mass	ARMY	RDTE/Other	Defense-Exploratory Development	950
CONTRACTOR TOTAL					1,142
THIOKOL CORPORATION	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	310
TIME DOMAIN SYSTEMS INC	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	144
TOYON RESEARCH CORP	California	ARMY	RDTE/Other	Defense-Exploratory Development	2,262

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

TRACER TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$	50
TRACOR APPLIED SCIENCES INC	California	USAF	RDTE/Other Defense-Exploratory Development		194
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		314
	Texas	USAF	RDTE/Other Defense-Exploratory Development		270
					778
CONTRACTOR TOTAL					109
TREADWELL CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development		50
TRIFID CORP	Missouri	ARMY	RDTE/Other Defense-Exploratory Development		10,281
TRW INC	California	ARMY	RDTE/Other Defense-Exploratory Development		1,337
		NAVY	RDTE/Other Defense-Exploratory Development		1,235
		USAF	RDTE/Other Defense-Exploratory Development		12,853
COUNTRY TOTAL					180
	Georgia	USAF	RDTE/Other Defense-Exploratory Development		673
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		161
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		13,867
CONTRACTOR TOTAL					90
TULANE UNIVERSITY	Louisiana	NAVY	RDTE/Other Defense-Exploratory Development		220
UK SDIPO MINISTRY OF DEFENCE	UNITED KIN	NAVY	RDTE/Other Defense-Exploratory Development		50
ULTRAMET	California	ARMY	RDTE/Other Defense-Exploratory Development		150
ULTRASYS TEMS DEFENSE & SPACE	California	USAF	RDTE/Other Defense-Exploratory Development		150
ULTRASYS TEMS WESTERN CONSTRS	California	USAF	RDTE/Other Defense-Exploratory Development		225
UNISYS CORPORATION	Arizona	USAF	RDTE/Other Defense-Exploratory Development		100
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		71
	Virginia	USAF	RDTE/Other Defense-Exploratory Development		396
CONTRACTOR TOTAL					

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	
AD92 (CONTINUED)					
	UNITED STATES DEPT OF COMMERCE	Colorado	USAF	RDTE/Other Defense-Exploratory Development	\$ 100
	UNITED TECHNOLOGIES CORP	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	29J 1,479
		COUNTRY TOTAL			1,770
		Conn	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	311 665
		COUNTRY TOTAL			976
		Florida	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	317 7,636
		COUNTRY TOTAL			7,953
	CONTRACTOR TOTAL				10,699
	UNIVERSAL ANALYTICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	400
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	48 1,468
		COUNTRY TOTAL			1,516
	UNIVERSAL TECHNOLOGIES INC	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development	819
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	894
	UNIVERSAL VOLTRONICS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	146
	UNIVERSITY OF ALABAMA	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	3,032 51
		COUNTRY TOTAL			3,083
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	103
	UNIVERSITY OF CALIFORNIA	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,024 778 50
		COUNTRY TOTAL			2,852
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Exploratory Development	40

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AD92 (CONTINUED)

		USAF	RDTE/Other Defense-Exploratory Development	\$	29
	COUNTRY TOTAL				69
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		100
UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Other Defense-Exploratory Development		55
UNIVERSITY OF DAYTON	Arizona	USAF	RDTE/Other Defense-Exploratory Development		1,663
	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		273
		USAF	RDTE/Other Defense-Exploratory Development		4,919
	COUNTRY TOTAL				5,192
					6,855
CONTRACTOR TOTAL					
UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Defense-Exploratory Development		30
		USAF	RDTE/Other Defense-Exploratory Development		50
	COUNTRY TOTAL				80
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		91
		USAF	RDTE/Other Defense-Exploratory Development		217
	COUNTRY TOTAL				308
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		1,599
		NAVY	RDTE/Other Defense-Exploratory Development		350
	COUNTRY TOTAL				1,949
UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development		449
UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Defense-Exploratory Development		150
UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Defense-Exploratory Development		3,160
		USAF	RDTE/Other Defense-Exploratory Development		2,907
	COUNTRY TOTAL				6,067
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Defense-Exploratory Development		480
		USAF	RDTE/Other Defense-Exploratory Development		126
	COUNTRY TOTAL				606

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AD92 (CONTINUED)					
	UNIVERSITY OF UTAH	Utah	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 774 953
		COUNTRY TOTAL			1,727
	UNIVERSITY OF VIRGINIA	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	143 677
		COUNTRY TOTAL			820
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Other Defense-Exploratory Development	375
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Exploratory Development	841
	UTD INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,438
	VARI-L COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	100
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	186-
	VARILOG	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	250
	VARITRANS INTL	California	ARMY	RDTE/Other Defense-Exploratory Development	54
	VECTOR MICRO	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	190
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	32
	VICTOR MICROWAVE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	34
	VIGYAN RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	VIRGINIA PLYCHNIC INST/ST UNI	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	87 176
		COUNTRY TOTAL			263
	VISIDYNE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	41
	VISTA CONTROLS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	103
	VISTA RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	247
	VITESSE SEMICONDUCTOR CORP	California	USAF	RDTE/Other Defense-Exploratory Development	95
	VLSI DESIGN ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	91

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	WACO OF LUBBOCK	Texas	ARMY	RDTE/Other Defense-Exploratory Development	72
	WADDAN SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Exploratory Development	50
	WALLACE T H INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	981
	WASHINGTON STATE UNIVERSITY	Washington	ARMY	RDTE/Other Defense-Exploratory Development	150
	WASHINGTON UNIVERSITY	Missouri	USAF	RDTE/Other Defense-Exploratory Development	100
	WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	482
	CONTRACTOR TOTAL	New York	ARMY	RDTE/Other Defense-Exploratory Development	1,897
	WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	2,379
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	9,037
	WESTINGHOUSE ELECTRIC CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	41
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	5,275
			NAVY	RDTE/Other Defense-Exploratory Development	50
			NAVY	RDTE/Other Defense-Exploratory Development	235
			USAF	RDTE/Other Defense-Exploratory Development	3,813
	COUNTRY TOTAL				4,098
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	308
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	2,249
			NAVY	RDTE/Other Defense-Exploratory Development	284
			USAF	RDTE/Other Defense-Exploratory Development	1,204
	COUNTRY TOTAL				3,737
	CONTRACTOR TOTAL				13,418
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	500
			USAF	RDTE/Other Defense-Exploratory Development	689

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
		COUNTRY TOTAL			\$
	WOODS HOLE OCNRPIC INSTUTE	Mass	NAVY	RDTE/Other Defense-Exploratory Development	1,189
	WOOLLAM J A CO	Nebraska	ARMY	RDTE/Other Defense-Exploratory Development	764
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	451
	XEROX CORPORATION	Mass	USAF	RDTE/Other Defense-Exploratory Development	373
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Defense-Exploratory Development	55
	ZEXTRON INC	California	ARMY	RDTE/Other Defense-Exploratory Development	230
	R&D TOTAL				48
					871.106
AD93					
	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	718
	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Other Defense-Advanced Development	9,350
	ACUREX CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	4,475
	ADAPTIVE OPTICS ASSOCIATES	Mass	USAF	RDTE/Other Defense-Advanced Development	33
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Advanced Development	296
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	44
	ADVANCED DECISION SYSTEMS	California	ARMY USAF	RDTE/Other Defense-Advanced Development	1,588 468
		COUNTRY TOTAL			2,056
		Virginia	USAF	RDTE/Other Defense-Advanced Development	50
					2,106
CONTRACTOR TOTAL					
	ADVANCED ELECTRO MAGNETICS	New Mexico	USAF	RDTE/Other Defense-Advanced Development	70
	ADVANCED PROGRAMMING CONCEPTS	Texas	USAF	RDTE/Other Defense-Advanced Development	60
	ADVANCED RESOURCE DEV CORP	Maryland	ARMY NAVY	RDTE/Other Defense-Advanced Development	49 50
		COUNTRY TOTAL			99

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	ADVANCED SYSTEMS TECHNOLOGIES	Virginia	USAF	RDTE/Other Defense-Advanced Development	\$ 55
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	308
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	945
	AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	50
	AEROFLEX SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	770
	AEROJET	California	USAF	RDTE/Other Defense-Advanced Development	559
	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Other Defense-Advanced Development	279
	AERON SOLID PROPULSION	California	NAVY	RDTE/Other Defense-Advanced Development	621
	AEROLIFT INC	Oregon	ARMY	RDTE/Other Defense-Advanced Development	2,329
	ALLIED SIGNAL INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	2,564
	ALPHATECH INC	Mass	USAF	RDTE/Other Defense-Advanced Development	588
	AMBER ENGINEERING INC	California	NAVY	RDTE/Other Defense-Advanced Development	104
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Advanced Development	150
	AMERICAN HOECHST CORPORATION	New Jersey	USAF	RDTE/Other Defense-Advanced Development	200
	AMOCO TECHNOLOGY CO	California	NAVY	RDTE/Other Defense-Advanced Development	75
	ANALYSIS & TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,690
	ANALYTIC SCIENCES CORP THE	Mass	ARMY	RDTE/Other Defense-Advanced Development	16,648
			USAF	RDTE/Other Defense-Advanced Development	1,998
		COUNTRY TOTAL			18,646
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	5,614
	ANSALDO S.p.A	ITALY	USAF	RDTE/Other Defense-Advanced Development	222
	APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Other Defense-Advanced Development	46
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Other Defense-Advanced Development	678
	AQUIDNECK SYSTEMS INTL	Rhode Isld	NAVY	RDTE/Other Defense-Advanced Development	1,000

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	\$ 705
	ARETE ASSOCIATES	Virginia	NAVY	RDTE/Other Defense-Advanced Development	50
	ARGOTEC INC	Florida	NAVY	RDTE/Other Defense-Advanced Development	377
	ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Advanced Development	302
	ASTRON RESEARCH & ENGINEERING	California	ARMY	RDTE/Other Defense-Advanced Development	282
	ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	530
		Maryland	ARMY	RDTE/Other Defense-Advanced Development	388
			NAVY	RDTE/Other Defense-Advanced Development	384
		COUNTRY TOTAL			772
		New York	USAF	RDTE/Other Defense-Advanced Development	3,001
		Virginia	USAF	RDTE/Other Defense-Advanced Development	1,550
	CONTRACTOR TOTAL				5,853
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,770
	AUTOMETRIC INC	Mass	USAF	RDTE/Other Defense-Advanced Development	251
		New York	USAF	RDTE/Other Defense-Advanced Development	920
	CONTRACTOR TOTAL				1,171
	AVCO RESEARCH LABORATORY INC	Hawaii	USAF	RDTE/Other Defense-Advanced Development	11,063
		Mass	NAVY	RDTE/Other Defense-Advanced Development	338
	CONTRACTOR TOTAL				11,401
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	587
			NAVY	RDTE/Other Defense-Advanced Development	300
		COUNTRY TOTAL			887
	BABCOCK & WILCOX COMPANY THE	Louisiana	ARMY	RDTE/Other Defense-Advanced Development	6,300
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	1,413

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	BALLINA SYSTEMS CORP	Colorado	ARMY	RDTE/Other Defense-Advanced Development	1,413
	BATTELLE MEMORIAL INSTITUTE	California	NAVY	RDTE/Other Defense-Advanced Development	372
	BBN COMMUNICATIONS CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	616
	BDM INTERNATIONAL INC	Mass	USAF	RDTE/Other Defense-Advanced Development	505
		Florida	USAF	RDTE/Other Defense-Advanced Development	1,150
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	14,605
			USAF	RDTE/Other Defense-Advanced Development	210
	COUNTRY TOTAL				14,815
					15,965
	CONTRACTOR TOTAL				
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	520
	BIO-DYNAMICS RESEARCH DEV	Oregon	ARMY	RDTE/Other Defense-Advanced Development	112
	BIOELASTICS RESEARCH LTD	Alabama	NAVY	RDTE/Other Defense-Advanced Development	112
	BOEING COMPANY THE	Washington	ARMY	RDTE/Other Defense-Advanced Development	160
			USAF	RDTE/Other Defense-Advanced Development	6,922
	COUNTRY TOTAL				7,082
	BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other Defense-Advanced Development	934
		Mass	USAF	RDTE/Other Defense-Advanced Development	1,445
	CONTRACTOR TOTAL				2,379
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	4,872
			USAF	RDTE/Other Defense-Advanced Development	167
	COUNTRY TOTAL				5,039
	BOSTON UNIVERSITY TRUSTEES OF	Mass	NAVY	RDTE/Other Defense-Advanced Development	3,426
	BRIGHAM YOUNG UNIVERSITY	Utah	NAVY	RDTE/Other Defense-Advanced Development	40

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	BROGAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	\$ 147
	BROWN UNIVERSITY	Rhode Isl	NAVY	RDTE/Other Defense-Advanced Development	120
	BRUEL & KJAER INSTRUMENTS INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development	120
	CALIFORNIA ST UNIV LONG BEACH	California	USAF	RDTE/Other Defense-Advanced Development	28
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Defense-Advanced Development	196
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Advanced Development	140
	CBI NA-CON INC	Illinois	USAF	RDTE/Other Defense-Advanced Development	33
	CENTRE NATIONAL DETUDES SPATI	FRANCE	NAVY	RDTE/Other Defense-Advanced Development	2,576
	CENTURY COMPUTING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development	40
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,814
	CONTRACTOR TOTAL				1,854
	COHERENT TECHNOLOGIES INC	Colorado	NAVY	RDTE/Other Defense-Advanced Development	49
			USAF	RDTE/Other Defense-Advanced Development	49
		COUNTRY TOTAL			98
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	1,369
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Advanced Development	51
	COMMERCIAL OFFICE ENVIRONMENTS	Maryland	ARMY	RDTE/Other Defense-Advanced Development	89
	COMMUNICATIONS SATELLITE CORP	Maryland	NAVY	RDTE/Other Defense-Advanced Development	87
	COMPUTER SCIENCES CORPORATION	Virginia	USAF	RDTE/Other Defense-Advanced Development	478
	COMPUTER WARE	California	ARMY	RDTE/Other Defense-Advanced Development	129
	CONTRAVES ITALIANA SPA	ITALY	ARMY	RDTE/Other Defense-Advanced Development	398
	CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Other Defense-Advanced Development	85
			USAF	RDTE/Other Defense-Advanced Development	501
		COUNTRY TOTAL			586

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	\$
AD93 (CONTINUED)					
	CORLIOLIS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	67
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Other Defense-Advanced Development	700
	CORTANA CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	545
	CRYOLIFE INC	Georgia	NAVY	RDTE/Other Defense-Advanced Development	48
	CSA ENGINEERING INC	California	USAF	RDTE/Other Defense-Advanced Development	440
	DAMES & MOORE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	900
	DATATAPE INCORPORATED	California	NAVY	RDTE/Other Defense-Advanced Development	185
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Advanced Development	460
	DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY	RDTE/Other Defense-Advanced Development	375
			USAF	RDTE/Other Defense-Advanced Development	275
		COUNTRY TOTAL			650
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	792
	DELTA DATA SYSTEMS CORPORATION	Miss	NAVY	RDTE/Other Defense-Advanced Development	259
	DIRECTED TECHNOLOGIES INC	Virginia	USAF	RDTE/Other Defense-Advanced Development	300
	DISPLAYTECH INC	Colorado	USAF	RDTE/Other Defense-Advanced Development	200
	DOVE ELECTRONICS INC	New York	USAF	RDTE/Other Defense-Advanced Development	66
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	1,648
	DU PONT E I DE NMOURS COMPANY	Delaware	ARMY	RDTE/Other Defense-Advanced Development	500
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	200
	DUPONT AEROSPACE CO INC	California	USAF	RDTE/Other Defense-Advanced Development	539
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Advanced Development	100
	DYNACORP APPLIED TECHNOLOGY	Ohio	USAF	RDTE/Other Defense-Advanced Development	80
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Advanced Development	293
	E SYSTEMS INC	Florida	USAF	RDTE/Other Defense-Advanced Development	40

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	EAGLE PICHER INDUSTRIES INC	Rhode Isl	ARMY	RDTE/Other Defense-Advanced Development	\$ 1,552
	EASTMAN KODAK COMPANY	Texas	ARMY	RDTE/Other Defense-Advanced Development	19,150
	EATON CORPORATION		USAF	RDTE/Other Defense-Advanced Development	100
	ELECTRONIC ASSOCIATES INC	Missouri			19,250
	ELEKTRO RADIO KLEIN	New York			20,842
	ENERGY RESEARCH CORPORATION				200
	ENERGY SCIENCE LABORATORIES	Alabama	USAF	RDTE/Other Defense-Advanced Development	1,108
	ENGINEERING COMPUTER OPTONOMICS	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	100
	ENVIRONMENTAL RESEARCH	Conn	ARMY	RDTE/Other Defense-Advanced Development	125
		California	ARMY	RDTE/Other Defense-Advanced Development	37,280
		Maryland	USAF	RDTE/Other Defense-Advanced Development	1,012
		Michigan	USAF	RDTE/Other Defense-Advanced Development	200
			NAVY	RDTE/Other Defense-Advanced Development	45
			ARMY	RDTE/Other Defense-Advanced Development	982
			NAVY	RDTE/Other Defense-Advanced Development	200
					1,182
	CONTRACTOR TOTAL				
	ENYON BATTERY CO	Utah	NAVY	RDTE/Other Defense-Advanced Development	50
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,501
	EVEREADY BATTERY CO INC	Ohio	NAVY	RDTE/Other Defense-Advanced Development	169
	FAILURE ANALYSIS ASSOCIATES	Washington	USAF	RDTE/Other Defense-Advanced Development	249
	FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Other Defense-Advanced Development	723
	FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Advanced Development	200
	FMC CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	200
	FORD AEROSPACE COMMCTIONS CORP	California	USAF	RDTE/Other Defense-Advanced Development	25

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	FOSTER MILLER INC	Maine	ARMY	ROTE/Other Defense-Advanced Development	\$ 200
		Mass	NAVY	RDTE/Other Defense-Advanced Development	746
			USAF	ROTE/Other Defense-Advanced Development	205
	COUNTRY TOTAL				951
					1,151
		California	ARMY	ROTE/Other Defense-Advanced Development	16,117
		Mass	USAF	RDTE/Other Defense-Advanced Development	55
		California	USAF	RDTE/Other Defense-Advanced Development	60
		California	ARMY	RDTE/Other Defense-Advanced Development	839
			USAF	RDTE/Other Defense-Advanced Development	52
	COUNTRY TOTAL				891
		New York	USAF	RDTE/Other Defense-Advanced Development	1,439
		California	USAF	RDTE/Other Defense-Advanced Development	115
		California	USAF	RDTE/Other Defense-Advanced Development	1,252
		Missouri	ARMY	RDTE/Other Defense-Advanced Development	347
		Texas	USAF	RDTE/Other Defense-Advanced Development	89
	COUNTRY TOTAL				1,688
		Arizona	USAF	RDTE/Other Defense-Advanced Development	396
		Maryland	ARMY	RDTE/Other Defense-Advanced Development	143
		New Jersey	ARMY	RDTE/Other Defense-Advanced Development	925
			USAF	RDTE/Other Defense-Advanced Development	1,918
	COUNTRY TOTAL				2,843
		New York	NAVY	RDTE/Other Defense-Advanced Development	238
			USAF	RDTE/Other Defense-Advanced Development	3,630
	COUNTRY TOTAL				3,868
	CONTRACTOR TOTAL				
	G & F COMPANY				
	G T E LABORATORIES INC				
	GEMINI COMPUTERS INCORPORATED				
	GENCORP INC				
	GENERAL APPLIED SCIENCE				
	GENERAL ATOMICS				
	GENERAL DYNAMICS CORPORATION				
	CONTRACTOR TOTAL				
	GENERAL ELECTRIC CO				

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL MOTORS CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	476
		Penn	ARMY	RDTE/Other Defense-Advanced Development	49,035
			USAF	RDTE/Other Defense-Advanced Development	1,720
		COUNTRY TOTAL			50,755
					58,481
	GENERAL RESEARCH CORPORATION	Indiana	USAF	RDTE/Other Defense-Advanced Development	90-
		California	ARMY	RDTE/Other Defense-Advanced Development	2,110
			USAF	RDTE/Other Defense-Advanced Development	1,331
		COUNTRY TOTAL			3,441
	GENERAL SOFTWARE CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	110
	GENTEX CORPORATION	Penn	USAF	RDTE/Other Defense-Advanced Development	248
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Defense-Advanced Development	2,150
			NAVY	RDTE/Other Defense-Advanced Development	140
			USAF	RDTE/Other Defense-Advanced Development	300
		COUNTRY TOTAL			2,590
	GINER INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	100
	GOULD INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	245
	GRIFFIN MICHAEL	California	ARMY	RDTE/Other Defense-Advanced Development	150-
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Defense-Advanced Development	3,500
			USAF	RDTE/Other Defense-Advanced Development	4,453
		COUNTRY TOTAL			7,953
	GRUMMAN CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	100
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Advanced Development	365
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Other Defense-Advanced Development	90
		Colorado	USAF	RDTE/Other Defense-Advanced Development	601
		Mass	USAF	RDTE/Other Defense-Advanced Development	1,105

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	HAMPSHIRE INSTRUMENTS INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	1,796
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development	2,313
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	599
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Advanced Development	80
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Other Defense-Advanced Development	215
	HONEYWELL INC	Minnesota	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	100 390 632
	COUNTRY TOTAL				1,022
	HOPPMANN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	93
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,098 150 9,151
	COUNTRY TOTAL				10,399
	HUGHES ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Advanced Development	403
		Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,348
	CONTRACTOR TOTAL				1,751
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Advanced Development	2,050
	I I T RESEARCH INSTITUTE	Colorado	USAF	RDTE/Other Defense-Advanced Development	27
		Illinois	ARMY	RDTE/Other Defense-Advanced Development	300
		New York	USAF	RDTE/Other Defense-Advanced Development	27
	CONTRACTOR TOTAL				354
	INTERMAGNETICS GENERAL CORP	New York	ARMY	RDTE/Other Defense-Advanced Development	270
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	100

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)				
CONTRACTOR TOTAL				
INTEROCEAN SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	\$ 307
IOWA STATE UNIV SCNC	California	NAVY	RDTE/Other Defense-Advanced Development	407
ISOTHERMAL SYSTEMS RESEARCH	Iowa	NAVY	RDTE/Other Defense-Advanced Development	49
ISREALI MINISTRY OF DEFENSE	Washington	USAF	RDTE/Other Defense-Advanced Development	50
JAMIESON SCIENCE & ENGINEERING	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	49
JASON ASSOCIATES CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	710
JAYCOR	California	ARMY	RDTE/Other Defense-Advanced Development	2,163
	California	NAVY	RDTE/Other Defense-Advanced Development	1,329
	Colorado	ARMY	RDTE/Other Defense-Advanced Development	174
				200
				374
CONTRACTOR TOTAL				
KAMAN SCIENCES CORPORATION	Colorado	USAF	RDTE/Other Defense-Advanced Development	531
KBM ENTERPRISES INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	88
KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Advanced Development	468
KNOWLEDGE SYSTEMS CONCEPTS	California	USAF	RDTE/Other Defense-Advanced Development	370
	New York	USAF	RDTE/Other Defense-Advanced Development	294
				664
CONTRACTOR TOTAL				
KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Advanced Development	440
KTAADN INC	Mass	USAF	RDTE/Other Defense-Advanced Development	50
LASER SURGE	New York	NAVY	RDTE/Other Defense-Advanced Development	196
LICA SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	622
LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Defense-Advanced Development	155
LITTON INDUSTRIES INC	Mass	USAF	RDTE/Other Defense-Advanced Development	753

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	LITTON SYSTEMS INC	Maryland	USAF	RDTE/Other Defense-Advanced Development	\$ 75
	LOCKHEED CORPORATION	Georgia	ARMY	RDTE/Other Defense-Advanced Development	500
	LOCKHEED ELECTRONICS CO	New Jersey	ARMY	RDTE/Other Defense-Advanced Development	34
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Other Defense-Advanced Development	575
		Texas	USAF	RDTE/Other Defense-Advanced Development	143
	CONTRACTOR TOTAL				718
	LORAL CORPORATION	Arizona	USAF	RDTE/Other Defense-Advanced Development	829
		California	ARMY	RDTE/Other Defense-Advanced Development	186
		Ohio	ARMY	RDTE/Other Defense-Advanced Development	2,770
	CONTRACTOR TOTAL				3,785
	LTV AEROSPACE & DEF CO	Texas	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	44,129 448
	COUNTRY TOTAL				44,577
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,181
	M/A-COM INC	Mass	USAF	RDTE/Other Defense-Advanced Development	399
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,069
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Other Defense-Advanced Development	200
	MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,776
	MAR INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,200
	MARINE ACOUSTICS INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	84
	MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	683
	MARINE SPECIALTY CORP	Arkansas	NAVY	RDTE/Other Defense-Advanced Development	44
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other Defense-Advanced Development	20,276

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	MARYLAND MEDICAL LABORATORY	Maryland	NAVY	RDTE/Other Defense-Advanced Development	88
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Defense-Advanced Development	3,380
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other Defense-Advanced Development	23,744
			USAF	RDTE/Other Defense-Advanced Development	125
			ARMY	RDTE/Other Defense-Advanced Development	7,949
			USAF	RDTE/Other Defense-Advanced Development	212
					8,161
					32,030
					75
					68
					1,276
					2,202
					3,478
					11,479
					500
					4,628
					5,128
					20,085
	CONTRACTOR TOTAL				
	MEI ASSOCIATES INCORPORATED	Mass	USAF	RDTE/Other Defense-Advanced Development	127
	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	168
	MESSERSCHMITT BOELKOW BLOHM	GERMANY, F	ARMY	RDTE/Other Defense-Advanced Development	3,797
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	86
	MINNESOTA MIN & MFG COMPANY	Minnesota	NAVY	RDTE/Other Defense-Advanced Development	354
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	122
			NAVY	RDTE/Other Defense-Advanced Development	130
					252

