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Service Category by Company. Part-1 (AA35-AZ-16)

Washington Headquarters Services (DOD) Directorate for
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Unclassified

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

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AA35	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Agriculture Production-Op Systems Dev	\$ 166-
AB15	TEST SYSTEMS INC	N.H.	ARMY	RDTE/Crime Prevention & Control-Op Systems	53
AB91	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Community Svcs & Develop-Basic	1,100
AB92	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Other Community Svcs & Develop-Explor	100
	TEACHING STRATEGIES INC	D.C.	ARMY	RDTE/Other Community Svcs & Develop-Explor	25
	R&D TOTAL				125
AC11	ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Aircraft-Basic Research	50
	AEROVIRONMENT INC	California	NAVY	RDTE/Aircraft-Basic Research	250
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Aircraft-Basic Research	385
	ARETE TECHNOLOGIES INC	Mass	NAVY	RDTE/Aircraft-Basic Research	45
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Basic Research	305
	BRUSH WELLMAN INC	Ohio	NAVY	RDTE/Aircraft-Basic Research	150
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Aircraft-Basic Research	95
	CFD RESEARCH CORPORATION	Alabama	NAVY	RDTE/Aircraft-Basic Research	49
	DAEDALUS RESEARCH INC	Utah	NAVY	RDTE/Aircraft-Basic Research	103
	DECEL INC	Florida	NAVY	RDTE/Aircraft-Basic Research	55
	DYMAFLOW INC	Maryland	NAVY	RDTE/Aircraft-Basic Research	50
	ELECTROSPACE SYSTEMS INC	Florida	USAF	RDTE/Aircraft-Basic Research	40
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Aircraft-Basic Research	1,247
	GENERAL ELECTRIC COMPANY	Ohio	ARMY NAVY	RDTE/Aircraft-Basic Research RDTE/Aircraft-Basic Research	133 161
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Basic Research	294
	METROLASER	California	NAVY	RDTE/Aircraft-Basic Research	1,665-
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Aircraft-Basic Research	50
	NATIONAL ACADEMY SCIENCES USA	Penn	NAVY	RDTE/Aircraft-Basic Research	154
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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-		\$
AC11	(CONTINUED)					
	OPTRA INC	Mass	NAVY	RDTE/Aircraft-Basic Research		50
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Aircraft-Basic Research		63
	SIPIN ANATOLE J CO INC	New York	ARMY	RDTE/Aircraft-Basic Research		146
	SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Aircraft-Basic Research		54
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Basic Research		250
		Florida	NAVY	RDTE/Aircraft-Basic Research		73
	CONTRACTOR TOTAL					323
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Basic Research		263
	R&D TOTAL					2,594
AC12	A A I CORPORATION	Maryland	ARMY	RDTE/Aircraft-Exploratory Development		3,399
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Aircraft-Exploratory Development		41
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development		50
	AEROMETRICS INC	California	NAVY	RDTE/Aircraft-Exploratory Development		46
	AIRCRAFT POROUS MEDIA INC	Florida	ARMY	RDTE/Aircraft-Exploratory Development		118
	ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development		229
			USAF	RDTE/Aircraft-Exploratory Development		48-
	STATE TOTAL					181
	ANACAPA SCIENCES INC	Alabama	ARMY	RDTE/Aircraft-Exploratory Development		555
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Aircraft-Exploratory Development		53
	AVCO CORPORATION	Conn	NAVY	RDTE/Aircraft-Exploratory Development		400
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		495
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Exploratory Development		8,475
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Exploratory Development		99
	BRISTOW HELICOPTER LIMITED	UNITED KIN	ARMY	RDTE/Aircraft-Exploratory Development		114

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R&D	CONTRACTOR NAME	ST/CONTRY	DPT	R&D DESCRIPTION	

AC12 (CONTINUED)

BURNETTE ENGINEERING	Ohio	USAF	RDTE/Aircraft-Exploratory Development		\$ 75
CALSPAN CORPORATION	Ohio	USAF	RDTE/Aircraft-Exploratory Development		1,069
CRITICAL SOFTWARE SYSTEMS	California	NAVY	RDTE/Aircraft-Exploratory Development		72
DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		353
DOUGLAS AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Exploratory Development		30
DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		395
DUCHOSSOIS ENTERPRISES INC	Tennessee	NAVY	RDTE/Aircraft-Exploratory Development		80
DYNAMIC ENGINEERING INC	Virginia	ARMY	RDTE/Aircraft-Exploratory Development		74
GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Aircraft-Exploratory Development		131
		NAVY	RDTE/Aircraft-Exploratory Development		1,490
	STATE TOTAL				1,621
	Ohio	NAVY	RDTE/Aircraft-Exploratory Development		1,092
					2,713
CONTRACTOR TOTAL					
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Exploratory Development		174
H R TEXTRON INC	California	NAVY	RDTE/Aircraft-Exploratory Development		1,540
HONEYWELL INC	Minnesota	NAVY	RDTE/Aircraft-Exploratory Development		472
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Exploratory Development		664
I I T RESEARCH INSTITUTE	Illinois	NAVY	RDTE/Aircraft-Exploratory Development		70
INTERNATIONAL FUEL CELLS CORP	Conn	NAVY	RDTE/Aircraft-Exploratory Development		311
LASER SCIENCE INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development		51
LASER SYSTEMS & RSCH CORP	California	NAVY	RDTE/Aircraft-Exploratory Development		76
LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Exploratory Development		415
LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development		138
LOUISIANA TECH UNIVERSITY	Louisiana	NAVY	RDTE/Aircraft-Exploratory Development		30

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC12 (CONTINUED)					
	MAIN LINE WAVES INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	60
	MARKO MATERIALS INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development	38
	MARMON MOTOR COMPANY	Texas	ARMY	RDTE/Aircraft-Exploratory Development	45
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Aircraft-Exploratory Development	100
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	30
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Exploratory Development	171
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	86
	NORTH CAROLINA A&T UNIV	N Carolina	NAVY	RDTE/Aircraft-Exploratory Development	50
	NORTHROP CORPORATION	California	ARMY	RDTE/Aircraft-Exploratory Development	25-
	RAYTHEON COMPANY	California	USAF	RDTE/Aircraft-Exploratory Development	50-
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	104
	SCIDMORE & SHEAN	New York	ARMY	RDTE/Aircraft-Exploratory Development	88
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Exploratory Development	509
	SELF CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	50
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Aircraft-Exploratory Development	80
	SPARTA INC	Alabama	NAVY	RDTE/Aircraft-Exploratory Development	49
	SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Aircraft-Exploratory Development	180
	UNITED TECHNOLOGIES CORP	Conn	ARMY NAVY	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	251 2,410
	STATE TOTAL				2,661
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Exploratory Development	518
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	195
	R&D TOTAL				27,767
	AC13 AAR BROOKS & PERKINS CORP	New York	ARMY	RDTE/Aircraft-Advanced Development	200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC13 (CONTINUED)					
	ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Aircraft-Advanced Development	\$ 100
	AEROJET	California	NAVY	RDTE/Aircraft-Advanced Development	120
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Advanced Development	1,105
	ALLIED SIGNAL INC	Arizona	USAF	RDTE/Aircraft-Advanced Development	928
	AMERICAN OPTICAL CORPORATION	Mass	USAF	RDTE/Aircraft-Advanced Development	573
	ANAREN MICROWAVE INC	New York	USAF	RDTE/Aircraft-Advanced Development	150
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Aircraft-Advanced Development	8,048
	AVCO CORPORATION	Conn	ARMY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	1,957 492
		STATE TOTAL			2,449
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Aircraft-Advanced Development	100
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Advanced Development	27-
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Aircraft-Advanced Development	70
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Advanced Development	246,707
	BOEING COMPANY THE	Alabama	ARMY	RDTE/Aircraft-Advanced Development	106-
		Washington	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	947 712
		STATE TOTAL			1,659
	CONTRACTOR TOTAL				1,553
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Aircraft-Advanced Development	975
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Aircraft-Advanced Development	71
	CENTURY COMPUTING INC	Maryland	USAF	RDTE/Aircraft-Advanced Development	164
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	245
	CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	226
	CREARE INC	N.H.	USAF	RDTE/Aircraft-Advanced Development	62

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AC13 (CONTINUED)					
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Aircraft-Advanced Development	150
	ELDEC CORPORATION	Washington	ARMY	RDTE/Aircraft-Advanced Development	107
	FORTEX CORP	New York	USAF	RDTE/Aircraft-Advanced Development	100
	FROST ENGINEERING DEVELOPMENT	Colorado	NAVY	RDTE/Aircraft-Advanced Development	59
	G E C AVIONICS LTD	UNITED KIN	USAF	RDTE/Aircraft-Advanced Development	38
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	364
		Texas	USAF	RDTE/Aircraft-Advanced Development	24,291
	CONTRACTOR TOTAL				24,655
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Aircraft-Advanced Development	1,957
			NAVY	RDTE/Aircraft-Advanced Development	240
			USAF	RDTE/Aircraft-Advanced Development	2,451
	STATE TOTAL				4,648
		Ohio	USAF	RDTE/Aircraft-Advanced Development	187,614
	CONTRACTOR TOTAL				192,262
	GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Aircraft-Advanced Development	4,638
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	1,685
	HONEYWELL INC	Minnesota	USAF	RDTE/Aircraft-Advanced Development	516
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	1,818
	LITTON SYSTEMS INC	Iowa	NAVY	RDTE/Aircraft-Advanced Development	58
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Advanced Development	27,847
	LOCKHEED CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	177,893
		Georgia	USAF	RDTE/Aircraft-Advanced Development	16,750
	CONTRACTOR TOTAL				194,643
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Aircraft-Advanced Development	330
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Advanced Development	71

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AC13 (CONTINUED)						
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Advanced Development	\$	23,440
	NASP NATIONAL CONTRACTOR TEAM	California	USAF	RDTE/Aircraft-Advanced Development		23,511
	NORMALAIR GARRETT LTD	UNITED KIN	NAVY	RDTE/Aircraft-Advanced Development		13,625
	NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development		102,803
	PIASECKI AIRCRAFT CORP	Penn	ARMY	RDTE/Aircraft-Advanced Development		329
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Advanced Development		145,552
		Oklahoma	USAF	RDTE/Aircraft-Advanced Development		2,172
			USAF	RDTE/Aircraft-Advanced Development		18,757
			USAF	RDTE/Aircraft-Advanced Development		1,370
	CONTRACTOR TOTAL					20,127
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Advanced Development		2,717
	SEMCOR INC	New Jersey	NAVY	RDTE/Aircraft-Advanced Development		2,536
	SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Aircraft-Advanced Development		49
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development		2,174
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Aircraft-Advanced Development		878
	TRW INC	California	USAF	RDTE/Aircraft-Advanced Development		25
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Aircraft-Advanced Development		386
	CONTRACTOR TOTAL	Florida	USAF	RDTE/Aircraft-Advanced Development		261,216
	VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Advanced Development		261,602
		Virginia	NAVY	RDTE/Aircraft-Advanced Development		1,472
	CONTRACTOR TOTAL					177
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Advanced Development		1,649
	R&D TOTAL					500
						1,292,974

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC14	AEROSTRUCTURES INC	Virginia	NAVY	RDTE/Aircraft-Engineering Development	\$ 3,165
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Engineering Development	4,200
		California	ARMY	RDTE/Aircraft-Engineering Development	
	CONTRACTOR TOTAL				4,200
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Aircraft-Engineering Development	843
		California	NAVY	RDTE/Aircraft-Engineering Development	293-
	CONTRACTOR TOTAL				550
	ALLOY SURFACES CO	Delaware	USAF	RDTE/Aircraft-Engineering Development	120
	BELL BOEING JV	Penn	NAVY	RDTE/Aircraft-Engineering Development	133
		Texas	NAVY	RDTE/Aircraft-Engineering Development	189,981
	CONTRACTOR TOTAL				190,114
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Engineering Development	5,010
			NAVY	RDTE/Aircraft-Engineering Development	237
	CONTRACTOR TOTAL				5,247
	BOEING COMPANY THE	Alabama	USAF	RDTE/Aircraft-Engineering Development	6,820
		Washington	USAF	RDTE/Aircraft-Engineering Development	55,259
	CONTRACTOR TOTAL				62,079
	BROWN DAYTON T INC	New York	NAVY	RDTE/Aircraft-Engineering Development	360
	CACI INC	Virginia	NAVY	RDTE/Aircraft-Engineering Development	240
	CAE-LINK CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development	7,200
	CAS INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development	5,105
	CENTURY COMPUTING INC	Maryland	USAF	RDTE/Aircraft-Engineering Development	96
		Ohio	USAF	RDTE/Aircraft-Engineering Development	50
	CONTRACTOR TOTAL				146
	CHADWICK HELMUTH CO INC	California	ARMY	RDTE/Aircraft-Engineering Development	111
	CHRYSLER TECHNOLOGIES ARBRN SY	Texas	USAF	RDTE/Aircraft-Engineering Development	4,152

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC14 (CONTINUED)

CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Aircraft-Engineering Development	\$	175
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Aircraft-Engineering Development		1,635
CONAX CORPORATION	Florida	USAF	RDTE/Aircraft-Engineering Development		100
DELFIN SYSTEMS	California	NAVY	RDTE/Aircraft-Engineering Development		232
E SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development		34-
ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Engineering Development		20,418
ENGINEERING & ECONOMICS RES	W Virginia	NAVY	RDTE/Aircraft-Engineering Development		8,400
FAIRCHILD INDUSTRIES INC	Maryland	USAF	RDTE/Aircraft-Engineering Development		4,689
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development		28
	Texas	USAF	RDTE/Aircraft-Engineering Development		19,200
CONTRACTOR TOTAL					19,228
GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Aircraft-Engineering Development		4,000
	New Jersey	NAVY	RDTE/Aircraft-Engineering Development		423
	Ohio	NAVY	RDTE/Aircraft-Engineering Development		446
		USAF	RDTE/Aircraft-Engineering Development		76,603
CONTRACTOR TOTAL					77,049
GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Engineering Development		81,472
GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Aircraft-Engineering Development		29,786
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Engineering Development		1,494
HARRIS GROUP THE INC	Virginia	USAF	RDTE/Aircraft-Engineering Development		115,852
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Engineering Development		166
HUGHES TRAINING SYS INC	Texas	USAF	RDTE/Aircraft-Engineering Development		12,075
INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Aircraft-Engineering Development		9,500
					21,262

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AC14 (CONTINUED)					
	J W K INTERNATIONAL CORP	Virginia	USAF	RDTE/Aircraft-Engineering Development	128
	LIGHT HELICOPTER TURBINE ENG	Missouri	ARMY	RDTE/Aircraft-Engineering Development	36,015
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Engineering Development	80,367
	LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development	80,138-
		N.H.	USAF	RDTE/Aircraft-Engineering Development	371
	CONTRACTOR TOTAL				79,767-
	LOGISTICS MANAGEMENT ENGRG	Penn	NAVY	RDTE/Aircraft-Engineering Development	77
	LUCAS AROSPACE PWR TRANSM CORP	New York	ARMY	RDTE/Aircraft-Engineering Development	
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development	1,584
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development	442,716
		Kansas	USAF	RDTE/Aircraft-Engineering Development	372
		Missouri	NAVY	RDTE/Aircraft-Engineering Development	176,389
			USAF	RDTE/Aircraft-Engineering Development	7,096
	STATE TOTAL				183,485
	CONTRACTOR TOTAL				626,573
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Engineering Development	52,185
	MCDONNELL DOUGLAS MSL SYS CO	Florida	USAF	RDTE/Aircraft-Engineering Development	431
	MCDONNELL DOUGLAS TRNING SYS	Oklahoma	USAF	RDTE/Aircraft-Engineering Development	9,495
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Aircraft-Engineering Development	124
	PEMCO AEROPLEX INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development	44
	PPG INDUSTRIES INC	Alabama	USAF	RDTE/Aircraft-Engineering Development	54
	REFLECTONE INC	Florida	USAF	RDTE/Aircraft-Engineering Development	208
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Engineering Development	34,578
		Georgia	ARMY	RDTE/Aircraft-Engineering Development	364

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AC14 (CONTINUED)

CONTRACTOR TOTAL					\$	34,942
	ROTOR DYNAMICS AMERICAS INC	Texas	ARMY	RDTE/Aircraft-Engineering Development		225
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Engineering Development		227
	SCIENTIFIC MGT ASSOCIATES	Maryland	NAVY	RDTE/Aircraft-Engineering Development		701
	SUPPORT SYSTEMS ASSOCIATES	New York	USAF	RDTE/Aircraft-Engineering Development		1,739
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Aircraft-Engineering Development		248
	THIokol CORPORATION	Utah	USAF	RDTE/Aircraft-Engineering Development		333
	TRACOR APPLIED SCIENCES INC	California	USAF	RDTE/Aircraft-Engineering Development		825
	TRW INC	California	USAF	RDTE/Aircraft-Engineering Development		1,763
	UNITED TECHNOLOGIES CORP	Conn	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development		11,758 100
	STATE TOTAL					11,858
		Florida	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development		8,459 136,476
	STATE TOTAL					144,935
						156,793
CONTRACTOR TOTAL						690
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Engineering Development		1,144
	VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Engineering Development		442
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Engineering Development		45
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Engineering Development		1,536,874
	R&D TOTAL					310
	AC15 ALLIED SIGNAL AEROSPACE CO	Indiana	USAF	RDTE/Aircraft-Operational Systems Developm		193
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		1,410
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Operational Systems Developm		355-
	BOEING COMPANY THE	Kansas	USAF	RDTE/Aircraft-Operational Systems Developm		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC15 (CONTINUED)					
	CALSPAN CORPORATION	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	30
	CONTRAVES USA INC	Florida	NAVY	RDTE/Aircraft-Operational Systems Developm	824
	CTA INCORPORATED	California	NAVY	RDTE/Aircraft-Operational Systems Developm	152
	ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm	3,302
	ELECTRO SOFT INC	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm	30
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	79
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	6,832
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	4,524
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Operational Systems Developm	233
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Operational Systems Developm	11,512
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm	164
	LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm	1,026-
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	157-
	MCDONNELL DOUGLAS CORPORATION	Missouri	ARMY NAVY USAF	RDTE/Aircraft-Operational Systems Developm RDTE/Aircraft-Operational Systems Developm RDTE/Aircraft-Operational Systems Developm	254 4,800 18,918
	STATE TOTAL				23,972
	NASP NATIONAL CONTRACTOR TEAM	California	USAF	RDTE/Aircraft-Operational Systems Developm	26,700
	PENCO AEROPLEX INC	Alabama	USAF	RDTE/Aircraft-Operational Systems Developm	647
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Operational Systems Developm	9,371
	SARGENT INDUSTRIES INC	California	NAVY	RDTE/Aircraft-Operational Systems Developm	45
	SOUTHWEST AEROSPACE CORP	California	NAVY	RDTE/Aircraft-Operational Systems Developm	882
	TEXSTAR INC	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	845
	TERN INC	Minnesota	USAF	RDTE/Aircraft-Operational Systems Developm	141
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm	5,256