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	MISSION SCIENCES CORP	New York	NAVY	RDTE/Other Defense-Advanced Development	\$ 165
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Advanced Development	452
	NATIONAL AERONAUTICS SPC ADMIN	Alabama	USAF	RDTE/Other Defense-Advanced Development	110
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Other Defense-Advanced Development	2,211
	NETROLOGIC INC	California	NAVY	RDTE/Other Defense-Advanced Development	50
	NEW ENGLAND DAONESS HOSP CORP	Mass	NAVY	RDTE/Other Defense-Advanced Development	157
	NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Advanced Development	230
	NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	ARMY	RDTE/Other Defense-Advanced Development	612
	NIAGARA SYS SOFTWARE INC	New York	NAVY	RDTE/Other Defense-Advanced Development	49
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Advanced Development	168
	NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Defense-Advanced Development	343
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	782
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	700
		Illinois	USAF	RDTE/Other Defense-Advanced Development	500
	CONTRACTOR TOTAL				1,200
	NYSERNET INC	New York	USAF	RDTE/Other Defense-Advanced Development	3,240
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Advanced Development	957
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Advanced Development	40
	OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Other Defense-Advanced Development	60
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	827
	OREGON HEALTH SCIENCES UNIV	Oregon	NAVY	RDTE/Other Defense-Advanced Development	222
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Advanced Development	1,669
	ORTEL CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	239
	OXLEY RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Advanced Development	48

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD93 (CONTINUED)

PACIFIC APPLIED RESEARCH INC	California	USAF	RDTE/Other Defense-Advanced Development	\$	62
PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		50 1,230
	COUNTRY TOTAL				1,280
PAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development		329
	Conn	USAF	RDTE/Other Defense-Advanced Development		300
	Nebraska	USAF	RDTE/Other Defense-Advanced Development		508
	New York	USAF	RDTE/Other Defense-Advanced Development		6,137
	Virginia	USAF	RDTE/Other Defense-Advanced Development		624
					7,898
					5,664
CONTRACTOR TOTAL					87
PARSONS RALPH M COMPANY THE	California	ARMY	RDTE/Other Defense-Advanced Development		2,254
PENNSYLVANIA STATE UNIV THE	Penn	NAVY	RDTE/Other Defense-Advanced Development		61
PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Other Defense-Advanced Development		857
PHOTONICS SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Advanced Development		80
PHYSICAL DYNAMICS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		350
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other Defense-Advanced Development		2,256
PLANNING RESEARCH CORPORATION	Virginia	USAF	RDTE/Other Defense-Advanced Development		45
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Advanced Development		100
POLARIS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		29
POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other Defense-Advanced Development		250
PRECISION FILTERS INC	New York	NAVY	RDTE/Other Defense-Advanced Development		31
PROCEDYNE CORP	New Jersey	NAVY	RDTE/Other Defense-Advanced Development		
PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Other Defense-Advanced Development		

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	R J O ENTERPRISES INC	Maryland	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	\$ 667 486
		COUNTRY TOTAL			1,153
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	166
					1,319
	CONTRACTOR TOTAL				98
	R T S LABORATORIES INC	Florida	USAF	RDTE/Other Defense-Advanced Development	30
	RADKOWSKI ASSOCIATES	Maryland	NAVY	RDTE/Other Defense-Advanced Development	325
	RASOR ASSOCIATES INC	California	USAF	RDTE/Other Defense-Advanced Development	4,583 4,984
	RAYTHEON COMPANY	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	9,567
		COUNTRY TOTAL			139
	REFRACTORY COMPOSITES INC	California	USAF	RDTE/Other Defense-Advanced Development	1,487 472
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,959
		COUNTRY TOTAL			2,701 3,313
	RIVERSIDE RESEARCH INSTITUTE	New York	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	6,014
		COUNTRY TOTAL			2,710
	ROCKWELL INTERNATIONAL	California	ARMY	RDTE/Other Defense-Advanced Development	30
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,160 2,559
		COUNTRY TOTAL			3,749
	S I SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	231
	SACHS FREEMAN ASSOCIATES INC	D C	NAVY	RDTE/Other Defense-Advanced Development	384
	SAN JOSE STATE UNIVERSITY	California	USAF	RDTE/Other Defense-Advanced Development	68

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD93 (CONTINUED)

SANDERS ASSOCIATES INC	N H	USAF	RDTE/Other	Defense-Advanced Development	\$ 51
SCHAFFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other	Defense-Advanced Development	5,245
		NAVY	RDTE/Other	Defense-Advanced Development	250
		COUNTRY TOTAL			5,495
SCHMITT TECHNOLOGY	Conn	NAVY	RDTE/Other	Defense-Advanced Development	213
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other	Defense-Advanced Development	1,024
	Arizona	USAF	RDTE/Other	Defense-Advanced Development	2,396
	California	ARMY	RDTE/Other	Defense-Advanced Development	3,333
		NAVY	RDTE/Other	Defense-Advanced Development	1,792
		USAF	RDTE/Other	Defense-Advanced Development	560
	COUNTRY TOTAL				5,685
	Ohio	USAF	RDTE/Other	Defense-Advanced Development	1,665
	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	1,156
					11,926
CONTRACTOR TOTAL					
SEA SPACE INC	California	NAVY	RDTE/Other	Defense-Advanced Development	49
SEMA INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	1,400
SIMPEX TECHNOLOGIES INC	California	ARMY	RDTE/Other	Defense-Advanced Development	643
SIMULATION TECHNOLOGIES INC	Ohio	ARMY	RDTE/Other	Defense-Advanced Development	534
SIPPICAN INC	Mass	NAVY	RDTE/Other	Defense-Advanced Development	212
SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other	Defense-Advanced Development	395
SOREG NEUCLEAR RESEARCH CENTER	ISRAEL	ARMY	RDTE/Other	Defense-Advanced Development	783
SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other	Defense-Advanced Development	319
SPACE APPLICATIONS CORPORATION	California	ARMY	RDTE/Other	Defense-Advanced Development	1,570
SPACE POWER INCORPORATED	California	USAF	RDTE/Other	Defense-Advanced Development	618

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AD93 (CONTINUED)						
	S ^o ARTA INC	California	NAVY	RDTE/Other Defense-Advanced Development	\$	54
			USAF	RDTE/Other Defense-Advanced Development		61
		COUNTRY TOTAL				115
	SPERRY CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development		100
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Advanced Development		571
			USAF	RDTE/Other Defense-Advanced Development		2,148
		COUNTRY TOTAL				2,719
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Advanced Development		3,979
	STANFORD LELAND JUNIOR UNIV	California	NAVY	RDTE/Other Defense-Advanced Development		630
	STANFORD TELECOMMUNICATIONS	Virginia	USAF	RDTE/Other Defense-Advanced Development		300
	STEVENS INST OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Advanced Development		197
	SUBSEA ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development		869
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development		50
	SYNECTICS CORP	Virginia	USAF	RDTE/Other Defense-Advanced Development		524
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development		50
	SYNTEK ENGRG COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Advanced Development		795
	SYRACUSE UNIVERSITY	New York	ARMY	RDTE/Other Defense-Advanced Development		74
			NAVY	RDTE/Other Defense-Advanced Development		120
		COUNTRY TOTAL				194
	SYSTEM DEVELOPMENT CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development		936
	SYSTEM DYNAMICS INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development		180
		Florida	ARMY	RDTE/Other Defense-Advanced Development		140
	CONTRACTOR TOTAL					320
	SYSTEMS ANALYSIS INTERGRATION	California	NAVY	RDTE/Other Defense-Advanced Development		913

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	\$ 1,463
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	259
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Advanced Development	3,102
	TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	600
	TECOGEN INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	36-
	TEKNOWLEDGE INC	California	USAF	RDTE/Other Defense-Advanced Development	1,150
	TELEDYNE INDUSTRIES INC	Oregon	NAVY	RDTE/Other Defense-Advanced Development	120
	TEMPLE UNVRSTY CMNWLTHT SYST	Penn	NAVY	RDTE/Other Defense-Advanced Development	179
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Other Defense-Advanced Development	94
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	3,716 180
		COUNTRY TOTAL			3,896
	THERMACORE INC	Penn	USAF	RDTE/Other Defense-Advanced Development	79
	THOMSON CONSUMER ELECTRONICS	New York	USAF	RDTE/Other Defense-Advanced Development	623
	TIL DEFENSE SYSTEMS	ISRAEL	USAF	RDTE/Other Defense-Advanced Development	82
	TINSLEY LABORATORIES INC	California	USAF	RDTE/Other Defense-Advanced Development	3,101
	TITAN SYSTEMS INC	California	USAF	RDTE/Other Defense-Advanced Development	198
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	831
	TRACOR FLIGHT SYSTEMS INC	California	ARMY	RDTE/Other Defense-Advanced Development	1,534
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Advanced Development	125
	TRANSUE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	92
	TRW INC	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	2,123 4,930 177

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)				
CONTRACTOR TOTAL				
U F A INC	Mass	USAF	RDTE/Other Defense-Advanced Development	35
U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	93
UNISYS CORPORATION	Minnesota	USAF	RDTE/Other Defense-Advanced Development	1,874
	New York	USAF	RDTE/Other Defense-Advanced Development	5,925
	Ohio	USAF	RDTE/Other Defense-Advanced Development	174
CONTRACTOR TOTAL				
UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Other Defense-Advanced Development	7,973
UNITED STATES DEPT ENERGY	Washington	USAF	RDTE/Other Defense-Advanced Development	3,993
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Advanced Development	808
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Other Defense-Advanced Development	126
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	41
UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	488
UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Other Defense-Advanced Development	100
UNIVERSITY OF ARIZONA	Arizona	NAVY	RDTE/Other Defense-Advanced Development	179
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Advanced Development	100
UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Other Defense-Advanced Development	1,063
UNIVERSITY OF DAYTON	Arizona	USAF	RDTE/Other Defense-Advanced Development	45
CONTRACTOR TOTAL				
UNIVERSITY OF FLORIDA	Ohio	USAF	RDTE/Other Defense-Advanced Development	53
	Florida	USAF	RDTE/Other Defense-Advanced Development	1,706
				1,759
				1,323

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AD93 (CONTINUED)					
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Advanced Development	\$ 69
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Advanced Development	242
	UNIVERSITY OF MICHIGAN	D.C.	NAVY	RDTE/Other Defense-Advanced Development	47
		Michigan	NAVY	RDTE/Other Defense-Advanced Development	105
	CONTRACTOR TOTAL				152
	UNIVERSITY OF MINNESOTA	Minnesota	NAVY	RDTE/Other Defense-Advanced Development	213
	UNIVERSITY OF NOTRE DAME	Indiana	NAVY	RDTE/Other Defense-Advanced Development	73
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	NAVY	RDTE/Other Defense-Advanced Development	101
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Other Defense-Advanced Development	1,935
			USAF	RDTE/Other Defense-Advanced Development	250
	COUNTRY TOTAL				2,185
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Other Defense-Advanced Development	124
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Advanced Development	159
	UNIVERSITY RESEARCH CORP	Maryland	NAVY	RDTE/Other Defense-Advanced Development	126
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Advanced Development	15,357
	VANGUARD RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	200
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Other Defense-Advanced Development	1,160
	VEDA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Advanced Development	875
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	87
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,941
			USAF	RDTE/Other Defense-Advanced Development	4,511
	COUNTRY TOTAL				6,452
	CONTRACTOR TOTAL	Penn	USAF	RDTE/Other Defense-Advanced Development	292
					6,744

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		\$
AD93 (CONTINUED)					
WILSON GREATBATCH LTD	New York	NAVY	RDTE/Other Defense-Advanced Development		58
XERAD INC	California	ARMY	RDTE/Other Defense-Advanced Development		791
		USAF	RDTE/Other Defense-Advanced Development		84
			COUNTRY TOTAL		875
ZEGER ABRAMS INCORPORATED	Penn	USAF	RDTE/Other Defense-Advanced Development		49
R&D TOTAL					613,009
AD94 ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Other Defense-Engineering Development		395
ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Other Defense-Engineering Development		300
AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Defense-Engineering Development		49
ANALYTIC SCIENCES CORP THE	Florida	USAF	RDTE/Other Defense-Engineering Development		531
ANALYTICAL SYSTEMS ENGRG CORP	California	USAF	RDTE/Other Defense-Engineering Development		419
	Florida	USAF	RDTE/Other Defense-Engineering Development		479
	Maryland	USAF	RDTE/Other Defense-Engineering Development		450
	New York	USAF	RDTE/Other Defense-Engineering Development		142
	Ohio	USAF	RDTE/Other Defense-Engineering Development		220
	Virginia	USAF	RDTE/Other Defense-Engineering Development		43
	GERMANY, F	USAF	RDTE/Other Defense-Engineering Development		44
CONTRACTOR TOTAL					1,797
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Engineering Development		60
AUGUST DESIGN & DEVELOPMENT	Penn	ARMY	RDTE/Other Defense-Engineering Development		350
BALL CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development		6,937
BDM CORPORATION	Ohio	USAF	RDTE/Other Defense-Engineering Development		358
BOEING COMPANY THE	Washington	USAF	RDTE/Other Defense-Engineering Development		6,837
BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Other Defense-Engineering Development		253

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AD94 (CONTINUED)					
	BROWN DAYTON T INC	New York	NAVY	RDTE/Other Defense-Engineering Development	1,585
	BUNKER RAMO ELTRA CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	59
	C A E INDUSTRIES LTD	Texas	USAF	RDTE/Other Defense-Engineering Development	6,333
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Engineering Development	304
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Other Defense-Engineering Development	2,554
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Engineering Development	50
	CICCONE V J & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development	168
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	1,229
	COMPUTER SCIENCE INNOVATIONS	Florida	USAF	RDTE/Other Defense-Engineering Development	65
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other Defense-Engineering Development	1,708
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Engineering Development	455
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Defense-Engineering Development	735
	DURODYNE INC	Arizona	USAF	RDTE/Other Defense-Engineering Development	271
	E G & G ALMOND INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Engineering Development	258
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Engineering Development	4,697
	EATON CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	2,865
	ECONOMICS TECHNOLOGY ASSOC	California	USAF	RDTE/Other Defense-Engineering Development	2,075
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	50
	ESSEX CORPORATION	Penn	NAVY	RDTE/Other Defense-Engineering Development	205
	FAGIN SAMUEL L ASSOC	Penn	NAVY	RDTE/Other Defense-Engineering Development	45
	GAERTNER W W RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	482
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	1,275
	GENERAL DYNAMICS WESTINGHOUSE JV	California	NAVY	RDTE/Other Defense-Engineering Development	5,000

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Other Defense-Engineering Development	296
	GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Other Defense-Engineering Development	11,950
	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE/Other Defense-Engineering Development	230
	GNOSTECH INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	730
	GRASEBY DYNAMICS LTD	UNITED KIN	ARMY	RDTE/Other Defense-Engineering Development	26
	HONEYWELL INC	Minnesota	ARMY	RDTE/Other Defense-Engineering Development	4,764
	HORIZONS TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Engineering Development	69-
	HOWDEN COLONEY INC	Florida	USAF	RDTE/Other Defense-Engineering Development	639
	HRB SINGER INC	Penn	USAF	RDTE/Other Defense-Engineering Development	100
	HUGHES AIRCRAFT & RAYTHEON JV	California	NAVY	RDTE/Other Defense-Engineering Development	10,800
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Defense-Engineering Development	304
	INTEGRATED SOFTWARE INC	Florida	NAVY	RDTE/Other Defense-Engineering Development	514
	INTERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	240
		Penn	NAVY	RDTE/Other Defense-Engineering Development	650
	CONTRACTOR TOTAL				890
	ITT CORPORATION	Indiana	USAF	RDTE/Other Defense-Engineering Development	141
	JAYCOR	Ohio	USAF	RDTE/Other Defense-Engineering Development	747
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Engineering Development	473
	LITTON SYSTEMS INC	California	USAF	RDTE/Other Defense-Engineering Development	70
		New Jersey	NAVY	RDTE/Other Defense-Engineering Development	42
		New York	USAF	RDTE/Other Defense-Engineering Development	200
	CONTRACTOR TOTAL				312
	LOCKHEED CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	565

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	201-
AD94 (CONTINUED)	LOGICON INC	California	USAF	RDTE/Other Defense-Engineering Development		201-
	LOGISTICS MANAGEMENT ENGRG	Maryland	NAVY	RDTE/Other Defense-Engineering Development		95
	LORAL FAIRCHILD SYSTEMS INC	New York	NAVY	RDTE/Other Defense-Engineering Development		11,694
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Other Defense-Engineering Development		113
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Engineering Development		235
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development		255
	MARTIN BAKER AIRCRAFT CO LTD	UNITED KING	NAVY	RDTE/Other Defense-Engineering Development		8,565
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development		100
		Colorado	USAF	RDTE/Other Defense-Engineering Development		305
		Florida	USAF	RDTE/Other Defense-Engineering Development		295
		Maryland	ARMY	RDTE/Other Defense-Engineering Development		8,700
			USAF	RDTE/Other Defense-Engineering Development		84
	COUNTRY TOTAL					8,784
		New York	USAF	RDTE/Other Defense-Engineering Development		99
		Virginia	USAF	RDTE/Other Defense-Engineering Development		285
	CONTRACTOR TOTAL					9,868
	MC DONNELL DOUGLAS INCO INC	Colorado	USAF	RDTE/Other Defense-Engineering Development		3,557
	MEI ASSOCIATES INCORPORATED	Mass	USAF	RDTE/Other Defense-Engineering Development		463
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Other Defense-Engineering Development		93
	METRON CORPORATION	Penn	NAVY	RDTE/Other Defense-Engineering Development		234
	MILITARY VEHCLS OPTN GM CORP	Michigan	ARMY	RDTE/Other Defense-Engineering Development		32
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Other Defense-Engineering Development		50
	MINE SAFETY APPLS COMPANY	Maryland	NAVY	RDTE/Other Defense-Engineering Development		57-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD94 (CONTINUED)					
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Engineering Development	\$ 471
		D.C.	NAVY	RDTE/Other Defense-Engineering Development	182
	CONTRACTOR TOTAL				653
	MORGAN LEWIS & BOCKIUS	Texas	NAVY	RDTE/Other Defense-Engineering Development	151
	NEW ENGLAND STEEL TANK CO	Mass	NAVY	RDTE/Other Defense-Engineering Development	195
	NOVATECH CORPORATION	Colorado	NAVY	RDTE/Other Defense-Engineering Development	52
	ODETECS INC	California	USAF	RDTE/Other Defense-Engineering Development	101
	ORPHIC SYSTEMS INCORPORATED	Penn	ARMY	RDTE/Other Defense-Engineering Development	46
	OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Other Defense-Engineering Development	10,436
	PACCAR INC	Washington	ARMY	RDTE/Other Defense-Engineering Development	5,247
	PERCEPTRONICS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	100
	PLAS TOOL CO	Illinois	ARMY	RDTE/Other Defense-Engineering Development	50
	QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Defense-Engineering Development	531
	RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Other Defense-Engineering Development RDTE/Other Defense-Engineering Development	262 71
		COUNTRY TOTAL			333
	ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Other Defense-Engineering Development	52
	ROLLS ROYCE INC	UNITED KING	NAVY	RDTE/Other Defense-Engineering Development	23,161
	ROTATING PRECISION MECHANISMS	California	ARMY	RDTE/Other Defense-Engineering Development	48
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Engineering Development	81
	SCI TEC INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	134
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Engineering Development	1,099
		California	ARMY	RDTE/Other Defense-Engineering Development	967

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AD94 (CONTINUED)

	CONTRACTOR TOTAL				
	SCOPE INCORPORATED	Ohio	USAF	RDTE/Other Defense-Engineering Development	\$ 1,494
	SIMULATION TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	50
	SINGER COMPANY THE	Virginia	USAF	RDTE/Other Defense-Engineering Development	4,610
	SOCIETE GENERALE DES TAPIS SA	Alabama	ARMY	RDTE/Other Defense-Engineering Development	89
	SOFTTECH INC	Arkansas	USAF	RDTE/Other Defense-Engineering Development	125
	SOFTWARE TECHNOLOGY INC	GERMANY, F	NAVY	RDTE/Other Defense-Engineering Development	1,536
	SOUTHWEST RESEARCH INSTITUTE	Virginia	USAF	RDTE/Other Defense-Engineering Development	560
	SPRINGBORN LABORATORIES INC	Florida	NAVY	RDTE/Other Defense-Engineering Development	6,739
	SRI INTERNATIONAL	Texas	USAF	RDTE/Other Defense-Engineering Development	732
	SYNERGISTIC TECHNOLOGY INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	55
	SYRACUSE RESEARCH CORP	California	USAF	RDTE/Other Defense-Engineering Development	58
	SYSTEM DYNAMICS INC	California	ARMY	RDTE/Other Defense-Engineering Development	3,435
		New York	NAVY	RDTE/Other Defense-Engineering Development	248
		Alabama	ARMY	RDTE/Other Defense-Engineering Development	220
		Florida	ARMY	RDTE/Other Defense-Engineering Development	62
	CONTRACTOR TOTAL				196
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Engineering Development	258
	TECHNION RESEARCH & DEVELOPMEN	ISRAEL	USAF	RDTE/Other Defense-Engineering Development	515
	TERRA TEK INC	Utah	NAVY	RDTE/Other Defense-Engineering Development	101
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Other Defense-Engineering Development	50
	THOMSON CONSUMER ELECTRONICS	New York	USAF	RDTE/Other Defense-Engineering Development	125
	TRICOR SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Engineering Development	117
					46

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD94 (CONTINUED)					
	TRW INC	California	USAF	RDTE/Other Defense-Engineering Development	\$ 41,898
		Mass	USAF	RDTE/Other Defense-Engineering Development	486-
	CONTRACTOR TOTAL				41,412
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Other Defense-Engineering Development	8,109
	UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Other Defense-Engineering Development	62
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Other Defense-Engineering Development	48
	VIRGINIA PLYTECHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Engineering Development	60
	VITRO CORPORATION	Maryland	NAVY	RDTE/Other Defense-Engineering Development	35
		Penn	NAVY	RDTE/Other Defense-Engineering Development	415
	CONTRACTOR TOTAL				450
	VREULS RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	119
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Engineering Development	127
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Engineering Development	31
	XEROX CORPORATION	California	ARMY	RDTE/Other Defense-Engineering Development	1,030
	R&D TOTAL				230,681
AD95	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	95
	A E C DESIGN	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	160
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Operational Systems Dev	50
	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Other Defense-Operational Systems Dev	1,570
	AMERICAN SATELLITE COMPANY	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	79
	ANALYTEK LTD	California	NAVY	RDTE/Other Defense-Operational Systems Dev	112
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	295
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	82

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
	AQUA CHEM INC	Wisconsin	ARMY	RDTE/Other Defense-Operational Systems Dev	\$ 581
	ARGOSYSTEMS INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	96
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	26
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	205
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	288
	BERKELEY RESEARCH ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	727
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Defense-Operational Systems Dev	200
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	132
	BRUNSWICK CORPORATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	193
	CACI INC	D.C.	USAF	RDTE/Other Defense-Operational Systems Dev	532
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	501
	CONTRACTOR TOTAL				1,033
	CACI INTERNATIONAL INC	D.C.	USAF	RDTE/Other Defense-Operational Systems Dev	244
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	191
	CONTRACTOR TOTAL				435
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Operational Systems Dev	616
	CAMPBELL ENGINEERING INC	Alabama	NAVY	RDTE/Other Defense-Operational Systems Dev	50
	CHAMBERLAIN MANUFACTURING CORP	Illinois	USAF	RDTE/Other Defense-Operational Systems Dev	125
	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Other Defense-Operational Systems Dev	278
	COCKERHAM JOHN M & ASSOCIATES	New Jersey	ARMY	RDTE/Other Defense-Operational Systems Dev	791
	COMPUTER SCIENCE CORPORATION	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	6,802
		USAF	RDTE/Other Defense-Operational Systems Dev		32
	COUNTRY TOTAL				6,834

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
	COORS PORCELAIN COMPANY	Colorado	ARMY	RDTE/Other Defense-Operational Systems Dev	\$ 26
	DYNAMICS RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	37
	ERDAS INC	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev	109
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Operational Systems Dev	17,259
	FAILURE ANALYSIS ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev	86
	FORD AEROSPACE COMMCTIONS CORP	Colorado	USAF	RDTE/Other Defense-Operational Systems Dev	654
	G R D INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	96
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	678
		Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	283
	CONTRACTOR TOTAL				961
	GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	185
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev	30
	H F SCIENTIFIC INC	Florida	ARMY	RDTE/Other Defense-Operational Systems Dev	35
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Operational Systems Dev	53
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	239
	INFORMATION SYSTEMS NTRKS CORP	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	207
	JB SYSTEMS	California	NAVY	RDTE/Other Defense-Operational Systems Dev	49
	KETRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	1,100
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	75
	KNOWLEDGE SYSTEMS CONCEPTS	Kansas	USAF	RDTE/Other Defense-Operational Systems Dev	175
		New York	USAF	RDTE/Other Defense-Operational Systems Dev	1,048
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	291
	CONTRACTOR TOTAL				1,514
	LOCKHEED CORPORATION	New Mexico	USAF	RDTE/Other Defense-Operational Systems Dev	2,388-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	M/A-COM PHI INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev	90
	MANAGEMENT CONSULTING & RES	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	40
	MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Defense-Operational Systems Dev	125
		Florida	USAF	RDTE/Other Defense-Operational Systems Dev	235
		Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	195
	CONTRACTOR TOTAL				555
	MC DONNELL DOUGLAS INCO INC	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	729
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Operational Systems Dev	399
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	400
	NETWORK DYNAMICS	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	244
	NEW ENGLAND STEEL TANK CO	Mass	NAVY	RDTE/Other Defense-Operational Systems Dev	29
	NORTH TEXAS STATE UNIVERSITY	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	50
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Operational Systems Dev	1,523
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Operational Systems Dev	160
	FAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	232
		New York	USAF	RDTE/Other Defense-Operational Systems Dev	553
	CONTRACTOR TOTAL				785
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Operational Systems Dev	149
		Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	394
	CONTRACTOR TOTAL				543
	PLANNING RESEARCH CORPORATION	Hawaii	USAF	RDTE/Other Defense-Operational Systems Dev	1,629
		Nebraska	USAF	RDTE/Other Defense-Operational Systems Dev	4,508
	CONTRACTOR TOTAL				6,137

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
	QUANTICS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	\$ 50
	QUESTTECH INC	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	396
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	559
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Other Defense-Operational Systems Dev	38
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	302
	CONTRACTOR TOTAL				340
	SCIENTIFIC MGT ASSOCIATES	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	136
	SIGNAL SCIENCE INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	93
	SIGNATRON INC	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	325
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	100
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Operational Systems Dev	294
			USAF	RDTE/Other Defense-Operational Systems Dev	270
	COUNTRY TOTAL				564
	SYSTEM DYNAMICS INC	Florida	ARMY	RDTE/Other Defense-Operational Systems Dev	50
	SYSTEMS PLANNING CORP	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	267
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	379
	TAU CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	210
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Other Defense-Operational Systems Dev	1,837
	THIokol CORPORATION	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	1,229
	UNION CARBIDE CORPORATION	Washington	NAVY	RDTE/Other Defense-Operational Systems Dev	300
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	52
	VEDA INCORPORATED	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	52
	VITRO CORPORATION	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	152
	WALLACE T H INC	Florida	USAF	RDTE/Other Defense-Operational Systems Dev	2,515

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)				
WYKO CORP	Arizona	ARMY	RDTE/Other Defense-Operational Systems Dev	\$ 75
R&D TOTAL				56,745
AD96 A E C DESIGN	Virginia	NAVY	RDTE/Other Defense-Management & Support	50
A K M ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support	50
A O G SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	200
ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	50
ADVANCED COMPOSITE TECHNOLOGY	Colorado	USAF	RDTE/Other Defense-Management & Support	50
ADVANCED ENERGY TECH	California	USAF	RDTE/Other Defense-Management & Support	49
ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Other Defense-Management & Support	565
ADVANCED RESOURCE DEV CORP	Maryland	NAVY	RDTE/Other Defense-Management & Support	271
ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Other Defense-Management & Support	48
ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,618
ADVANCED TECHNOLOGY MTLs DEL	Conn	NAVY	RDTE/Other Defense-Management & Support	78
AERODYNE PRODUCTS CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	200
AEROSPATIALE	FRANCE	USAF	RDTE/Other Defense-Management & Support	1,647
ALESAT CORPORATION	Ohio	USAF	RDTE/Other Defense-Management & Support	49
ALPHATECH INC	Mass	ARMY	RDTE/Other Defense-Management & Support	51
AMERICAN ELECTRONICS INC	Mass	NAVY	RDTE/Other Defense-Management & Support	250
AMERICAN RESEARCH CORP VA	Virginia	USAF	RDTE/Other Defense-Management & Support	147
AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Defense-Management & Support	69
ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Other Defense-Management & Support	123
	Virginia	ARMY	RDTE/Other Defense-Management & Support	55
CONTRACTOR TOTAL				178

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	ANALYTICS INCORPORATED	Ohio	USAF	RDTE/Other Defense-Management & Support	\$ 300
		Virginia	USAF	RDTE/Other Defense-Management & Support	179
	CONTRACTOR TOTAL				479
	ANDRULIS RESEARCH CORP	Maryland	ARMY	RDTE/Other Defense-Management & Support	235
	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Other Defense-Management & Support	67
	AQUANAUTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	50
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Other Defense-Management & Support	50
	ASTRON CORPORATION	Virginia	USAF	RDTE/Other Defense-Management & Support	49
	ASTROSYSTEMS INC	Delaware	USAF	RDTE/Other Defense-Management & Support	104
	ATEAM CORP	Ohio	USAF	RDTE/Other Defense-Management & Support	94
	BARRON ASSOCIATES INC	Virginia	USAF	RDTE/Other Defense-Management & Support	475
	BBN COMMUNICATIONS CORP	Mass	USAF	RDTE/Other Defense-Management & Support	300
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	481
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Management & Support	696
	BETAC CORPORATION	Virginia	USAF	RDTE/Other Defense-Management & Support	51
	BIO METRIC SYSTEMS INC	Minnesota	USAF	RDTE/Other Defense-Management & Support	63
	BIODYNAMIC RESEARCH CORP	Texas	USAF	RDTE/Other Defense-Management & Support	98
	BLANCHARD & CO	Maryland	USAF	RDTE/Other Defense-Management & Support	50
	BOEING COMPANY THE	Kansas	USAF	RDTE/Other Defense-Management & Support	200
	BONNEVILLE SCIENTIFIC INC	Utah	USAF	RDTE/Other Defense-Management & Support	50
	C LEC PLASTICS INC	New Jersey	ARMY	RDTE/Other Defense-Management & Support	89
	CACI INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	655
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Management & Support	449
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Other Defense-Management & Support	105

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AD96 (CONTINUED)	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Management & Support	182
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Defense Management & Support	49
	CHEMICAL TESTING & CONSULTING	Mass	USAF	RDTE/Other Defense-Management & Support	47
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Other Defense-Management & Support	200
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	51
	COCKERHAM JOHN M & ASSOCIATES	Alabama	ARMY	RDTE/Other Defense-Management & Support	547
	COLLINS INTERNATIONAL SVC CO	Idaho	USAF	RDTE/Other Defense-Management & Support	433
	COMPEX INC	Michigan	USAF	RDTE/Other Defense-Management & Support	49
	COMPLERE INC	California	USAF	RDTE/Other Defense-Management & Support	200
	CORIOLIS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	90
	CREARE RESEARCH & DEVELOPMENT	N.H.	USAF	RDTE/Other Defense-Management & Support	101
	CUSTOM EMBLEM PRODUCTS	California	USAF	RDTE/Other Defense-Management & Support	304
	DAINA	Minnesota	USAF	RDTE/Other Defense-Management & Support	38
	DECISION SCIENCE CONSORTIUM	Virginia	USAF	RDTE/Other Defense-Management & Support	114
	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Other Defense-Management & Support	49
	DIGITAL DISPATCH INC	Minnesota	USAF	RDTE/Other Defense-Management & Support	48
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Management & Support	51
	DOALL BALTIMORE INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	38
	DOTY SCIENTIFIC INC	S Carolina	ARMY	RDTE/Other Defense-Management & Support	50
	DOWLAND BACH CORP	Alaska	USAF	RDTE/Other Defense-Management & Support	69
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Management & Support	90
	DUFFY ENGINEERING	Mass	USAF	RDTE/Other Defense-Management & Support	45
	DUNCAN TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	47

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Management & Support	\$ 130
	E I C LABORATORY INC	Mass	USAF	RDTE/Other Defense-Management & Support	60
	E TEK DYNAMICS INC	California	USAF	RDTE/Other Defense-Management & Support	269
	EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Management & Support	44
		Virginia	USAF	RDTE/Other Defense-Management & Support	49
	CONTRACTOR TOTAL				93
	EC CONSULTING CO	New York	USAF	RDTE/Other Defense-Management & Support	50
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Management & Support	140
	ELECTRONIC WARFARE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Management & Support	3,128
	EPITAXX INC	New Jersey	ARMY	RDTE/Other Defense-Management & Support	47
	ESSEX CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support	52
	EVANS CHARLES & ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support	50
	EXPERT EASE SYSTEMS INC	California	USAF	RDTE/Other Defense-Management & Support	476
	FALCON MICROSYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	1,666
	FERNO WASHINGTON INC	Ohio	USAF	RDTE/Other Defense-Management & Support	48
	FLOWDRILL CORP	Washington	USAF	RDTE/Other Defense-Management & Support	287
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Management & Support	473
	G M S ENGINEERING CORPORATION	Maryland	USAF	RDTE/Other Defense-Management & Support	47
	GALAXY MICROSYSTEMS INC	Texas	ARMY	RDTE/Other Defense-Management & Support	49
	GDS TECH INC	Indiana	NAVY	RDTE/Other Defense-Management & Support	48
	GENERAL ELECTRIC CO	Arizona	USAF	RDTE/Other Defense-Management & Support	600
	GENERAL ENG & SYS ANALYSIS CO	Maryland	USAF	RDTE/Other Defense-Management & Support	50
	GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Management & Support	610

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AD96 (CONTINUED)					
	GINER INC	Mass	ARMY	RDTE/Other Defense-Management & Support	\$ 50
	HEWLETT PACKARD COMPANY	Penn	NAVY	RDTE/Other Defense-Management & Support	100
	HOWELL TOOL & FABRICATING	Michigan	ARMY	RDTE/Other Defense-Management & Support	64
	HUMAN MACHINE INTERFACES INC	Tennessee	USAF	RDTE/Other Defense-Management & Support	50
	HUMAN RSRCES RES ORGANIZATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	135
	I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	49
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Management & Support	702
		New York	USAF	RDTE/Other Defense-Management & Support	225
	CONTRACTOR TOTAL				927
	IMPLANT SCIENCES CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	43
	INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Defense-Management & Support	470
	INFORMATION NETWORK SYSTEMS	Penn	NAVY	RDTE/Other Defense-Management & Support	56
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Defense-Management & Support	42,811
	INTELLIGENT SYSTEMS DESIGN	Washington	USAF	RDTE/Other Defense-Management & Support	50
	INTERMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support	1,666
	INTERNATIONAL SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	65
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Other Defense-Management & Support	68
	KAHN HARRY J ASSOCIATES INC	New York	NAVY	RDTE/Other Defense-Management & Support	225
	KAMBEA INDUSTRIES	California	USAF	RDTE/Other Defense-Management & Support	50
	KD COMPONENTS INC	California	ARMY	RDTE/Other Defense-Management & Support	43
	KETRON INC	Penn	USAF	RDTE/Other Defense-Management & Support	46
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Management & Support	168
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Defense-Management & Support	58

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)				
KUIPERS & ASSOCS	Michigan	USAF	RDTE/Other Defense-Management & Support	183
LEHIGH VALLEY COMPUTER SVCS	Penn	USAF	RDTE/Other Defense-Management & Support	48
LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Other Defense-Management & Support	47
LITHIUM ENERGY ASSOC INC	Mass	USAF	RDTE/Other Defense-Management & Support	50
LOCUS INC	Virginia	NAVY	RDTE/Other Defense-Management & Support	118
LUBRICATING SPC COMPANY	California	USAF	RDTE/Other Defense-Management & Support	185
M/A COM LINKABIT INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,955
MACH I INC	Penn	NAVY	RDTE/Other Defense-Management & Support	53
MARK RESOURCES INC	California	ARMY	RDTE/Other Defense-Management & Support	216
MARKO MATERIALS INC	Mass	USAF	RDTE/Other Defense-Management & Support	49
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support	388
MASSACHUSETTS UNIVERSITY OF	Mass	NAVY	RDTE/Other Defense-Management & Support	200
MATLS RES & COMPUTER	Arizona	NAVY	RDTE/Other Defense-Management & Support	180
MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Other Defense-Management & Support	745
MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	200
	Missouri	USAF	RDTE/Other Defense-Management & Support	379
CONTRACTOR TOTAL				579
MDA ENGINEERING	Texas	USAF	RDTE/Other Defense-Management & Support	501
MOLECULAR TECH INC	Mass	USAF	RDTE/Other Defense-Management & Support	49
NATIONAL SECURITY ANALYST INC	Virginia	USAF	RDTE/Other Defense-Management & Support	44
NESTOR INC	Rhode Isld	USAF	RDTE/Other Defense-Management & Support	40
NIAGARA SCIENTIFIC INC	New York	USAF	RDTE/Other Defense-Management & Support	26-
NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Management & Support	272

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AD96 (CONTINUED)					
	NORTH AMERICAN DYNAMICS	California	USAF	RDTE/Other Defense-Management & Support	50
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Management & Support	88
	NTI INC	Ohio	USAF	RDTE/Other Defense-Management & Support	59
	OPTIMIZATION TECHNOLOGY INC	Alabama	NAVY	RDTE/Other Defense-Management & Support	49
	ORBITAL TECHNOLOGIES CO	Wisconsin	USAF	RDTE/Other Defense-Management & Support	79
	ORD INC	N.H.	USAF	RDTE/Other Defense-Management & Support	480
	ORTEL CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	50
	P D A ENGINEERING	California	NAVY	RDTE/Other Defense-Management & Support	49
	PACER SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Management & Support	240
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	487
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	50
	PHYSICAL RESEARCH INC	California	NAVY	RDTE/Other Defense-Management & Support	229
	PHYSICAL SCIENCES INC	Mass	NAVY USAF	RDTE/Other Defense-Management & Support RDTE/Other Defense-Management & Support	50 400
	COUNTRY TOTAL				450
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Management & Support	286
	PLANNING RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,380
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Management & Support	50
	PROG DEV CORP OF SCARSDALE INC	New York	USAF	RDTE/Other Defense-Management & Support	49
	PROGRESSIVE LRNG UNVSL MGMT	Maryland	USAF	RDTE/Other Defense-Management & Support	50
	RAND CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	26,079
	RASOR ASSOCIATES INC	California	USAF	RDTE/Other Defense-Management & Support	94
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Other Defense-Management & Support	26

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
4D96 (CONTINUED)					
	S TRON	California	USAF	RDTE/Other Defense-Management & Support	250
	SAM TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support	350
	SAN DIEGO SEMICONDUCTORS INC	California	USAF	RDTE/Other Defense-Management & Support	122
	SCHMIDT INSTRUMENTS	Texas	USAF	RDTE/Other Defense-Management & Support	50
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Other Defense-Management & Support	48
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Defense-Management & Support	497
			NAVY	RDTE/Other Defense-Management & Support	288
			USAF	RDTE/Other Defense-Management & Support	410
					1,195
		COUNTRY TOTAL			
		New York	USAF	RDTE/Other Defense-Management & Support	348
					1,543
	CONTRACTOR TOTAL				
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Other Defense-Management & Support	64
	SEMCOR INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support	575
	SERVIS DAVID A INC	Ohio	USAF	RDTE/Other Defense-Management & Support	160
	SILHOUETTE TECHNOLOGY INC	New Jersey	USAF	RDTE/Other Defense-Management & Support	50
	SIMULA INC	Arizona	USAF	RDTE/Other Defense-Management & Support	99
	SOHAR INCORPORATED	California	USAF	RDTE/Other Defense-Management & Support	178
	SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other Defense-Management & Support	298
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Management & Support	648
	SOUTHERN BIOTECHNOLOGY ASSOC	Alabama	ARMY	RDTE/Other Defense-Management & Support	424
	SPARTA INC	California	USAF	RDTE/Other Defense-Management & Support	320
	SPEECH SYSTEMS INC	California	ARMY	RDTE/Other Defense-Management & Support	49
	SPERRY CORPORATION	Penn	NAVY	RDTE/Other Defense-Management & Support	90
	SPIRE CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	498

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Other Defense-Management & Support	\$ 60
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Management & Support	39
		Florida	USAF	RDTE/Other Defense-Management & Support	165
	CONTRACTOR TOTAL				204
	SRS TECHNOLOGIES	Alabama	NAVY	RDTE/Other Defense-Management & Support	214
		California	USAF	RDTE/Other Defense-Management & Support	8.
	CONTRACTOR TOTAL				296
	STANFORD LELAND JUNIOR UNIV	California	NAVY	RDTE/Other Defense-Management & Support	1,162
	SUMMIT ANALYTICAL SCIENCES INC	Colorado	USAF	RDTE/Other Defense-Management & Support	568
	SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other Defense-Management & Support	51
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Defense-Management & Support	707
		Virginia	NAVY	RDTE/Other Defense-Management & Support	3,785
	CONTRACTOR TOTAL				4,492
	SYSTEMS & TECHNOLOGY RESEARCH	Virginia	USAF	RDTE/Other Defense-Management & Support	50
	SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Other Defense-Management & Support	183
	SYSTRAM CORP	Ohio	USAF	RDTE/Other Defense-Management & Support	253
	TACAN CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	400
	TECHNOCHEM CO	N Carolina	USAF	RDTE/Other Defense-Management & Support	400
	TECHNOLOGY DEVELOPEMENT ASSOCS	Colorado	USAF	RDTE/Other Defense-Management & Support	400
	TECHNOLOGY SYSTEMS INC	Maine	USAF	RDTE/Other Defense-Management & Support	151
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other Defense-Management & Support	188
	TINI ALLOY COMPANY	California	USAF	RDTE/Other Defense-Management & Support	50
	TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	259

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	TRANS AMERICAN IMMUNOLOGY INC	Mass	ARMY	RDTE/Other Defense-Management & Support	119
	TUSKEGEE RESEARCH INSTITUTE	N Carolina	USAF	RDTE/Other Defense-Management & Support	42
	TXS INC	Texas	USAF	RDTE/Other Defense-Management & Support	50
	UNISYS CORPORATION	Minnesota	USAF	RDTE/Other Defense-Management & Support	229
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY	RDTE/Other Defense-Management & Support	201
			USAF	RDTE/Other Defense-Management & Support	181
	COUNTRY TOTAL				382
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Management & Support	795
	UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Other Defense-Management & Support	139
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Management & Support	140
	UNIVERSITY RES ENGINEERS ASSOC	Mass	NAVY	RDTE/Other Defense-Management & Support	50
	VISTA RESEARCH	Arizona	USAF	RDTE/Other Defense-Management & Support	49
	VREULS RESEARCH CORPORATION	D.C.	ARMY	RDTE/Other Defense-Management & Support	474
	WINDROCK ASSOC	Tennessee	NAVY	RDTE/Other Defense-Management & Support	50
	ZEROONE SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Management & Support	466
	R&D TOTAL				123,187
AE21	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Product or Svc Improvement-Basic Res	91
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Product or Svc Improvement-Basic Res	225
	R&D TOTAL				316
AE26	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Product or Svc Improvement-Mgmt & Su	892
AE32	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Exploratory	90
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Exploratory	53
	R&D TOTAL				143

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AE33	METALWORKING TECHNOLOGY INC	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev	\$ 3,230
AE34	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Manufacturing Technology-Engr Develop	885
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Manufacturing Technology-Engr Develop	159
	R&D TOTAL				1,044
AE35	ACUREX CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	916
	APPLIED SOLAR ENERGY CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,150
	BOEING COMPANY THE	Kansas	USAF	RDTE/Manufacturing Technology-Op Systems D	514
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	692
	CONTRACTOR TOTAL				1,206
	BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	128
	CINCINNATI MILACRON MKTG CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,700
	CLEMSON UNIVERSITY	S Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	1,041
	DRAVO CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	8,783
	EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	104
	EXTRUDE HONE CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	134
	FASHION INST OF TECHNOLOGY	New York	DLA	RDTE/Manufacturing Technology-Op Systems D	194
	GENERAL ATOMICS	California	USAF	RDTE/Manufacturing Technology-Op Systems D	8,440
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	29-
	GENERAL ELECTRIC CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	9,400
	GEORGIA TECH RESEARCH INST	Georgia	DLA	RDTE/Manufacturing Technology-Op Systems D	1,384
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Manufacturing Technology-Op Systems D	520
	HONEYWELL INC	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D	421
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Manufacturing Technology-Op Systems D	3,430
	INDUSTRIAL TCHNLOGY INSTITUTE	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	97
	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	3,033

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AE35 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Op Systems D	\$ 318
		Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	2,000
	CONTRACTOR TOTAL				2,318
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	1,915
	MECHANICAL TECHNOLOGY INC	New York	ARMY USAF	RDTE/Manufacturing Technology-Op Systems D RDTE/Manufacturing Technology-Op Systems D	177 484
	COUNTRY TOTAL				661
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	100
	NATIONAL SEMICONDUCTOR CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	550
	NORTHROP CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	8,667
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	70
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	522
	R D & D CORP	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	61
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	3,500
	ROHR INDUSTRIES INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	59
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	812
	SETCO INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	130
	SHULTZ STEEL CO INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	719
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	2,218
	SRI INTERNATIONAL	California	DLA	RDTE/Manufacturing Technology-Op Systems D	940
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	4,664
	SYSTRAN CORP	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	35
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	885

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AE35 (CONTINUED)					
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	13,317
	TEXAS INSTRUMENTS WESTNGHSE JV	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	1,490
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	115
	TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	738
	TRACOR INSTRUMENTS AUSTIN INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	57
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	600
		Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	1,800
	CONTRACTOR TOTAL				2,400
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	2,808
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	408
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	435
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	200
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	4,040
	CONTRACTOR TOTAL	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	1,535
	R&D TOTAL				5,575
	AE36 SYSCON CORPORATION	Alabama	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	98,421
		D. C.	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	80
	CONTRACTOR TOTAL				1,698
	AE91 UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Econ Growth&Productivity-Basic	1,778
	AE92 WEFA INC	Penn	ARMY	RDTE/Other Econ Growth&Productivity-Explor	56
	AF11 HARVARD UNIVERSITY	Mass	ARMY	RDTE/Education-Basic Research	174
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Education-Basic Research	44
					45

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				89
AF12	COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Education-Exploratory Development	33
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Education-Exploratory Development	324
	SCRIPPS CLINIC RES FOUNDATION	California	NAVY	RDTE/Education-Exploratory Development	55
	UNIVERSITY OF NEW MEXICO	New Mexico	NAVY	RDTE/Education-Exploratory Development	50
	R&D TOTAL				462
AF15	BLACK HAWK COLLEGE DST #503	Illinois	ARMY	RDTE/Education-Operational Systems Develop	43
	COLLEGE OF LAKE COUNTY	Illinois	ARMY	RDTE/Education-Operational Systems Develop	126
	R&D TOTAL				169
AG43	PHOTO METRIC INC	Mass	NAVY	RDTE/Energy - Wind - Advanced Development	50
AG53	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Energy - Nuclear - Advanced Developme	1,489
AG61	GEO CENTERS INC	Mass	USAF	RDTE/Energy - Petroleum - Basic Research	36
AG62	CATHOLIC UNIVERSITY OF AMERICA	Virginia	NAVY	RDTE/Energy - Petroleum - Exploratory Deve	98
AG91	ELTECH RESEARCH CORP	Ohio	NAVY	RDTE/Other Energy - Basic Research	50
AG92	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Energy - Exploratory Developmen	892
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Energy - Exploratory Developmen	50
	TRW INC	California	NAVY	RDTE/Other Energy - Exploratory Developmen	346
	R&D TOTAL				1,288
AH11	INSTITUTE OF WILDLIFE TOX	Washington	NAVY	RDTE/Pollution Cntl & Abatement-Basic Rese	282
AH12	P E I ASSOCIATES INC	Ohio	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	1,871
	WESTON ROY F INC	Penn	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	2,711
	R&D TOTAL				4,582
AH14	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Pollution Cntl & Abatement-Engineerin	286
	RADIAN CORPORATION	Texas	USAF	RDTE/Pollution Cntl & Abatement-Engineerin	45

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					331
AH16	HELIPUMP CORP	Ohio	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	50
	PRECISION COMBUSTION INC	Conn	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	56
R&D TOTAL					106
AH21	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Air Pollution-Basic Research	1,074
AH26	E I C LABORATORY INC	Mass	USAF	RDTE/Air Pollution-Management & Support	50
	FOSTER MILLER INC	Mass	USAF	RDTE/Air Pollution-Management & Support	55
	METROLASER	California	USAF	RDTE/Air Pollution-Management & Support	50
	SIGMA RESEARCH INC	Mass	USAF	RDTE/Air Pollution-Management & Support	208
R&D TOTAL					363
AH31	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Water Pollution-Basic Research	45
	MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Water Pollution-Basic Research	40
R&D TOTAL					85
AH32	LOUISIANA STATE UNIVERSITY	Louisiana	USAF	RDTE/Water Pollution-Exploratory Developme	156
	NORTH DAKOTA ST UNIVER ALUMNI	N Dakota	USAF	RDTE/Water Pollution-Exploratory Developme	116
R&D TOTAL					272
AH36	STATE OF NEW JERSEY DEPT OF E	New Jersey	ARMY	RDTE/Water Pollution-Management & Support	32
AH42	UNIVERSITY OF DAYTON	Ohio	ARMY	RDTE/Noise Pollution-Exploratory Developme	99
AH91	EXCOSER S C	BELGIUM	ARMY	RDTE/Other Environmental Protection-Basic	31
AH92	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Environmental Protection-Explor	170
AH94	TETRA TECH INC	California	USAF	RDTE/Other Environmental Protection-Engr D	4,620
AH96	A R E MANUFACTURING CO INC	Florida	NAVY	RDTE/Other Environmental Protection-Mgmt &	495
	APPLIED RESEARCH ASSOC INC	N Carolina	USAF	RDTE/Other Environmental Protection-Mgmt &	265
R&D TOTAL					760

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11	A T & T TECHNOLOGIES INC	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	86
	ADVANCED COMPOSITE TECHNOLOGY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	325
	ADVANCED ENG DESIGN & RESEARCH	Maryland	USAF	RDTE/Physical Sciences - Basic Research	30
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	154
	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Physical Sciences - Basic Research	114
	AEROMETRICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	49
	AIRSPACE TECHNOLOGY CORP	California	USAF	RDTE/Physical Sciences - Basic Research	48
	ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	46
	AMERICAN SCIENCE & ENGINEERING	Mass	USAF	RDTE/Physical Sciences - Basic Research	98
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	435
	AMRON CORPORATION	Virginia	NAVY	RDTE/Physical Sciences - Basic Research	165
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Physical Sciences - Basic Research	180
	APPLIED MCRWAVE PLASMA CONCEPTS	California	USAF	RDTE/Physical Sciences - Basic Research	214
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	96
	ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences - Basic Research	140
	ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Physical Sciences - Basic Research	95
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences - Basic Research	49
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	54
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	449
	BELL TELEPHONE LABS INC	New Jersey	NAVY	RDTE/Physical Sciences - Basic Research	60
	BERKELEY RESEARCH ASSOCIATES	Virginia	NAVY	RDTE/Physical Sciences - Basic Research	80
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Basic Research	454
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Basic Research	564
	BOSTON UNIVERSITY TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Basic Research	965
	BROADCOM INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	569

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AJ11 (CONTINUED)				
BROWN UNIVERSITY	Rhode Isl	USAF	RDTE/Physical Sciences - Basic Research	603
CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Physical Sciences - Basic Research	1,033
CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Basic Research	82
CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research	75
CAMBRIDGE RES INSTRUMENTATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	151
CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Physical Sciences - Basic Research	315
CANETICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	52
CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Basic Research	818
CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	40
CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	1,429
CERAMPHYSICS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	80
CITY UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	764
CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Physical Sciences - Basic Research	74
CLARKSON UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	193
CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Basic Research	50
COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	664
COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	713
COMPUTATIONAL MECHANICS CO	Texas	USAF	RDTE/Physical Sciences - Basic Research	258
COMPUTER SCIENCE INNOVATIONS	Alabama	USAF	RDTE/Physical Sciences - Basic Research	87
CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	39
CORNELL UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	1,670
CORP FOR STUDIES & ANALYSIS	California	USAF	RDTE/Physical Sciences - Basic Research	64
CREATIVE OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	79