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AC15	(CONTINUED)				
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Operational Systems Developm	19,652
	R&D TOTAL				115,568
AC16	A P A OPTICS INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	125
	ABARIS	Nevada	USAF	RDTE/Aircraft-Management & Support	47
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Aircraft-Management & Support	240
	AEROSTRUCTURES INC	Virginia	NAVY	RDTE/Aircraft-Management & Support	163
	ALLOY SURFACES CO	Delaware	NAVY	RDTE/Aircraft-Management & Support	53
	AMHERST SYSTEMS INC	New York	ARMY	RDTE/Aircraft-Management & Support	69
	ANALYTIC ENGINEERING CO	Nebraska	USAF	RDTE/Aircraft-Management & Support	95
	ANAMET LABORATORIES INC	California	USAF	RDTE/Aircraft-Management & Support	271
	ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Aircraft-Management & Support	1,017
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Management & Support	299-
	BELTRAN ASSOCIATES INC	New York	USAF	RDTE/Aircraft-Management & Support	50
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Management & Support	4,058
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Aircraft-Management & Support	58
	CFD RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Aircraft-Management & Support RDTE/Aircraft-Management & Support	50 50
	STATE TOTAL				100
	CHRYSLER TECHNOLOGIES ARBRN SY	Texas	USAF	RDTE/Aircraft-Management & Support	383
	CREW SYSTEMS CONSULTANTS	Texas	USAF	RDTE/Aircraft-Management & Support	414
	CSA ENGINEERING INC	California	NAVY	RDTE/Aircraft-Management & Support	50
	DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Management & Support	49
	DEACON RESEARCH	California	USAF	RDTE/Aircraft-Management & Support	130
	EIDETICS INTERNATIONAL INC	California	NAVY	RDTE/Aircraft-Management & Support	374

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC16 (CONTINUED)

		USAF	RDTE/Aircraft-Management & Support	\$	379
	STATE TOTAL				753
EMCORE CORPORATION	New Jersey	USAF	RDTE/Aircraft-Management & Support		190
ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Aircraft-Management & Support		240
ENGINEETICS CORPORATION	Ohio	ARMY	RDTE/Aircraft-Management & Support		190
FIELD AVAIAION WEST LTD	CANADA	NAVY	RDTE/Aircraft-Management & Support		344
FLOW INDUSTRIES INC	Washington	USAF	RDTE/Aircraft-Management & Support		417
FLUORO CHEM CORP	California	USAF	RDTE/Aircraft-Management & Support		189
FOSTER MILLER INC	Mass	ARMY	RDTE/Aircraft-Management & Support		55
		NAVY	RDTE/Aircraft-Management & Support		55
		USAF	RDTE/Aircraft-Management & Support		247
	STATE TOTAL				357
FTR INC	New Jersey	USAF	RDTE/Aircraft-Management & Support		50
GUIDED SYS TECH GA	Georgia	NAVY	RDTE/Aircraft-Management & Support		50
HAWKER PACIFIC INC	California	ARMY	RDTE/Aircraft-Management & Support		850
INTERGRAPH CORPORATION	Alabama	USAF	RDTE/Aircraft-Management & Support		81
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Aircraft-Management & Support		1,310
J & S INSULATION INC	Missouri	ARMY	RDTE/Aircraft-Management & Support		148
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Aircraft-Management & Support		125
LASERGENICS CORPORATION	California	USAF	RDTE/Aircraft-Management & Support		50
LOCKHEED AIRCRAFT SERVICE CO	California	USAF	RDTE/Aircraft-Management & Support		220
LOGIS TECH	Virginia	NAVY	RDTE/Aircraft-Management & Support		44
MANTECH INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Management & Support		1,081
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Management & Support		334
MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Management & Support		848

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AC16 (CONTINUED)					
	METROLASER	California	USAF	RDTE/Aircraft-Management & Support	50
	NEW HAMPSHIRE MATERIAL LABORAT	N.H.	USAF	RDTE/Aircraft-Management & Support	65
	NONVOLATILE ELECTRONICS INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	50
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Aircraft-Management & Support	50
	PALL LAND & MARINE CORP	Florida	ARMY	RDTE/Aircraft-Management & Support	18,017
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Aircraft-Management & Support	190
	PIASECKI AIRCRAFT CORP	Penn	NAVY	RDTE/Aircraft-Management & Support	44
	RAMSEARCH CO	Maryland	USAF	RDTE/Aircraft-Management & Support	140
	SCIENTIFIC ATLANTA INC	California	ARMY	RDTE/Aircraft-Management & Support	328
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Aircraft-Management & Support	62
	SPARTA INC	California	NAVY	RDTE/Aircraft-Management & Support	49
	SUNDSTRAND CORPORATION	Illinois	NAVY	RDTE/Aircraft-Management & Support	64
	TCAM TECHNOLOGY INC	Ohio	USAF	RDTE/Aircraft-Management & Support	50
	TECHNOLOGY INTGRN DEV GROUP	Mass	USAF	RDTE/Aircraft-Management & Support	50
	TESCO INC	Tennessee	USAF	RDTE/Aircraft-Management & Support	190
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Management & Support	373
	UNIVERSAL AIR FILTERS CO	Illinois	ARMY	RDTE/Aircraft-Management & Support	45
	VIGYAN RESEARCH ASSOCIATES	Virginia	USAF	RDTE/Aircraft-Management & Support	52
	WINTEC INC	Florida	NAVY	RDTE/Aircraft-Management & Support	49
	R&D TOTAL				34,862
	AC21 A A I CORPORATION	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	292
		Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea	11,103
	CONTRACTOR TOTAL				11,395
	A P A OPTICS INC	Minnesota	USAF	RDTE/Missile and Space Systems-Basic Resea	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC21 (CONTINUED)

AEROVIRONMENT INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	\$	163
ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea		300
AMERICAN GNC CORP	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		50
ARKALA GROUP	California	USAF	RDTE/Missile and Space Systems-Basic Resea		44
ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Basic Resea		83
AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		5,680
	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		122
					5,802
CONTRACTOR TOTAL					
BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,519
COLLEGE OF WILLIAM & MARY	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea		79
COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea		500
DAEDALUS RESEARCH INC	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea		499
FERRANTI INSTRUMENTATION LTD	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		104
FERRANTI INTERNATIONAL	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		2,031
GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea		167
GENERAL ATOMICS	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea		472
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,197
GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		250
	Penn	USAF	RDTE/Missile and Space Systems-Basic Resea		1,247
	Vermont	ARMY	RDTE/Missile and Space Systems-Basic Resea		47
					1,544
CONTRACTOR TOTAL					
GENERAL PNEUMATICS CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea		112
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Basic Resea		550
GORCA SYSTEMS INC	New Jersey	USAF	RDTE/Missile and Space Systems-Basic Resea		1,000

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	250
	HERCULES INCORPORATED	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	11,103
	HONEYWELL INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea	25
	HUGHES AIRCRAFT COMPANY	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	250
		California	USAF	RDTE/Missile and Space Systems-Basic Resea	174
	CONTRACTOR TOTAL				424
	INFORMATION NETWORK SYSTEMS	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	917
	INTERNATIONAL AERO TECH INC	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	111
	INTERSCIENCE INC	New York	ARMY	RDTE/Missile and Space Systems-Basic Resea	29
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	2,317
	KOLLMORGEN CORPORATION	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	39
	LOCKHEED SPACE OPERATIONS CO	California	USAF	RDTE/Missile and Space Systems-Basic Resea	11,400-
		Florida	USAF	RDTE/Missile and Space Systems-Basic Resea	10,336
	CONTRACTOR TOTAL				1,064-
	LOCKHEED SYSTEMS COMPANY INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	195
	LORAL CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea	526
		California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,210
	CONTRACTOR TOTAL				1,736
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,168
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	177
		Florida	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,205
	CONTRACTOR TOTAL				1,382
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,013
	MEGADYNE INC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	PRC INC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	99
	RAFAEL ARMANENTS DEVELOPMENT	ISRAEL	NAVY	RDTE/Missile and Space Systems-Basic Resea	101
	RAUFOSS AMMUNISJONSFABRIKKER A	NORWAY	ARMY	RDTE/Missile and Space Systems-Basic Resea	94
	ROCKWELL INTERNATIONAL CORP	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	178
		Colorado	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	CONTRACTOR TOTAL				228
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	37
	SC & A INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	155
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,589
	SENSCI CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	100
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,850
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,765
	STANFORD UNIVERSITY	California	ARMY	RDTE/Missile and Space Systems-Basic Resea	844
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	2,449
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	25,285
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,060
	THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Basic Resea	98
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	153
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Basic Resea	115
	UNIVERSITY OF DAYTON INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	2,853
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	3,280
	VIRGINIA PLYTHNIC INST/Sr UNI	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	40
	WESTINGHOUSE ELECTRIC CORP	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	251
	R&D TOTAL				89,802

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AC22	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Exploratory	78	
	AEROJET	California	ARMY	RDTE/Missile and Space Systems-Exploratory	135-	
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	95	
	ALABAMA CRYOGENIC ENGINEERING	Alabama	NAVY	RDTE/Missile and Space Systems-Exploratory	153	
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Missile and Space Systems-Exploratory	42	
	ANAMET LABORATORIES INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	50	
	APD CRYOGENICS INC	Penn	NAVY	RDTE/Missile and Space Systems-Exploratory	209	
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	44	
	BUTLER UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Exploratory	28	
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Exploratory	103	
	COMPUTER AND CONCEPTS ASSOC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	90	
	EASTERN NEW MEXICO UNIVERSITY	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	110	
	EG&G WASHINGTON ANALYTICAL SVC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	3,896	
	FIBER MATERIALS INC	Maine	NAVY	RDTE/Missile and Space Systems-Exploratory	103	
	FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Exploratory	38	
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	59	
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	194	
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Exploratory	284-	
			NAVY	RDTE/Missile and Space Systems-Exploratory	399	
			USAF	RDTE/Missile and Space Systems-Exploratory	4,505	
	STATE TOTAL				4,620	
	CONTRACTOR TOTAL					
	GENERAL ELECTRIC COMPANY	Texas	USAF	RDTE/Missile and Space Systems-Exploratory	263	
	GRUMMAN CORPORATION	Penn	ARMY	RDTE/Missile and Space Systems-Exploratory	4,883	
	HARRIS CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	5,920	
	HARVARD UNIVERSITY	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	850	
		Mass	USAF	RDTE/Missile and Space Systems-Exploratory	158	
					116	

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AC22 (CONTINUED)					
	HERCULES INCORPORATED	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	\$ 500
		Utah	USAF	RDTE/Missile and Space Systems-Exploratory	368
		W Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	1,003
	CONTRACTOR TOTAL				1,871
	HIGH Q INC	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	48
		California	ARMY	RDTE/Missile and Space Systems-Exploratory	41,225
	HUGHES AIRCRAFT COMPANY		NAVY	RDTE/Missile and Space Systems-Exploratory	100
	STATE TOTAL				41,325
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Exploratory	615
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Exploratory	250
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	854
		California	NAVY	RDTE/Missile and Space Systems-Exploratory	340
	LORAL CORPORATION		USAF	RDTE/Missile and Space Systems-Exploratory	3,877
	STATE TOTAL				4,217
	LTV AEROSPACE & DEFENSE CO	New York	USAF	RDTE/Missile and Space Systems-Exploratory	225
	M M R TECHNOLOGIES INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	85
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	255
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Missile and Space Systems-Exploratory	5,646
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	153
	MCMASTER UNIVERSITY	CANADA	USAF	RDTE/Missile and Space Systems-Exploratory	104
	MEGADYNE INC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	280
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Exploratory	93
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Missile and Space Systems-Exploratory	50

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AC22 (CONTINUED)					
	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory	121
	OAKTREE AUTOMATION INC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	OPTO KNOWLEDGE SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	53
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	28-
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Missile and Space Systems-Exploratory	181
	R & D ASSOCIATES	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	220
	RAYTHEON COMPANY	Mass	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	200 55
			STATE TOTAL		255
	ROCKET RESEARCH CO	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	200
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	4,320
		Florida	USAF	RDTE/Missile and Space Systems-Exploratory	131
		Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory	37
			CONTRACTOR TOTAL		4,488
	SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	132
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Missile and Space Systems-Exploratory	57
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	25
	SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Exploratory	93
	SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Exploratory	127
	STERIODS LTD	Illinois	NAVY	RDTE/Missile and Space Systems-Exploratory	468
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Exploratory	30
	TEXTRON INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory	139
	THIOLKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Exploratory	417
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Missile and Space Systems-Exploratory	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC22 (CONTINUED)					
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	\$ 1,139
	ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Exploratory	293
	UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Missile and Space Systems-Exploratory	187
			USAF	RDTE/Missile and Space Systems-Exploratory	389
		STATE TOTAL			576
		Conn	USAF	RDTE/Missile and Space Systems-Exploratory	227
		Florida	USAF	RDTE/Missile and Space Systems-Exploratory	452
					1,255
	CONTRACTOR TOTAL				
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Missile and Space Systems-Exploratory	80
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Exploratory	350
	UNIVERSITY OF HAWAII	Hawaii	USAF	RDTE/Missile and Space Systems-Exploratory	139
	UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Missile and Space Systems-Exploratory	106
		Texas	USAF	RDTE/Missile and Space Systems-Exploratory	75
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Missile and Space Systems-Exploratory	87
	VERSATRON CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Exploratory	162
	ZAK RESEARCH	California	NAVY	RDTE/Missile and Space Systems-Exploratory	79
	R&D TOTAL				84,148
	AC23 A K M ASSOC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	A P A OPTICS INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De	184
	A T S S INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	250
	AC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	577
	ACTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De	58
	ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	996

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	47
	ADVANCED DEVICE TECHNOLOGY INC	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De	50
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	217
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Advanced De	904
	ADVANCED SCIENCES INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	2,174
			USAF	RDTE/Missile and Space Systems-Advanced De	133
	STATE TOTAL				2,307
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	ADVANCED TECHNOLOGY MATERIALS	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	55
		Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	301
	CONTRACTOR TOTAL				356
	AEROJET	California	ARMY	RDTE/Missile and Space Systems-Advanced De	14,976
			NAVY	RDTE/Missile and Space Systems-Advanced De	343
			USAF	RDTE/Missile and Space Systems-Advanced De	2,342
	STATE TOTAL				17,661
	AEROMET INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	48
		Oklahoma	ARMY	RDTE/Missile and Space Systems-Advanced De	3,685
	CONTRACTOR TOTAL				3,732
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	47
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	209
	ALLIANT TECHSYSTEMS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Advanced De	731
		Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De	2,123
	CONTRACTOR TOTAL				2,854
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	99

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AC23 (CONTINUED)					
	ALUMINUM COMPANY OF AMERICA	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 240
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	108
	AMERICAN TELEPHONE & TELG CO	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	
	ANALOG DEVICES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	434
	ANDROMEDA CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	APPLIED REMOTE TECHNOLOGY	California	ARMY	RDTE/Missile and Space Systems-Advanced De	99
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	150
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,297
	APPLIED SCIENCES INC	Ohio	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	49 89
			STATE TOTAL		138
	APTEK INC	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	441-
	ASTROSYSTEMS INC	Delaware	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	51 149
			STATE TOTAL		200
	ATHENA GROUP THE	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	55
	AURA SYSTEMS	California	USAF	RDTE/Missile and Space Systems-Advanced De	911
	AURORA ASSOCIATES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	AUTOMATED SCIENCES GROUP INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	13,179
	AUTONOMOUS TECHNOLOGIES CORP	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	397
	AVCO CORPORATION	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	100 144-
			STATE TOTAL		44-
	AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	4,590
	BALL CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	64

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	\$	2,162 35-
STATE TOTAL					
BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		2,127
BGEING AEROSPACE & ELECTRONICS	Washington	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		5,707 55,683 42,634
STATE TOTAL					
BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Advanced De		98,317
	Washington	USAF	RDTE/Missile and Space Systems-Advanced De		3,200
CONTRACTOR TOTAL					
BOOZ ALLEN & HAMILTON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		8,973
BREWER SCIENCE INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De		12,173
CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		1,329
CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		284
CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De		63
CHIRP CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De		2,109
COLEMAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		47
COLSA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		51
COMPLEX SYSTEMS RESEARCH INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		12,580
CONTRAVES USA INC	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		20,273
CREARE INC	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De		53
CREARE RESEARCH & DEVELOPMENT	N.H.	ARMY	RDTE/Missile and Space Systems-Advanced De		386
DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Missile and Space Systems-Advanced De		1,645
DEACON RESEARCH	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
DELTA RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		40
					425
					948

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R&D	CONTRACTOR NAME	ST/CTNRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

DESE RESEARCH & ENGINEERING	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	50
DISPLAYTECH INC	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		56
DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		776
		NAVY	RDTE/Missile and Space Systems-Advanced De		75
		USAF	RDTE/Missile and Space Systems-Advanced De		38,702
					39,553
		STATE TOTAL			
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		521
DUNLOP AVIATION INC	UNITED KIN	USAF	RDTE/Missile and Space Systems-Advanced De		38-
DYNACS ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		124
DYNAMICS TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Advanced De		161
DYNETICS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		2,991
EER SYSTEMS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		40-
EHRENPREIS DAVID B	New Jersey	NAVY	RDTE/Missile and Space Systems-Advanced De		207
EL DORADO ENGINEERING INC	Utah	ARMY	RDTE/Missile and Space Systems-Advanced De		46
ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
EMCORE CORPORATION	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		99
ENERGY SCIENCE LABORATORIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De		100
EPION CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		250
ESSEX CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		75
FIBER & SENSOR TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		49
FIBER CONCEPTS	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		51
FIBER MATERIALS INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De		387
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		50
FLIGHT MECHANICS & CONTROL	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		48
FLORIDA A & M UNIVERSITY	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	FLOUROCHEM INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	56
	FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De	56
	FOSTER MILLER INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	252
	G T DEVICES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	292
	GEMINI COMPUTERS INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,133
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	15,390
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	419
			USAF	RDTE/Missile and Space Systems-Advanced De	61
	STATE TOTAL				480
	CONTRACTOR TOTAL				171
	GENERAL ELECTRIC COMPANY	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	651
		New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	1,578
		New York	ARMY	RDTE/Missile and Space Systems-Advanced De	1,321
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	639
	CONTRACTOR TOTAL				6,904
	GENERAL RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	10,442
		California	USAF	RDTE/Missile and Space Systems-Advanced De	3,508
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	35
	CONTRACTOR TOTAL				1,125
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	4,668
	GIGABIT LOGIC INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	3,442
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	72
	GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	18,401
					15,836

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	\$	2,964
GUMBS ASSOCIATES INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		51
HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		3,361
	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		1,089
					4,450
CONTRACTOR TOTAL					72
HI SHEAR CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Advanced De		42
HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		49
HOLLI RESEARCH	California	USAF	RDTE/Missile and Space Systems-Advanced De		200
HONEYWELL INC	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De		13,339
	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		7,046
	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		20,585
CONTRACTOR TOTAL					22,000
HUGHES AIRCRAFT COMPANY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		15,299
	California	ARMY	RDTE/Missile and Space Systems-Advanced De		19,667
		USAF	RDTE/Missile and Space Systems-Advanced De		34,966
STATE TOTAL					56,966
CONTRACTOR TOTAL					51
HYPRES INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		120
I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Missile and Space Systems-Advanced De		544
IMAGING SCIENCE TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		46
IMPACT TECHNOLOGIES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		27
		USAF	RDTE/Missile and Space Systems-Advanced De		73
STATE TOTAL					50
IMPLANT SCIENCES CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		50
INDUSTRIAL SENSORS & ACTUATORS	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	INTEGRATED APPLIED PHYSICS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	INTEGRATED SYSTEM ASSEMBLIES	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	236
		Georgia	USAF	RDTE/Missile and Space Systems-Advanced De	177
	CONTRACTOR TOTAL				413
	INTELLIGENT AUTOMATION INC	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	67
	INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	3,079
		Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	15,310
	CONTRACTOR TOTAL				22,389
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	1,328
	INTERNETNAL TCHNCAL ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Advanced De	450
	IONIC ATLANTA INCORPORATED	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	89
	IOWA LASER TECHNOLOGY INC	Iowa	ARMY	RDTE/Missile and Space Systems-Advanced De	98
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,067
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De	37,440
	JAYCOR	California	ARMY	RDTE/Missile and Space Systems-Advanced De	2,820
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	148
	K M S FUSION INC	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	KAISER AEROSPACE & ELEC CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	196
	KAMAN SCIENCES CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	6,408
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	2,714
	CONTRACTOR TOTAL				9,122
	KDI PRECISION PRODUCTS INC	Ohio	NAVY	RDTE/Missile and Space Systems-Advanced De	140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC23 (CONTINUED)					
	KRAMER & ASSOCIATES	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 49
	KTECH CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	380
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	132
	LASER SCIENCE INC	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	386
	LITECOM INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	314
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	1,511
	LITTON SYSTEMS INC	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	219 6,222
		STATE TOTAL			6,441
	LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	7,542
		California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	83,505 4,630
		STATE TOTAL			88,135
	CONTRACTOR TOTAL				95,677
	LONE PEAK ENGINEERING INC	Utah	USAF	RDTE/Missile and Space Systems-Advanced De	53
	LORAL CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	426
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	178
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	2,907
		Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	67
	CONTRACTOR TOTAL				3,578
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	101,863
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	50
	MARTIN MARIETTA CORPORATION	Colorado	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	90 17,580
		STATE TOTAL			17,670

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC23 (CONTINUED)					
	CONTRACTOR TOTAL				\$ 7,259
	MATERIALS MODIFICATION INC	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	24,929
	MATERIALS TECHNOLOGIES CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	214
	MAYO FOUNDATION	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	223
	MC DANIEL JOHN L ENTERPRISES	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De	3,016
	MCDONNELL DOUGLAS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	49
		Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	652
			USAF	RDTE/Missile and Space Systems-Advanced De	778
	STATE TOTAL				1,430
	MCDONNELL DOUGLAS SPACE SYS CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	327
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	121,116
			USAF	RDTE/Missile and Space Systems-Advanced De	218-
	STATE TOTAL				120,898
	CONTRACTOR TOTAL				872
	MECHANICAL TECHNOLOGY INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	122,097
	MESILLA VALLEY HIGH TECH IND	New York	USAF	RDTE/Missile and Space Systems-Advanced De	100
	METROLASER	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	5,376
	MEVATEC CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	MICROCOM CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	125
	MICROCOSM	Penn	NAVY	RDTE/Missile and Space Systems-Advanced De	1,311
	MICROSCIENCE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	529
	MIRAGE SYSTEMS	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	49
		California	NAVY	RDTE/Missile and Space Systems-Advanced De	56
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	110
	CONTRACTOR TOTAL				166
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	70

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AC23 (CONTINUED)					
			USAF	RDTE/Missile and Space Systems-Advanced De	\$ 195
		STATE TOTAL			265
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	495
		New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	1,195
	CONTRACTOR TOTAL				1,955
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Advanced De	1,927
	NATIONAL STEEL & SHPBLDING CO	California	NAVY	RDTE/Missile and Space Systems-Advanced De	423
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	84-
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	22,555
		Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	2,208
	CONTRACTOR TOTAL				24,763
	NIMBLE COMPUTER CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	NORTH CAROLINA A&T UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	60
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	105
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	114-
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	191
	NOVA ELECTRONICS & SOFTWARE	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	ODYSSEY RESEARCH ASSOCIATES	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	61
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	508
	PHASE IV SYSTEMS INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,635
	PHOTEL INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	43
	PHOTON RESEARCH ASSOCIATES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	192

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

PHYSICAL RESEARCH INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	977
PHYSICON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		2,330
POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		100
POSITECH INC	S Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		51
PURDUE UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Advanced De		26
QSOURCE INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		55
QUANTUM EPITAXIAL DESIGNS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		55
QUEUEING SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		136
R & D ASSOCIATES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		146
RACAL RECORDERS INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De		87
RAM SYS GMBH	GERMANY	NAVY	RDTE/Missile and Space Systems-Advanced De		2,228
RASOR ASSOCIATES INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		50
RAYMOND ENGINEERING INC	Conn	NAVY	RDTE/Missile and Space Systems-Advanced De		1,423
RAYTHEON COMPANY	California	USAF	RDTE/Missile and Space Systems-Advanced De		641-
	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		21,976
CONTRACTOR TOTAL					21,335
RDR INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		747
REFRACTORY COMPOSITES INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		50
RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Advanced De		197
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De		67,174
		USAF	RDTE/Missile and Space Systems-Advanced De		22,915
STATE TOTAL					90,089
	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		200
	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De		244

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AC23 (CONTINUED)

CONTRACTOR TOTAL	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	\$
RYAN ASSOCIATES				33
S K W CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	50
S S G INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	92
S SYSTEMS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	4,861
SCHMIDT INSTRUMENTS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	180
SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	317
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,682
	California	ARMY	RDTE/Missile and Space Systems-Advanced De	550
		NAVY	RDTE/Missile and Space Systems-Advanced De	280
		USAF	RDTE/Missile and Space Systems-Advanced De	651
STATE TOTAL				1,481
	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	175
CONTRACTOR TOTAL				3,338
SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	369
SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	251
SCIENTIFIC RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	175
SEIDCON INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
SEMTEC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	292
SIGMATECH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	243
SOFTWARE & ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Advanced De	419
SOUTHERN RESEARCH INSTITUTE	Alabama	USAF	RDTE/Missile and Space Systems-Advanced De	37-
SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De	8,844
		USAF	RDTE/Missile and Space Systems-Advanced De	7,111
STATE TOTAL				15,955

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AC23 (CONTINUED)					
	SPACE POWER INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De	97
	SPACE SYSTEMS ANALYSIS INC	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	SPACE TEC VENTURES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	60
	SPACE TECH CORP	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	272
	SPARTA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,602
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	11,520
			USAF	RDTE/Missile and Space Systems-Advanced De	2,822
	STATE TOTAL				14,342
	CONTRACTOR TOTAL				150
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	18,094
	SPECTRUM MATERIALS I	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	52
	SPECTRUM RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	840
	SPIRE CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	78
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	720
			USAF	RDTE/Missile and Space Systems-Advanced De	393
	STATE TOTAL				1,113
	CONTRACTOR TOTAL				1,191
	SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Advanced De	150
	SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,220
		California	USAF	RDTE/Missile and Space Systems-Advanced De	131
	CONTRACTOR TOTAL				1,351
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,159
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	1,916
	SUNOL SCIENCES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	374
	SUPERCONDUCTOR TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	61
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	61

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC23 (CONTINUED)

CONTRACTOR TOTAL					\$	
SUPERCONIX INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		122	
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		51	
SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Advanced De		130	
TACAN CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		54	
TADIRAN ISRAEL ELECTRONICS IND	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De		138	
TECH QUEST INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		11,991	
TECHNO SCIENCES INC	Maryland	USAF	RDTE/Missile and Space Systems-Advanced De		213	
TECHNOLOGY APPLICATIONS	California	ARMY	RDTE/Missile and Space Systems-Advanced De		163	
TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		475	
TECOLOTE RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		4,150	
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		826	
TETRA CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De		71,478	
TEXAS A & M UNIV SYS THE	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		66	
TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Missile and Space Systems-Advanced De		40	
TEXTRON INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		2,184	
	New York	USAF	RDTE/Missile and Space Systems-Advanced De		350	
					1,846	
CONTRACTOR TOTAL					2,196	
THERMACORE INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		67	
THERMO ELCTRON TCHNOLOGIES CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De		1,251	
THIOKOL CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		2,914	
	Maryland	USAF	RDTE/Missile and Space Systems-Advanced De		2,321	
	Utah	NAVY	RDTE/Missile and Space Systems-Advanced De		2,099	
CONTRACTOR TOTAL					7,334	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	TRACOR AEROSPACE INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De	90
	TRACOR INC	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	400
	TRW INC	Ala a	ARMY	RDTE/Missile and Space Systems-Advanced De	4,336
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	3,810
			USAF	RDTE/Missile and Space Systems-Advanced De	10,279
	STATE TOTAL				14,089
					18,425
	CONTRACTOR TOTAL				60
	TUSKEGEE UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	705
	TYBRIN CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	ULTRAMET	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
			USAF	RDTE/Missile and Space Systems-Advanced De	101
	STATE TOTAL				351
	UNITED INTERNATIONAL ENGRG	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	28-
		New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	323
	CONTRACTOR TOTAL				2,482
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	1,729
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Missile and Space Systems-Advanced De	2,986
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	123-
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	29
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	210
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	36
	UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	75
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De	31
			USAF	RDTE/Missile and Space Systems-Advanced De	106
	STATE TOTAL				

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AC23 (CONTINUED)					
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	130
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	107
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De	327
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	140
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	VITRO CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De	3,296
	VSE CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	4,072
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	2,983
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	340
	CONTRACTOR TOTAL				3,323
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Missile and Space Systems-Advanced De	1,500
	XACTON CORPORATION	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De	68
			USAF	RDTE/Missile and Space Systems-Advanced De	300
	STATE TOTAL				368
	CONTRACTOR TOTAL				246
	XONTECH INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	614
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,158
			USAF	RDTE/Missile and Space Systems-Advanced De	3,046
	STATE TOTAL				4,204
	R&D TOTAL				1,211,678
	AC24 ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	38
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	46
	BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	161
	BELL HELICOPTER INTERNATIONAL	Texas	NAVY	RDTE/Missile and Space Systems-Engr Develo	210
	BOEING AEROSPACE & ELECTRONICS	California	USAF	RDTE/Missile and Space Systems-Engr Develo	2,842
		Washington	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,057

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC24 (CONTINUED)

		USAF	RDTE/Missile and Space Systems-Engr Develo	\$
STATE TOTAL				
CONTRACTOR TOTAL				
BOEING COMPANY THE	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	24,821
	Kansas	USAF	RDTE/Missile and Space Systems-Engr Develo	26,878
	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo	29,720
				21,250
				1,580-
				82,580
				102,250
CONTRACTOR TOTAL				
BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Missile and Space Systems-Engr Develo	165
CROSS SYSTEMS INC	Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo	2,778
CTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Engr Develo	972
DRAPER CHARLES STAR 8 INC	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	674-
DYNAMICS RESEARCH CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	26-
EARTH TECHNOLOGY CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	92-
EG&G INC	California	ARMY	RDTE/Missile and Space Systems-Engr Develo	379-
EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	110
GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,140
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	706-
	Texas	USAF	RDTE/Missile and Space Systems-Engr Develo	277
				429-
CONTRACTOR TOTAL				
GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	12,428
	Penn	USAF	RDTE/Missile and Space Systems-Engr Develo	3,099
				15,527
CONTRACTOR TOTAL				
GEODYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	2,237
GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,956

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC24 (CONTINUED)

	CONTRACTOR TOTAL				\$	580-
	HENNINGSON DURHAM RICHARDSON		USAF	RDTE/Missile and Space Systems-Engr Develo		1,376
	HERCULES INCORPORATED		USAF	RDTE/Missile and Space Systems-Engr Develo		257-
			NAVY	RDTE/Missile and Space Systems-Engr Develo		718
			USAF	RDTE/Missile and Space Systems-Engr Develo		59,499
	STATE TOTAL					60,217
	HONEYWELL INC		USAF	RDTE/Missile and Space Systems-Engr Develo		578-
			USAF	RDTE/Missile and Space Systems-Engr Develo		188
	CONTRACTOR TOTAL					390-
	HUGHES AIRCRAFT COMPANY		USAF	RDTE/Missile and Space Systems-Engr Develo		59
	INTERSTATE ELECTRONICS CORP		USAF	RDTE/Missile and Space Systems-Engr Develo		731
	KAMAN SCIENCES CORPORATION		NAVY	RDTE/Missile and Space Systems-Engr Develo		680
	KEYSTONE COMPUTER ASSOCIATES		NAVY	RDTE/Missile and Space Systems-Engr Develo		459
	LITTON SYSTEMS INC		USAF	RDTE/Missile and Space Systems-Engr Develo		7,780
			USAF	RDTE/Missile and Space Systems-Engr Develo		3,438
	CONTRACTOR TOTAL					11,218
	LOCKHEED MISSILES & SPACE CO		NAVY	RDTE/Missile and Space Systems-Engr Develo		161
			USAF	RDTE/Missile and Space Systems-Engr Develo		150
	STATE TOTAL					311
	LOGICON INC		USAF	RDTE/Missile and Space Systems-Engr Develo		11,881
	LORAL CORPORATION		NAVY	RDTE/Missile and Space Systems-Engr Develo		1,532
			USAF	RDTE/Missile and Space Systems-Engr Develo		106,185
			NAVY	RDTE/Missile and Space Systems-Engr Develo		33
			NAVY	RDTE/Missile and Space Systems-Engr Develo		1,550
	CONTRACTOR TOTAL					109,300

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AC24 (CONTINUED)					
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	31,565
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	NAVY	RDTE/Missile and Space Systems-Engr Develo	50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	10,881
	MARTIN MARIETTA DIEHL THORN JV	Florida	ARMY	RDTE/Missile and Space Systems-Engr Develo	106,044
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Engr Develo	5,626
	METRATEK INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	63
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	301
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,004
	NORTHROP CORPORATION	California	ARMY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	2,900 433-
		STATE TOTAL			2,467
	CONTRACTOR TOTAL	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	82-
	RAYTHEON COMPANY	Mass	ARMY NAVY	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	2,385 25,297 66,245
		STATE TOTAL			91,542
	CONTRACTOR TOTAL	N.H.	USAF	RDTE/Missile and Space Systems-Engr Develo	31-
	ROCKWELL INTERNATIONAL CORP	Tennessee	NAVY	RDTE/Missile and Space Systems-Engr Develo	1,111
					92,622
	CONTRACTOR TOTAL	California	USAF	RDTE/Missile and Space Systems-Engr Develo	82,932
	ROYAL NORWEGIAN NAVAL MATERIAL	Georgia	ARMY	RDTE/Missile and Space Systems-Engr Develo	350
	SCIENCE APPLICATIONS INTL CORP	NORWAY	NAVY	RDTE/Missile and Space Systems-Engr Develo	83,282
	SOFTTECH INC	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	81,534
	SYSTEMS & LOGISTICS CORP	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	849
		California	USAF	RDTE/Missile and Space Systems-Engr Develo	27-
					877

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AC24 (CONTINUED)					
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	467
	TEKTRONIX INC	Oregon	NAVY	RDTE/Missile and Space Systems-Engr Develo	42
	TEXAS INSTRUMENTS INC	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	522
		Texas	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,400
	CONTRACTOR TOTAL				2,922
	THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Engr Develo	28,781
	TI & MARTIN AAWS-M JV	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	66,631
	TITAN SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	444
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	168,015
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	867
	UNISYS DEFENSE SYSTEMS INC	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	19,653
	UNITED INTERNATIONAL ENGRG	New Mexico	ARMY	RDTE/Missile and Space Systems-Engr Develo	1,108
	WESTINGHOUSE ELECTRIC CORP	California	NAVY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	60,857 50,521
	STATE TOTAL				111,378
	WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Engr Develo	98
	R&D TOTAL				1,167,801
AC25	AEROJET	California	USAF	RDTE/Missile and Space Systems-Op Systems	520
	AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Op Systems	2,431
		Marshall I	ARMY	RDTE/Missile and Space Systems-Op Systems	2,536
	CONTRACTOR TOTAL				4,967
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	1,389
	COLLINS INTERNATIONAL SVC CO	Iowa	USAF	RDTE/Missile and Space Systems-Op Systems	1,315
	COMMUNICATION MFG CO	California	USAF	RDTE/Missile and Space Systems-Op Systems	2,019