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	CYBER COM CORP	California	USAF	RDTE/Physical Sciences - Basic Research	50
	DARTMOUTH COLLEGE	N. H.	USAF	RDTE/Physical Sciences - Basic Research	175
	DELFT UNIV OF TECHNOLOGY	NETHERLAND	USAF	RDTE/Physical Sciences - Basic Research	34
	DOVE ELECTRONICS INC	New York	USAF	RDTE/Physical Sciences - Basic Research	55
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Physical Sciences - Basic Research	414
	E E G SYSTEMS LABORATORY INC	California	USAF	RDTE/Physical Sciences - Basic Research	151
	E I C LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	150
	EAGLE PICHER INDUSTRIES INC	Oklahoma	USAF	RDTE/Physical Sciences - Basic Research	86-
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	57
	EMMANUEL COLLEGE	Mass	USAF	RDTE/Physical Sciences - Basic Research	766
	ENDOCHRONICS	Washington	USAF	RDTE/Physical Sciences - Basic Research	47
	ENGINEERING & ECONOMICS RES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	187
	ENTEK INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	49
	EPITAXX INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	150
	FAIRCHILD INDUSTRIES INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	416
	FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Physical Sciences - Basic Research	260
	FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Physical Sciences - Basic Research	337
	G T DEVICES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	146
	GENERAL ATOMICS	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	60 460
	COUNTRY TOTAL				520
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Physical Sciences - Basic Research	1,538
		Ohio	USAF	RDTE/Physical Sciences - Basic Research	128

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL PLASMA ASSOCIATES INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	1,666
	GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	50
		Mass	NAVY	RDTE/Physical Sciences - Basic Research	546
	CONTRACTOR TOTAL				
	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE/Physical Sciences - Basic Research	200
	GS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	746
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Basic Research	381
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	43
	HONEYWELL INC	Arizona	USAF	RDTE/Physical Sciences - Basic Research	190
		Minnesota	USAF	RDTE/Physical Sciences - Basic Research	143
	CONTRACTOR TOTAL				
	HOWARD UNIVERSITY	D.C.	USAF	RDTE/Physical Sciences - Basic Research	79
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Physical Sciences - Basic Research	254
			USAF	RDTE/Physical Sciences - Basic Research	333
	COUNTRY TOTAL				
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Physical Sciences - Basic Research	299
	INNOTECH ENTERPRISES	New York	NAVY	RDTE/Physical Sciences - Basic Research	289
	INSTITUTE FOR SYSTEMS ANALYSIS	Maryland	USAF	RDTE/Physical Sciences - Basic Research	950
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research	1,239
	INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Basic Research	449
	JAMIESON SCIENCE & ENGINEERING	Maryland	USAF	RDTE/Physical Sciences - Basic Research	48
	JAYCOR	California	USAF	RDTE/Physical Sciences - Basic Research	111
			USAF	RDTE/Physical Sciences - Basic Research	40
			USAF	RDTE/Physical Sciences - Basic Research	48
			USAF	RDTE/Physical Sciences - Basic Research	108
			USAF	RDTE/Physical Sciences - Basic Research	72

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AJ11 (CONTINUED)				
CONTRACTOR TOTAL				
JOHNS HOPKINS UNIVERSITY	Maryland	USAF	RDTE/Physical Sciences - Basic Research	855
KOPIN CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	927
KTAADN INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	101
LA JOLLA INSTITUTE	California	NAVY	RDTE/Physical Sciences - Basic Research	150
LASERTRON INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	68
LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Physical Sciences - Basic Research	219
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Basic Research	200
LOWELL OBSERVATORY	Arizona	USAF	RDTE/Physical Sciences - Basic Research	178
MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	220
MASSACHSETTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Physical Sciences - Basic Research	40
		USAF	RDTE/Physical Sciences - Basic Research	480
		NAVY	RDTE/Physical Sciences - Basic Research	50
		USAF	RDTE/Physical Sciences - Basic Research	2,471
	COUNTRY TOTAL			2,521
MASSACHUSETTS UNIVERSITY OF	Mass	USAF	RDTE/Physical Sciences - Basic Research	2,059
MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	150
MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	266
	Missouri	USAF	RDTE/Physical Sciences - Basic Research	222
				488
CONTRACTOR TOTAL				248
MEHARRY MEDICAL COLLEGE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	108
MESOSCALE ENVIR SIMULATN	Virginia	USAF	RDTE/Physical Sciences - Basic Research	44
METSAT INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	75
MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Physical Sciences - Basic Research	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	100
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	243
		N.H.	USAF	RDTE/Physical Sciences - Basic Research	271
		Virginia	USAF	RDTE/Physical Sciences - Basic Research	44
	CONTRACTOR TOTAL				558
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Basic Research	1,915
	NEUROGEN LABS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	72
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	150
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	1,105
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Basic Research	104
	NORTH CAROLINA A & T UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	121
	NORTH CAROLINA CENTRAL UNIVER	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	225
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	530
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Basic Research	159
	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Physical Sciences - Basic Research	386
	NOVA PHARMACEUTICAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research	65
	NOVA UNIVERSITY INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	100
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Basic Research	94
	OPTRA INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	416
	OPTRON SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	59
	ORTEL CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	200
	P C O INC	California	USAF	RDTE/Physical Sciences - Basic Research	50
	PEDA CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	98

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AJ11 (CONTINUED)					
	PENNSYLVANIA STATE UNIV THE	Penn	USAF	RDTE/Physical Sciences - Basic Research	222
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	137
	PHOTON RESEARCH ASSOCIATES	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	PHRAXOS RESEARCH & DEV	California	USAF	RDTE/Physical Sciences - Basic Research	74
	PHYSICAL DYNAMICS INC	Washington	USAF	RDTE/Physical Sciences - Basic Research	1,012
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,576
	PLESSEY UK LIMITED	UNITED KIN	USAF	RDTE/Physical Sciences - Basic Research	95
	POLYTECHNIC UNIV OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	531
	POTOMAC PHOTONICS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	40
	POWER SPECTRA INC	California	USAF	RDTE/Physical Sciences - Basic Research	50
	PRINCETON SCIENTIFIC INSTRS	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	155
	PRINCETON UNIVERSITY	New Jersey	ARMY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	68 359
		COUNTRY TOTAL			427
	PURDUE UNIVERSITY	Indiana	ARMY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	40 339
		COUNTRY TOTAL			379
	R & D ASSOCIATES	California	USAF	RDTE/Physical Sciences - Basic Research	142
	R D P INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	411
	RANDON APPLICATIONS INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	26
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Basic Research	48
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	150
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research	692
	S T D RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	74

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AJ11 (CONTINUED)					
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	\$ 216
		Maryland	NAVY	RDTE/Physical Sciences - Basic Research	1,211
			USAF	RDTE/Physical Sciences - Basic Research	77
	COUNTRY TOTAL				1,288
					1,504
	CONTRACTOR TOTAL				372
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	259
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Basic Research	48
	SCIENTIFIC ASSOCIATES INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	111
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	49
	SELF CORP	California	USAF	RDTE/Physical Sciences - Basic Research	54
	SOUTHEASTN CTR ELECTR ENG ED	Florida	NAVY	RDTE/Physical Sciences - Basic Research	1,875
			USAF	RDTE/Physical Sciences - Basic Research	1,929
	COUNTRY TOTAL				75
		Mass	USAF	RDTE/Physical Sciences - Basic Research	2,004
	CONTRACTOR TOTAL				255
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	417
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Physical Sciences - Basic Research	50
	SPACE SCIENCES CORP	New York	USAF	RDTE/Physical Sciences - Basic Research	397
	SPARTA INC	California	USAF	RDTE/Physical Sciences - Basic Research	1,041
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	95
	SPECTRUM 39 LTD	Maryland	USAF	RDTE/Physical Sciences - Basic Research	249
	SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	2,084
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Basic Research	70
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Physical Sciences - Basic Research	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Physical Sciences - Basic Research	4,460
	STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Physical Sciences - Basic Research	277
	STATCON INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	59
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	841
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Basic Research	58
	TACAN CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	616
	TECHNOLOGY & MGT SYSTEMS	Mass	USAF	RDTE/Physical Sciences - Basic Research	69
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	633
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Basic Research	320
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Physical Sciences - Basic Research	150
	THERMACORE INC	Penn	USAF	RDTE/Physical Sciences - Basic Research	80
	TRW INC	California	USAF	RDTE/Physical Sciences - Basic Research	1,082
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	TUSKEGEE UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	146
	ULTRASYSIEMS INCORPORATED	Texas	USAF	RDTE/Physical Sciences - Basic Research	77
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Basic Research	710
		Florida	USAF	RDTE/Physical Sciences - Basic Research	48
	CONTRACTOR TOTAL				758
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	7,642
	UNIVERSITIES SPACE RES ASSN	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	582
	UNIVERSITY OF AKRON	Ohio	USAF	RDTE/Physical Sciences - Basic Research	40
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Basic Research	105
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Basic Research	2,845

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AJ11 (CONTINUED)

UNIVERSITY OF ARKANSAS	Arkansas	USAF	RDTE/Physical Sciences - Basic Research	\$	60
UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research		129 4,435
	COUNTRY TOTAL				4,564
UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Physical Sciences - Basic Research		192
UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Physical Sciences - Basic Research		547
UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Physical Sciences - Basic Research		30
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Physical Sciences - Basic Research		78
UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Physical Sciences - Basic Research		247
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Physical Sciences - Basic Research		672
UNIVERSITY OF HOUSTON SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research		27
UNIVERSITY OF ILLINOIS	Illinois	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research		81 1,327
	COUNTRY TOTAL				1,408
UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Basic Research		545
UNIVERSITY OF MARYLAND	D.C.	NAVY	RDTE/Physical Sciences - Basic Research		108
	Maryland	NAVY	RDTE/Physical Sciences - Basic Research		40
					148
CONTRACTOR TOTAL					653
UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Basic Research		56
UNIVERSITY OF MINNESOTA	Minnesota	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research		483
	COUNTRY TOTAL				539
UNIVERSITY OF NEBRASKA	Nebraska	USAF	RDTE/Physical Sciences - Basic Research		173
UNIVERSITY OF NEVADA SYSTEM	Nevada	USAF	RDTE/Physical Sciences - Basic Research		128

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AJ11 (CONTINUED)				
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	\$ 900
UNIVERSITY OF NORTH CAROLINA	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	478
UNIVERSITY OF OREGON	Oregon	USAF	RDTE/Physical Sciences - Basic Research	116
UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Basic Research	584
UNIVERSITY OF ROCHESTER	New York	USAF	RDTE/Physical Sciences - Basic Research	818
UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Basic Research	3,202
UNIVERSITY OF SOUTHERN MISSISS	Miss	USAF	RDTE/Physical Sciences - Basic Research	96
UNIVERSITY OF TENNESSEE	Tennessee	USAF	RDTE/Physical Sciences - Basic Research	125
UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research	905
UNIVERSITY OF UTAH	Utah	USAF	RDTE/Physical Sciences - Basic Research	85
UNIVERSITY OF VIRGINIA	Virginia	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	42 110
COUNTRY TOTAL				152
UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Physical Sciences - Basic Research	164
UNIVERSITY OF WEST FLORIDA	Florida	NAVY	RDTE/Physical Sciences - Basic Research	53
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	41 158
COUNTRY TOTAL				199
UNIVERSITY RES FOUNDATION	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	738
UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Basic Research	337
VANDERBILT UNIVERSITY THE	Tennessee	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	197 637
COUNTRY TOTAL				834
VIRGINIA PLTYCHNIC INST/ST UNI	Virginia	ARMY	RDTE/Physical Sciences - Basic Research	40

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AJ11 (CONTINUED)					
			USAF	RDTE/Physical Sciences - Basic Research	\$ 592
		COUNTRY TOTAL			632
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,829
	W E A	Mass	USAF	RDTE/Physical Sciences - Basic Research	58
	WAGNER DANIEL H ASSOCIATES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	44
	WALLACE T H INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	131
		Virginia	USAF	RDTE/Physical Sciences - Basic Research	350
					481
	CONTRACTOR TOTAL				50
	WESSON INTERNATIONAL	Texas	USAF	RDTE/Physical Sciences - Basic Research	930
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	82
	WOODWARD CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Basic Research	46
	XEROX CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	113
	YALE UNIVERSITY	Conn	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	155
		COUNTRY TOTAL			268
	YORK UNIVERSITY	CANADA	USAF	RDTE/Physical Sciences - Basic Research	305
	R&D TOTAL				100,135
AJ12	AEROCHEM RESEARCH LABORATORIES	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	53
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	AEROMETRICS INC	California	ARMY	RDTE/Physical Sciences - Exploratory Devel	176
	ALLOY SURFACES CO	Delaware	NAVY	RDTE/Physical Sciences - Exploratory Devel	43
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	345
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	349
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	721

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	359
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	144
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	554
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	596
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	348
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Exploratory Devel	224
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Physical Sciences - Exploratory Devel	340
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	CERAMATEC INC	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	401
	COGNITIVE SYSTEMS INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	1,734
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	761
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	45
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	DEXTER CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	90
	E G & G RETICON	California	USAF	RDTE/Physical Sciences - Exploratory Devel	63
	EASTMAN KODAK COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	109
	EATON CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	70
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Physical Sciences - Exploratory Devel	206
	GALAXY MICROSYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	431
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	367
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	203
	HAZELTINE CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	383
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	318

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AJ12 (CONTINUED)

IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel	\$	40
INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel		35
MAN LABS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		194
MASSACHSETTS TECHNOLOGICAL LAB	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		407
MASSACHSTTS INST OF TCHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		124
MASSACHUSETTS UNIVERSITY OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		111
MAXWELL LABORATORIES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel		112
MILLIMETER WAVE TECHNOLOGY	Georgia	ARMY	RDTE/Physical Sciences - Exploratory Devel		127
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel		200
	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel		673
CONTRACTOR TOTAL					873
NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Exploratory Devel		36
OHIO STATE UNIVERSITY	Ohio	NAVY USAF	RDTE/Physical Sciences - Exploratory Devel RDTE/Physical Sciences - Exploratory Devel		40 200
	COUNTRY TOTAL				240
PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		35
PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		80
PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		130
R D P INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		291
RADEX INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		481
RAMOT UNIVERSITY	ISRAEL	USAF	RDTE/Physical Sciences - Exploratory Devel		37
RAYTHEON COMPANY	Rhode Islnd	USAF	RDTE/Physical Sciences - Exploratory Devel		59
REGIS COLLEGE	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		479

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)	RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	RESEARCH SUPPORT INSTRUMENTS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	55
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	150
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	ROYAL NORWEGION COUNCIL	NORWAY	USAF	RDTE/Physical Sciences - Exploratory Devel	359
	RUHR UNIVERSITAT	GERMANY, F	USAF	RDTE/Physical Sciences - Exploratory Devel	105
	S S G INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	125
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Physical Sciences - Exploratory Devel	423
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	89
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	303
	SOUTHEASTN CTR ELECTR ENG ED	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	230
	SOUTHWEST SCIENCES INC	New Mexico	ARMY	RDTE/Physical Sciences - Exploratory Devel	159
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	77
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	247
	STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Physical Sciences - Exploratory Devel	160
	SYMETRIX CORPORATION	Colorado	NAVY	RDTE/Physical Sciences - Exploratory Devel	474
	TRW INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	197
	ULTRAMET	California	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	276
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Exploratory Devel	107
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel	434
	UNIVERSITY OF KENT	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel	69
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	127

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	UNIVERSITY OF MARYLAND	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	382
	UNIVERSITY OF NORTH CAROLINA	N Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	409
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	255
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Exploratory Devel	248
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	135
	UNIVERSITY OF VERMONT	Vermont	USAF	RDTE/Physical Sciences - Exploratory Devel	43
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Exploratory Devel	42
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	14,488
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	136
	WEIDLINGER ASSOCIATES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	48
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	389
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	109
	CONTRACTOR TOTAL				498
	YAP ANALYTICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	R&D TOTAL				35,026
AJ13	ADVANCED MATERIALS CORP	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	226
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	70
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	544
	ANTRO-PIX CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	60
	ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences - Advanced Developm	201
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	716
	BALL CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	199
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	69

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Advanced Developm	94
	BRIMROSE CORP OF AMERICA	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	75
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Physical Sciences - Advanced Developm	339
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	679
	CHRONOS RESEARCH LABORATORIES	California	USAF	RDTE/Physical Sciences - Advanced Developm	223
	CIM SYSTEMS INC	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	44
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	240
	CORNING INC	New York	NAVY	RDTE/Physical Sciences - Advanced Developm	145
	CRAMER H E COMPANY INC	Utah	ARMY	RDTE/Physical Sciences - Advanced Developm	105
	CULHAM LABORATORY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	1,380
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	196
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Physical Sciences - Advanced Developm	2,697
	ELISRA ELECTRONIC SYSTEMS LTD	ISRAEL	USAF	RDTE/Physical Sciences - Advanced Developm	1,000
	ENGINEERING SCIENCE TECH	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	70
	G E C AVIONICS LTD	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	550
	GELTECH INC	Florida	USAF	RDTE/Physical Sciences - Advanced Developm	405
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Advanced Developm	165
	GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	198
	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE/Physical Sciences - Advanced Developm	108
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Advanced Developm	217
	HYPRES INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	103
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Physical Sciences - Advanced Developm	898
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	81

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AJ13 (CONTINUED)	LOCKHEED CORPORATION	Georgia	USAF	RDTE/Physical Sciences - Advanced Developm	\$	30-
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Physical Sciences - Advanced Developm		45
	MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		642
	MASSACHUSETTS UNIVERSITY OF	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		258
	MC DONNELL DOUGLAS CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm		860
	METRICA INC	Texas	USAF	RDTE/Physical Sciences - Advanced Developm		1,374
	MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Physical Sciences - Advanced Developm		185
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm		802
	NATIONAL CENTRE TRIBOLOGY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm		150
	NORTH STAR RESEARCH INC	New Mexico	USAF	RDTE/Physical Sciences - Advanced Developm		31
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		1,345
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Physical Sciences - Advanced Developm		673
	OPTIVISION INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		56
	OWENS-CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Physical Sciences - Advanced Developm		860
	PEMCO AEROPLEX INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		1,138
	RMS TECHNOLOGIES INCORPORATED	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		323
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm		108
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm		377
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm		50
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm		600
	SPACE POWER INCORPORATED	California	USAF	RDTE/Physical Sciences - Advanced Developm		112
	SPACE TECH CORP	Colorado	USAF	RDTE/Physical Sciences - Advanced Developm		35
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Advanced Developm		130

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Physical Sciences - Advanced Developm	330
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Advanced Developm	314
	SYSTEMS ENGINEERING INC	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	63
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,073
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	65
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Advanced Developm	549
		Texas	USAF	RDTE/Physical Sciences - Advanced Developm	79
	CONTRACTOR TOTAL				628
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	255
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Advanced Developm	412
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Advanced Developm	53
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Advanced Developm	303
	VANDERBILT UNIVERSITY THE	Tennessee	USAF	RDTE/Physical Sciences - Advanced Developm	277
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	100
	VIRGINIA PLYTECHNIC INST/ST UNI	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	100
	WAYNE STATE UNIVERSITY	Michigan	USAF	RDTE/Physical Sciences - Advanced Developm	85
	WENTWORTH INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,927
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	171
		Penn	USAF	RDTE/Physical Sciences - Advanced Developm	54
	CONTRACTOR TOTAL				225
	R&D TOTAL				28,431
AJ14	ANALYTIC SERVICES INC	Virginia	USAF	RDTE/Physical Sciences - Engineering Devel	25,264
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Engineering Devel	717

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AJ14 (CONTINUED)					
	LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Physical Sciences - Engineering Devel	\$ 760
	SACHS FREEMAN ASSOCIATES INC	Maryland	NAVY	RDTE/Physical Sciences - Engineering Devel	110
	R&D TOTAL				26,851
AJ15	GALILEO ELECTRO-OPTICS CORP	Mass	NAVY	RDTE/Physical Sciences - Operational Syste	102-
	LITTON INDUSTRIES INC	Mass	USAF	RDTE/Physical Sciences - Operational Syste	600
	SCHAFFER W J ASSOCIATES INC	Virginia	NAVY	RDTE/Physical Sciences - Operational Syste	1,877
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Operational Syste	49
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Operational Syste	316
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Operational Syste	207
	R&D TOTAL				2,947
AJ16	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	222
	COMPUTER AIDED PLNNNG SCHDLNG	Georgia	USAF	RDTE/Physical Sciences - Management & Supp	50
	CRYSTALLUME	California	USAF	RDTE/Physical Sciences - Management & Supp	249
	DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	1,033
	FOSTER MILLER INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	494
	GELTECH INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	398
	HIGH TECHNOLOGY CORPORATION	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	48
	I S I GROUP INC	New Mexico	USAF	RDTE/Physical Sciences - Management & Supp	375
	INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Management & Supp	232
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Management & Supp	150
	MASSACHUSETTS UNIVERSITY OF	Mass	USAF	RDTE/Physical Sciences - Management & Supp	52
	MAXDEM INC	California	USAF	RDTE/Physical Sciences - Management & Supp	50
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Management & Supp	150

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AJ16 (CONTINUED)					
	P K CORPORATION	Conn	USAF	RDTE/Physical Sciences - Management & Supp	61
	POTOMAC PHOTONICS INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	255
	RAND CORPORATION	California	USAF	RDTE/Physical Sciences - Management & Supp	24,874
	SAM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	521
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	49
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	57
	TOPICAL TESTING, INC	Utah	USAF	RDTE/Physical Sciences - Management & Supp	50
	TS INFOSYSTEMS INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	208
	R&D TOTAL				29,578
AJ21	DEFENSE SYSTEMS INC	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	50
	KOREA IND & DEV CORP	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	40
	SEQUOIA ASSOCIATES INC	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	26
	R&D TOTAL				116
AJ22	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Math & Computer Sciences - Explor Dev	653
AJ25	DECISION SCIENCES INC	Texas	ARMY	RDTE/Math & Computer Sciences - Cp Systems	35
AJ41	A A I CORPORATION	Maryland	USAF	RDTE/Engineering Sciences - Basic Research	55
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Engineering Sciences - Basic Research	49
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Engineering Sciences - Basic Research	50
	R&D TOTAL				154
AJ43	ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Engineering Sciences - Advanced Devel	154
	IBH AUTOMATION INC	Illinois	NAVY	RDTE/Engineering Sciences - Advanced Devel	48
	TANNER RESEARCH INC	California	ARMY	RDTE/Engineering Sciences - Advanced Devel	499
	R&D TOTAL				701

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AJ61	ELECTROCHIMICA CORPORATION	California	NAVY	RDTE/Psychological Sciences - Basic Resear	\$ 100
	PULSE SCIENCES INC	California	NAVY	RDTE/Psychological Sciences - Basic Resear	28-
	S TRON	California	NAVY	RDTE/Psychological Sciences - Basic Resear	56
	TECHNOCHEM CO	N Carolina	NAVY	RDTE/Psychological Sciences - Basic Resear	50
	R&D TOTAL				178
AJ71	METRICA INC	Texas	USAF	RDTE/Social Sciences - Basic Research	950
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Social Sciences - Basic Research	724
		Texas	USAF	RDTE/Social Sciences - Basic Research	86
	CONTRACTOR TOTAL				810
	R&D TOTAL				1,760
AT74	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Social Sciences - Engineering Develop	300
AJ92	INRAD INC	New Jersey	NAVY	RDTE/Other Sciences - Exploratory Developm	63
	SCHAFFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Sciences - Exploratory Developm	48
	R&D TOTAL				111
AK11	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Housing - Basic Research	1,285
AM15	SOFTECH INC	California	NAVY	RDTE/Int'l Affairs & Cooperation-Op System	600
AN11	JACKSON HENRY M	Maryland	ARMY	RDTE/Biomedical - Basic Research	1,498
	S R A TECHNOLOGIES INC	Maryland	ARMY	RDTE/Biomedical - Basic Research	27
		Virginia	ARMY	RDTE/Biomedical - Basic Research	1,328
	CONTRACTOR TOTAL				1,355
	R&D TOTAL				2,853
AN12	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE/Biomedical - Exploratory Development	228
	SNPE	D.C.	NAVY	RDTE/Biomedical - Exploratory Development	43
	R&D TOTAL				271
AN15	ASSOCIATE CONSULTANTS INC	D.C.	ARMY	RDTE/Biomedical - Operational Systems Deve	961

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AN16 INTERNATIONAL INFO SYSTEMS	Virginia	USAF	RDTE/Biomedical - Management & Support	\$ 59
MERIDIAN CORPORATION	Virginia	USAF	RDTE/Biomedical - Management & Support	50
ODETICS INC	California	USAF	RDTE/Biomedical - Management & Support	55
R&D TOTAL				164
AN45 SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Health Services - Operational Systems	461
AN46 FOUNDATION HEALTH CORPORATION	California	ARMY	RDTE/Health Services - Management & Support	639,309
AN71 BEENA PURI	D.C.	ARMY	RDTE/Specialized Services - Basic Research	39
AN72 UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Specialized Services - Exploratory De	35
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Specialized Services - Exploratory De	70
R&D TOTAL				105
AN75 SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Specialized Services - Operational Sy	94
AN76 NATIONAL EMERGENCY SERVICE	Nevada	USAF	RDTE/Specialized Services - Management & S	429
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Specialized Services - Management & S	45
R&D TOTAL				474
AN91 AMERICAN CYANAMID COMPANY	New York	ARMY	RDTE/Other Medical - Basic Research	258-
AMERICAN REGISTRY OF PATHOLOGY	D.C.	ARMY	RDTE/Other Medical - Basic Research	109-
ATMOSPHERIC HEALTH SCIENCES	New Jersey	ARMY	RDTE/Other Medical - Basic Research	27-
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Medical - Basic Research	681-
BAYLOR UNIVERSITY	Texas	ARMY	RDTE/Other Medical - Basic Research	163
BETHESDA RESEARCH LABS	Maryland	ARMY	RDTE/Other Medical - Basic Research	46
BIOSTAR MEDICAL PRODUCTS INC	Colorado	ARMY	RDTE/Other Medical - Basic Research	50
BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Basic Research	133
CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Medical - Basic Research	50
CHI SYSTEMS INC	Michigan	ARMY	RDTE/Other Medical - Basic Research	74