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AC25 (CONTINUED)					
	CONTEL CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	\$ 15,972
		Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	19,711
	CONTRACTOR TOTAL				35,683
	ELECTRONIC WARFARE ASSOCIATES	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems	80-
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Op Systems	79
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Missile and Space Systems-Op Systems	130,273
		Penn	USAF	RDTE/Missile and Space Systems-Op Systems	737
	CONTRACTOR TOTAL				131,010
	HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems	1,995
	HERCULES INCORPORATED	Utah	ARMY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	86- 285
	STATE TOTAL				199
	HONEYWELL INC	Florida	NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	500 7,500
	STATE TOTAL				8,000
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Missile and Space Systems-Op Systems	2,305
	INFOTEC DEVELOPMENT INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,379
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,729
	INTERNATIONAL BUS MCHS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	1,000
	ISYS SECURITY SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	650
	KAMAN SCIENCES CORPORATION	Colorado	ARMY NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	1,198 1,909 600
	STATE TOTAL				3,707
	KEARFOTT GDNCE NAVIGATION CORP	New Jersey	NAVY	RDTE/Missile and Space Systems-Op Systems	52,685
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Missile and Space Systems-Op Systems	1,057

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC25 (CONTINUED)

MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	\$	1,392,280
NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems		4,345
NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems		6,742
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Op Systems		84
RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Op Systems		9,062
ROCKWELL INTERNATIONAL CORP	New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems		404
ROCKWELL POWER SYSTEMS	New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems		421
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems		2,465
STRAPDOWN ASSOCIATES INC	Minnesota	NAVY	RDTE/Missile and Space Systems-Op Systems		225
SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems		1,512
SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems		2,519
TRW INC	California	USAF	RDTE/Missile and Space Systems-Op Systems		1,656
UNISYS CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems		1,195
VREULS RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Op Systems		141
	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems		2,553
CONTRACTOR TOTAL					2,694
R&D TOTAL					1,677,212
AC26 A T S S INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		941
AEROVIRONMENT INC	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp		429
AMERICAN COMPOSITE TECHNOLOGY	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		192
ANALYTIC SCIENCE CORP THE	Mass	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp		2,686
ARIAS RESEARCH ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		273
ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		405
COMPUTATIONAL MECHANICS CORP	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		65

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC26 (CONTINUED)					
	CREARE INC	N.H.	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	
	CSA ENGINEERING INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	200
	CTK ENTERPRISES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	240
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	47
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	150
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	512
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	71
	GENERAL SCIENCES INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	59
	HITEC PRODUCTS INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	130
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	523
	HYBERSONICS CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	209
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	321
	INTERACTIVE INTELLIGENT IMAGE	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	445
	KAMAN SCIENCES CORPORATION	Colorado	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	658
	MANTECH INTERNATIONAL CORP	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	1,300
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	15,000
	MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	
	MIDWEST RESEARCH TECHNOLOGIES	Wisconsin	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	220
	PDA ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	59
	SANCHEZ IGNACIO PAINGINT CONTR	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	92
	SCIENCE & APPL TECH	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	774
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	648
	CONTRACTOR TOTAL	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	109
					757

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 228
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	164
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	424
	SYSTEMS RES APPLICATIONS CORP	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	72
		Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	441
		Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	2,879
	CONTRACTOR TOTAL				3,392
	TREADWELL CORPORATION	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	166
	VISTA RESEARCH	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	309
	XONTECH INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	52
R&D TOTAL					31,917
AC31	ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Ships-Basic Research	50
	ADVANCED MATERIAL SYS INC	Louisiana	NAVY	RDTE/Ships-Basic Research	50
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Ships-Basic Research	50
	ARCCA INCORPORATED	Penn	NAVY	RDTE/Ships-Basic Research	47
	ARGOTEC INC	Florida	NAVY	RDTE/Ships-Basic Research	55
	BAND LAVIS & ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	BREWER SCIENCE INC	Missouri	NAVY	RDTE/Ships-Basic Research	50
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Ships-Basic Research	110
	CIMSPEC INC	Michigan	NAVY	RDTE/Ships-Basic Research	26
	CLEVER FELLOWS INNOVATION INC	New York	NAVY	RDTE/Ships-Basic Research	41
	CODAR OCEAN SENSORS LTD	California	NAVY	RDTE/Ships-Basic Research	50
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Ships-Basic Research	75
	COMPEER INC	California	NAVY	RDTE/Ships-Basic Research	52
	CONCEPTUAL SOFTWARE SYSTEMS	California	NAVY	RDTE/Ships-Basic Research	49

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AC31 (CONTINUED)					
	DYMAFLOW INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	ENDECO INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Ships-Basic Research	50
	ENERGY RESEARCH CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	50
	ENGINEERING VISIONS INC	California	NAVY	RDTE/Ships-Basic Research	46
	ESSEX CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	49
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ships-Basic Research	56
	GENERAL ATOMICS	California	NAVY	RDTE/Ships-Basic Research	70
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Basic Research	48
	GINER INC	Mass	NAVY	RDTE/Ships-Basic Research	55
	GUMBS ASSOCIATES INC	New Jersey	NAVY	RDTE/Ships-Basic Research	50
	HLA ENGINEERS INC	Texas	NAVY	RDTE/Ships-Basic Research	49
	HYDRODYNAMICS RESEARCH ASSOC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Ships-Basic Research	321
	JOHNSTONE YACHTS INC	Conn	NAVY	RDTE/Ships-Basic Research	49
	L RAYMOND & ASSOCIATES	California	NAVY	RDTE/Ships-Basic Research	487
	LAQUE CTR FOR CRRSION TCHNOLOGY	N Carolina	NAVY	RDTE/Ships-Basic Research	421
	LYNNTECH INC	Texas	NAVY	RDTE/Ships-Basic Research	50
	MAINSTREAM ENGINEERING CO INC	Florida	NAVY	RDTE/Ships-Basic Research	50
	MARITIME DYNAMICS INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY	RDTE/Ships-Basic Research	495
	MICRO SENSOR SYSTEMS INC	Virginia	NAVY	RDTE/Ships-Basic Research	490
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	NORTH STAR TECH INC	Maine	NAVY	RDTE/Ships-Basic Research	48

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ONTRY	DEPT	--R&D DESCRIPTION--	\$
AC31 (CONTINUED)					
	OPHIR CORP	Colorado	NAVY	RDTE/Ships-Basic Research	50
	ORINCON CORPORATION	California	NAVY	RDTE/Ships-Basic Research	98
	PERFECT VIEW INC	N Carolina	NAVY	RDTE/Ships-Basic Research	615
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Ships-Basic Research	102
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Ships-Basic Research	49
	RADIATION MONITORING DEVICES	Mass	NAVY	RDTE/Ships-Basic Research	50
	SEAKAY MANAGEMENT CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	50
	SEAWORTHY SYSTEMS INC	Conn	NAVY	RDTE/Ships-Basic Research	83
	SOHAR INCORPORATED	California	NAVY	RDTE/Ships-Basic Research	50
	SONALYSTS INC	Conn	NAVY	RDTE/Ships-Basic Research	1,224
	SPECTRUM MANAGEMENT GROUP INC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	SYMBIOTICS INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	SYSTEM PLANNING CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	52
	SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Ships-Basic Research	100
	SYSTEMS INTEGRATED	California	NAVY	RDTE/Ships-Basic Research	50
	TAU CORPORATION	California	NAVY	RDTE/Ships-Basic Research	50
	TE TECHNOLOGY	Michigan	NAVY	RDTE/Ships-Basic Research	89
	TETRA CORPORATIO'	New Mexico	NAVY	RDTE/Ships-Basic Research	55
	TREADWELL CORPORATION	New Jersey	NAVY	RDTE/Ships-Basic Research	51
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Ships-Basic Research	50
	UNITED STATES DEPT OF COMMERCE	Mass	NAVY	RDTE/Ships-Basic Research	217
	US DOE	Oklahoma	NAVY	RDTE/Ships-Basic Research	1,263
	WADDAN SYSTEMS	California	NAVY	RDTE/Ships-Basic Research	50
	WESTINGHOUSE ELECTRIC CORP	Ohio	ARMY	RDTE/Ships-Basic Research	2,200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				10,634
AC32	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	444
	ADA TECHNOLOGIES	Colorado	NAVY	RDTE/Ships-Exploratory Development	50
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Ships-Exploratory Development	2,447
	ALCAN ALUMINUM CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	55
	ALUMINUM COMPANY OF AMERICA	Penn	NAVY	RDTE/Ships-Exploratory Development	100
	ANALYTIC POWER CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	233
	ARTECH CORP	Virginia	NAVY	RDTE/Ships-Exploratory Development	40
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,880
	BARNES GROUP INC	Michigan	NAVY	RDTE/Ships-Exploratory Development	216
	BOEING COMPANY THE	Washington	NAVY	RDTE/Ships-Exploratory Development	165
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Ships-Exploratory Development	50
	CASDE CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	673
	CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Ships-Exploratory Development	256
	CREARE INC	N.H.	NAVY	RDTE/Ships-Exploratory Development	170
	DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Ships-Exploratory Development	50
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Ships-Exploratory Development	575
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	43
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Exploratory Development	79
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Ships-Exploratory Development	92
	HYDRODYNAMICS RESEARCH ASSOC	Virginia	NAVY	RDTE/Ships-Exploratory Development	60
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	2,929
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Ships-Exploratory Development	50
	KINETIC SYSTEMS INC	Washington	NAVY	RDTE/Ships-Exploratory Development	54
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	NAVY	RDTE/Ships-Exploratory Development	552

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC32 (CONTINUED)					
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Exploratory Development	990
	MARTIN MARIETTA CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	117
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Ships-Exploratory Development	38
	MTS SYSTEMS CORPORATION	Minnesota	NAVY	RDTE/Ships-Exploratory Development	438
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Exploratory Development	243
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Ships-Exploratory Development	146
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Ships-Exploratory Development	198
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Ships-Exploratory Development	40
	SEAWARD INTERNATIONAL	Virginia	NAVY	RDTE/Ships-Exploratory Development	1,031
	SOCIETE GENERALE DES TAPIS SA	GERMANY	NAVY	RDTE/Ships-Exploratory Development	6,694
	SOLAR TURBINES INCORPORATED	California	NAVY	RDTE/Ships-Exploratory Development	246
	TAYLOR S R	Oklahoma	NAVY	RDTE/Ships-Exploratory Development	51
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Ships-Exploratory Development	480
	THE UNIV OF WISCONSIN	Wisconsin	NAVY	RDTE/Ships-Exploratory Development	609
	THOMAS SCIFERS INC	California	NAVY	RDTE/Ships-Exploratory Development	90
	TRACOR INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	34
	UNITED STATES DEPT OF COMMERCE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	45
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Ships-Exploratory Development	37
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Ships-Exploratory Development	100
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Ships-Exploratory Development	33
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Ships-Exploratory Development	180
	VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	72
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Ships-Exploratory Development	1,430
	WYLE LABORATORIES	California	NAVY	RDTE/Ships-Exploratory Development	41

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				
AC33	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	24,646
	ADVANCE SYSTEMS TECHNOLOGY	Georgia	NAVY	RDTE/Ships-Advanced Development	3,207
		Virginia	NAVY	RDTE/Ships-Advanced Development	217
	CONTRACTOR TOTAL				202
					419
	ADVANCED SYSTEMS TECHNOLOGY	Georgia	NAVY	RDTE/Ships-Advanced Development	2,633
	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Advanced Development	243
	ARGOTEC INC	Florida	NAVY	RDTE/Ships-Advanced Development	33
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	28
	DIGITAL EQUIPMENT CORPORATION	Virginia	NAVY	RDTE/Ships-Advanced Development	39-
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Ships-Advanced Development	170
	EG&G SPECIAL PROJECTS	Nevada	NAVY	RDTE/Ships-Advanced Development	955
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Advanced Development	915
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Advanced Development	32,051
	GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development	35,913
		New York	NAVY	RDTE/Ships-Advanced Development	139,454
	CONTRACTOR TOTAL				175,367
	HALE FIRE PUMP CO	Penn	NAVY	RDTE/Ships-Advanced Development	1,314
	ILLBRUCK INC	Mass	NAVY	RDTE/Ships-Advanced Development	36
	MANTECH INTERNATIONAL CORP	New Mexico	NAVY	RDTE/Ships-Advanced Development	143
		Virginia	NAVY	RDTE/Ships-Advanced Development	64
	CONTRACTOR TOTAL				207
	MANVILLE SALES CORPORATION	Colorado	NAVY	RDTE/Ships-Advanced Development	62
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Advanced Development	153
	MINIGRAPH INC	Penn	NAVY	RDTE/Ships-Advanced Development	1,173

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC33 (CONTINUED)					
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Advanced Development	743
	NATIVE AMERICAN CONSULTANTS	D.C.	NAVY	RDTE/Ships-Advanced Development	620
	NEWPORT NEWS SHPBUILDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Advanced Development	620
	NOISE CANCELLATION TECHNOLOGIE	Maryland	NAVY	RDTE/Ships-Advanced Development	50
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Ships-Advanced Development	556
	RESSLER ASSOCIATES INC	N.H.	NAVY	RDTE/Ships-Advanced Development	46
	RMCI	Virginia	NAVY	RDTE/Ships-Advanced Development	2,493
	SEEMAN COMPOSITES INC	Miss	NAVY	RDTE/Ships-Advanced Development	176
	SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development	230
	STRUCTURAL COMPOSITES INC	Florida	NAVY	RDTE/Ships-Advanced Development	500
	SYSTEM PLANNING CORPORATION	California	NAVY	RDTE/Ships-Advanced Development	89
	TECHMATICS INC	Virginia	NAVY	RDTE/Ships-Advanced Development	100
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Ships-Advanced Development	200
	UNISYS DEFENSE SYSTEMS INC	New York	NAVY	RDTE/Ships-Advanced Development	7,224
	UNIVERSITY OF DAYTON INC	Ohio	NAVY	RDTE/Ships-Advanced Development	55
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Ships-Advanced Development	750
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Advanced Development	4,174
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Ships-Advanced Development	276,681
	WYLE LABORATORIES	Virginia	NAVY	RDTE/Ships-Advanced Development	35
	R&D TOTAL				514,269
AC34	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Engineering Development	120
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development	50
	DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development	4,019
	G E C MARCONI MATERIAL	California	NAVY	RDTE/Ships-Engineering Development	91

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC34 (CONTINUED)

GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Ships-Engineering Development	\$ 243
HAZELTINE CORPORATION	Conn	NAVY	RDTE/Ships-Engineering Development	19,725
HUGHES AIRCRAFT COMPANY	Mass	NAVY	RDTE/Ships-Engineering Development	19,968
INTERMARINES SPA	ITALY	NAVY	RDTE/Ships-Engineering Development	1,645
LIBRASCOPE CORP	California	NAVY	RDTE/Ships-Engineering Development	2,089
LUNDY ELECTRONICS & SYSTEMS	Florida	NAVY	RDTE/Ships-Engineering Development	2,250
MARINETTE MARINE CORP	Wisconsin	NAVY	RDTE/Ships-Engineering Development	800
MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development	168
MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Ships-Engineering Development	70-
MINNESOTA MINING & MFG CO	Minnesota	NAVY	RDTE/Ships-Engineering Development	134
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Engineering Development	50
NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	NAVY	RDTE/Ships-Engineering Development	400
PACER SYSTEMS INC	Penn	NAVY	RDTE/Ships-Engineering Development	54
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Ships-Engineering Development	16,047
T CARROLL ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Engineering Development	28
THE UNIVERSITY OF MICHIGAN	Michigan	NAVY	RDTE/Ships-Engineering Development	880
TODD PACIFIC SHIPYARDS CORP	California	NAVY	RDTE/Ships-Engineering Development	135
UNISYS CORPORATION	Virginia	NAVY	RDTE/Ships-Engineering Development	100
WYLE LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development	33-
R&D TOTAL				1,070
AC35 ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Ships-Op Systems Development	2,358
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Op Systems Development	52,353
				4,467
				1,500

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	

AC35 (CONTINUED)

GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Op	Systems Development	\$ 400
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Op	Systems Development	77
TAMPA SHIPYARDS INC	Florida	NAVY	RDTE/Ships-Op	Systems Development	177
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Op	Systems Development	63
R&D TOTAL					6,684

AC36 ATACS CORPORATION

CBI NA CON INC	Virginia	NAVY	RDTE/Ships-Management & Support		40
PETERSON BUILDERS INC	Tennessee	NAVY	RDTE/Ships-Management & Support		6,957
	Wisconsin	NAVY	RDTE/Ships-Management & Support		1,419

R&D TOTAL

8,416

AC41 FMC CORPORATION

GENERAL MOTORS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Basic Research		175
GONZALEZ DESIGN ENGRG COMPANY	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research		264
GORHAM ADVANCED MATERIALS INST	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research		670
OPTIMETRICS INC	Maine	ARMY	RDTE/Tank - Automotive-Basic Research		50
PRINCETON SCIENTIFIC INSTRS	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research		41
TELEDYNE INDUSTRIES INC	New Jersey	ARMY	RDTE/Tank - Automotive-Basic Research		60
UNION CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research		32
	Penn	ARMY	RDTE/Tank - Automotive-Basic Research		1,170

R&D TOTAL

2,462

AC42 ADVANCED DECISION SYSTEMS

ARMORED VHCLT TCHNOLOGIES ASSO	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop		117
ATLANTIC AEROSPACE ELECTRONICS	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop		25,786
AVCO CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop		59
BKM INC	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop		77-
CANADIAN COMMERCIAL CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop		255
	CANADA	ARMY	RDTE/Tank - Automotive-Exploratory Develop		51

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AC42 (CONTINUED)

CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	\$ 56
CARBORIDE CORPORATION	Ohio	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	69-
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	370
COLSA INC	Alabama	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	152
CREARE INC	N.H.	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	50
CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	3,396
DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	318
DYNETICS INC	Alabama	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	245
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	61
FMC CORPORATION	California	NAVY	RDTE/Tank -	Automotive-Exploratory Develop	2,464
GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	2,386
		NAVY	RDTE/Tank -	Automotive-Exploratory Develop	3,702
			STATE TOTAL		6,088
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	75
	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	37-
			CONTRACTOR TOTAL		38
GENERAL TECHNOLOGY APPLICATIONS	Virginia	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	90
HARSCO CORPORATION	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	12,531
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	1,072
INGENIEURBURO DEISENROTH	GERMANY	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	5,000
J J M SYSTEMS INC	Penn	NAVY	RDTE/Tank -	Automotive-Exploratory Develop	455
JACKSONS INDUSTRIAL MFG INC	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	413
JOHN DEERE COMPANY	New Jersey	NAVY	RDTE/Tank -	Automotive-Exploratory Develop	9,764
K V H INDUSTRIES INC	Rhode Isld	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	1,990

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AC42 (CONTINUED)					
	KAMAN INSTRUMENTATION CORP	Colorado	ARMY	RDTE/Tank - Automotive-Exploratory Develop	1,060
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	142
	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	MAXWELL LABORATORIES INC	Virginia	ARMY	RDTE/Tank - Automotive-Exploratory Develop	645
	MCDONNELL DOUGLAS CORPORATION	Missouri	ARMY	RDTE/Tank - Automotive-Exploratory Develop	879
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	938
	MICHIGAN TECHNICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	938
	ODETICS INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	40
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	99
	PHOTONICS CORPORATION	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	99
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	312
	PIONEER TECHNOLOGY INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	51
	POWDERED MATERIALS APPLICATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	49
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	265
	R. C. ASSOCIATES	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	92
	S TRON	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	SECOND DIFFERENCE INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	SILICON FILMS CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	243
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Tank - Automotive-Exploratory Develop	292
	SPECTRUM 39 LTD	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	SYNERNET CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	105
	TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	169
	TINDEV INC	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	49

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AC42 (CONTINUED)					
	TRANSITIONS RESEARCH CORP	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	235
	TRIANGLE RESEARCH & DEV CORP	N Carolina	ARMY	RDTE/Tank - Automotive-Exploratory Develop	276
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	660
	UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Tank - Automotive-Exploratory Develop	179
	R&D TOTAL				78,746
AC43	A A I CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Advanced Developmen	760
	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	508
	ANALYTIC SCIENCE CORP THE	Mass	ARMY	RDTE/Tank - Automotive-Advanced Developmen	625
	ARMORED VHCLE TCHNLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	12,987
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	14,715
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Tank - Automotive-Advanced Developmen	1,272
	COLEBRAND LIMITED	EGYPT	ARMY	RDTE/Tank - Automotive-Advanced Developmen	84
	CONTRAVES USA INC	Penn	ARMY	RDTE/Tank - Automotive-Advanced Developmen	32
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	100
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Advanced Developmen	126
	CONTRACTOR TOTAL	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	4,351
					4,477
	G & F COMPANY	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	2,465
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Advanced Developmen	173
		Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	568
	CONTRACTOR TOTAL				741
	KAMAN INSTRUMENTATION CORP	Colorado	ARMY	RDTE/Tank - Automotive-Advanced Developmen	51
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Tank - Automotive-Advanced Developmen	1,135
	MICHIGAN TCHNLGICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	924

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC43 (CONTINUED)					
	MTS SYSTEMS CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	199
	OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Tank - Automotive-Advanced Development	130,559
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	789
	VICKERS DEFENSE SYSTEMS	UNITED KIN	ARMY	RDTE/Tank - Automotive-Advanced Development	797
	R&D TOTAL				173,220
AC44	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	3,767
	ARMORED VHCL THNLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	14,409
	CASDE CORPORATION	California	NAVY	RDTE/Tank - Automotive-Engr Development	906
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Tank - Automotive-Engr Development	151-
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	4,660
	CONTRACTOR TOTAL	California	ARMY	RDTE/Tank - Automotive-Engr Development	31,856
	GENERAL DYNAMICS CORPORATION	Georgia	ARMY	RDTE/Tank - Automotive-Engr Development	36,516
	CONTRACTOR TOTAL	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	23,618
	GENERAL ELECTRIC COMPANY	Vermont	ARMY	RDTE/Tank - Automotive-Engr Development	34,151
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Engr Development	57,769
	NORTHERN INDUSTRIAL SERVICES	New York	ARMY	RDTE/Tank - Automotive-Engr Development	2,724
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	697
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Engr Development	386
	R&D TOTAL				54,844
AC45	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,651
	FOSTER MILLER INC	Mass	ARMY	RDTE/Tank - Automotive-Op Systems Developm	173,518
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	4,593
					47
					146

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC45 (CONTINUED)					
	HARSCO CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	10,945
	K C ELECTRONICS CORP	Kentucky	ARMY	RDTE/Tank - Automotive-Op Systems Developm	197
	MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Tank - Automotive-Op Systems Developm	3,883-
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	332
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Tank - Automotive-Op Systems Developm	450
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,053
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	74
	R&D TOTAL				13,954
AC46					
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Tank - Automotive-Management & Suppor	205
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Management & Suppor	2,314
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Tank - Automotive-Management & Suppor	150
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Management & Suppor	6,478
	R&D TOTAL				9,147
AC51					
	A A I CORPORATION	Maryland	USAF	RDTE/Weapons-Basic Research	296
	AMERICAN TELEPHONE & TELG CO	Penn	USAF	RDTE/Weapons-Basic Research	199
	BRUNSWICK CORPORATION	California	ARMY	RDTE/Weapons-Basic Research	94
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Weapons-Basic Research	95
	ENDOCHRONICS	Washington	USAF	RDTE/Weapons-Basic Research	45
	GENERAL ELECTRIC COMPANY	Florida	NAVY	RDTE/Weapons-Basic Research	50
	GMA INDUSTRIES INC	New Jersey	ARMY	RDTE/Weapons-Basic Research	50
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Basic Research	708-
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Weapons-Basic Research	50
	LORAL CORPORATION	Ohio	USAF	RDTE/Weapons-Basic Research	377
	MACH I INC	Penn	USAF	RDTE/Weapons-Basic Research	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC51 (CONTINUED)	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Weapons-Basic Research	292
	MARTINGALE RESEARCH CORP	Texas	ARMY	RDTE/Weapons-Basic Research	50
	MASSACHUSETTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Weapons-Basic Research	44
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Basic Research	216
	METRON INC	Penn	NAVY	RDTE/Weapons-Basic Research	28
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Weapons-Basic Research	394
	ODETICS INC	California	ARMY	RDTE/Weapons-Basic Research	668
	OPTICS ONE INC	California	ARMY USAF	RDTE/Weapons-Basic Research RDTE/Weapons-Basic Research	50 177
			STATE TOTAL		227
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Weapons-Basic Research	119
	POINT INDUSTRIES CORP	New York	ARMY	RDTE/Weapons-Basic Research	67
	PRC INC	New Mexico	USAF	RDTE/Weapons-Basic Research	132
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Weapons-Basic Research	549
	R & D ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Basic Research	220
	REMINGTON ARMS CO INC	New York	ARMY	RDTE/Weapons-Basic Research	3,701
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Basic Research	300
		Georgia	ARMY	RDTE/Weapons-Basic Research	578
			CONTRACTOR TOTAL		878
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Basic Research	337
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Basic Research	163
	SYNDETIX INC	New Mexico	USAF	RDTE/Weapons-Basic Research	265
	TANNER RESEARCH INC	California	NAVY	RDTE/Weapons-Basic Research	52
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Weapons-Basic Research	480

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC51 (CONTINUED)					
	UNIVERSITY OF VIRGINIA	Texas	ARMY	RDTE/Weapons-Basic Research	2,236
	WYMAN GORDON COMPANY	California	NAVY	RDTE/Weapons-Basic Research	504
	R&D TOTAL				12,220
	AC52 A A I CORPORATION	Maryland	USAF	RDTE/Weapons-Exploratory Development	492
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Weapons-Exploratory Development	500
			USAF	RDTE/Weapons-Exploratory Development	625
	STATE TOTAL				1,125
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	259
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Exploratory Development	374
	AVCO CORPORATION	Mass	ARMY	RDTE/Weapons-Exploratory Development	300
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Weapons-Exploratory Development	347
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Weapons-Exploratory Development	144
	CALIFORNIA MUNITIONS DEVELOPMT	California	ARMY	RDTE/Weapons-Exploratory Development	101
	COLTS MANUFACTURING COMPANY	Conn	ARMY	RDTE/Weapons-Exploratory Development	57
	CONCORD ASSOCIATES INC	Virginia	ARMY	RDTE/Weapons-Exploratory Development	47
	DEFENSE DIAMOND DEV CO J/V	Mass	NAVY	RDTE/Weapons-Exploratory Development	30
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	ARMY	RDTE/Weapons-Exploratory Development	237
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Weapons-Exploratory Development	60
	FIORE INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Exploratory Development	76
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Exploratory Development	217
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Exploratory Development	1,297
	GENERAL ATOMICS	New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,436
	GENERAL ELECTRIC COMPANY	Vermont	USAF	RDTE/Weapons-Exploratory Development	1,450
	HI SHEAR CORPORATION	Nevada	NAVY	RDTE/Weapons-Exploratory Development	49

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R&D	CONTRACTOR NAME	ST/CTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Exploratory Development	660
	I A P RESEARCH INC	Ohio	USAF	RDTE/Weapons-Exploratory Development	55
	INTEGRATED SENSORS INC	New York	USAF	RDTE/Weapons-Exploratory Development	50
	JAYCOR	California	USAF	RDTE/Weapons-Exploratory Development	25-
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Weapons-Exploratory Development	31-
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	105
	LANDEC LABS INC	California	USAF	RDTE/Weapons-Exploratory Development	245
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Weapons-Exploratory Development	45
	LORAL CORPORATION	Arizona	USAF	RDTE/Weapons-Exploratory Development	4,669
		California	NAVY	RDTE/Weapons-Exploratory Development	4,380
	CONTRACTOR TOTAL				9,049
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Weapons-Exploratory Development	27-
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Weapons-Exploratory Development	200
			NAVY	RDTE/Weapons-Exploratory Development	200
			USAF	RDTE/Weapons-Exploratory Development	49
	STATE TOTAL				449
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Exploratory Development	1,143
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Exploratory Development	1,000
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Weapons-Exploratory Development	1,551
	MINNESOTA MINING & MFG CO	Mass	NAVY	RDTE/Weapons-Exploratory Development	206
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	60
		New Mexico	ARMY	RDTE/Weapons-Exploratory Development	130
	CONTRACTOR TOTAL				190
	MOTOROLA INC	Arizona	USAF	RDTE/Weapons-Exploratory Development	3,241
	NAVSYS CORP	Colorado	NAVY	RDTE/Weapons-Exploratory Development	50

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AC52 (CONTINUED)

NEW MEXICO INST OF MIN TECHNLGY	New Mexico	ARMY NAVY	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	\$	55 1,126
NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Exploratory Development		1,181
ODETICS INC	California	ARMY	RDTE/Weapons-Exploratory Development		1,568
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Exploratory Development		105
ORLANDO TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Exploratory Development		35
PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development		376
PLASMATRONICS INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development		93
PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Weapons-Exploratory Development		60
PULSE SCIENCES INC	California	NAVY	RDTE/Weapons-Exploratory Development		77
QUANTIC INDUSTRIES INC	California	USAF	RDTE/Weapons-Exploratory Development		3,369
R & D ASSOCIATES	California	USAF	RDTE/Weapons-Exploratory Development		28
	Colorado	USAF	RDTE/Weapons-Exploratory Development		36
	New Mexico	USAF	RDTE/Weapons-Exploratory Development		250
CONTRACTOR TOTAL					2,549
RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development		2,835
					86
					5,601
					5,687
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Weapons-Exploratory Development		100
	New Mexico	USAF	RDTE/Weapons-Exploratory Development		458
CONTRACTOR TOTAL					558
ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Exploratory Development		203
S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development		593
SCHAFFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Exploratory Development		140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC52 (CONTINUED)

SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	\$	300
SPARTA INC	California	ARMY	RDTE/Weapons-Exploratory Development		222
STRESAU R LABORATORY INC	Wisconsin	NAVY	RDTE/Weapons-Exploratory Development		49
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Weapons-Exploratory Development		197
TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Weapons-Exploratory Development		319
THIOLOL CORPORATION	Utah	USAF	RDTE/Weapons-Exploratory Development		290
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Exploratory Development		100
UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Weapons-Exploratory Development		823
UNIVERSITY OF IDAHO	Idaho	USAF	RDTE/Weapons-Exploratory Development		28
UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Weapons-Exploratory Development		41
UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Weapons-Exploratory Development		98
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Exploratory Development		589
R&D TOTAL					46,018
AC53 ACUREX CORPORATION	Ohio	USAF	RDTE/Weapons-Advanced Development		1,520
ADAPTIVE OPTICS ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development		576
AMERICAN TELEPHONE & TELG CO	Penn	USAF	RDTE/Weapons-Advanced Development		574
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,470
ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Weapons-Advanced Development		400
AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development		5,816
BALL CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development		3,934
	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,321
CONTRACTOR TOTAL					5,255
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Advanced Development		2,115
BOEING COMPANY THE	Washington	NAVY	RDTE/Weapons-Advanced Development		2,110-

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AC53 (CONTINUED)							
		STATE TOTAL					
	BCLT BERANEK & NEWMAN INC	California	NAVY	RDTE/Weapons-Advanced Development			349
	CAMPBELL ALLEN M GEN CNTRS	New Mexico	USAF	RDTE/Weapons-Advanced Development			1,761-
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development			799
	CONTRAVES USA INC	Penn	USAF	RDTE/Weapons-Advanced Development			71-
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Advanced Development			2,374
	E I C LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development			3,376
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Weapons-Advanced Development			2,215
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Weapons-Advanced Development			59
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Weapons-Advanced Development			50
	FIBERTEK INC	Virginia	USAF	RDTE/Weapons-Advanced Development			955
	FIORIO INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Advanced Development			376
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Advanced Development			49
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development			447
	GARRET CORP	California	USAF	RDTE/Weapons-Advanced Development			3,330
	GCD ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development			1,130
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Weapons-Advanced Development			29-
		Michigan	NAVY	RDTE/Weapons-Advanced Development			289
							1,068
							252
							1,320
	CONTRACTOR TOTAL						588
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Weapons-Advanced Development			500
		Penn	NAVY	RDTE/Weapons-Advanced Development			32
			USAF	RDTE/Weapons-Advanced Development			532
		STATE TOTAL					
		Vermont	NAVY	RDTE/Weapons-Advanced Development			94

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION

AC53 (CONTINUED)

CONTRACTOR TOTAL						\$
GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Weapons-Advanced Development			1,214
	Florida	USAF	RDTE/Weapons-Advanced Development			400
	Arizona	USAF	RDTE/Weapons-Advanced Development			2,586
	California	USAF	RDTE/Weapons-Advanced Development			114
	Conn	USAF	RDTE/Weapons-Advanced Development			3,482
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Advanced Development			1,078
	Conn	USAF	RDTE/Weapons-Advanced Development			3,511
	New Mexico	USAF	RDTE/Weapons-Advanced Development			5,204
	New Mexico	USAF	RDTE/Weapons-Advanced Development			3,539
	California	USAF	RDTE/Weapons-Advanced Development			515
LOCKHEED MISSILES & SPACE CO	New Mexico	USAF	RDTE/Weapons-Advanced Development			4,327
	California	USAF	RDTE/Weapons-Advanced Development			1,858
	New Mexico	USAF	RDTE/Weapons-Advanced Development			6,185
	New Mexico	USAF	RDTE/Weapons-Advanced Development			63-
	California	NAVY USAF	RDTE/Weapons-Advanced Development RDTE/Weapons-Advanced Development			5,578 67-
STATE TOTAL						5,511
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development			135
	Florida	ARMY	RDTE/Weapons-Advanced Development			32-
	Maryland	NAVY	RDTE/Weapons-Advanced Development			108
	California	NAVY USAF	RDTE/Weapons-Advanced Development RDTE/Weapons-Advanced Development			211 100
	STATE TOTAL					2,617-
CONTRACTOR TOTAL						2,517-
MAXWELL LABORATORIES INC	Missouri	USAF	RDTE/Weapons-Advanced Development			2,358
CONTRACTOR TOTAL						
MCDONNELL DOUGLAS CORPORATION						

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$	33-
AC53 (CONTINUED)						
	MCDONNELL DOUGLAS SPACE SYS CO	New Mexico	USAF	RDTE/Weapons-Advanced Development		33-
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Advanced Development		75
		New Mexico	USAF	RDTE/Weapons-Advanced Development		2,809
						2,884
						1,619
	CONTRACTOR TOTAL					
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Advanced Development		156
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Advanced Development		67
	POWER SPECTRA INC	California	USAF	RDTE/Weapons-Advanced Development		485
	PRC INC	New Mexico	USAF	RDTE/Weapons-Advanced Development		639
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development		2,197
		New Mexico	USAF	RDTE/Weapons-Advanced Development		2,836
	CONTRACTOR TOTAL					
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Advanced Development		4,231
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Advanced Development		4,421
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development		3,322
	SCHAFFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Advanced Development		808
	SCI TEC INC	New Jersey	USAF	RDTE/Weapons-Advanced Development		400
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Advanced Development		174
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,178
	SONALYSTS INC	Conn	NAVY	RDTE/Weapons-Advanced Development		30
	SPARTA INC	California	USAF	RDTE/Weapons-Advanced Development		256
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Weapons-Advanced Development		728
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Advanced Development		281
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Weapons-Advanced Development		3,149
		Georgia	ARMY	RDTE/Weapons-Advanced Development		98