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)					
	COLORADO STATE UNIVERSITY	Colorado	ARMY	RDTE/Other Medical - Basic Research	48
	CORVAS INC	California	ARMY	RDTE/Other Medical - Basic Research	50
	ELECTROMAGNETIC TECHNOLOGY	Virginia	ARMY	RDTE/Other Medical - Basic Research	1,092
	ELECTROSYN CORP	New York	ARMY	RDTE/Other Medical - Basic Research	50
	ENERGY OPTICS INC	New Mexico	ARMY	RDTE/Other Medical - Basic Research	179
	ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Medical - Basic Research	50
	GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Basic Research	326
	GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Medical - Basic Research	49
	HAHNEMANN UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Basic Research	132
	HAWAII BIOTECHNOLOGY GP INC	Hawaii	ARMY	RDTE/Other Medical - Basic Research	546
	HEBREW UNIVERSITY OF JERUSALEM	ISRAEL	ARMY	RDTE/Other Medical - Basic Research	218
	HERNER & COMPANY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	800
	HOLOMETRIX INC	Mass	ARMY	RDTE/Other Medical - Basic Research	50
	IMATRON INC	California	ARMY	RDTE/Other Medical - Basic Research	50
	INDIANA UNIVERSITY FOUNDATION	Indiana	ARMY	RDTE/Other Medical - Basic Research	38
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Basic Research	53
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Basic Research	51
	KEA INDUSTRIES	Ohio	ARMY	RDTE/Other Medical - Basic Research	49
	MARROW TECH INCORPORATED	New York	ARMY	RDTE/Other Medical - Basic Research	50
	MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Medical - Basic Research	629
	MEDICAL COLLEGE OF GEORGIA	Georgia	ARMY	RDTE/Other Medical - Basic Research	116
	MOLECULAR TOXICOLOGY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	50
	MOLECULAR VACCINES INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)	MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Other Medical - Basic Research	164
	N AMERICAN SCIENCE ASSOCIATES	Ohio	ARMY	RDTE/Other Medical - Basic Research	49
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Medical - Basic Research	26-
	NEW JERSEY INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Other Medical - Basic Research	34-
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Medical - Basic Research	114
	NOBLESTAN SYSTEMS CORP	Virginia	NAVY	RDTE/Other Medical - Basic Research	52
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Basic Research	92
	NORTH TEXAS STATE UNIVERSITY	Texas	ARMY	RDTE/Other Medical - Basic Research	157
	NORTHEAST RESEARCH INSTITUTE	Conn	ARMY	RDTE/Other Medical - Basic Research	50
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Basic Research	149
	PARKE DAVIS WARNER LAMBERT CO	Michigan	ARMY	RDTE/Other Medical - Basic Research	29
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Basic Research	279
	PHARMATEC INC	Florida	ARMY	RDTE/Other Medical - Basic Research	244
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Basic Research	30
	RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research	50
	RECTOR & VISITORS UNIV OF VA	Virginia	ARMY	RDTE/Other Medical - Basic Research	129
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Basic Research	85
	SALK INST FOR BLGICAL STUDIES	California	ARMY	RDTE/Other Medical - Basic Research	50
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Medical - Basic Research	1,574
	SCOTGEN LTE	UNITED KIN	ARMY	RDTE/Other Medical - Basic Research	78
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Basic Research	59
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Basic Research	98
	SOUTHWEST FNDTN	Texas	ARMY	RDTE/Other Medical - Basic Research	627

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AN91 (CONTINUED)						
	STANDARD SCIENTIFICS INC	Mass	ARMY	RDTE/Other Medical - Basic Research		49
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Basic Research		181
	STERIODS LTD	Illinois	ARMY	RDTE/Other Medical - Basic Research		16
	TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Other Medical - Basic Research		6
	TEXAS A & M UNIV SYS THE	Texas	ARMY	RDTE/Other Medical - Basic Research		217-
	UNIVAX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research		44
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Basic Research		300
	UNIVERSAL SENSORS INC	Louisiana	ARMY	RDTE/Other Medical - Basic Research		50
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Basic Research		311
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Basic Research		1,369
	UNIVERSITY OF CHICAGO THE	Illinois	ARMY	RDTE/Other Medical - Basic Research		162
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Basic Research		25
	UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Medical - Basic Research		72-
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Basic Research		163
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Basic Research		43
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Basic Research		436
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical - Basic Research		134
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Basic Research		342
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Basic Research		50
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Medical - Basic Research		196
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Medical - Basic Research		74
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Medical - Basic Research		96
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Basic Research		33

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AN91 (CONTINUED)

UNIVERSITY OF THE PACIFIC	California	ARMY	RDTE/Other Medical	- Basic Research	\$ 41-
UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical	- Basic Research	62
UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical	- Basic Research	168
UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical	- Basic Research	84
VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical	- Basic Research	478
WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Medical	- Basic Research	169
WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Medical	- Basic Research	135
R&D TOTAL					13,112

AN92 AMERICAN INST BIOLOGCL SCIENCE

CONTRACTOR TOTAL

AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Medical	- Exploratory Developme	201
BATTILLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Medical	- Exploratory Developme	131
					332
					162
					200
					61
					261
					243
					98
					283
					800-
					120
					40
					181
					1,186

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AN92 (CONTINUED)

EYE RESEARCH INST RETINA FNDTN	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	\$ 49
G M S ENGINEERING CORPORATION	Maryland	ARMY	RDTE/Other Medical	- Exploratory Developme	170
GAMBLE JAMES N INST MED RES	Ohio	ARMY	RDTE/Other Medical	- Exploratory Developme	114
GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Medical	- Exploratory Developme	90
GORGAS MEMORIAL INSTITUTE	Maryland	ARMY	RDTE/Other Medical	- Exploratory Developme	231
GULF COAST RESEARCH LABORATORY	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	175
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	164
HAWAII BIOTECHNOLOGY GP INC	Hawaii	ARMY	RDTE/Other Medical	- Exploratory Developme	249
HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical	- Exploratory Developme	430
I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Medical	- Exploratory Developme	37
IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Other Medical	- Exploratory Developme	161
JAYCOR	California	ARMY	RDTE/Other Medical	- Exploratory Developme	207
JEFFERSON THOMAS UNIVERSITY	Penn	ARMY	RDTE/Other Medical	- Exploratory Developme	1,002
JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical	- Exploratory Developme	518
LONDON SCHOOL OF HYGIENE	UNITED KIN	ARMY	RDTE/Other Medical	- Exploratory Developme	108
LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Medical	- Exploratory Developme	286
MARSHALL UNIVERSITY	W Virginia	ARMY	RDTE/Other Medical	- Exploratory Developme	28
MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	147
MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	537
MEDICAL COLLEGE OF PA	Penn	ARMY	RDTE/Other Medical	- Exploratory Developme	172
MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Medical	- Exploratory Developme	29-
MOBILITY SYSTEMS & EQP CO	California	ARMY	RDTE/Other Medical	- Exploratory Developme	25
NATURAL ENVIRONMTL RSCH COUNCI	UNITED KIN	ARMY	RDTE/Other Medical	- Exploratory Developme	184

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AN92 (CONTINUED)					
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Medical - Exploratory Developme	74
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	179
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	18
	OHIO WESLEYAN UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	95
	OREGON HEALTH SCIENCES UNIV	Oregon	ARMY	RDTE/Other Medical - Exploratory Developme	114
	PENNSYLVANIA STATE UNIV THE	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	80
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Exploratory Developme	78
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	162
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	197
	SALK INST FOR BLGICAL STUDIES	California	ARMY	RDTE/Other Medical - Exploratory Developme	113
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Exploratory Developme	452
	SLOAN KETTERING	New York	ARMY	RDTE/Other Medical - Exploratory Developme	177
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	220
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	781
	SPELMAN COLLEGE	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme	90
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Exploratory Developme	438
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Exploratory Developme	543
	SYNTRO CORP	California	ARMY	RDTE/Other Medical - Exploratory Developme	249
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	133
	THERMEDICS INC	Mass	ARMY	RDTE/Other Medical - Exploratory Developme	340
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	180
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	61
	UNIVERSITY OF ALBERTA	CANADA	ARMY	RDTE/Other Medical - Exploratory Developme	31

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	\$
AN92 (CONTINUED)	UNIVERSITY OF BIRMINGHAM	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	33
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Exploratory Developme	487
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	223
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Exploratory Developme	258
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Medical - Exploratory Developme	360
	UNIVERSITY OF GEORGIA	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme	275
	UNIVERSITY OF HAWAII	Hawaii	ARMY	RDTE/Other Medical - Exploratory Developme	222
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	189
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Exploratory Developme	237
	UNIVERSITY OF KENTUCKY	Kentucky	ARMY	RDTE/Other Medical - Exploratory Developme	87
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	154
	UNIVERSITY OF MEDICINE	New Jersey	ARMY	RDTE/Other Medical - Exploratory Developme	864
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical - Exploratory Developme	747
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Exploratory Developme	42
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Exploratory Developme	434
	UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Other Medical - Exploratory Developme	205
	UNIVERSITY OF NEBRASKA	Nebraska	ARMY	RDTE/Other Medical - Exploratory Developme	72
	UNIVERSITY OF NORTH CAROLINA	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	232
	UNIVERSITY OF SAN FRANCISCO	California	ARMY	RDTE/Other Medical - Exploratory Developme	118
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	56-
	UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Medical - Exploratory Developme	106
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Exploratory Developme	35
	UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Medical - Exploratory Developme	121

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AN92 (CONTINUED)					
	UNIVERSITY OF VERMONT	Vermont	ARMY	RDTE/Other Medical - Exploratory Developme	\$ 55
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	66
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Exploratory Developme	103
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Exploratory Developme	154
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	476
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	75
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Exploratory Developme	432
	WRIGHT STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	200
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical - Exploratory Developme	155
	R&D TOTAL				19,127
AN93					
	AMERICAN OPTICAL CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	142
	ASH STEVENS INC	Michigan	ARMY	RDTE/Other Medical - Advanced Development	295
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Medical - Advanced Development RDTE/Other Medical - Advanced Development	7,530 75
	COUNTRY TOTAL				7,605
	BIO RSCH FACUL & FACIL INC SBA	Maryland	ARMY	RDTE/Other Medical - Advanced Development	500
	BIONETICS RESEARCH INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	309
	BROWN JOHN ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Medical - Advanced Development	359
	CASTLE CO INC	New York	ARMY	RDTE/Other Medical - Advanced Development	1,745
	COLORADO STATE UNIVERSITY	Colorado	ARMY	RDTE/Other Medical - Advanced Development	56
	COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Medical - Advanced Development	192
	DIAGNOSTIC SPECIALTIES INC	New Jersey	ARMY	RDTE/Other Medical - Advanced Development	283
	EAGLE PICHER INDUSTRIES INC	Kansas	ARMY	RDTE/Other Medical - Advanced Development	227

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AN93 (CONTINUED)					
	ENGINEERING & ECONOMICS RES	Maryland	ARMY	RDTE/Other Medical - Advanced Development	\$ 101
	CONTRACTOR TOTAL	Virginia	ARMY	RDTE/Other Medical - Advanced Development	198
	EVAPORATED COATINGS INC	Penn	ARMY	RDTE/Other Medical - Advanced Development	299
	FLOW LABORATORIES INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	132
	GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Advanced Development	12
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	83
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Advanced Development	876
	HAZLETON LABORATORIES AMERICA	Virginia	ARMY	RDTE/Other Medical - Advanced Development	231
	IMATRON INC	California	ARMY	RDTE/Other Medical - Advanced Development	300
	JAYCOR	Ohio	USAF	RDTE/Other Medical - Advanced Development	877
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development	57
	KONIGSBERG INSTRUMENTS INC	California	ARMY	RDTE/Other Medical - Advanced Development	235
	M/A-COM INC	Mass	ARMY	RDTE/Other Medical - Advanced Development	45
	MEDICAL COLLEGE OF GEORGIA	Georgia	ARMY	RDTE/Other Medical - Advanced Development	249
	MEPECC INTERNATIONAL INC	Georgia	ARMY	RDTE/Other Medical - Advanced Development	149
	METTERS INDUSTRIES INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	314
	MITRE CORPORATION	Virginia	ARMY	RDTE/Other Medical - Advanced Development	364
	N E D H CORP	Mass	ARMY	RDTE/Other Medical - Advanced Development	3,072
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Medical - Advanced Development	731
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Medical - Advanced Development	27-
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	468
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Advanced Development	119
					158

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
	PORTON INTERNATIONAL INC	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development	934
	PUBLIC HEALTH RESEARCH	New York	ARMY	RDTE/Other Medical - Advanced Development	215
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Advanced Development	249
	QUEST RESEARCH CORPORATION	Ohio	USAF	RDTE/Other Medical - Advanced Development	90
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	1,167
	ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical - Advanced Development	49
	SALK INST FOR BLGICAL STUDIES	Penn	ARMY	RDTE/Other Medical - Advanced Development	6,058
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Medical - Advanced Development	256
	SHERIKON INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	500
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Advanced Development	2,247
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Advanced Development	687
	STARKS ASSOCIATES INC	New York	ARMY	RDTE/Other Medical - Advanced Development	143
	STERIMATICS CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	5,688
	SURVIVAL TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	45-
	SYNTRO CORP	California	ARMY	RDTE/Other Medical - Advanced Development	249
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Advanced Development	291
	TECHNASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	726
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	805
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Advanced Development	26
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Advanced Development	61
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Medical - Advanced Development	589
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Advanced Development	150
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Advanced Development	262

AN93 (CONTINUED)

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AN93 (CONTINUED)					
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Advanced Development	124
	UNIVERSITY OF RHODE ISLAND	Rhode Islnd	ARMY	RDTE/Other Medical - Advanced Development	58
	UNIVERSITY OF SOUTH FLORIDA	Florida	ARMY	RDTE/Other Medical - Advanced Development	44
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Advanced Development	96
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Advanced Development	132
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Advanced Development	313
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Medical - Advanced Development	682
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical - Advanced Development	415
	R&D TOTAL				43,718
AN94	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Other Medical - Engineering Developme	124
	DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical - Engineering Developme	704
	I L C INDUSTRIES DELAWARE	Delaware	USAF	RDTE/Other Medical - Engineering Developme	171
	PICKER INTERNATIONAL INC	Ohio	ARMY	RDTE/Other Medical - Engineering Developme	199-
	ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical - Engineering Developme	4,725
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Engineering Developme	29
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Engineering Developme	111
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Engineering Developme	682
	CONTRACTOR TOTAL	CHILE	ARMY	RDTE/Other Medical - Engineering Developme	245
	R&D TOTAL				927
					6,592
AN95	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Medical - Operational Systems D	650
	KONIGSBERG INSTRUMENTS INC	California	ARMY	RDTE/Other Medical - Operational Systems D	392
	MICHIGAN DEPT PUBLIC HEALTH	Michigan	ARMY	RDTE/Other Medical - Operational Systems D	3,316

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R&D TOTAL					
AP22	MAXWELL LABORATORIES INC	California	USAF	RDTE/Natural Resources - Land - Explor Dev	4,358
	WALLACE T H INC	Florida	USAF	RDTE/Natural Resources - Land - Explor Dev	410
	WOODWARD CLYDE CONSULTANTS	California	USAF	RDTE/Natural Resources - Land - Explor Dev	389
R&D TOTAL					
AP26	ANAMET LABORATORIES INC	California	USAF	RDTE/Natural Resources - Land - Mgmt & Sup	177
	GEOTECHNICS INC	Ohio	USAF	RDTE/Natural Resources - Land - Mgmt & Sup	976
R&D TOTAL					
AP53	SCIENCE APPLICATIONS INTL CORP	Hawaii	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	133
AR11	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Aeronautics - Basic Research	90
	DAVID GARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	223
	FORD AEROSPACE COMMCTIONS CORP	California	USAF	RDTE/Space - Aeronautics - Basic Research	795
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Basic Research	26,718
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	397
	GENERAL INDICATOR CORPORATION	Virginia	NAVY	RDTE/Space - Aeronautics - Basic Research	1,605
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Space - Aeronautics - Basic Research	27,395
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,213
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Aeronautics - Basic Research	285
	PHOTO METRIC INC	Mass	USAF	RDTE/Space - Aeronautics - Basic Research	2,200
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,603
	RESEARCH TRIANGLE INSTITUTE	Florida	USAF	RDTE/Space - Aeronautics - Basic Research	27,472
R&D TOTAL					
AR12	A T & T TECHNOLOGIES INC	N Carolina	USAF	RDTE/Space - Aeronautics - Exploratory Dev	137
	EATON CORPORATION	Mass	USAF	RDTE/Space - Aeronautics - Exploratory Dev	1,549
R&D TOTAL					
					175
					90,749
					100
					30

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AR12 (CONTINUED)					
	HARRIS CORPORATION	Florida	USAF	RDTE/Space - Aeronautics - Exploratory Dev	200
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Space - Aeronautics - Exploratory Dev	53
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Space - Aeronautics - Exploratory Dev	113
	SPIRE CORPORATION	Mass	USAF	RDTE/Space - Aeronautics - Exploratory Dev	574
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Space - Aeronautics - Exploratory Dev	26
	R&D TOTAL				1,096
AR13	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Space - Aeronautics - Advanced Develo	3,735
	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Space - Aeronautics - Advanced Develo	550
	HONEYWELL INC	Penn	USAF	RDTE/Space - Aeronautics - Advanced Develo	147
	R&D TOTAL				4,432
AR14	SOLAREX CORP	Maryland	NAVY	RDTE/Space - Aeronautics - Engineering Dev	52-
AR16	AMERICAN ADVANCED TECH INC	Texas	USAF	RDTE/Space - Aeronautics - Management & Su	50
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Space - Aeronautics - Management & Su	103
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Space - Aeronautics - Management & Su	117
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Aeronautics - Management & Su	49
	R&D TOTAL				319
AR21	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Space-Science Applications-Basic Rese	423
	COMPUTATIONAL PHYSICS INC	Virginia	NAVY	RDTE/Space-Science Applications-Basic Rese	319
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Space-Science Applications-Basic Rese	107
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Space-Science Applications-Basic Rese	405
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Science Applications-Basic Rese	200
	SACHS FREEMAN ASSOCIATES INC	Maryland	NAVY	RDTE/Space-Science Applications-Basic Rese	197
	R&D TOTAL				1,651

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AR22	ANALYTIX ELECTRONIC SYSTEMS	N.H.	USAF	RDTE/Space-Science Applications-Explor Dev	48
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Space-Science Applications-Explor Dev	229
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Explor Dev	90
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space-Science Applications-Explor Dev	297
	STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Space-Science Applications-Explor Dev	100
	R&D TOTAL				764
AR23	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Space-Science Applications-Advanced D	105,350
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Advanced D	110,747
	R&D TOTAL				216,097
AR24	ADVANCED TECHNOLOGY INC	California	USAF	RDTE/Space-Science Applications-Engineerin	534
	COLSA INC	Texas	ARMY	RDTE/Space-Science Applications-Engineerin	332
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space-Science Applications-Engineerin	95
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Space-Science Applications-Engineerin	1,079
	R&D TOTAL				2,040
AR25	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Space-Science Applications-Op Systems	1,150
	AEROSPACE CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	301,430
	BOEING COMPANY THE	Washington	USAF	RDTE/Space-Science Applications-Op Systems	987
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	973
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space-Science Applications-Op Systems	6,337
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Space-Science Applications-Op Systems	9,050
	CONTRACTOR TOTAL	Colorado	USAF	RDTE/Space-Science Applications-Op Systems	1,623
		Colorado	USAF	RDTE/Space-Science Applications-Op Systems	10,673
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space-Science Applications-Op Systems	1,003-
	TRW INC	California	USAF	RDTE/Space-Science Applications-Op Systems	21,776
	R&D TOTAL				342,323

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AR26	FOSTER MILLER INC	Mass	USAF	RDTE/Space-Science Applications-Mgmt & Sup	223
AR33	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Space-Transportation Systems-Advanced	688
	DYNETICS INC	Alabama	USAF	RDTE/Space-Transportation Systems-Advanced	199
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Transportation Systems-Advanced	186
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space-Transportation Systems-Advanced	1,429
	R&D TOTAL				2,502
AR34	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Transportation Systems-Engr Dev	105,037
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Space-Transportation Systems-Engr Dev	45,929
	SYGNETRON PROTECTION SYSTEMS	Florida	USAF	RDTE/Space-Transportation Systems-Engr Dev	2,025
	UNITED TECHNOLOGIES CORP	Penn	USAF	RDTE/Space-Transportation Systems-Engr Dev	222
	R&D TOTAL				153,213
AR35	BALL CORPORATION	Colorado	USAF	RDTE/Space-Transportation Systems-Op Syste	500
	BOEING COMPANY THE	Washington	USAF	RDTE/Space-Transportation Systems-Op Syste	8,100
	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space-Transportation Systems-Op Syste	500
		Texas	USAF	RDTE/Space-Transportation Systems-Op Syste	655
	CONTRACTOR TOTAL				1,155
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Space-Transportation Systems-Op Syste	157-
		Colorado	USAF	RDTE/Space-Transportation Systems-Op Syste	14,396
	CONTRACTOR TOTAL				14,242
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space-Transportation Systems-Op Syste	4,333
	R&D TOTAL				28,330
AR41	MC MAHAN ELECTRO-OPTICS INC	Florida	USAF	RDTE/Space-Tracking & Data Acq-Basic Resea	117
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Tracking & Data Acq-Basic Resea	150
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space-Tracking & Data Acq-Basic Resea	9,662
	R&D TOTAL				9,929

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AR43	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Tracking & Data Acq-Advanced De	\$ 1,280-
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Space-Tracking & Data Acq-Advanced De	276
	R&D TOTAL				1,004-
AR44	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Space-Tracking & Data Acq-Engineering	797
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space-Tracking & Data Acq-Engineering	255-
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space-Tracking & Data Acq-Engineering	2,818
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Space-Tracking & Data Acq-Engineering	275
	R&D TOTAL				3,635
AR45	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Space-Tracking & Data Acq-Op Systems	1,704
	FORD AEROSPACE COMMCTIONS CORP	California	USAF	RDTE/Space-Tracking & Data Acq-Op Systems	4,476
	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space-Tracking & Data Acq-Op Systems	60,070
		Maryland	USAF	RDTE/Space-Tracking & Data Acq-Op Systems	27,302
	CONTRACTOR TOTAL				87,372
	LITTON SYSTEMS INC	California	USAF	RDTE/Space-Tracking & Data Acq-Op Systems	6,724
	R&D TOTAL				100,276
AR46	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space-Tracking & Data Acq-Mgmt & Supp	89
	DYNACORP	New Mexico	ARMY	RDTE/Space-Tracking & Data Acq-Mgmt & Supp	5,288
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Space-Tracking & Data Acq-Mgmt & Supp	189
	R&D TOTAL				5,566
AR61	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Station-Basic Research	12,275
AR63	BRUSH WELLMAN INC	Ohio	USAF	RDTE/Space-Station-Advanced Development	60
	TRW INC	California	USAF	RDTE/Space-Station-Advanced Development	1,361
	R&D TOTAL				1,421
AR91	AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Space - Other - Basic Research	1,347
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Space - Other - Basic Research	3,590

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AR91 (CONTINUED)					
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Space - Other - Basic Research	313
	SOFTWARE TECHNOLOGY INC	Florida	NAVY	RDTE/Space - Other - Basic Research	595
	SOLAR ELECTRIC CO INC	Maryland	ARMY	RDTE/Space - Other - Basic Research	333
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Space - Other - Basic Research	26
	R&D TOTAL				6,204
AR92	HELIX TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Space - Other - Exploratory Developme	140
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Exploratory Developme	36,564
	LOGICON INC	California	USAF	RDTE/Space - Other - Exploratory Developme	2,108
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Space - Other - Exploratory Developme	170
	PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Space - Other - Exploratory Developme	4,445
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	398
	SCHAFFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Space - Other - Exploratory Developme	147
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	10,333
	TRW INC	California	USAF	RDTE/Space - Other - Exploratory Developme	36,424
	R&D TOTAL				90,729
AR93	AVANTEK INC	California	USAF	RDTE/Space - Other - Advanced Development	27
	BRUSH WELLMAN INC	Ohio	USAF	RDTE/Space - Other - Advanced Development	180
	EAGLE PITCHER INDUSTRIES INC	California	USAF	RDTE/Space - Other - Advanced Development	302
	FORD AEROSPACE COMMCTIONS CORP	California	USAF	RDTE/Space - Other - Advanced Development	1,742
	HELIX TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Space - Other - Advanced Development	60
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space - Other - Advanced Development	2,825
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Advanced Development	82,631
	LOGICON INC	California	USAF	RDTE/Space - Other - Advanced Development	611

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AR93 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Advanced Development	37,435
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Space - Other - Advanced Development	717
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Advanced Development	48,912
	SPIRE CORPORATION	Mass	NAVY	RDTE/Space - Other - Advanced Development	851
	R&D TOTAL				176,293
AR94	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Other - Engineering Developme	692
	GENERAL DYNAMICS CORPORATION	Missouri	USAF	RDTE/Space - Other - Engineering Developme	3,246
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space - Other - Engineering Developme	3,000
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Engineering Developme	1,569
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Space - Other - Engineering Developme	17,580
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Engineering Developme	4,791
	TRW INC	California	SAF	RDTE/Space - Other - Engineering Developme	1,007
	R&D TOTAL				31,885
AR95	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Space - Other - Operational Systems D	474
	SOFTWARE ENGRG ASSOCIATES	California	USAF	RDTE/Space - Other - Operational Systems D	687
	SPACE APPLICATIONS CORPORATION	California	USAF	RDTE/Space - Other - Operational Systems D	10,323
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Space - Other - Operational Systems D	83
	R&D TOTAL				11,567
AR96	ADAPTIVE SENSORS INC	California	USAF	RDTE/Space - Other - Management & Support	147
		Texas	USAF	RDTE/Space - Other - Management & Support	48
	CONTRACTOR TOTAL				195
	ADVANCED PROJECTS RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support	50
	AMERICAN COMPOSITE TECHNOLOGY	Mass	USAF	RDTE/Space - Other - Management & Support	51