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$

AC53 (CONTINUED)

CONTRACTOR TOTAL

TEXAS INSTRUMENTS INC

Texas USAF RDTE/Weapons-Advanced Development

\$ 3,247

TRW INC

California ARMY RDTE/Weapons-Advanced Development

1,140

USAF RDTE/Weapons-Advanced Development

1,384

16,631

18,015

STATE TOTAL

New Mexico USAF RDTE/Weapons-Advanced Development

363

CONTRACTOR TOTAL

UNITED TECHNOLOGIES CORP

Conn USAF RDTE/Weapons-Advanced Development

965

Florida USAF RDTE/Weapons-Advanced Development

1,104

CONTRACTOR TOTAL

UNIVERSITY OF ARIZONA

Arizona USAF RDTE/Weapons-Advanced Development

1,145

UNIVERSITY OF FLORIDA

Florida USAF RDTE/Weapons-Advanced Development

836

UNIVERSITY OF SOUTH FLORIDA

Florida USAF RDTE/Weapons-Advanced Development

240

VOSS SCIENTIFIC

New Mexico USAF RDTE/Weapons-Advanced Development

1,103

WOODS HOLE OCNRPIC INSTITUTE

Mass NAVY RDTE/Weapons-Advanced Development

266

WYLE LABORATORIES

California USAF RDTE/Weapons-Advanced Development

1,053

R&D TOTAL

119,282

AC54 ADEC INTERNATIONAL AUTOMATION

Penn ARMY RDTE/Weapons-Engineering Development

410

ALLIANT TECHSYSTEMS INC

California NAVY RDTE/Weapons-Engineering Development

3,454

Minnesota NAVY RDTE/Weapons-Engineering Development

10,854

CONTRACTOR TOTAL

14,308

ANALYTIC SCIENCE CORP THE

Florida USAF RDTE/Weapons-Engineering Development

2,013

ARINC RESEARCH CORPORATION

California NAVY RDTE/Weapons-Engineering Development

3,206

AUBURN UNIVERSITY

Alabama USAF RDTE/Weapons-Engineering Development

379

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC54 (CONTINUED)					
	AVCO CORPORATION	Mass	USAF	RDTE/Weapons-Engineering Development	26,310
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Weapons-Engineering Development	92
	CDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	2,468
	BICOASTAL CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	4,000
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	448
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Weapons-Engineering Development	37
	CHAMBERLAIN MANUFACTURING CORP	Iowa	ARMY NAVY	RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development	26- 5,000
			STATE TOTAL		4,974
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Engineering Development	50
		Virginia	USAF	RDTE/Weapons-Engineering Development	177-
					127-
	CONTRACTOR TOTAL				235
	CONTROL DATA CANADA LTD	CANADA	ARMY	RDTE/Weapons-Engineering Development	378
	DATACOM INC	Florida	NAVY	RDTE/Weapons-Engineering Development	50
	DATATEC INC FORT WALTON BEACH	Florida	NAVY	RDTE/Weapons-Engineering Development	135
	DYNAMAC CORPORATION	Maryland	NAVY	RDTE/Weapons-Engineering Development	50
	ELECTRONIC COMPONENT SALES	Virginia	NAVY	RDTE/Weapons-Engineering Development	623-
	GENERAL DYNAMICS CORPORATION	California	ARMY NAVY USAF	RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development	2,127 5,525
			STATE TOTAL		7,029
	HARRIS CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development	36
	HARSCO CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development	77,649
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Weapons-Engineering Development	235,788
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Engineering Development	735

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC54 (CONTINUED)

LEAR ASTRONICS CORP	California	USAF	RDTE/Weapons-Engineering Development	\$	629
LINK SAT INC	Virginia	NAVY	RDTE/Weapons-Engineering Development		136
LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Engineering Development		75,625
MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Weapons-Engineering Development		22,432
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Engineering Development		1,721
NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Engineering Development		922
OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Weapons-Engineering Development		63
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Engineering Development		405
PACER SYSTEMS INC	Florida	NAVY	RDTE/Weapons-Engineering Development		3,621
S TRON	California	ARMY	RDTE/Weapons-Engineering Development		191
SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Engineering Development		406
SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Engineering Development		4,090
SRI INTERNATIONAL	California	NAVY	RDTE/Weapons-Engineering Development		29
T S C INC	California	NAVY	RDTE/Weapons-Engineering Development		157
TECHNICAL DATA DEVELOPMENT	Illinois	ARMY	RDTE/Weapons-Engineering Development		99
TECHNOMICS INC	California	NAVY	RDTE/Weapons-Engineering Development		260
TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Weapons-Engineering Development		1,801
UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Engineering Development		1,188
WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Weapons-Engineering Development		8,348
R&D TOTAL					502,726
AC55 ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Operational Systems Developme		296
AVCO CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme		313
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		1,452
BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		1,039

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC55 (CONTINUED)					
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	\$ 80
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	829
	ENTEK INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	294
	FIGORE INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	50
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Weapons-Operational Systems Developme	500
	HONEYWELL INC	New Mexico	ARMY	RDTE/Weapons-Operational Systems Developme	870
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Operational Systems Developme	117
	HUNTING ENGINEERING LTD	UNITED KIN	USAF	RDTE/Weapons-Operational Systems Developme	74
	I R T CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	660
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	122
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	94
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Operational Systems Developme	327
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	692
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	3,721
	OKLAHOMA STATE UNIVERSITY	Florida	USAF	RDTE/Weapons-Operational Systems Developme	1,985
	PRC INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	2,091
	PROTEUS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	604
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Operational Systems Developme	323
		Colorado	USAF	RDTE/Weapons-Operational Systems Developme	715
	CONTRACTOR TOTAL				1,038
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	412
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	318
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	83
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	5,994

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AC55 (CONTINUED)					
	SYNETIX INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	1,950-
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	336
	TRACOR FLIGHT SERVICES INC	California	NAVY	RDTE/Weapons-Operational Systems Developme	1,115
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Operational Systems Developme	95
	R&D TOTAL				23,651
AC56	ANALYTIC SCIENCE CORP THE	Florida	USAF	RDTE/Weapons-Management & Support	125
	ANTRO PIX CORPORATION	Texas	USAF	RDTE/Weapons-Management & Support	74
	AVOCA LABORATORIES INC	New York	USAF	RDTE/Weapons-Management & Support	47
	AVOGADRO ENERGY SYSTEMS INC	New York	USAF	RDTE/Weapons-Management & Support	50
	BIO IMAGING RESEARCH INC	Illinois	USAF	RDTE/Weapons-Management & Support	51
	BURKE TECHNOLOGIES INC	California	USAF	RDTE/Weapons-Management & Support	50
	DEFENSE TECHNOLOGY INC	Virginia	NAVY	RDTE/Weapons-Management & Support	682
	DISPLAYTECH INC	Colorado	USAF	RDTE/Weapons-Management & Support	170
	DYNACS ENGINEERING CO INC	Florida	USAF	RDTE/Weapons-Management & Support	48
	ELECTRIC PROPULSION LABORATORY	California	USAF	RDTE/Weapons-Management & Support	87
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Weapons-Management & Support	51
	FIORE INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Management & Support	320
	FOSTER MILLER INC	Mass	USAF	RDTE/Weapons-Management & Support	178
	LASER PHOTONICS INC	Mass	USAF	RDTE/Weapons-Management & Support	49
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Weapons-Management & Support	605
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Weapons-Management & Support	572
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Weapons-Management & Support	447
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Management & Support	34
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Weapons-Management & Support	311

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC56 (CONTINUED)

SECHAN ELECTRONICS INC	Penn	ARMY	RDTE/Weapons-Management & Support	\$	648
SPACE & AERONAUTICAL	Colorado	USAF	RDTE/Weapons-Management & Support		50
SRS TECHNOLOGIES	Alabama	USAF	RDTE/Weapons-Management & Support		50
TACAN CORPORATION	California	USAF	RDTE/Weapons-Management & Support		55
TALANDIC RESEARCH CORPORATION	Arizona	USAF	RDTE/Weapons-Management & Support		264
TEXAS RESEARCH INTERNATIONAL	Texas	USAF	RDTE/Weapons-Management & Support		58
ULTRAMET	California	USAF	RDTE/Weapons-Management & Support		49
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Weapons-Management & Support		50
VITRO CORPORATION	Louisiana	NAVY	RDTE/Weapons-Management & Support		38
	Maine	NAVY	RDTE/Weapons-Management & Support		705
	Michigan	NAVY	RDTE/Weapons-Management & Support		124
	Miss	NAVY	RDTE/Weapons-Management & Support		634
	New Jersey	NAVY	RDTE/Weapons-Management & Support		132
	Virginia	NAVY	RDTE/Weapons-Management & Support		7,207
					8,840
CONTRACTOR TOTAL					205
VOSS SCIENTIFIC	New Mexico	USAF	RDTE/Weapons-Management & Support		14,220
R&D TOTAL					
AC61 ADAPTIVE SENSORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic		50
ADVEC CORP	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Basic		226
AEL INDUSTRIES INC	Penn	USAF	RDTE/Electronics & Communication Eq-Basic		520
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic		190
ALLIED SIGNAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic		120
AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Basic		1,200
AMHERST SYSTEMS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic		50

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AC61 (CONTINUED)					
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Basic	200
	STATE TOTAL				250
	ANALYSIS & SIMULATION INC	New York	USAF	RDTE/Electronics & Communication Eq-Basic	50
	APTEK INC	Colorado	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	ARETE ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Basic	200
	ASSOCIATES ENTERPRISES	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	283
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	50
		Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	100
		Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	2,526
			NAVY	RDTE/Electronics & Communication Eq-Basic	55
	STATE TOTAL				2,581
	CONTRACTOR TOTAL				2,681
	B K SECURITY	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	501
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	1,860
	CENTER FOR REMOTE SENSING	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	260
	CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	316
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	CLEMSON UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	253
	COMBUSTION ENGINEERING INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	182
	COMWHEALTH COMPUTER RESEARCH	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	COPROCESSOR CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	185
	CUBIC CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Basic	717
	D 2C	California	NAVY	RDTE/Electronics & Communication Eq-Basic	55

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$

AC61 (CONTINUED)

DATA SYSTEMS ANALYSTS INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	243
DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	250
DCS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Electronics & Communication	Eq-Basic	49
DIGITAL RADIO CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	91
DYNAFLOW INC	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Basic	267
DYNAMIC ANALYSIS & TEST ASSOC	California	USAF	RDTE/Electronics & Communication	Eq-Basic	350
E SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication	Eq-Basic	635
E TEK DYNAMICS INC	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
EG&G INC	Nevada	USAF	RDTE/Electronics & Communication	Eq-Basic	349
ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Electronics & Communication	Eq-Basic	98
ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
ELECTRO RADIATION INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	100
ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Basic	47
ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
ENERGY SCIENCE LABORATORIES	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
EPSILON LAMBDA ELECTRONICS	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	489
	GERMANY	ARMY	RDTE/Electronics & Communication	Eq-Basic	257
CONTRACTOR TOTAL					746
FASTMAN INC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
FEMME COMP INC	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	162
FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	182
FLIGHT INNOVATIONS	Washington	NAVY	RDTE/Electronics & Communication	Eq-Basic	111

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	GARDNER RESEARCH CO	California	NAVY	RDTE/Electronics & Communication Eq-Basic	43
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Basic	1,374
		New York	NAVY	RDTE/Electronics & Communication Eq-Basic	231
	CONTRACTOR TOTAL				1,605
	GENERAL NETWORK CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	25
	GENERAL SCIENCES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	70
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	62
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,772
	GREEN MOUNTAIN RADIO RES CO	Vermont	ARMY	RDTE/Electronics & Communication Eq-Basic	310
	GSC ASSOCIATES INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	HARRIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	81
	HAYES & ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	98
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic	379
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	93
	II VI INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	497
	ILLINOIS SUPERCONDUCTOR CORP	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	INTEGRATED SENSORS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	INTEGRATED SOFTWARE INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	298
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	INTERACTIVE INTELLIGENT IMAGE	California	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	INTERNATIONAL MOBILE MCHS CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	INTERSCIENCE INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	48

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	IRI INTERNATIONAL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	173
	ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic	403
	ITT GILFILLAN	California	NAVY	RDTE/Electronics & Communication Eq-Basic	46
	KAISER OPTICAL SYSTEMS INC	Michigan	ARMY	RDTE/Electronics & Communication Eq-Basic	100
	L N K CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	40
	LABTEK CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	LASER TECHNOLOGY ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	LICA SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	144
	LOCKHEED SANDERS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	271
	LORAL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Basic	250
	MAGNAVOX GOVT & INDUSTRIAL ELCTR	Indiana	USAF	RDTE/Electronics & Communication Eq-Basic	54
	MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	62
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	174
	MERIT TECHNOLOGY INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	MICRILOR INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	MICROWAVE DEVICE TECHNOLOGY	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	MYRIAS COMPUTER CORP	New Mexico	USAF	RDTE/Electronics & Communication Eq-Basic	99-
	NAVSYS CORP	Colorado	ARMY USAF	RDTE/Electronics & Communication Eq-Basic RDTE/Electronics & Communication Eq-Basic	47 50
		STATE TOTAL			97
	NORTHROP CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	210
		Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	130
	CONTRACTOR TOTAL				360

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	NOVA ENGINEERING INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	OCEAN & ATMOSPHERIC SCIENCE	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	276
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	74
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	186
	OREGON GRAD CTR STUDY RESEARCH	Oregon	ARMY	RDTE/Electronics & Communication Eq-Basic	400
	ORINCON CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	OXFORD COMPUTER INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Basic	355
	PECHT ASSOCIATES	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	PERII SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	PROGRAM DEVELOPMENT CORP	New York	USAF	RDTE/Electronics & Communication Eq-Basic	200
	Q DOT INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	230
	RACAL COMMUNICATIONS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Basic	13,516
	RACAL RECORDERS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	59
	RALCON	Utah	ARMY	RDTE/Electronics & Communication Eq-Basic	90
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	60
	RESEARCH DEVICES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	300
	RF MICROSYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	621
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	556
	CONTRACTOR TOTAL	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	281
					837
	S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	676
	SANDERS & AEL JV	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	25,254
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CTRY	DEPT	R&D DESCRIPTION	
AC61 (CONTINUED)					
			USAF	RTE/Electronics & Communication Eq-Basic	\$ 300
		STATE TOTAL			350
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	503
	SCIENTIFIC SYSTEMS INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SEIDCON INC	California	ARMY	RTE/Electronics & Communication Eq-Basic	50
	SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	59
	SIGNAL ANALYTICS	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	178
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	CONTRACTOR TOTAL				228
	SOFTWARE ENGINEERING ASSOC	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SONATECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	233
	SPACE APPLICATIONS CORPORATION	Washington	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SPARTA INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	56
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,658
	CONTRACTOR TOTAL				1,714
	SPIRE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	32
	SRI INTERNATIONAL	California	NAVY	RDTE/Electronics & Communication Eq-Basic	189
	SYSTEM DYNAMICS INTERNATIONAL	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	108
	SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	T A I CORPORATION	Alabama	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	T P L INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	510
	TECHISCAN INC	Utah	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	TECHNOCHEM CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Basic	52

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AC61	(CONTINUED)				
	TESSCO ELCTRONIC SYSTEMS SPPORT	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	676
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	652
	TEXAS MICROSYSTEMS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	TRI TESSCO	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	177
	TRW INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	288
	UNIVERSITY OF HOUSTON SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	117
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	80
	UNIVERSITY OF KANSAS	Kansas	NAVY	RDTE/Electronics & Communication Eq-Basic	70
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Electronics & Communication Eq-Basic	1,944
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Electronics & Communication Eq-Basic	65
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	12,387
	UNIXPROS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	49
			NAVY	RDTE/Electronics & Communication Eq-Basic	49
			STATE TOTAL		98
	VISTA RESEARCH CORPORATION	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	144
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	WATKINS JOHNSON COMPANY	California	USAF	RDTE/Electronics & Communication Eq-Basic	296
	XQ INSTRUMENTS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	251
	R&D TOTAL				88,544
AC62	A A I CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Explor	517
	A J SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	51
	ADVANCED ACOUSTICAL CONCEPTS	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	102
	ADVANCED ENTERMEASURE SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Explor	257

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,317
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	AEL DEFENSE CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	425
	AEROJET	California	USAF	RDTE/Electronics & Communication Eq-Explor	142
	AEROSMITH SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	556
	AHNTech INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	299
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	4,239
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	251
	CONTRACTOR TOTAL				4,490
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	50-
	ALTERNATIVE SYSTEM CONCEPTS	N.H.	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	AMERICAN GNC CORP	California	USAF	RDTE/Electronics & Communication Eq-Explor	50
	AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	211
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ANALOGY INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	ANALYTIC SCIENCE CORP THE	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	793
	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	47
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	5,532
	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	69
	APPLIED SCIENCES INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor	57
	ARGOTEC INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	59
	ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	1,234
	ASTRON CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	36

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	

AC62 (CONTINUED)