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AR96 (CONTINUED)					
	APPLIED RESEARCH CORPORATION	Maryland	USAF	RDTE/Space - Other - Management & Support	48
	APPLIED RESEARCH INC	Alabama	USAF	RDTE/Space - Other - Management & Support	44
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Space - Other - Management & Support	50
	B D SYSTEMS INC	California	USAF	RDTE/Space - Other - Management & Support	2,196
	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space - Other - Management & Support	50
	CENTER FOR STRATEGIC STUDY	Texas	USAF	RDTE/Space - Other - Management & Support	50
	CYGNUS ENGINEERING	California	USAF	RDTE/Space - Other - Management & Support	47
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Space - Other - Management & Support	290
	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Space - Other - Management & Support	290
	ELECTROCHEM INC	Mass	USAF	RDTE/Space - Other - Management & Support	50
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Space - Other - Management & Support	51
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	20,460
	GIGABIT LOGIC INC	California	USAF	RDTE/Space - Other - Management & Support	45
	INDEPENDENT RISK ASSESSMENT	California	USAF	RDTE/Space - Other - Management & Support	300
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Space - Other - Management & Support	54
	INTERSPEC INC	Penn	USAF	RDTE/Space - Other - Management & Support	600
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	56
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Space - Other - Management & Support	300
	MARK RESOURCES INC	California	USAF	RDTE/Space - Other - Management & Support	59
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Space - Other - Management & Support	114
	MICROCOSM	California	USAF	RDTE/Space - Other - Management & Support	300
	ORBITAL SYSTEMS	Maryland	USAF	RDTE/Space - Other - Management & Support	50
	R SCAN	Minnesota	USAF	RDTE/Space - Other - Management & Support	49

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AR96 (CONTINUED)					
	SCI SYSTEMS INC	Alabama	USAF	RDTE/Space - Other - Management & Support	34
	SCIENCE & TECHNOLOGY CORP	Virginia	USAF	RDTE/Space - Other - Management & Support	63
	SPARTA INC	California	USAF	RDTE/Space - Other - Management & Support	241
	SPIRE CORPORATION	Mass	USAF	RDTE/Space - Other - Management & Support	50
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Space - Other - Management & Support	449
	SYSTEMS WEST INC	California	USAF	RDTE/Space - Other - Management & Support	55
	TAU CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	49
	TECHNOMICS INC	California	USAF	RDTE/Space - Other - Management & Support	64
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support	318
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Management & Support	97
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Other - Management & Support	290
	TRW INC	California	USAF	RDTE/Space - Other - Management & Support	2,683
	WOVENWIRE CORPORATION	New Mexico	USAF	RDTE/Space - Other - Management & Support	49
	R&D TOTAL				30,291
AS15	ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY	RDTE/Transportation - Air - Op Systems Dev	382
AS23	ANALYTICS INCORPORATED	Penn	NAVY	RDTE/Transportation - Motor Veh - Advanced	34
AS24	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Transportation - Rail - Engineering D	82
AS41	CUYUNA ENGINE COMPANY	Minnesota	NAVY	RDTE/Transportation - Marine - Basic Resea	50
AT13	FOSTER MILLER INC	Mass	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Advanced	1,933
AT14	FOSTER MILLER INC	Mass	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev	85
AT34	ALLIED SIGNAL AEROSPACE CO	New Jersey	ARMY	RDTE/Trans - Navigational Aids - Engr Deve	49
AT95	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Trans - Other - Operational Systems D	1,751
AV32	HONEYWELL INC	Minnesota	NAVY	RDTE/Mining Methods-Subsurface-Exploratory	1,568-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	RDTE/Mining Methods-Subsurface-Exploratory	\$
AV32	(CONTINUED)				
	LORAL CORPORATION	Ohio	NAVY	RDTE/Mining Methods-Subsurface-Exploratory	1,494-
	R&D TOTAL				3,062-
AV71	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Mining - Metallurgical - Basic Resear	35
AZ11	A T & T TECHNOLOGIES INC	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	235
		N Carolina	USAF	RDTE/Other Research & Development-Basic Re	150
	CONTRACTOR TOTAL				385
	A T S S INC	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	ACADEMY OF APPLIED SCIENCE INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	108
	ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Research & Development-Basic Re	49
	ACUTRONIC FRANCE SA	FRANCE	ARMY	RDTE/Other Research & Development-Basic Re	118
	ADVANCED CNTERMEASURE SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re	54
	ADVANCED MECHANICAL TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
	ADVANCED RES & APPLICATIONS	California	NAVY	RDTE/Other Research & Development-Basic Re	63
	ADVANCED RESOURCE DEV CORP	Maryland	OCE	RDTE/Other Research & Development-Basic Re	128
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	60
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	190
	ADVANCED TECHNOLOGY MTLs DEL	Conn	ARMY	RDTE/Other Research & Development-Basic Re	162
	AEROVIRONMENT INC	California	NAVY	RDTE/Other Research & Development-Basic Re	249
	AKMAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	226
	ALCORN STATE UNIVERSITY	Miss	OCE	RDTE/Other Research & Development-Basic Re	26
	ALFORD ROGERS CULLIMORE CONCEP	Florida	OCE	RDTE/Other Research & Development-Basic Re	99
	ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	120

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	\$	209-
	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		390
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		16,818
CONTRACTOR TOTAL					16,999
ALPHATECH INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		71
AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		49
AMERICAN SCIENTIFIC CORP	Virginia	OCE	RDTE/Other Research & Development-Basic Re		60
ANALYTIC SCIENCES CORP THE	Mass	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		63 200
	COUNTRY TOTAL				263
ANALYTICA OF BRANFORD INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re		100
ANALYTICAL METHODS INC	Washington	ARMY	RDTE/Other Research & Development-Basic Re		338
ANATRACE INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		50
APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		246
APPLIED RESEARCH CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		170
APPLIED TCHNLOGY ASSOC INC DEL	California	NAVY	RDTE/Other Research & Development-Basic Re		600
APTEK INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		95
AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Other Research & Development-Basic Re		50
ARCHITECTURAL ENERGY CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		109
ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		491
ARON VECHT & ASSOCIATES	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		163
ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Research & Development-Basic Re		60
ASTRON CORPORATION	Virginia	USAF	RDTE/Other Research & Development-Basic Re		96

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	ASTROSYSTEMS INC	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	\$ 179
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Research & Development-Basic Re	491
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Basic Re	681
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	72
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	908
	AVON CLEANING GROUP LTD	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	46
	AXIOMATIX	California	ARMY	RDTE/Other Research & Development-Basic Re	65
	BAKER WILFRED ENGINEERING	Texas	ARMY	RDTE/Other Research & Development-Basic Re	50
		OCE		RDTE/Other Research & Development-Basic Re	50
		COUNTRY TOTAL			100
	BALL CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	275
		Colorado	NAVY	RDTE/Other Research & Development-Basic Re	79
					354
	BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	222
		Arizona	ARMY	RDTE/Other Research & Development-Basic Re	41
		California	ARMY	RDTE/Other Research & Development-Basic Re	257
		Colorado	ARMY	RDTE/Other Research & Development-Basic Re	101
		Conn	ARMY	RDTE/Other Research & Development-Basic Re	75
		D.C.	ARMY	RDTE/Other Research & Development-Basic Re	37
		Florida	ARMY	RDTE/Other Research & Development-Basic Re	257
		Georgia	ARMY	RDTE/Other Research & Development-Basic Re	219
		Illinois	ARMY	RDTE/Other Research & Development-Basic Re	181
		Indiana	ARMY	RDTE/Other Research & Development-Basic Re	77

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	
AZ11 (CONTINUED)	Louisiana	ARMY	RDTE/Other	Research & Development-Basic Re	\$ 57
	Maryland	ARMY DLA	RDTE/Other RDTE/Other	Research & Development-Basic Re Research & Development-Basic Re	38 1,392
	COUNTRY TOTAL				1,430
	Mass	ARMY	RDTE/Other	Research & Development-Basic Re	77
	Michigan	ARMY	RDTE/Other	Research & Development-Basic Re	195
	Minnesota	ARMY	RDTE/Other	Research & Development-Basic Re	100
	Nevada	ARMY	RDTE/Other	Research & Development-Basic Re	137
	N.H.	ARMY	RDTE/Other	Research & Development-Basic Re	171
	New Jersey	ARMY	RDTE/Other	Research & Development-Basic Re	198
	New Mexico	ARMY	RDTE/Other	Research & Development-Basic Re	117
	New York	ARMY	RDTE/Other	Research & Development-Basic Re	134
	N Carolina	ARMY	RDTE/Other	Research & Development-Basic Re	109
	Ohio	ARMY	RDTE/Other	Research & Development-Basic Re	2,477
	Oklahoma	ARMY	RDTE/Other	Research & Development-Basic Re	315
	Oregon	ARMY	RDTE/Other	Research & Development-Basic Re	96
	Penn	ARMY	RDTE/Other	Research & Development-Basic Re	110
	S Carolina	ARMY	RDTE/Other	Research & Development-Basic Re	30
	Tennessee	ARMY	RDTE/Other	Research & Development-Basic Re	55
	Texas	ARMY	RDTE/Other	Research & Development-Basic Re	461
	Virginia	ARMY	RDTE/Other	Research & Development-Basic Re	602
	Washington	ARMY	RDTE/Other	Research & Development-Basic Re	226
	CANADA	ARMY	RDTE/Other	Research & Development-Basic Re	104

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	CONTRACTOR TOTAL				
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	8,668
	BECON SERVICES CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	414
	BEDFORD RESEARCH ASSOCIATES	Mass	USAF	RDTE/Other Research & Development-Basic Re	43
	BEN GURION UNIVERSITY OF THE N	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	54-
	BEND RESEARCH INC	Oregon	ARMY	RDTE/Other Research & Development-Basic Re	31
	BIOSONICS INC	Washington	OCE	RDTE/Other Research & Development-Basic Re	518
	BOEING COMPANY THE	Washington	ARMY	RDTE/Other Research & Development-Basic Re	28
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	618
	BORGMAN L E INC	Wyoming	OCE	RDTE/Other Research & Development-Basic Re	529
	BOSTON COLLEGE TRUSTEES OF	Mass	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	50 44 245
	COUNTRY TOTAL				289
	BOSTON UNIVERSITY TRUSTEES OF	Mass	ARMY	RDTE/Other Research & Development-Basic Re	395
	BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	62
	BREED & HARVEL ASSOCIATES	Texas	NAVY	RDTE/Other Research & Development-Basic Re	52
	BROWN UNIVERSITY	Rhode Isld	ARMY	RDTE/Other Research & Development-Basic Re	786
	BRUNEL UNIVERSITY	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	31
	C K ASSOCIATES INC	Louisiana	OCE	RDTE/Other Research & Development-Basic Re	39
	C V D EQUIPMENT CORPORATION	New York	USAF	RDTE/Other Research & Development-Basic Re	200
	CALIFORNIA INST OF TECHNOLOGY	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	1,010 157
	COUNTRY TOTAL				1,167
	CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re	626

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	OCE	RDTE/Other Research & Development-Basic Re	\$
AZ11 (CONTINUED)							
		COUNTRY TOTAL					
	CALIFORNIA ST UNIV NORTHRIDGE	California	ARMY	RDTE/Other Research & Development-Basic Re			261
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Research & Development-Basic Re			887
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re			41
	CAMBRIDGE SCIENTIFIC INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re			25
	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Other Research & Development-Basic Re			198
	CANSTAR	CANADA	NAVY	RDTE/Other Research & Development-Basic Re			232
	CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re			86
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re			87
	CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Research & Development-Basic Re			47
		COUNTRY TOTAL					481
	CB TANG INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re			322
	CENTRE D'ETUDES ET DERECHERCHE	FRANCE	ARMY	RDTE/Other Research & Development-Basic Re			63
	CHASE CONSULTANTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re			385
	CHEMICAL DYNAMICS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re			50
	CHEMICAL RESEARCH LABORATORIES	Rhode Isld	ARMY	RDTE/Other Research & Development-Basic Re			121
	CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Other Research & Development-Basic Re			50
	CHIRP CORP	California	NAVY	RDTE/Other Research & Development-Basic Re			44
	CHOCTAW ENGINEERING CO INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re			50
	CHOMERICS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re			412
	CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re			141
	CLARKSON UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re			250
							115

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	

AZ11 (CONTINUED)

CLERMSON UNIVERSITY	S Carolina	ARMY DLA OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$	143 878 60
COUNTRY TOTAL					
COASTAL FRONTIERS CORP	Oregon	OCE	RDTE/Other Research & Development-Basic Re		34
COLEMAN RESEARCH CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Basic Re		114
COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		128
COLORADO STATE UNIVERSITY	Colorado	ARMY NAVY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		1,554 300 205
COUNTRY TOTAL					
COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		2,059
COMMAND SYSTEMS GROUP INC	California	NAVY	KDTE/Other Research & Development-Basic Re		864
COMMONWEALTH OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		500
COMPUTER DATA SYSTEMS INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		99
CONNECTICUT STATE OF	Conn	ARMY	RDTE/Other Research & Development-Basic Re		105
CONSORTIUM UNIV WASH METRO	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		60
CONSULTANTS CHOICE INC	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		624
CONTINUUM DYNAMICS INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		143
CORK GEOTECHNICS LTD	IRELAND	ARMY	RDTE/Other Research & Development-Basic Re		470
CORNELL UNIVERSITY	New York	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		30 5,862 28
COUNTRY TOTAL					
CORNING INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		5,890
CORWIN ROBERT F PHD	California	OCE	RDTE/Other Research & Development-Basic Re		147
					33

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

COVALENT ASSOCIATES INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	\$	53
CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re		50
CYBER COM CORP	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		94
D C W INDUSTRIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		158
DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		366
DAMASKOS INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		244
DARTMOUTH COLLEGE	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		80
DE LEUW CATHER CO	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		80
DECISION SCIENCE APPLICATIONS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		48
DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		44
DEFENSE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		295
DELFIN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re		50
DELTA INFORMATION SYSTEMS	Penn	NAVY	RDTE/Other Research & Development-Basic Re		100
DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		150
DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		499
		NAVY	RDTE/Other Research & Development-Basic Re		3,234
	COUNTRY TOTAL				3,733
DRAPER ARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re		99
DREXEL UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re		84
		NAVY	RDTE/Other Research & Development-Basic Re		25
	COUNTRY TOTAL				109
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		1,056
DYNAIR ELECTRONICS INC	California	NAVY	RDTE/Other Research & Development-Basic Re		29
DYNAMIC ANALYSIS & TEST ASSOC	California	NAVY	RDTE/Other Research & Development-Basic Re		49

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	589
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Basic Re	55
	E G & G MASON RESEARCH INST	Mass	ARMY	RDTE/Other Research & Development-Basic Re	94
	E G & G PRINCETON APPLIED RES	Ohio	OCE	RDTE/Other Research & Development-Basic Re	49
	EAGLE TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	500
	EARTH TECHNOLOGY CORP WESTERN	California	ARMY	RDTE/Other Research & Development-Basic Re	40
	EAST CAROLINA UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	60
	EDGEWOOD TELESERVICES	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	52
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	580
		New Mexico	NAVY	RDTE/Other Research & Development-Basic Re	447
	CONTRACTOR TOTAL				1,027
	ELECTRONICS CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re	77
	EMCORE CORP	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	50
	EMERGING CONCEPTS	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	EMORY UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	194
	ENGINEERING RESEARCH ASSOC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	100
	ENVIRONMENTAL RESEARCH	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	592
		USAF		RDTE/Other Research & Development-Basic Re	205
		DLA		RDTE/Other Research & Development-Basic Re	455
	COUNTRY TOTAL				1,252
	ENVIROSCAN INC	Washington	OCE	RDTE/Other Research & Development-Basic Re	77
	EVANS CHARLES & ASSOCIATES	California	USAF	RDTE/Other Research & Development-Basic Re	715
	EVANS HAMILTON INC	Texas	OCE	RDTE/Other Research & Development-Basic Re	803
	EXTERIOR WALL SYSTEMS EWS NC	New York	ARMY	RDTE/Other Research & Development-Basic Re	80

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	FALLURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Basic Re	\$ 190
	FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	117
	FLORIDA ATLANTIC UNIVERSITY	Florida	ARMY	RDTE/Other Research & Development-Basic Re	53
	FLOUROCHEM INC	California	ARMY	RDTE/Other Research & Development-Basic Re	114
	FLOW ANALYSIS INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	49
	FLOW GENERAL INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	127
	FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Research & Development-Basic Re	228
		NAVY	RDTE/Other Research & Development-Basic Re	51	
		COUNTRY TOTAL			279
	FM TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	150
	FMC CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	270
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	300
		NAVY	RDTE/Other Research & Development-Basic Re	56	
		COUNTRY TOTAL			356
	FRANKLIN RESEARCH CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	39
	FRAUNHAFER GESELLSCHAFT ZUR FOE	GERMANY, F	ARMY	RDTE/Other Research & Development-Basic Re	27
	FRIED D L ASSOCIATES INC	California	NAVY	RDTE/Other Research & Development-Basic Re	175
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Basic Re	285
	G T E LABORATORIES INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	114
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	280
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	428
		COUNTRY TOTAL			708
	GENERAL ELECTRIC CO	New York	ARMY	RDTE/Other Research & Development-Basic Re	1,548
		NAVY	RDTE/Other Research & Development-Basic Re	236	

Prepared By: Washington Headquarters Services
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Operations and Reports

DEPARTMENT OF DEFENSE

PAGE 358

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	

AZ11 (CONTINUED)

GENERAL RESEARCH CORPORATION					
COUNTRY TOTAL					
California	ARMY	RDTE/Other Research & Development-Basic Re			
	USAF	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
CONTRACTOR TOTAL					
GENTEX CORPORATION					
Penn	ARMY	RDTE/Other Research & Development-Basic Re			
D.C.	NAVY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
	NAVY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
CONTRACTOR TOTAL					
GEORGE MASON UNIVERSITY					
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
D.C.	ARMY	RDTE/Other Research & Development-Basic Re			
	NAVY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
D.C.	NAVY	RDTE/Other Research & Development-Basic Re			
GEORGETOWN UNIVERSITY					
Georgia	ARMY	RDTE/Other Research & Development-Basic Re			
	NAVY	RDTE/Other Research & Development-Basic Re			
	DLA	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
CONTRACTOR TOTAL					
GSC ASSOCIATES INC					
HARRIS CORPORATION					
HARRIS GROUP THE INC					
HARVARD UNIVERSITY					
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
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COUNTRY TOTAL					
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Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
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Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
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Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
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Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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COUNTRY TOTAL					
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Mass	ARMY	RDTE/Other Research & Development-Basic Re			
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Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
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Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
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COUNTRY TOTAL					
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Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
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Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			
Virginia	ARMY	RDTE/Other Research & Development-Basic Re			
Mass	ARMY	RDTE/Other Research & Development-Basic Re			
COUNTRY TOTAL					
California	NAVY	RDTE/Other Research & Development-Basic Re			
Florida	NAVY	RDTE/Other Research & Development-Basic Re			

DEPARTMENT OF DEFENSE

PAGE 359

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AZ11 (CONTINUED)					
	HATFIELD POLYTECH CENTRE THE	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	30
	HEWLETT PACKARD COMPANY	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	36
	HOUGHTON & CO INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	100
	HONEYWELL INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	137
	HOWARD UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	26
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Basic Re	82
		NAVY	NAVY	RDTE/Other Research & Development-Basic Re	11,846
		COUNTRY TOTAL			11,928
	HUMAN FACTOR SOLUTIONS	Maryland	USAF	RDTE/Other Research & Development-Basic Re	49
	HUMAN RSRCS RES ORGANIZATION	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	326
	HYDROQUAL INC	New Jersey	OCE	RDTE/Other Research & Development-Basic Re	255
	HYRES INC	New York	NAVY	RDTE/Other Research & Development-Basic Re	284
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	371
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	30
		DLA	DLA	RDTE/Other Research & Development-Basic Re	470
		COUNTRY TOTAL			500
	I T CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	100
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	71
	INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	770
	INFORMATION SYSTEMS LABS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	108
	INFORMTION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	865
	INRAD INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	52
	INSTITUTE DE CHIMIE PHYSIQUE	SWITZERLAN	ARMY	RDTE/Other Research & Development-Basic Re	34
	INSTITUTO SUPERIOR TECNICO	PORTUGAL	ARMY	RDTE/Other Research & Development-Basic Re	50

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	INTELLITEK INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	200
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	382
	INTERNETNAL TCHNCAL ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	45
	ISRAELI INS OF MILITARY STUDY	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	67
	ITE INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	836
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re	449
	JAI ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	95
	JAYCOR	California	ARMY	RDTE/Other Research & Development-Basic Re	49
		D.C.	NAVY	RDTE/Other Research & Development-Basic Re	489
		Miss	OCE	RDTE/Other Research & Development-Basic Re	63
	CONTRACTOR TOTAL				601
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	73 75
		COUNTRY TOTAL			148
	KAMAN SCIENCES CORPORATION	California	DLA	RDTE/Other Research & Development-Basic Re	480
	KANSAS STATE UNIVERSITY	Kansas	ARMY	RDTE/Other Research & Development-Basic Re	232
	KARAGUZIAN & CASE	California	ARMY	RDTE/Other Research & Development-Basic Re	43
	KATHOLIEKE UNIVERSITEIT LEUVEN	BELGIUM	ARMY	RDTE/Other Research & Development-Basic Re	34
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	173
	KNIGHT KOREA (JV)	GERMANY, F	ARMY	RDTE/Other Research & Development-Basic Re	30
	KOPIN CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	249
	KUK DONG CONSTRUCTION CO LTD	SWITZERLAN	ARMY	RDTE/Other Research & Development-Basic Re	94

DEPARTMENT OF DEFENSE

PAGE 361

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	KYONG HYANG CONSTR & ENGR CO	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	54
	L N R COMMUNICATIONS INC	New York	NAVY	RDTE/Other Research & Development-Basic Re	49
	LASER SYSTEMS & RSCH CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	7,347
	LEE J S ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	100
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	177
			NAVY	RDTE/Other Research & Development-Basic Re	45
			OCE	RDTE/Other Research & Development-Basic Re	56
		COUNTRY TOTAL			278
	LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	35
	LINCOM CORP NOT INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50
	LINKNET	California	NAVY	RDTE/Other Research & Development-Basic Re	98
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	144
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	1,460
		New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	90
	CONTRACTOR TOTAL				1,550
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Basic Re	98
			USAF	RDTE/Other Research & Development-Basic Re	351
		COUNTRY TOTAL			449
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	875
	CONTRACTOR TOTAL				1,324
	LOCUS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	186
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	1,509
	CONTRACTOR TOTAL				1,695
	LOGIMETRICS INC DEL	New York	NAVY	RDTE/Other Research & Development-Basic Re	119

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$

AZ11 (CONTINUED)

LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	68
LTV AEROSPACE & DEF CO	Texas	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	386 321
	COUNTRY TOTAL			707
LUTRONIX INC	California	NAVY	RDTE/Other Research & Development-Basic Re	161
M S P CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re	52
MAFAT DEPT OF BEHAVIORAL SCIEN	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	28
MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	584
MARIQUEST INC	Texas	OCE	RDTE/Other Research & Development-Basic Re	525
MARQUARDT COMPANY THE	California	NAVY	RDTE/Other Research & Development-Basic Re	761
MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	1,700
	Florida	NAVY	RDTE/Other Research & Development-Basic Re	34
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	303
CONTRACTOR TOTAL				2,037
MASS COLLEGE OF PHARMACY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY NAVY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	6,881 283 417 64
	COUNTRY TOTAL			7,645
MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Research & Development-Basic Re	951
MAXWELL LABORATORIES INC	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	27 33 1,573
	COUNTRY TOTAL			1,633
MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Other Research & Development-Basic Re	100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other Research & Development-Basic Re	\$
AZ11 (CONTINUED)							
					COUNTRY TOTAL		
	MC GILL UNIVERSITY	CANADA	ARMY	RDTE/Other Research & Development-Basic Re			30
	MCRA INFOR SVS	Alabama	ARMY	RDTE/Other Research & Development-Basic Re			130
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re			72
	METAL POWDER INDS FEDERATION	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re			134
	METRON CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re			440
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re			155
			OCE	RDTE/Other Research & Development-Basic Re			220
		COUNTRY TOTAL					306
							25
							331
	MICHIGAN TCHNLGAL UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re			40
	MINNESOTA MIN & MFG COMPANY	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re			199
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re			159
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re			200
	CONTRACTOR TOTAL						359
	MISSISSIPPI STATE UNIVERSITY	Miss	OCE	RDTE/Other Research & Development-Basic Re			132
	MISSOURI UNIVERSITY OF	Missouri	ARMY	RDTE/Other Research & Development-Basic Re			387
			OCE	RDTE/Other Research & Development-Basic Re			60
		COUNTRY TOTAL					447
	MODUSPEC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Basic Re			98
	MOHR ADOLPH W	Georgia	OCE	RDTE/Other Research & Development-Basic Re			34
	MOLECULAR DEVICES CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re			275
	MULTISPEC CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re			493
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re			50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	595-
AZ11 (CONTINUED)					
	N K H INC	California	ARMY	RDTE/Other Research & Development-Basic Re	595-
	NATIONAL ACADEMY SCIENCES USA	California	NAVY	RDTE/Other Research & Development-Basic Re	100
		D.C.	ARMY	RDTE/Other Research & Development-Basic Re	1,574
	CONTRACTOR TOTAL				1,674
	NATIONAL HYBRID INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	250
	NATIONAL SERVICES PROJECTS	ITALY	ARMY	RDTE/Other Research & Development-Basic Re	38
	NEW HAMPSHIRE UNIVERSITY SYS	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	46
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	588
	NEW MXICO INST OF MIN TCHNLGY	New Mexico	USAF	RDTE/Other Research & Development-Basic Re	83
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	220
	NICHOLS RESEARCH CORPORATION	Alabama	NAVY	RDTE/Other Research & Development-Basic Re	456
	NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Research & Development-Basic Re	109
	NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re	122
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	984 50 29
	COUNTRY TOTAL				1,063
	NORTH EAST SEMICONDUCTOR INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	50
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re	96
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	367
	NUCLEAR METALS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	257
	ODYSSEY RESEARCH ASSOCIATES	New York	NAVY	RDTE/Other Research & Development-Basic Re	60
	OGUSHWITZ TECHNICAL CONSULTING	New Jersey	OCE	RDTE/Other Research & Development-Basic Re	28
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	309

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)				
OKLAHOMA STATE UNIVERSITY	OKlahoma	ARMY	RDTE/Other Research & Development-Basic Re	229
OLD DMNION UNIV RES FUNDATION	Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	538 379
	COUNTRY TOTAL			80 70
OPTTECH, INC	CANADA	OCE	RDTE/Other Research & Development-Basic Re	150
OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	180
OPTRA INC	Mass	USAF	RDTE/Other Research & Development-Basic Re	2,611
OREGON STATE UNIVERSITY	Oregon	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	130 80 26
	COUNTRY TOTAL			106
ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	197
OUACHITA BAPTIST UNIVERSITY	Arkansas	OCE	RDTE/Other Research & Development-Basic Re	119
OWENS-CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	639
PAR ASSOCIATES	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	49
PENNSYLVANIA STATE UNIV THE	Penn	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	1,006 50
	COUNTRY TOTAL			1,056
PERCEPTICS CORPORATION	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	284
PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Basic Re	394
PHILADELPHIA COLLEGE OF PAHARM	Penn	ARMY	RDTE/Other Research & Development-Basic Re	50
PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	700
PHYSICAL RESEARCH INC	Alabama	USAF	RDTE/Other Research & Development-Basic Re	241
PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Other Research & Development-Basic Re	180

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

PINSON ASSOCIATES INC	Texas	NAVY	RDTE/Other Research & Development-Basic Re	\$	90
POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re		155
POTOMAC PHOTONICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		76
POTOMAC RESEARCH INCORPORATED	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		50
POUR LE DEVEL DE LA RECHERCHE	FRANCE	ARMY	RDTE/Other Research & Development-Basic Re		43
PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		51
PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		89
PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		1,050
PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Research & Development-Basic Re		687
		DLA	RDTE/Other Research & Development-Basic Re		79
		OCE	RDTE/Other Research & Development-Basic Re		142
					908
	COUNTRY TOTAL				
Q DOT INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		49
QSOURCE INC	Conn	USAF	RDTE/Other Research & Development-Basic Re		47
QUALCOMM INC	California	NAVY	RDTE/Other Research & Development-Basic Re		99
QUESTAR DATA SYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		25
R & D ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Basic Re		142
		NAVY	RDTE/Other Research & Development-Basic Re		175
	COUNTRY TOTAL				317
RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Research & Development-Basic Re		153
RAYTHEON NORTHRP INWS JNT VNTR	California	NAVY	RDTE/Other Research & Development-Basic Re		510
REKENTHALER TECHNOLOGY ASSOC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		44
RENSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other Research & Development-Basic Re		1,510
RESOURCE MANAGEMENT ASSOC	California	OCE	RDTE/Other Research & Development-Basic Re		66

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	RICE WILLIAM MARSH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re	\$ 153
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	400
			NAVY	RDTE/Other Research & Development-Basic Re	100
	COUNTRY TOTAL				500
	ROYAL HOLLOWAY & BEDFORD COLL	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	40
	RUTGERS THE STATE UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	206
			NAVY	RDTE/Other Research & Development-Basic Re	125
			DLA	RDTE/Other Research & Development-Basic Re	300
	COUNTRY TOTAL				631
	S M SYSTEMS AND RESEARCH CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	54
	S T SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re	140
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	2,790
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	152
			NAVY	RDTE/Other Research & Development-Basic Re	242
	COUNTRY TOTAL				394
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	183
			NAVY	RDTE/Other Research & Development-Basic Re	500
			USAF	RDTE/Other Research & Development-Basic Re	168
	COUNTRY TOTAL				851
		Colorado	NAVY	RDTE/Other Research & Development-Basic Re	45
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	2,462
			NAVY	RDTE/Other Research & Development-Basic Re	435
	COUNTRY TOTAL				2,897
	CONTRACTOR TOTAL				3,793
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	105
			NAVY	RDTE/Other Research & Development-Basic Re	228
	COUNTRY TOTAL				333

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	SECO DYN INC	California	ARMY	RDTE/Other Research & Development-Basic Re	\$ 90
	SEDIMENT INSTRMTATION RES DEV	Illinois	OCE	RDTE/Other Research & Development-Basic Re	99
	SENSOR DATA INTEGRATION INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	51
	SHENANDOAH SYSTEMS CO INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	90
	SIGNAL ANALYTICS	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	54
	SIGNAL PAROCESSING TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re	199
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	341
	SMITHSONIAN INSTITUTION	Mass	NAVY	RDTE/Other Research & Development-Basic Re	858
	SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	362
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re	85
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	35
	CONTRACTOR TOTAL				120
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re	59
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY USAF DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	382 250 265
			COUNTRY TOTAL		897
	SPACE TECH CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	360
	SPARTA INC	California	USAF	RDTE/Other Research & Development-Basic Re	154
	SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re	140
	SPECTRANETICS CORP	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	97
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	349
	SRI INTERNATIONAL	California	ARMY NAVY USAF DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	999 113 331 429

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Research & Development-Basic Re	1,872
	STANFORD LELAND JUNIOR UNIV	California	ARMY	RDTE/Other Research & Development-Basic Re	170
	STAR MICROWAVE	California	NAVY	RDTE/Other Research & Development-Basic Re	3,303
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re	49
	STATISTICAL SIGNAL	California	ARMY	RDTE/Other Research & Development-Basic Re	1,194
	STERIODS LTD	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	67
	STEVENS INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	49
	SURFACE OPTICS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	74
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Basic Re	30
	SYRACUSE UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	536
	SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	375
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	172
	SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Basic Re	2,814
	TAU CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	34
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	49
	TECHNOLOGY FOR SOCIETY	NETHERLAND	ARMY	RDTE/Other Research & Development-Basic Re	168
	TEL AVIV UNIVERSITY	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	68
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	100
	TELOS CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	392
	TERRA TEK INC	Utah	OCE	RDTE/Other Research & Development-Basic Re	873
	TEXAS A & M UNIV SYS THE	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re	40
					449
					50

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AZ11 (CONTINUED)					
			OCE	RDTE/Other Research & Development-Basic Re	\$ 286
		COUNTRY TOTAL			785
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Other Research & Development-Basic Re	99
			USAF	RDTE/Other Research & Development-Basic Re	452
		COUNTRY TOTAL			551
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other Research & Development-Basic Re	52
	TITAN CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	205
	TOOMAY MATHIS & ASSOCIATES	Montana	ARMY	RDTE/Other Research & Development-Basic Re	126
	TRACOR AEROSPACE INC	California	NAVY	RDTE/Other Research & Development-Basic Re	661
	TRI TESCO	Texas	NAVY	RDTE/Other Research & Development-Basic Re	152
	TRIANGLE RESEARCH & DEV CORP	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	50
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	52
	TS INFOSYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	1,715
	TUFTS UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	167
	UHV INSTRUMENTS INC	New York	NAVY	RDTE/Other Research & Development-Basic Re	240
	UNIFIED INDUSTRIES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	47
	UNION CARBIDE CORPORATION	Washington	NAVY	RDTE/Other Research & Development-Basic Re	130
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Basic Re	415
			USAF	RDTE/Other Research & Development-Basic Re	63
		COUNTRY TOTAL			478
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	219
	UNIVERSITY OF ALASKA	Alaska	ARMY	RDTE/Other Research & Development-Basic Re	145
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	170
	UNIVERSITY OF BRISTOL	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	75

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	UNIVERSITY OF CALIFORNIA	California	ARMY NAVY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$ 4,562 288 90 696
		COUNTRY TOTAL			5,636
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Basic Re	53-
	UNIVERSITY OF CINCINNATI	Mass	ARMY	RDTE/Other Research & Development-Basic Re	722
		Ohio	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	160 108
		COUNTRY TOTAL			268
	CONTRACTOR TOTAL				990
	UNIVERSITY OF COLORADO	Colorado	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	810 49
		COUNTRY TOTAL			859
	UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Research & Development-Basic Re	270
	UNIVERSITY OF DAYTON	Ohio	ARMY NAVY DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	575 98 281
		COUNTRY TOTAL			954
	UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	887
	UNIVERSITY OF FLORIDA	Florida	ARMY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	417 40 349
		COUNTRY TOTAL			806
	UNIVERSITY OF HAIFA	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	95
	UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re	165
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	3,538

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AZ11 (CONTINUED)

	UNIVERSITY OF IOWA THE	Iowa	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$ 96 106 3,740
		COUNTRY TOTAL			
	UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Research & Development-Basic Re	200
	UNIVERSITY OF KENTUCKY	Kentucky	ARMY	RDTE/Other Research & Development-Basic Re	286
	UNIVERSITY OF MANCHESTER INSTI	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	100
	UNIVERSITY OF MARYLAND	Maryland	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	636 540 1,176
		COUNTRY TOTAL			
	UNIVERSITY OF MEDICINE	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	50
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	284
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	3,306
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re	650
	UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Other Research & Development-Basic Re	95
	UNIVERSITY OF NEBRASKA	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re	325
	UNIVERSITY OF NEW MEXICO	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	84
	UNIVERSITY OF NORTH CAROLINA	N Carolina	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	81 60 141
		COUNTRY TOTAL			
	UNIVERSITY OF NOTRE DAME	Indiana	ARMY	RDTE/Other Research & Development-Basic Re	173
	UNIVERSITY OF NOTTINGHAM	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	75
	UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re	144

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AZ11 (CONTINUED)					
	UNIVERSITY OF OREGON	Oregon	ARMY	RDTE/Other Research & Development-Basic Re	\$ 200
	UNIVERSITY OF PENNSYLVANIA	Penn	ARMY	RDTE/Other Research & Development-Basic Re	1,254
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Research & Development-Basic Re	384
		S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	137
	CONTRACTOR TOTAL				521
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	ARMY	RDTE/Other Research & Development-Basic Re	298
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Research & Development-Basic Re	2,220
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	132
	UNIVERSITY OF SOUTH FLORIDA	Florida	OCE	RDTE/Other Research & Development-Basic Re	48
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	1,980 265
	COUNTRY TOTAL				2,245
	UNIVERSITY OF SOUTHERN MISSISS	Miss	OCE	RDTE/Other Research & Development-Basic Re	40
	UNIVERSITY OF STRATCLYDE	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	31
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	1,937 31
	COUNTRY TOTAL				1,968
	UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Research & Development-Basic Re	266
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	498
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Research & Development-Basic Re	339
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	2,105
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Research & Development-Basic Re	73
	UNIVERSITY RES FOUNDATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	738-
	VAN DYKE J G & ASSOCIATES	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	55

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	\$ 100
	VECTOR MICRO	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	125
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	45
	VECTOR RESEARCH INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	50
	VECTORVISION CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re	199
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	248
	VIASAT INC	California	NAVY	RDTE/Other Research & Development-Basic Re	194
	VIRGINIA PLYCHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	406
			NAVY	RDTE/Other Research & Development-Basic Re	1,311
		COUNTRY TOTAL			1,717
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	VISIDYNE INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	65
	VISTA RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re	30
	VITRO CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	210
	VREULS RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	111
	WADDAN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re	2,501
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Basic Re	219
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	50
	CONTRACTOR TOTAL				269
	WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development-Basic Re	158
	WALLR ENGINEERING & TECHNOLOGY	Colorado	OCE	RDTE/Other Research & Development-Basic Re	76
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	551
	WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	73

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	\$	207
WEST CHESHIRE CLEANING SERVICE	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		52
WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re		1,789
WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re		53
	Penn	ARMY	RDTE/Other Research & Development-Basic Re		102
		NAVY	RDTE/Other Research & Development-Basic Re		622
					724
					777
					379
					50
					32
					90
					40
					339
					56
					198
					50
					227,797
					50
					60
					50
					344
					274

COUNTRY TOTAL

CONTRACTOR TOTAL

WESTON ROY F INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		379
WILLIAM & MARY COLLEGE OF VA	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		50
WOODS HOLE OCNRPIC INSTITUTE	Mass	OCE	RDTE/Other Research & Development-Basic Re		32
WORCESTER PLYTHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Basic Re		90
WRIGHT STEPHEN G DR	Texas	OCE	RDTE/Other Research & Development-Basic Re		40
YALE UNIVERSITY	Conn	ARMY	RDTE/Other Research & Development-Basic Re		339
ZELIGSON COMPANY	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re		56
ZERNOW TECHNICAL SERVICES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		198
ZEXTRON INC	California	NAVY	RDTE/Other Research & Development-Basic Re		50
					227,797
					50
					60
					50
					344
					274

R&D TOTAL

AZ12 2 G ENTERPRISES	California	NAVY	RDTE/Other Research & Development-Explor D		50
A A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D		60
ACCSYS TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Explor D		50
ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Research & Development-Explor D		344
ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Explor D		274

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	\$
AZ12 (CONTINUED)					
	ADVANCED TECHNOLOGY INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	50
	ADVANCED TECHNOLOGY MTLs DEL	Conn	NAVY	RDTE/Other Research & Development-Explor D	74
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Research & Development-Explor D	692
	AEROVIRONMENT INC	California	NAVY	RDTE/Other Research & Development-Explor D	249
	AKMAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	250
	ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Research & Development-Explor D	193
	ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY	RDTE/Other Research & Development-Explor D	1,098
	ALLIED SIGNAL INC	Arizona	ARMY	RDTE/Other Research & Development-Explor D	176
		Indiana	NAVY	RDTE/Other Research & Development-Explor D	41
	CONTRACTOR TOTAL				217
	ANRO ENGINEERING CONSULTANTS	Mass	ARMY	RDTE/Other Research & Development-Explor D	126
	APPLIED AERODYNAMICS ASSOC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	26
	APPLIED RESEARCH ASSOC INC	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	412
	APPLIED SCIENCES INC	Ohio	NAVY	RDTE/Other Research & Development-Explor D	59
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	264
	AQUANAUTICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	510
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	991
	ARL INC	D.C.	NAVY	RDTE/Other Research & Development-Explor D	847
		Virginia	NAVY	RDTE/Other Research & Development-Explor D	98
	CONTRACTOR TOTAL				945
	ARMAMENT SYSTEMS INC	Florida	USAF	RDTE/Other Research & Development-Explor D	1,311
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	445
	CONTRACTOR TOTAL				1,756

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AZ12 (CONTINUED)					
	ATACS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	276
	BAKER WILFRED ENGINEERING	Texas	NAVY	RDTE/Other Research & Development-Explor D	85
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Explor D	225
	BATTELLE DEVELOPMENT CORP	Ohio	NAVY	RDTE/Other Research & Development-Explor D	120
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Explor D	150
			NAVY	RDTE/Other Research & Development-Explor D	166
		COUNTRY TOTAL			316
	BBN SYSTEMS & TECHNOLOGIES	Mass	NAVY	RDTE/Other Research & Development-Explor D	100
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	3,749
	BECHTEL NATIONAL INC	California	ARMY	RDTE/Other Research & Development-Explor D	90
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	225
	BIO IMAGING RESEARCH INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	265
	BOEING COMPANY THE	Oregon	NAVY	RDTE/Other Research & Development-Explor D	500
		Penn	ARMY	RDTE/Other Research & Development-Explor D	29
		Washington	ARMY	RDTE/Other Research & Development-Explor D	54
	CONTRACTOR TOTAL				583
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	1,000
			NAVY	RDTE/Other Research & Development-Explor D	348
		COUNTRY TOTAL			1,348
	BP AMERICA INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	41
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explor D	779
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	72
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Explor D	800
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Research & Development-Explor D	35
	CENTRAL WASH UNIV	Washington	ARMY	RDTE/Other Research & Development-Explor D	92

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Research & Development-Explor D	52
	COE-TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	701
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Other Research & Development-Explor D	401
	COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	248
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Research & Development-Explor D	145
	CORRPRO COMPANIES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	36
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	397
	CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	250
	CTA INCORPORATED	Colorado	NAVY	RDTE/Other Research & Development-Explor D	280
		Maryland	NAVY	RDTE/Other Research & Development-Explor D	303
	CONTRACTOR TOTAL				583
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Other Research & Development-Explor D	390
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	47
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Explor D	93
	DELFIN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Explor D	50
	DELTA G CORP	California	NAVY	RDTE/Other Research & Development-Explor D	49
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Explor D	350
	DIGITAL WIZARDS INC	California	NAVY	RDTE/Other Research & Development-Explor D	162
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Other Research & Development-Explor D	59
	DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Other Research & Development-Explor D	50
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	199
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Research & Development-Explor D	58
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Other Research & Development-Explor D	90

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ12 (CONTINUED)

DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D	\$	511
E A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D		127
EASTPORT INTERNATIONAL INC	California	NAVY	RDTE/Other Research & Development-Explor D		359
	Maryland	NAVY	RDTE/Other Research & Development-Explor D		551
CONTRACTOR TOTAL					910
EDO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D		97
ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Other Research & Development-Explor D		75
ENCORE COMPUTER CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D		3,008
ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Other Research & Development-Explor D		144
ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Explor D		41
FAILURE ANALYSIS ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D		100
FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Research & Development-Explor D		200
FMC CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Explor D		737
FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Other Research & Development-Explor D		251
FOSTER MILLER INC	Mass	NAVY	RDTE/Other Research & Development-Explor D		65
GENERAL ELECTRIC CO	New Jersey	ARMY	RDTE/Other Research & Development-Explor D		1,161
	New York	NAVY	RDTE/Other Research & Development-Explor D		45
		USAF	RDTE/Other Research & Development-Explor D		146
CONTRACTOR TOTAL					191
					1,352
GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Other Research & Development-Explor D		500
GENERAL RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D		31
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Explor D		370

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	GEODYNAMICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	95
	GEOPEX LTD	N Carolina	NAVY	RDTE/Other Research & Development-Explor D	465
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Explor D	100
	GOODRICH B F COMPANY THE	Ohio	ARMY	RDTE/Other Research & Development-Explor D	50
	H R TEXTRON INC	California	ARMY	RDTE/Other Research & Development-Explor D	110
	HANNIGAN CONSTRUCTION CO	Virginia	ARMY	RDTE/Other Research & Development-Explor D	43
	HLA ENGINEERS INC	Texas	NAVY	RDTE/Other Research & Development-Explor D	740
	HONEYWELL INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	45
	HONOMACH INC	Hawaii	NAVY	RDTE/Other Research & Development-Explor D	59
	HOWARD UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Explor D	400
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Research & Development-Explor D	33
					49
					185
					1,215
					1,400
	COUNTRY TOTAL				
	HUMAN RSRCES RES ORGANIZATION	Kentucky	ARMY	RDTE/Other Research & Development-Explor D	581
	HUMRRO INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	45
	HYDROGEN CONSULTANTS INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D	48
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Explor D	131
			NAVY	RDTE/Other Research & Development-Explor D	56
	COUNTRY TOTAL				187
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	276
	CONTRACTOR TOTAL				463
	I MATH ASSOCIATES INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	INSTITUTE FOR TECHNOLOGY DEV	Miss	ARMY	RDTE/Other Research & Development-Explor D	96
	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Other Research & Development-Explor D	169
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Other Research & Development-Explor D	28
	JAYCOR	California	NAVY	RDTE/Other Research & Development-Explor D	246
	KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Other Research & Development-Explor D	200
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	30
	KDC ISI JOINT VENTURE	California	NAVY	RDTE/Other Research & Development-Explor D	178
	KEO CONSULTANTS	Mass	USAF	RDTE/Other Research & Development-Explor D	69
	KINERGETICS INCORPORATED	California	ARMY	RDTE/Other Research & Development-Explor D	124
	KTECH CORPORATION	New Mexico	NAVY	RDTE/Other Research & Development-Explor D	50
	KURZ & ROOT COMPANY	Wisconsin	ARMY	RDTE/Other Research & Development-Explor D	280
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Research & Development-Explor D	250
	LARGE SCALE PROGRAMS INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Explor D	35
	LASER APPLICATIONS INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	50
	LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	99
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	298
	LITTON SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	1,471
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Explor D	324
		Texas	ARMY	RDTE/Other Research & Development-Explor D	2,037
	CONTRACTOR TOTAL				2,361
	LOGISTICS MANAGEMENT ENGRG	Maryland	NAVY	RDTE/Other Research & Development-Explor D	28
		Penn	ARMY	RDTE/Other Research & Development-Explor D	80
	CONTRACTOR TOTAL				108

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	LORAL CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	\$ 289
	MAGNAVOX GOVT & INDUSTRIAL ELCTR	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	1,272
	MANTECH INTERNATIONAL CORP	Virginia	NAVY	RDTE/Other Research & Development-Explor D	255
	MARKO MATERIALS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	57
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	55
	MARTINGALE RESEARCH CORP	Texas	NAVY	RDTE/Other Research & Development-Explor D	49
	MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Research & Development-Explor D	400
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D	144
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	280
		Missouri	NAVY	RDTE/Other Research & Development-Explor D	165
			USAF	RDTE/Other Research & Development-Explor D	866
		COUNTRY TOTAL			1,031
	CONTRACTOR TOTAL				1,311
	MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Explor D	2,377
	MC Q ASSOCIATES	Virginia	NAVY	RDTE/Other Research & Development-Explor D	49
	MEDICAL SYSTEMS SUPPORT INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	73
	MEMORY METALS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Explor D	49
	MOVING PICTURES	Illinois	ARMY	RDTE/Other Research & Development-Explor D	48
	MSNW INC	California	NAVY	RDTE/Other Research & Development-Explor D	134
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	45
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Explor D	50
	NEVADA ENGRG & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explor D	150
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Research & Development-Explor D	200
	NEW MEXICO INST OF MTN TECHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	213

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ12 (CONTINUED)

	QUANTUM RESEARCH SERVICES INC	N Carolina	NAVY	RDTE/Other Research & Development -Explor D	\$ 61
	QUEST RESEARCH CORPORATION	Ohio	USAF	RDTE/Other Research & Development -Explor D	100
	RADANT SYSTEMS INC	Mass	USAF	RDTE/Other Research & Development -Explor D	188
	RADEX INC	Mass	USAF	RDTE/Other Research & Development -Explor D	346
	RECOGNITION CONCEPTS INC	Virginia	NAVY	RDTE/Other Research & Development -Explor D	111
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Research & Development -Explor D	30
			NAVY	RDTE/Other Research & Development -Explor D	51
	COUNTRY TOTAL				81
	RUTGERS THE STATE UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development -Explor D	137
	S & D DYNAMICS INC	Florida	ARMY	RDTE/Other Research & Development -Explor D	78
	S S G INC	Mass	USAF	RDTE/Other Research & Development -Explor D	107
	SACHS FREEMAN ASSOCIATES INC	D C	NAVY	RDTE/Other Research & Development -Explor D	351
	SAFETY CONSULTING ENGINEERS	Illinois	NAVY	RDTE/Other Research & Development -Explor D	46
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Other Research & Development -Explor D	737
	SATT COMMUNICATION AB	SWEDEN	ARMY	RDTE/Other Research & Development -Explor D	161
	SCHMIDT & ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development -Explor D	102
	SCIENCE & ENGINEERING ASSOC	New Mexico	NAVY	RDTE/Other Research & Development -Explor D	49
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development -Explor D	393
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Research & Development -Explor D	266
			ARMY	RDTE/Other Research & Development -Explor D	140
			NAVY	RDTE/Other Research & Development -Explor D	135
	COUNTRY TOTAL				275
	CONTRACTOR TOTAL				541
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development -Explor D	400

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CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)				
SEMETEX CORP	California	NAVY	RDTE/Other Research & Development-Explor D	\$ 56
SILICON DESIGNS INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	180
SOCIETY OF AUTO ENGINEERS	Penn	ARMY	RDTE/Other Research & Development-Explor D	149
SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Other Research & Development-Explor D	50
SOUTHERN RESEARCH INSTITUTE	Alabama	NAVY	RDTE/Other Research & Development-Explor D	156
SPARTA INC	California	ARMY	RDTE/Other Research & Development-Explor D	489
SPECTRUM ENGINEERING	California	NAVY	RDTE/Other Research & Development-Explor D	50
SPIRE CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
S1 JOE MINERALS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Explor D	1,348
SUBSEA ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	80
SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Research & Development-Explor D	75
SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Research & Development-Explor D	231
SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	26
SYMBIOTECH INCORPORATED	Conn	NAVY	RDTE/Other Research & Development-Explor D	56
SYMBOTEC INC	Conn	ARMY	RDTE/Other Research & Development-Explor D	106
SYNETICS CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	56
SYSTEM DEVELOPMENT CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Explor D	52
TANNER RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Explor D	50
TECH RESEARCH GROUP INC	Rhode Isl	ARMY	RDTE/Other Research & Development-Explor D	81
TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	596
TERA COMPUTER CO	Washington	ARMY	RDTE/Other Research & Development-Explor D	1,786
TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Research & Development-Explor D	100
		USAF	RDTE/Other Research & Development-Explor D	49

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ12 (CONTINUED)

CONTRACTOR TOTAL		COUNTRY TOTAL	\$		
TEXAS INSTRUMENTS INCORPORATED		Texas	NAVY	RDTE/Other Research & Development-Explor D	149
TOYON RESEARCH CORP		California	NAVY	RDTE/Other Research & Development-Explor D	55
TRACER TECHNOLOGIES INC		Mass	NAVY	RDTE/Other Research & Development-Explor D	50
TRACOR AEROSPACE INC		Texas	NAVY	RDTE/Other Research & Development-Explor D	75
TRIDENT SYSTEMS INC		Virginia	NAVY	RDTE/Other Research & Development-Explor D	249
TRW INC		Virginia	ARMY	RDTE/Other Research & Development-Explor D	49
UNITED TECHNOLOGIES CORP		Conn	NAVY	RDTE/Other Research & Development-Explor D	770
		Florida	USAF	RDTE/Other Research & Development-Explor D	100
					150
					250
CONTRACTOR TOTAL					47
UNIVERSAL ENERGY SYSTEMS INC		Ohio	NAVY	RDTE/Other Research & Development-Explor D	64
UNIVERSITY OF CALIFORNIA		California	ARMY	RDTE/Other Research & Development-Explor D	625
UNIVERSITY OF CINCINNATI		Ohio	ARMY	RDTE/Other Research & Development-Explor D	2 435
UNIVERSITY OF ILLINOIS		Illinois	ARMY	RDTE/Other Research & Development-Explor D	80
UNIVERSITY OF MARYLAND		Maryland	NAVY	RDTE/Other Research & Development-Explor D	55
UNIVERSITY OF NEW MEXICO		New Mexico	ARMY	RDTE/Other Research & Development-Explor D	180
UNIVERSITY OF OKLAHOMA		Okla	ARMY	RDTE/Other Research & Development-Explor D	39
UNIVERSITY OF PUERTO RICO		Puer Rico	NAVY	RDTE/Other Research & Development-Explor D	50
UNIVERSITY OF TENNESSEE		Tennessee	ARMY	RDTE/Other Research & Development-Explor D	48
UTAH BIORESEARCH INC		Utah	NAVY	RDTE/Other Research & Development-Explor D	50
VEDA INCORPORATED		Maryland	NAVY	RDTE/Other Research & Development-Explor D	100
WAGNER DANIEL H ASSOCIATES		Virginia	NAVY	RDTE/Other Research & Development-Explor D	57
WALLACE T H INC		Florida	USAF	RDTE/Other Research & Development-Explor D	