AURA SYSTEMS	California	NAVY		RDTE/Electronics & Communication Eq-Explor	\$ 48
BALL CORPORATION	Colorado	ARMY NAVY		RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	339 176
	STATE TOTAL				515
BELL COMMUNICATIONS RESEARCH	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Explor	450
BOEING AEROSPACE & ELECTRONICS	Washington	ARMY		RDTE/Electronics & Communication Eq-Explor	103
BOEING COMPANY THE	Washington	ARMY		RDTE/Electronics & Communication Eq-Explor	150
BOLT BERANEK & NEWMAN INC	Mass	ARMY USAF		RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	13,279 803
	STATE TOTAL				14,082
BOULDER MICROWAVE TECHNOLOGIES	Colorado	NAVY		RDTE/Electronics & Communication Eq-Explor	51
CAD LANGUAGE SYSTEMS INC	Maryland	ARMY		RDTE/Electronics & Communication Eq-Explor	120
CANADIAN COMMERCIAL CORP	CANADA	USAF		RDTE/Electronics & Communication Eq-Explor	360
CHANG INDUSTRY INC	California	ARMY		RDTE/Electronics & Communication Eq-Explor	302
COMMUNICATIONS SATELLITE CORP	Maryland	ARMY		RDTE/Electronics & Communication Eq-Explor	71
COMPACT SOFTWARE INC	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Explor	50
COMPUTER SCIENCES CORPORATION	California	NAVY		RDTE/Electronics & Communication Eq-Explor	2,727
	Florida	USAF		RDTE/Electronics & Communication Eq-Explor	200
	CONTRACTOR TOTAL				2,927
CRYSTALLUME	California	ARMY		RDTE/Electronics & Communication Eq-Explor	50
DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Explor	26
DBA SYSTEMS INC	Florida	ARMY		RDTE/Electronics & Communication Eq-Explor	2,777
DCS CORPORATION	Virginia	NAVY		RDTE/Electronics & Communication Eq-Explor	49
DE LORME PUBLISHING COMPANY	Maine	ARMY		RDTE/Electronics & Communication Eq-Explor	103
DELTA INFORMATION SYSTEMS	Penn	NAVY		RDTE/Electronics & Communication Eq-Explor	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&L DESCRIPTION-	\$
AC62 (CONTINUED)	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	54
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Electronics & Communication Eq-Explor	168
	DREXEL UNIVERSITY	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	97
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	1,014
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	299
	EDGEWOOD TELESERVICES	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	53
	EESOF INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	548
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	ELECTRO OPTEK CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	ELECTRO SYSTEMS INTERNATIONAL	Georgia	USAF	RDTE/Electronics & Communication Eq-Explor	707
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Electronics & Communication Eq-Explor	178
	ELECTRONICS & SPACE CORP	Missouri	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	ELECTROSCAN CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	355
	EMCORE CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	112
	EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Electronics & Communication Eq-Explor	90
	EMRC INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	31
	ENERDYNE TECHNOLOGIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	884
	ENGINEERING SPECIALTIES SERVIC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	96
	ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	56
	EON INSTRUMENTATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	39
	EPITAXX INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	221
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	250

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AC62 (CONTINUED)

ESL INCORPORATED	California	NAVY	RDTE/Electronics & Communication	Eq-Explor	\$ 1,069
ETEC SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication	Eq-Explor	4,000
EVOLUTIONARY TECHNOLOGIES INC	Texas	NAVY	RDTE/Electronics & Communication	Eq-Explor	50
F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Explor	120
FALON INC	California	NAVY	RDTE/Electronics & Communication	Eq-Explor	238
FELCORP	Florida	ARMY	RDTE/Electronics & Communication	Eq-Explor	50
FIBERTEK INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Explor	445
FORCE INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Explor	81
FOSTER MILLER INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Explor	50
FREQUENCY ELECTRONICS INC	New York	ARMY	RDTE/Electronics & Communication	Eq-Explor	250
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Explor	299
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Explor	108
	New York	ARMY	RDTE/Electronics & Communication	Eq-Explor	415
CONTRACTOR TOTAL					523
GENERAL TECHNICAL SERVICES	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Explor	30
GEO CENTERS INC	Mass	ARMY	RDTE/Electronics & Communication	Eq-Explor	3,281
GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Explor	95
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication	Eq-Explor	2,443
	NAVY	NAVY	RDTE/Electronics & Communication	Eq-Explor	110
STATE TOTAL					2,553
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Electronics & Communication	Eq-Explor	187
GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Electronics & Communication	Eq-Explor	5,128
HARRIS CORPORATION	Florida	NAVY	RDTE/Electronics & Communication	Eq-Explor	150
	USAF	USAF	RDTE/Electronics & Communication	Eq-Explor	2,555
STATE TOTAL					2,705

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	HEWLETT PACKARD COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	84
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	100
	HNC INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	232
	HONEYWELL INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	1,148
			NAVY	RDTE/Electronics & Communication Eq-Explor	72
			USAF	RDTE/Electronics & Communication Eq-Explor	209
	STATE TOTAL				1,429
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,274
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,689
	STATE TOTAL				2,963
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	310
		Georgia	ARMY	RDTE/Electronics & Communication Eq-Explor	47
	CONTRACTOR TOTAL				357
	INTEL CORPORATION	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	2,581
	INTERMETRICS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	230
	INTERNATIONAL BUS MCHS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	334
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	2,038
	CONTRACTOR TOTAL				2,372
	INTERSPEC INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	110
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	ITT & MARTIN MARIETTA JV	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	15,056
	ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	302
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	500
	CONTRACTOR TOTAL				802
	J J M SYSTEMS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	40

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AC62 (CONTINUED)					
	J R S RESEARCH LABORATORIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	233
	JTT COMPANY	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	98
	K M S FUSION INC	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	142
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	95
		New York	USAF	RDTE/Electronics & Communication Eq-Explor	350
	CONTRACTOR TOTAL				445
	KDI PRECISION PRODUCTS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	603
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	102-
	KOPIN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	254
	LASER POWER CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	LASERGENICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Explor	50
	LITTON SYSTEMS INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	350
		California	ARMY	RDTE/Electronics & Communication Eq-Explor	645
			NAVY	RDTE/Electronics & Communication Eq-Explor	2,010
	STATE TOTAL				2,655
	CONTRACTOR TOTAL				3,005
	LOCKHEED CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	155
		N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	7,120
	CONTRACTOR TOTAL				7,275
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,300
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	1,556
	LORAL CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	155
			NAVY	RDTE/Electronics & Communication Eq-Explor	295
	STATE TOTAL				450

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AC62 (CONTINUED)					
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Explor	\$ 2,128
	M/A COM LASER DIODE INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	500
	M/A COM PHI INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	51
	MAGNAVOX GOVT & INDUSTRL ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Explor	442
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Explor	708
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	5,284
	CONTRACTOR TOTAL				6,434
	MANDEX INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	MASSACHSETTS TECHNOLOGICAL LAB	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	MATERIALS TECHNOLOGIES CORP	Conn	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	MC MAHAN ELECTRO OPTICS INC	N Carolina	USAF	RDTE/Electronics & Communication Eq-Explor	50
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Electronics & Communication Eq-Explor	422
			USAF	RDTE/Electronics & Communication Eq-Explor	422
	STATE TOTAL				987
	MICROSCIENCE INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	MICROWAVE TECHNOLOGY INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	MVM ELECTRONICS INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	140
	NAVCOM DEFENSE ELECTRONICS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	357
	NAVMAR INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	NAVSYS CORP	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	599
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	641
	NOISE COM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	NORTH EAST SEMICONDUCTOR INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	277
	NORTHROP CORPORATION	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	

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AC62 (CONTINUED)					
	OCEAN SYSTEMS RESEARCH INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	398
	OGDEN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	299
	OPTIVISION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	300
	OPTRON SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Explor	48
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	3,938
	PACIFIC MONOLITHICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	498
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	598
			NAVY	RDTE/Electronics & Communication Eq-Explor	924
					1,522
	STATE TOTAL				
	PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	271
	PENN COMPUTER ASSOCIATES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	110
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	PHELAN COMPUTING INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,109
	PHONAN CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	PHOTONICS SYSTEMS INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	150
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	434
	PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	330
	POLHEMUS NVGTN SCNC INC	Vermont	NAVY	RDTE/Electronics & Communication Eq-Explor	261
	PRAGMATICS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	939
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,028
	QUANTUM MAGNETICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	QUARTZTRONICS INC	Utah	ARMY	RDTE/Electronics & Communication Eq-Explor	110
	RADIX TECHNOLOGIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	63

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	RAMSEARCH CO	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	125
	RAYOVAC CORPORATION	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Explor	346
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	205
		Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	200
			USAF	RDTE/Electronics & Communication Eq-Explor	103
	STATE TOTAL				303
		Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Explor	372
	CONTRACTOR TOTAL				880
	RECON OPTICAL INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	247
	REVCO INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	300
	ROBERT HECHT	California	NAVY	RDTE/Electronics & Communication Eq-Explor	30
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ROME RESEARCH CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	355
	ROOS INSTRUMENTS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	44
	SAFT AMERICA INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	1,012
	SAN DIEGO STATE UNIVERSITY FOUN	California	NAVY	RDTE/Electronics & Communication Eq-Explor	531
	SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	150
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	94
		Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	825
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	700
			NAVY	RDTE/Electronics & Communication Eq-Explor	302
	STATE TOTAL				1,002
	CONTRACTOR TOTAL				1,921
	SEAY THOMAS S INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	677

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R-D DESCRIPTION	

AC62 (CONTINUED)

CONTRACTOR TOTAL		Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	\$
SIERRA MONOLITHICS INC		California	ARMY	RDTE/Electronics & Communication Eq-Explor	30
SIERRA NEVADA CORPORATION		Nevada	ARMY	RDTE/Electronics & Communication Eq-Explor	707
SILTRONIX INC		California	NAVY	RDTE/Electronics & Communication Eq-Explor	120
SOFTWARE PRODUCTIVITY SOLUTIONS		Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	409
SPARTON CORPORATION		Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	147
SPECIALTY CABLE CORP		Conn	NAVY	RDTE/Electronics & Communication Eq-Explor	175
SPECTRA DIODE LABORATORIES		California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,268
SPERRY MARINE INC		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	30
SPIRE CORPORATION		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	1,345
SRI INTERNATIONAL		California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	30- 50 726 50 61
STATE TOTAL					837
SRS TECHNOLOGIES		Alabama	ARMY	RDTE/Electronics & Communication Eq-Explor	49
STANFORD UNIVERSITY		California	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	1,125 3,600
STATE TOTAL					4,725
STEINBRECHER CORP		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
SUPERCONDUCTOR TECHNOLOGIES		California	ARMY	RDTE/Electronics & Communication Eq-Explor	250
SYSTEM PLANNING CORPORATION		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	300
SYSTEMS & PROCESSES ENGRG CORP		Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	50
SYSTEMS EXPLORATION INC		California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,329
SYTEX INC		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	125

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AC62 (CONTINUED)					
	SYTORT SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	70
	TACAN CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	260
	TECHNOCHEM CO	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	458
	TENCO SERVICES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	60
	TERA COMPUTER CO	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	1,500
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	1,118
	TEXAS INSTRUMENTS INC	Texas	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	5,434 5,189 547
	STATE TOTAL				11,170
	THERMO ELECTRON TECHNOLOGIES CORP	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	265 1,176
	STATE TOTAL				1,441
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	2,424
	TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,246
	TOOMAY MATHIS & ASSOCIATES	Montana	NAVY	RDTE/Electronics & Communication Eq-Explor	33
	TOYON RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	71
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	TRW INC	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	18,485 750 286
	STATE TOTAL				19,521
	U T L CORPORATION	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	130-
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	175

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	45
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Electronics & Communication Eq-Explor	322
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	446
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Explor	30
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	53
			NAVY	RDTE/Electronics & Communication Eq-Explor	2,146
	STATE TOTAL				2,199
	V L S I TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	688
	VALIDITY CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	39
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	30
	VISTA RESEARCH	California	NAVY	RDTE/Electronics & Communication Eq-Explor	225
	VITRO CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	411
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	4,648
	VULN & EVAL ASSOC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	74
	WAGNER DANIEL H ASSOCIATES	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	264
		Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	250
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	47
	CONTRACTOR TOTAL				561
	WHITTAKER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	6,865
	WOOLLAM J A CO	Nebraska	USAF	RDTE/Electronics & Communication Eq-Explor	150
	XMCO INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	219
	YARDNEY TECHNICAL PRODUCTS	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	26-
	R&D TOTAL				208,380

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AC63	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	102
	A V W ELECTRONIC SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	284
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	393
		USAF		RDTE/Electronics & Communication Eq-Advanc	263
	STATE TOTAL				656
	AEL DEFENSE CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Advanc	653
			NAVY	RDTE/Electronics & Communication Eq-Advanc	120
	STATE TOTAL				773
	AEROVIRONMENT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	786
	ALCOA DEFENSE SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	510
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Advanc	150
	AMERICAN TELEPHONE & TELG CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	427
		USAF		RDTE/Electronics & Communication Eq-Advanc	1,090
	STATE TOTAL				1,517
	CONTRACTOR TOTAL				16,859
	ANADAC INC	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Advanc	149
	ANALYSIS & COMPUTER SYSTEMS	Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	18,525
	ANALYTIC SCIENCE CORP THE	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	150
		Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,266
		Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	200
		USAF		RDTE/Electronics & Communication Eq-Advanc	1,030
	STATE TOTAL				1,230
	CONTRACTOR TOTAL				297
	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,527
	ATLANTIC RESEARCH CORPORATION	Ohio	NAVY	RDTE/Electronics & Communication Eq-Advanc	219
	AVANTEK INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	431
	BALL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	225
		Colorado	NAVY	RDTE/Electronics & Communication Eq-Advanc	30

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	50
	BDM INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	80
	BOEING COMPANY THE	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	678
		Kansas	USAF	RDTE/Electronics & Communication Eq-Advanc	590
		Washington	USAF	RDTE/Electronics & Communication Eq-Advanc	1,712
	CONTRACTOR TOTAL				600
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,312
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	4,806
	CONTRACTOR TOTAL				112
	BOULDER NONLINEAR SYSTEMS INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	4,918
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	49
	BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	250
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	106
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	277
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,514
	CONTRACTOR TOTAL				275
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,789
	CINCINNATI ELECTRONICS CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	95
	CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Advanc	122
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	125
	COMMAND SYSTEM INC	Indiana	NAVY	RDTE/Electronics & Communication Eq-Advanc	743
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	4,981
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	228
					1,312

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,540
	CONTEL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	450
	CREARE INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Advanc	423
	DATASONICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	257
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Advanc	168
	DELFIN SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	72
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	263
	DIGITAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	49
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	1,150
	E OIR MEASUREMENTS INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	11,365
	E P E TECHNOLOGIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	421
	E SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	65
	EATON CORPORATION	New York	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	15,581
	STATE TOTAL				862 650
	ELECTRONIC SYS DEVELOPMENT	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	1,512
	ENGINEERING & ECONOMICS RES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	59
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	463
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc	259
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,891
	FIBERTEK INC	Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,895
	STATE TOTAL				271 980
	GATEWAY MODELING INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	1,251
					40

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AC63 (CONTINUED)

GEC MARCONI ELECT SYS	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	\$ 3,970
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	3,078
	Michigan	ARMY	RDTE/Electronics & Communication	Eq-Advanc	302
CONTRACTOR TOTAL					3,380
GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	586
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	35,060
		USAF	RDTE/Electronics & Communication	Eq-Advanc	700
STATE TOTAL					36,346
	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	6,919
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	619
		USAF	RDTE/Electronics & Communication	Eq-Advanc	14,533
STATE TOTAL					22,071
CONTRACTOR TOTAL					58,417
GENERAL MOTORS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	335
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	58
GEORGIA INSTITUTE TECHNOLOGY	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	346
GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	4,252
GOODRICH B F COMPANY THE	Florida	NAVY	RDTE/Electronics & Communication	Eq-Advanc	234
GOULD INC	Ohio	NAVY	RDTE/Electronics & Communication	Eq-Advanc	41
GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	501
HARRIS CORPORATION	Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc	751
	New York	NAVY	RDTE/Electronics & Communication	Eq-Advanc	3,016
CONTRACTOR TOTAL					3,767
HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	83-
		USAF	RDTE/Electronics & Communication	Eq-Advanc	435
STATE TOTAL					352

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AC63 (CONTINUED)					
	HONEYWELL INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 300
		New Mexico	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,217
	CONTRACTOR TOTAL				6,517
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	4,254
			NAVY	RDTE/Electronics & Communication Eq-Advanc	6,364
			USAF	RDTE/Electronics & Communication Eq-Advanc	27,062
	STATE TOTAL				37,680
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-Advanc	300
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	295
	CONTRACTOR TOTAL				38,275
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	1,607
	INFOTEC DEVELOPMENT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	30
	INNOVATIVE INFORMATION SYS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	1,699
	INSTRUMENTS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	499
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	985
	INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	449
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	311
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	7,784
			USAF	RDTE/Electronics & Communication Eq-Advanc	3,389
	STATE TOTAL				11,173
		Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	3,748
	CONTRACTOR TOTAL				14,921
	INTERNATIONAL TRANSDUCER CORP	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	83
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	138
	ITERATED SYSTEMS INCORPORATED	Georgia	NAVY	RDTE/Electronics & Communication Eq-Advanc	48
	ITT CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication Eq-Advanc	319

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AC63 (CONTINUED)

CONTRACTOR TOTAL					\$ 944
KOLLMORGEN CORPORATION	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,263
L S I LOGIC CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	110
LASER TECHNOLOGY ASSOCIATES	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	27
LIGHTWAVE ELECTRONICS CORP	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	50
LITTON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	88
LOCKHEED AERONAUTICAL SYS CO	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	800
LOCKHEED MISSILES & SPACE CO	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	71
LOCKHEED SANDERS INC	Texas	ARMY	RDTE/Electronics & Communication	Eq-Advanc	2,402
	N.H.	ARMY	RDTE/Electronics & Communication	Eq-Advanc	13,813
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	900
		USAF	RDTE/Electronics & Communication	Eq-Advanc	2,249
	STATE TOTAL				16,962
LORAL CORPORATION	Arizona	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,933
	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	609
		USAF	RDTE/Electronics & Communication	Eq-Advanc	217
	STATE TOTAL				916
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,500
		USAF	RDTE/Electronics & Communication	Eq-Advanc	3,529
	STATE TOTAL				5,029
	New York	USAF	RDTE/Electronics & Communication	Eq-Advanc	430
	N Carolina	ARMY	RDTE/Electronics & Communication	Eq-Advanc	16,739
	STATE TOTAL				25,047
M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	290
MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,103
MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	ARMY	RDTE/Electronics & Communication	Eq-Advanc	2,154