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FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	WASHINGTON UNIVERSITY	Virginia	USAF	RDTE/Other Research & Development-Explor D	50
	WESTINGHOUSE ELECTRIC CORP	Missouri	USAF	RDTE/Other Research & Development-Explor D	107
		Penn	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	84 107 81
		COUNTRY TOTAL			188
	WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Other Research & Development-Explor D	45
	WOODWARD CLYDE CONSULTANTS	Colorado	ARMY	RDTE/Other Research & Development-Explor D	101
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Research & Development-Explor D	160
	WYLE LABORATORIES	California	USAF	RDTE/Other Research & Development-Explor D	80
	R&D TOTAL				70,192
AZ13	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Research & Development-Advanced	411
	ADVANCED TECHNOLOGY MTLs DEL	Conn	ARMY	RDTE/Other Research & Development-Advanced	97
	ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Research & Development-Advanced	265
	ANACAPA SCIENCES INC	California	NAVY	RDTE/Other Research & Development-Advanced	343
	ANALYTIC SCIENCES CORP THE	Florida	USAF	RDTE/Other Research & Development-Advanced	430
		Mass	NAVY	RDTE/Other Research & Development-Advanced	305
	CONTRACTOR TOTAL				735
	APPLIED SCIENCE ASSOCIATES	Penn	ARMY	RDTE/Other Research & Development-Advanced	119
	ARMAMENT SYSTEMS INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	68
	BALL CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	100
	BARR ASSOCIATES INCORPORATED	Mass	ARMY	RDTE/Other Research & Development-Advanced	470
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Other Research & Development-Advanced	2,419

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ13 (CONTINUED)					
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Advanced	\$ 250
	BOEING COMPANY THE	Penn	ARMY	RDTE/Other Research & Development-Advanced	540
	C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced	2 212
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Other Research & Development-Advanced	4 215
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Research & Development-Advanced	24 295
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced	35
	DAEDALEAN INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced	95
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Advanced	78
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Advanced	150
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Advanced	30
	ESSEX COMPUTER SERVICE INC	California	NAVY	RDTE/Other Research & Development-Advanced	30
	EXTREL CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Advanced	282
	FABEL SYS CORP	Florida	USAF	RDTE/Other Research & Development-Advanced	2 473
	FIBER MATERIALS INC	Arkansas	ARMY	RDTE/Other Research & Development-Advanced	41
		Mass	ARMY	RDTE/Other Research & Development-Advanced	149
	CONTRACTOR TOTAL				180
	FLUID SCIENCES INC	Penn	NAVY	RDTE/Other Research & Development-Advanced	48
	FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Other Research & Development-Advanced	309
	GENERAL ATOMICS	California	ARMY	RDTE/Other Research & Development-Advanced	1 120
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	640
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Other Research & Development-Advanced	823
	GEO CENTERS INC	Mass	NAVY	RDTE/Other Research & Development-Advanced	180
	GNB INCORPORATED	Penn	NAVY	RDTE/Other Research & Development-Advanced	670

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ13 (CONTINUED)

GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Research & Development-Advanced		
HONEYWELL INC	Minnesota	NAVY	RDTE/Other Research & Development-Advanced		1,270
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Advanced		225
	Minnesota	NAVY	RDTE/Other Research & Development-Advanced		145
CONTRACTOR TOTAL					409
HUMAN RESOURCES RESEARCH ORGANIZATION	Virginia	NAVY	RDTE/Other Research & Development-Advanced		554
I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Research & Development-Advanced		147
	Penn	USAF	RDTE/Other Research & Development-Advanced		37
CONTRACTOR TOTAL					50
I S T INC	Washington	NAVY	RDTE/Other Research & Development-Advanced		87
INTERNATIONAL BUSINESS MACHINES CORPORATION	New York	NAVY	RDTE/Other Research & Development-Advanced		3,869
JAYCOR	Virginia	ARMY	RDTE/Other Research & Development-Advanced		15,709
KANSAS STATE UNIVERSITY	Kansas	ARMY	RDTE/Other Research & Development-Advanced		151
KDI PRECISION PRODUCTS INC	Ohio	ARMY	RDTE/Other Research & Development-Advanced		25
LINEAR MEASUREMENTS INC	California	NAVY	RDTE/Other Research & Development-Advanced		2,405
LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Advanced		38
LOCKHEED MISSILES & SPACE CO	Alabama	USAF	RDTE/Other Research & Development-Advanced		805
	Texas	ARMY	RDTE/Other Research & Development-Advanced		842
CONTRACTOR TOTAL					2,535
LOGICON INC	California	ARMY	RDTE/Other Research & Development-Advanced		3,377
MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced		100
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Mass	NAVY	RDTE/Other Research & Development-Advanced		250
		USAF	RDTE/Other Research & Development-Advanced		30
					378,743

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AZ13 (CONTINUED)

		COUNTRY TOTAL		\$
MC DONNELL DOUGLAS CORPORATION	NAVY	California	RDTE/Other Research & Development-Advanced	378.773
MC DONNELL DOUGLAS HELICOPTER	ARMY	Arizona	RDTE/Other Research & Development-Advanced	170
MEDICAL SYSTEMS SUPPORT INC	ARMY	Virginia	RDTE/Other Research & Development-Advanced	190
MSNW INC	ARMY	California	RDTE/Other Research & Development-Advanced	93
O A O CORPORATION	NAVY	Maryland	RDTE/Other Research & Development-Advanced	55
OLIN CORPORATION	ARMY	Conn	RDTE/Other Research & Development-Advanced	200
OPTICS ONE INC	NAVY	California	RDTE/Other Research & Development-Advanced	835
ORINCON CORPORATION	NAVY	California	RDTE/Other Research & Development-Advanced	49
P R B ASSOCIATES INC	NAVY	Maryland	RDTE/Other Research & Development-Advanced	295
PATHFINDER SOFTWARE INC	NAVY	Colorado	RDTE/Other Research & Development-Advanced	50
R & D ASSOCIATES	USAF	California	RDTE/Other Research & Development-Advanced	224
RAYTHEON SERVICE COMPANY	ARMY	New Mexico	RDTE/Other Research & Development-Advanced	147
RGI INCORPORATED	NAVY	Virginia	RDTE/Other Research & Development-Advanced	478
S T RESEARCH CORPORATION	NAVY	Virginia	RDTE/Other Research & Development-Advanced	159
S T SYSTEMS CORPORATION	USAF	D C	RDTE/Other Research & Development-Advanced	100
SACHS FREEMAN ASSOCIATES INC	NAVY	D C	RDTE/Other Research & Development-Advanced	85
SCHONSTEDT INSTRUMENT CO	NAVY	Virginia	RDTE/Other Research & Development-Advanced	1 578
SCIENCE & ENGINEERING ASSOC	ARMY	New Mexico	RDTE/Other Research & Development-Advanced	65
SCIENCE APPLICATIONS INTL CORP	ARMY	California	RDTE/Other Research & Development-Advanced	48
	NAVY	Florida	RDTE/Other Research & Development-Advanced	240
				173
				413
CONTRACTOR TOTAL				418
SIMULASER CORPORATION	NAVY	California	RDTE/Other Research & Development-Advanced	

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Contract and Development
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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Other Research & Development-Advanced	46
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Advanced	52
	SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	1,249
	SUNREZ CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	74
	SYSCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	714
	TECOLOTE RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Advanced	214
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Other Research & Development-Advanced	200
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other Research & Development-Advanced	97
	TG BAUER ASS	Virginia	NAVY	RDTE/Other Research & Development-Advanced	2,841
	THERMACORE INC	Penn	USAF	RDTE/Other Research & Development-Advanced	246
	THERMEDICS INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	252
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Advanced	367
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Other Research & Development-Advanced	550
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Advanced	130
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Advanced	4,634
			USAF	RDTE/Other Research & Development-Advanced	1,568
	COUNTRY TOTAL				6,202
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Advanced	80
			NAVY	RDTE/Other Research & Development-Advanced	40
	COUNTRY TOTAL				120
	WYLE LABORATORIES	California	USAF	RDTE/Other Research & Development-Advanced	145
	R&D TOTAL				470,436
AZ14	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Other Research & Development-Engr Dev	217
	ADVANCED MECHANICAL TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	151

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ14 (CONTINUED)					
	ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	\$ 180
	BAND LAVIS & ASSOCIATES INC	Maryland	NAVY	RDTE/Cther Research & Development-Engr Dev	149
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Other Research & Development-Engr Dev	220
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	233
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Research & Development-Engr Dev	3,221
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	4,442
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	2,397
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	250
	E M I TECHNOLOGIES INC	New Mexico	USAF	RDTE/Other Research & Development-Engr Dev	56
	ELECTROSPACE SYSTEMS INC	Virg.nia	ARMY	RDTE/Other Research & Development-Engr Dev	4,107
	ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Other Research & Development-Engr Dev	1,730
	ESSEX CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	57
	FEMME COMP INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	3,373
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Engr Dev	44
	GENERAL ELECTRIC CO	Penn	ARMY	RDTE/Other Research & Development-Engr Dev	314
	GEORGIA STATE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Engr Dev	76
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Research & Development-Engr Dev	1,300
	HOKENSON COMPANY	California	USAF	RDTE/Other Research & Development-Engr Dev	260
	HUGHES AIRCRAFT COMPANY	Arizona	NAVY	RDTE/Other Research & Development-Engr Dev	181
		California	USAF	RDTE/Other Research & Development-Engr Dev	220
					401
	CONTRACTOR TOTAL				
	INCOSYM INC	California	USAF	RDTE/Other Research & Development-Engr Dev	42-
	K C RESEARCH	Colorado	NAVY	RDTE/Other Research & Development-Engr Dev	49

Approved By: [Signature] [Name]
 [Title]
 [Date]

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ14 (CONTINUED)					
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Engr Dev	\$ 61
	MARITIME DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	9
	MC DONNE-L DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Engr Dev	384
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Research & Development-Engr Dev	1 525
	MITRE CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	381 144
	MULTIHULL DEVELOPMENT ASSOC	California	NAVY	RDTE/Other Research & Development-Engr Dev	78
	ORION INTL TECHNOLOGIES	New Mexico	ARMY	RDTE/Other Research & Development-Engr Dev	841
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	69
	PHELAN COMPUTING INC	California	NAVY	RDTE/Other Research & Development-Engr Dev	40
	QUICK REACTION CORP	California	NAVY	RDTE/Other Research & Development-Engr Dev	259
	RUPPRECHT & PATASHNICK CO INC	New York	ARMY	RDTE/Other Research & Development-Engr Dev	250
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Research & Development-Engr Dev	427
		Florida	NAVY	RDTE/Other Research & Development-Engr Dev	11
	CONTRACTOR TOTAL				108
	SCIENTIFIC TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	305
	SIGMA RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	118
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	258
	TACAN CORPORATION	California	ARMY	RDTE/Other Research & Development-Engr Dev	250
	TEXAS RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Research & Development-Engr Dev	97
	TITAN SYSTEMS INC	GERMANY	ARMY	RDTE/Other Research & Development-Engr Dev	838
	TRW INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	370
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	86
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	370

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)					
	VEDA INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Engr Dev	384
	WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development-Engr Dev	46
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	377
			USAF	RDTE/Other Research & Development-Engr Dev	24 914
	COUNTRY TOTAL				25 291
	XETRON CORPORATION	Ohio	USAF	RDTE/Other Research & Development-Engr Dev	267
	R&D TOTAL				437 426
AZ15	AGFA COMPUGRAPHIC CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Op Sys D	77
	ATOM SCIENCES INC	Tennessee	USAF	RDTE/Other Research & Development-Op Sys D	198
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Op Sys D	143
	BDM CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	104
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development-Op Sys D	240
	BOOZ ALLEN & HAMILTON INC	D C	ARMY	RDTE/Other Research & Development-Op Sys D	192
	CAS INC	Alabama	ARMY	RDTE/Other Research & Development-Op Sys D	279
	CHEMICAL DELIVERY SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Op Sys D	50
	COE-TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Other Research & Development-Op Sys D	171
	CONSULTANTS CHOICE INC	Georgia	ARMY	RDTE/Other Research & Development-Op Sys D	163
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Op Sys D	42
	GENERAL RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Op Sys D	30
	GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Other Research & Development-Op Sys D	90
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Op Sys D	4 150
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Other Research & Development-Op Sys D	53 252
		New York	USAF	RDTE/Other Research & Development-Op Sys D	385

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AZ15 (CONTINUED)

CONTRACTOR TOTAL				\$
KETRON INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	53,758
LOCKHEED ELECTRONICS CO	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	893
LOGISTICS MGT INSTITUTE	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	12,917
MANDEX INC	Arizona	ARMY	RDTE/Other Research & Development-Op Sys D	16,321
MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Op Sys D	1,332
MICRION CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Op Sys D	149
NEW HAMPSHIRE UNIVERSITY SYS	N. H.	ARMY	RDTE/Other Research & Development-Op Sys D	1,340
OFFICE OF THE FUTURE INC	New Jersey	ARMY	RDTE/Other Research & Development-Op Sys D	39
OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Research & Development-Op Sys D	640
OVERLOOK SYSTEMS TECHNOLOGIES	Virginia	USAF	RDTE/Other Research & Development-Op Sys D	96
P E I ASSOCIATES INC	Alabama	ARMY	RDTE/Other Research & Development-Op Sys D	576
PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Op Sys D	68
PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Op Sys D	476
R J O ENTERPRISES INC	Mass	ARMY	RDTE/Other Research & Development-Op Sys D	142
RAYTHEON COMPANY	Mass	USAF	RDTE/Other Research & Development-Op Sys D	173
RESOURCE MANAGEMENT INTL	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	5,450
S T SYSTEMS CORPORATION	D C	ARMY	RDTE/Other Research & Development-Op Sys D	40
SPEX INDUSTRIES INC	New Jersey	USAF	RDTE/Other Research & Development-Op Sys D	102
STRUCTURAL INTEGRITY ASSOC INC	California	NAVY	RDTE/Other Research & Development-Op Sys D	36
SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	46
UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Op Sys D	421
	Florida	NAVY	RDTE/Other Research & Development-Op Sys D	425
		ARMY	RDTE/Other Research & Development-Op Sys D	1,296

Approved by: [Signature]
 Date: [Date]
 Title: [Title]

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$

AZ15 (CONTINUED)

CONTRACTOR TOTAL					\$ 1 821
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Research & Development-Op Sys D		25
WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development-Op Sys D		147
WAYNE STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Research & Development-Op Sys D		39
WOODS HOLE OCEANOGRAPHIC INSTITUTE	Mass	NAVY	RDTE/Other Research & Development-Op Sys D		473
R&D TOTAL					102 432
AZ16 A P A OPTICS INC	Minnesota	ARMY	RDTE/Other Research & Development-Mgmt & S		200
A T S INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		49
ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		98
ADVANCE SYSTEMS TECHNOLOGY	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S		30
ADVANCED RESOURCE DEV CORP	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S		49
ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Research & Development-Mgmt & S		461
ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		121
AERON CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S		417
AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S		492
ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S		39
ALPHATECH INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S		49
AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		49
AMERICAN SYSTEMS ENGRG CORP	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		67
AMPARO CORPORATION	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S		42
ANALYSIS & SIMULATION INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S		242
ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S		771
ANALYTICAL SOFTWARE INC	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S		46

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 67
	CONTRACTOR TOTAL				400
	APTEK INC	Colorado	USAF	RDTE/Other Research & Development-Mgmt & S	467
	ARKLINE RESEARCH	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	49
	ATLANTIC RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	54
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	97
	AUTOMATED DYNAMICS CORP	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	90
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	246
	BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	170
	BATTERY INTERNATIONAL INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	46
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	55
	BELTRAN ASSOCIATES INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	2,061
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Mgmt & S	49
	C CUBED CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	289
	CACI INC	N Carolina	ARMY	RDTE/Other Research & Development-Mgmt & S	111
	CACI INC PRODUCTS CO	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	294
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	87
	CONTRACTOR TOTAL				77
	CAMBRIDGE HYDRO-DYNAMICS INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	51,776
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Other Research & Development-Mgmt & S	51,853
	CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	48
					250
					61

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AZ16 (CONTINUED)

Company Name	State	Agency	Activity	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	FY 2044	FY 2045	FY 2046	FY 2047	FY 2048	FY 2049	FY 2050	FY 2051	FY 2052	FY 2053	FY 2054	FY 2055	FY 2056	FY 2057	FY 2058	FY 2059	FY 2060	FY 2061	FY 2062	FY 2063	FY 2064	FY 2065	FY 2066	FY 2067	FY 2068	FY 2069	FY 2070	FY 2071	FY 2072	FY 2073	FY 2074	FY 2075	FY 2076	FY 2077	FY 2078	FY 2079	FY 2080	FY 2081	FY 2082	FY 2083	FY 2084	FY 2085	FY 2086	FY 2087	FY 2088	FY 2089	FY 2090	FY 2091	FY 2092	FY 2093	FY 2094	FY 2095	FY 2096	FY 2097	FY 2098	FY 2099	FY 2100	FY 2101	FY 2102	FY 2103	FY 2104	FY 2105	FY 2106	FY 2107	FY 2108	FY 2109	FY 2110	FY 2111	FY 2112	FY 2113	FY 2114	FY 2115	FY 2116	FY 2117	FY 2118	FY 2119	FY 2120	FY 2121	FY 2122	FY 2123	FY 2124	FY 2125	FY 2126	FY 2127	FY 2128	FY 2129	FY 2130	FY 2131	FY 2132	FY 2133	FY 2134	FY 2135	FY 2136	FY 2137	FY 2138	FY 2139	FY 2140	FY 2141	FY 2142	FY 2143	FY 2144	FY 2145	FY 2146	FY 2147	FY 2148	FY 2149	FY 2150	FY 2151	FY 2152	FY 2153	FY 2154	FY 2155	FY 2156	FY 2157	FY 2158	FY 2159	FY 2160	FY 2161	FY 2162	FY 2163	FY 2164	FY 2165	FY 2166	FY 2167	FY 2168	FY 2169	FY 2170	FY 2171	FY 2172	FY 2173	FY 2174	FY 2175	FY 2176	FY 2177	FY 2178	FY 2179	FY 2180	FY 2181	FY 2182	FY 2183	FY 2184	FY 2185	FY 2186	FY 2187	FY 2188	FY 2189	FY 2190	FY 2191	FY 2192	FY 2193	FY 2194	FY 2195	FY 2196	FY 2197	FY 2198	FY 2199	FY 2200	FY 2201	FY 2202	FY 2203	FY 2204	FY 2205	FY 2206	FY 2207	FY 2208	FY 2209	FY 2210	FY 2211	FY 2212	FY 2213	FY 2214	FY 2215	FY 2216	FY 2217	FY 2218	FY 2219	FY 2220	FY 2221	FY 2222	FY 2223	FY 2224	FY 2225	FY 2226	FY 2227	FY 2228	FY 2229	FY 2230	FY 2231	FY 2232	FY 2233	FY 2234	FY 2235	FY 2236	FY 2237	FY 2238	FY 2239	FY 2240	FY 2241	FY 2242	FY 2243	FY 2244	FY 2245	FY 2246	FY 2247	FY 2248	FY 2249	FY 2250	FY 2251	FY 2252	FY 2253	FY 2254	FY 2255	FY 2256	FY 2257	FY 2258	FY 2259	FY 2260	FY 2261	FY 2262	FY 2263	FY 2264	FY 2265	FY 2266	FY 2267	FY 2268	FY 2269	FY 2270	FY 2271	FY 2272	FY 2273	FY 2274	FY 2275	FY 2276	FY 2277	FY 2278	FY 2279	FY 2280	FY 2281	FY 2282	FY 2283	FY 2284	FY 2285	FY 2286	FY 2287	FY 2288	FY 2289	FY 2290	FY 2291	FY 2292	FY 2293	FY 2294	FY 2295	FY 2296	FY 2297	FY 2298	FY 2299	FY 2300	FY 2301	FY 2302	FY 2303	FY 2304	FY 2305	FY 2306	FY 2307	FY 2308	FY 2309	FY 2310	FY 2311	FY 2312	FY 2313	FY 2314	FY 2315	FY 2316	FY 2317	FY 2318	FY 2319	FY 2320	FY 2321	FY 2322	FY 2323	FY 2324	FY 2325	FY 2326	FY 2327	FY 2328	FY 2329	FY 2330	FY 2331	FY 2332	FY 2333	FY 2334	FY 2335	FY 2336	FY 2337	FY 2338	FY 2339	FY 2340	FY 2341	FY 2342	FY 2343	FY 2344	FY 2345	FY 2346	FY 2347	FY 2348	FY 2349	FY 2350	FY 2351	FY 2352	FY 2353	FY 2354	FY 2355	FY 2356	FY 2357	FY 2358

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DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AZ16 (CONTINUED)					
	FAILURE ANALYSIS ASSOCIATES	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	52
	FOSTER MILLER INC	Mass	ARMY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	69 63
	COUNTRY TOTAL				132
	GEOMET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	272
	GEORGIA TECH RESEARCH INST	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	180
	GINER INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	57
	GUPTA PRADEEP K INC	New York	USAF	RDTE/Other Research & Development-Mgmt & S	49
	HADLOCK FRANK & ASSOCIATES	Tennessee	NAVY	RDTE/Other Research & Development-Mgmt & S	49
	HAMPTON UNIVERSITY	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	129
	HARRIS GROUP THE INC	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S	50
	HILTON SYSTEMS INC	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S	284
	HONEYWELL INC	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	35
	HUGHES ASSOCIATES INC	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S	400
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S	66
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Mgmt & S	1,356
	IMAGINATION WORKS THE	California	NAVY	RDTE/Other Research & Development-Mgmt & S	44
	INTEGRATED CHMICAL SENSORS CORP	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	100
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Other Research & Development-Mgmt & S	107
	ISM TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	K S E INC	Mass	ARMY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	229 50
	COUNTRY TOTAL				279
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	300

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION

AZ16 (CONTINUED)

LASER SCIENCE INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	330
LASERGENICS CORPORATION	California	USAF	RDTE/Other Research & Development-Mgmt & S	44
LEHRER PEARSON INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	92
LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Other Research & Development-Mgmt & S	106
LOGISTICS MANAGEMENT ENGRG	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	355
LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development-Mgmt & S	68
LUXTRON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	51
M L ENERGIA INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	50
M P D INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	274
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	50
MANAGEMENT & PERSONNEL SYSTEM	California	ARMY	RDTE/Other Research & Development-Mgmt & S	29
MARTIN GOFFMAN ASSOC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	49
MEADOWLARK OPTICS INC	Colorado	USAF	RDTE/Other Research & Development-Mgmt & S	50
METROLASER	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Other Research & Development-Mgmt & S	94
MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S	546
NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	315
OMNI ANALYSIS INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	250
OPTIMA SYSTEMS INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	300
OPTRA INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	48
ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	1 207
ORLANDO TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S	55
PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Research & Development-Mgmt & S	50

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	

AZ16 (CONTINUED)

PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	\$	107
PRINCETON SCIENTIFIC INSTRS	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S		147
PROPULSION SCIENCES CO	New York	USAF	RDTE/Other Research & Development-Mgmt & S		49
Q DOT INC	Colorado	ARMY	RDTE/Other Research & Development-Mgmt & S		275
QUANTUM DESIGN INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S		441
QUEST RESEARCH CORPORATION	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		99
REFRACTORY COMPOSITES INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		49
S C S TELECOM INC	New York	NAVY	RDTE/Other Research & Development-Mgmt & S		49
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S		50
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		6,259
SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Mgmt & S		200
		USAF	RDTE/Other Research & Development-Mgmt & S		83
	COUNTRY TOTAL				283
SEB ENG INC	Minnesota	USAF	RDTE/Other Research & Development-Mgmt & S		57
SENSORS HAWAII INC	Hawaii	USAF	RDTE/Other Research & Development-Mgmt & S		41
SEPARATION INDUSTRIES	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S		52
SIMULA INC	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S		161
		USAF	RDTE/Other Research & Development-Mgmt & S		148
	COUNTRY TOTAL				309
CONTRACTOR TOTAL					359
SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Other Research & Development-Mgmt & S		50
SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S		277
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		120

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AZ16 (CONTINUED)						
	SOUTHWEST SCIENCES INC	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	\$	50
	SPARTA INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S		331
			USAF	RDTE/Other Research & Development-Mgmt & S		49
		COUNTRY TOTAL				380
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Mgmt & S		127
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	NAVY	RDTE/Other Research & Development-Mgmt & S		66
	SVERDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S		54 892
	SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		50
	TANNER RESEARCH INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		73
	TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		96
	TECUMSEH PRODUCTS COMPANY	California	ARMY	RDTE/Other Research & Development-Mgmt & S		51
	TEKTRONIX INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		94
	TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	THOMPSON ALUMINUM CASTING CO	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	TRANSDUCER RESEARCH INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S		329
	TYBRIN CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		383
	U S COMPOSITES CORP	New York	USAF	RDTE/Other Research & Development-Mgmt & S		50
	ULTRAMET	California	USAF	RDTE/Other Research & Development-Mgmt & S		49
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		500
	UNIVERSAL SENSORS INC	Louisiana	USAF	RDTE/Other Research & Development-Mgmt & S		50
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S		75
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Mgmt & S		83
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Mgmt & S		104

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)				
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 126
VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	86
XERAD INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	46
R&D TOTAL				147,247
GRAND TOTAL FOR R&D				\$ 23,206,080