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AC63 (CONTINUED)					
	MALIBU RESEARCH ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Advanc	148
	MARLOW INDUSTRIES INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc	332
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	2,632
		Florida	ARMY	RDTE/Electronics & Communication Eq-Advanc	150
			USAF	RDTE/Electronics & Communication Eq-Advanc	800
			ARMY	RDTE/Electronics & Communication Eq-Advanc	2,258
			USAF	RDTE/Electronics & Communication Eq-Advanc	95
			ARMY	RDTE/Electronics & Communication Eq-Advanc	2,015
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,110
			STATE TOTAL		25
		Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	4,393
	CONTRACTOR TOTAL				399
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	761
	MCDONNELL AIRCRAFT COMPANY	Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	476
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	2,313
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	100
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Electronics & Communication Eq-Advanc	174
	MERIT TECHNOLOGY INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	60
	METRATEK INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	27
	MICROWAVE MODULES & DEVICES	California	USAF	RDTE/Electronics & Communication Eq-Advanc	68
	MICROWAVE TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	800
	MOTOROLA INC	Arizona	USAF	RDTE/Electronics & Communication Eq-Advanc	80
		Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	880
	CONTRACTOR TOTAL				380
	NAVCOM DEFENSE ELECTRONICS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	216
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Advanc	

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	NORTHROP CORPORATION	California	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	80 296 3,994 6,181
	STATE TOTAL				
		Illinois	USAF	RDTE/Electronics & Communication Eq-Advanc	10,175 110
	CONTRACTOR TOTAL				
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	10,285
	ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	250
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	156
	PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	170 1,986 69
	STATE TOTAL				
	PLANNING SYSTEMS INCORPORATED	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	2,055
	PRESEARCH INCORPORATED	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	644
	QSOURCE INC	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	760
	QUALCOMM INC	California	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	250 151 1,000
	STATE TOTAL				
	QUANTEL INTERNATIONAL INC	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,151
	QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	46
	R & D ASSOCIATES	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	1,291
	RACAL RECORDERS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,819
	RADIAN CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	85
	RAYTHEON COMPANY	California	USAF	RDTE/Electronics & Communication Eq-Advanc	1,237
					1,400

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	SOFTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 160
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	600
	CONTRACTOR TOTAL				760
	SOFTWARE SYSTEMS ENGINEERING	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	83
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Advanc	3,100
	SPECTRA TECHNOLOGY INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Advanc	293
			USAF	RDTE/Electronics & Communication Eq-Advanc	485
	STATE TOTAL				778
	SPECTRUM SIGNAL PROCESSING INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	51
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,212
	SYRACUSE UNIVERSITY	New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	40
	SYSTRAN CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	52
	TAU CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	304
	TECHNICAL SERVICES LABORATORY	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	31
	TEKTRONIX INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Advanc	955
	TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	50
	TERRA TEK INC	Utah	NAVY	RDTE/Electronics & Communication Eq-Advanc	60
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc	851
			NAVY	RDTE/Electronics & Communication Eq-Advanc	500
			USAF	RDTE/Electronics & Communication Eq-Advanc	1,147
	STATE TOTAL				2,498
	TEXCOM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,561
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	463
	TRW INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	2,792
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	3,460

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63	(CONTINUED)				

CONTRACTOR TOTAL					\$	
UNISYS CORPORATION	Utah	USAF	RDTE/Electronics & Communication	Eq-Advanc		6,252
UNISYS DEFENSE SYSTEMS INC	New York	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc		2,220 828 333-
STATE TOTAL						495
CONTRACTOR TOTAL	Utah	USAF	RDTE/Electronics & Communication	Eq-Advanc		50
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc		545
VEDA INCORPORATED	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		960
VIASAT INC	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		1,403
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc		411 29,297 3,083
STATE TOTAL						32,380
CONTRACTOR TOTAL	Penn	USAF	RDTE/Electronics & Communication	Eq-Advanc		113
WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		32,493
XETRON CORPORATION	Ohio	ARMY	RDTE/Electronics & Communication	Eq-Advanc		240
R&D TOTAL						2,600
AC64 3 DBM ELECTRONIC CORP	California	USAF	RDTE/Electronics & Communication	Eq-Engr D		400,525
A A I CORPORATION	Maryland	USAF	RDTE/Electronics & Communication	Eq-Engr D		50-
ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D		160
ADVANCED SYSTEMS DEVELOPMENT	New York	USAF	RDTE/Electronics & Communication	Eq-Engr D		42
AERODYNE RESEARCH INC	Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D		1,337
AHNTech INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		100
ALLIANT TECHSYSTEMS INC	Colorado	NAVY	RDTE/Electronics & Communication	Eq-Engr D		211
						52

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AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	ALLIED SIGNAL AEROSPACE CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	110
		Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	162
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	179
			USAF	RDTE/Electronics & Communication Eq-Engr D	2,401
					27,333
	STATE TOTAL				29,734
	CONTRACTOR TOTAL				29,913
	AMERICAN SYSTEMS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	1,086
	AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,772
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	129,232
	CONTRACTOR TOTAL				135,004
	ANALOGIC CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	66
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,796
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	74
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	300
	ANDRULIS RESEARCH CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,587
	APPLICATIONS RESEARCH CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	259-
	APPLIED SIGNAL TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	363
	ATEAM CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	2,255
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,980
			USAF	RDTE/Electronics & Communication Eq-Engr D	56,127
	STATE TOTAL				60,107
	CONTRACTOR TOTAL				2,512
	BOEING COMPANY THE	Kansas	USAF	RDTE/Electronics & Communication Eq-Engr D	300
		Washington	USAF	RDTE/Electronics & Communication Eq-Engr D	2,812
	CONTRACTOR TOTAL				

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AC64 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	348
	BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	90
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	50
	CONTRACTOR TOTAL				140
	BOSE CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,343
	BTG INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	996
	C T S CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	800
	CACI INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	789
	CACI INTERNATIONAL INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	208
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	15,483
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Electronics & Communication Eq-Engr D	8,232
	CANADIAN MARCONI COMPANY	CANADA	USAF	RDTE/Electronics & Communication Eq-Engr D	4,829
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	COLLINS INTERNATIONAL SVC CO	Iowa	USAF	RDTE/Electronics & Communication Eq-Engr D	28,878
	COMARCO INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	7,304
	COMBUSTION ENGINEERING INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,344
	COMMAND CTRL COMMUNICATIONS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	84
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,958
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	14,393
	CONTRACTOR TOTAL				16,351
	CONTEL CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	1,499
		Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	1,279
	CONTRACTOR TOTAL				2,778
	CONTRAVES USA INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	49
	CONTROL DATA CANADA LTD	CANADA	USAF	RDTE/Electronics & Communication Eq-Engr D	237-

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AC64 (CONTINUED)

CONTROL DATA CORPORATION	Minnesota	ARMY NAVY	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	\$	1,933 5,168 7,101
STATE TOTAL					
CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		872
DATA DECISIONS INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Engr D		270
DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		425
DIGITAL EQUIPMENT CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D		2,199
DIGITAL WIZARDS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,265
DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D		651
DOWDY DEFENSE & AIR SYSTEMS LT	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Engr D		49
DRAPEY CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		693
DYNAMIC CONTROLS CORPORATION	Conn	USAF	RDTE/Electronics & Communication Eq-Engr D		83
E SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D		9,981
	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D		50
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		57
CONTRACTOR TOTAL					
EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D		10,088
EATON CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D		165
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		42,317-
EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D		95
ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		478
ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D		250
ELECTROSPACE SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		765
ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		91
					617

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AC64 (CONTINUED)						
	ERC INTERNATIONAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$	2,268
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Engr D		362
	FORCE COMPUTERS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		75
	GALAXY SCIENTIFIC CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		100
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D		416
	CONTRACTOR TOTAL					516
	GEC MARCONI ELECT SYS	New Jersey	ARMY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		1,532 34,216
		STATE TOTAL				65,748
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D		32,899
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		1,057 1,536-
		STATE TOTAL				479-
	CONTRACTOR TOTAL	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D		23,741
	GENERAL ELECTRONIC SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		23,262
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		51 1,759 448
		STATE TOTAL				2,207
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		12,673 266,009
		STATE TOTAL				278,682
	GRUMMAN DATA SYSTEMS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		1,629
	GTE INTERNATIONAL INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		55
	HARRIS CORPORATION	Florida	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		52 755

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AC64 (CONTINUED)

HAZELTINE CORPORATION		STATE TOTAL	\$	807
HOPKINS SOFTWARE	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,031
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	8,883
		NAVY	RDTE/Electronics & Communication Eq-Engr D	37,503
		USAF	RDTE/Electronics & Communication Eq-Engr D	1,724
		STATE TOTAL		48,110
	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,815
				50,925
CONTRACTOR TOTAL				
ILLGEN SIMULATION TECHNOLOGIES	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	648
ILLINOIS INST OF TECHNOLOGY	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	8,967
INNERSPACE TECHNOLOGY INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	121
INTEL CORPORATION	Oregon	NAVY	RDTE/Electronics & Communication Eq-Engr D	404
INTERMETRICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,318
	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,464
				4,782
	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	134
	Tennessee	NAVY	RDTE/Electronics & Communication Eq-Engr D	35-
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	15,645
				15,744
	California	USAF	RDTE/Electronics & Communication Eq-Engr D	9,547
	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Engr D	16,908
	Indiana	ARMY	RDTE/Electronics & Communication Eq-Engr D	200
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	9,113
	S ARABIA	ARMY	RDTE/Electronics & Communication Eq-Engr D	173
CONTRACTOR TOTAL				
INTERSTATE ELECTRONICS CORP				
ISRAEL AIRCRAFT INDUSTRIES LTD				
ITT CORPORATION				

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AC64 (CONTINUED)

CONTRACTOR TOTAL

JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$ 9,486
KEARFOTT GDNCE NAVIGATION CORP	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	38,050
	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	202
	USAF	RDTE/Electronics & Communication Eq-Engr D	5,887	
		RDTE/Electronics & Communication Eq-Engr D	11,249	
STATE TOTAL				17,136

CONTRACTOR TOTAL

KETRON INC	Penn	USAF	RDTE/Electronics & Communication Eq-Engr D	300
LITTON SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,249
	NAVY	RDTE/Electronics & Communication Eq-Engr D	106	
STATE TOTAL				1,355

CONTRACTOR TOTAL

LOCKHEED CORPORATION	N.H.	USAF	RDTE/Electronics & Communication Eq-Engr D	808
LOCKHEED MISSILES & SPACE CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	23,997
LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Electronics & Communication Eq-Engr D	7,774
	USAF	RDTE/Electronics & Communication Eq-Engr D	150	
STATE TOTAL				7,924

CONTRACTOR TOTAL

LOGIMETRICS INC DEL	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	30-
LORAL CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	7,894
	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	58
	USAF	RDTE/Electronics & Communication Eq-Engr D	327	
STATE TOTAL				100
				427

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AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	LTV AEROSPACE & DEFENSE CO	Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	21,892
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D	3,388
		Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	683
	CONTRACTOR TOTAL				26,390
	LTV AEROSPACE & DEFENSE CO	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	1,316
		Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	25
	CONTRACTOR TOTAL				1,341
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	243
	MAGNAVOX GOVT & INDUSTRL ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	13,125
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,592
		USAF	RDTE/Electronics & Communication Eq-Engr D	3,004-	
	STATE TOTAL				2,588
	CONTRACTOR TOTAL				15,713
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Engr D	8-
		Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,824
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	21,052
	CONTRACTOR TOTAL				23,868
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,389
		USAF	RDTE/Electronics & Communication Eq-Engr D	11,264	
	STATE TOTAL				12,653
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Electronics & Communication Eq-Engr D	50
	METRIC SYSTEMS CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	39-
	METTERS INDUSTRIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	MICHIGAN STATE UNIVERSITY	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	110
	MICRO COMPUTER SYSTEM INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	198
	MOTOROLA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,238

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	NATIONS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	243
	NAVCOM DEFENSE ELECTRONICS	California	USAF	RDTE/Electronics & Communication Eq-Engr D	2,481
	NORTHROP CORPORATION	Illinois	USAF	RDTE/Electronics & Communication Eq-Engr D	1,186
	NUCLEAR RESEARCH CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	27-
	OMNIBYTE CORPORATION	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,476
	OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	293
	OSBORNE ALLEN ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	26
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,864
	PACIFIC RIM ENGINEERING	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	235 49 150 3,547 3,697
	POLYMICRO TECHNOLOGIES INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Engr D	48
	PRC INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,605
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	508
	CONTRACTOR TOTAL				3,113
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,138
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	147
	QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	250
	R J O ENTERPRISES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,000
	RAYTHEON COMPANY	California	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	415 753
	STATE TOTAL				1,168

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AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	REINHART & ASSOCIATES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	25,206
			USAF	RDTE/Electronics & Communication Eq-Engr D	43,365
	ROCKWELL INTERNATIONAL CORP	Rhode Isl	NAVY	RDTE/Electronics & Communication Eq-Engr D	68,571
					18,620
					88,359
	CONTRACTOR TOTAL				50
	SABTECH INDUSTRIES	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	495
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	1,064
		Iowa	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,559
					40
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,256
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	1,479
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	647
	CONTRACTOR TOTAL				6,382
	SCOPE INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	104
	SEMCOR INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	184
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	579
	CONTRACTOR TOTAL				763
	SEQUENTIAL INFORMATION SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	299
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Electronics & Communication Eq-Engr D	49
	SILICON GRAPHICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	216
	SIPPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,997
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	2,109
	SOFTTECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,235
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	1,226

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AC64 (CONTINUED)

CONTRACTOR TOTAL					\$	2,461
SONALYSTS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		1,176
SOUTHERN RESEARCH TECHNOLOGIES	Florida	USAF	RDTE/Electronics & Communication	Eq-Engr D		351
SPARTON CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication	Eq-Engr D		5,552
SPECIALTY CABLE CORP	Conn	NAVY	RDTE/Electronics & Communication	Eq-Engr D		54
SPERRY MARINE INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D		2,582
STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Electronics & Communication	Eq-Engr D		370
STC DEFENCE SYSTEMS	UNITED KIN	NAVY	RDTE/Electronics & Communication	Eq-Engr D		75
SUMARIA SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D		776
SYNETICS CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		415
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Engr D		649
SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		5,608
TECHNOLOGY COMMUNCATN INTL	California	ARMY	RDTE/Electronics & Communication	Eq-Engr D		353
TEKTREND INTERNATIONAL INC	CANADA	NAVY	RDTE/Electronics & Communication	Eq-Engr D		58
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		300
TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication	Eq-Engr D		233
TEXAS INSTRUMENTS INC	Colorado	NAVY	RDTE/Electronics & Communication	Eq-Engr D		4,200
CONTRACTOR TOTAL						120
TEXAS INSTRUMENTS WESTNGHSE JV	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D		4,320
TEXAS MEDICAL INSTRUMENTS	Texas	ARMY	RDTE/Electronics & Communication	Eq-Engr D		97-
TEXTRON INC	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D		58
THORN EMI ELECTRONICS LTD	UNITED KIN	NAVY	RDTE/Electronics & Communication	Eq-Engr D		700
TIBURON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		39
						609

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AC64 (CONTINUED)

TRACOR AEROSPACE INC	Texas	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	\$	2,386 2,028
STATE TOTAL					
TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D		4,414
TRANSTECH PARALLEL SYSTEMS	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,346
TRANSTECHNOLOGY CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D		506
TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		106-
TRW INC	California	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		166 178 658
STATE TOTAL					
UNISYS CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D		836
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		3,184
CONTRACTOR TOTAL					
UN.SYS DEFENSE SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D		662
UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		3,846
UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D		200
VAISALA INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		68
VECTOR MICRO	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		4,073
VGS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		550
VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		307
VME MICROSYSTEMS INTL CORP	Alabama	NAVY	RDTE/Electronics & Communication Eq-Engr D		124
WHITTAKER CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D		2,747
ZETA DATA INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D		86
ZYCAD CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D		17,789
R&D TOTAL					
					28
					3,416
					1,206,094

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AC65	3 DBM ELECTRONIC CORP	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	61
	AEPCO INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	50
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	247
	ALLIANT TECHSYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,307
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	60
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Op Sys	15,401
	APPLIED MICRO CIRCUITS CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	56
	APPLIED MOTION TECHNOLOGY	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	103
	ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,242
	ATLANTIC RESEARCH CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,196
		Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	140
	CONTRACTOR TOTAL				2,336
	AUTOMETRIC INC	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	50
	BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,590
	BROWN INTERNATIONAL	Alabama	USAF	RDTE/Electronics & Communication Eq-Op Sys	295
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	30
	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Electronics & Communication Eq-Op Sys	700
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	204
	COLEMAN RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Op Sys	883
	COLLINS INTERNATIONAL SVC CO	Iowa	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	14,421 19-
	STATE TOTAL				14,402
		Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	18,417
	CONTRACTOR TOTAL				32,819
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	885
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,215

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AC65 (CONTINUED)

CONTAINER RESEARCH CORPORATION	Conn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	\$ 34
CONTRAVES USA INC	Mass	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	127
CONTROL DATA CANADA LTD	CANADA	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	662
CUBIC COMMUNICATIONS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,039
CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	2,440
DEWEY ELECTRONICS CORPORATION	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	83
DOSS AVIATION INC	Alabama	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	3,271
DRAGON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	430
E SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,693
	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys	5,019
	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	75
CONTRACTOR TOTAL					8,787
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	430
ELECTRONIC DATA SYSTEMS CORP	Texas	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	107
ELECTROSPACE SYSTEMS INC	Texas	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,692
ENCORE COMPUTER CORPORATION	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	625
ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	149
ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	595
EVALUATION RESEARCH CORP	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,985
FORD H J ASSOCIATES INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Op Sys	817
FRONTIER ENGINEERING INC	Oklahoma	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,262
FUENTEZ SYSTEMS CONCEPTS INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	285
GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	280
	Penn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,028

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AC65 (CONTINUED)

CONTRACTOR TOTAL					\$	1,308
GEMMA CORPORATION	Penn	NAVY		RDTE/Electronics & Communication Eq-Op Sys		100
GENERAL DYNAMICS CORPORATION	California	ARMY		RDTE/Electronics & Communication Eq-Op Sys		3,926
	Texas	USAF		RDTE/Electronics & Communication Eq-Op Sys		2,936
CONTRACTOR TOTAL						6,862
GENERAL ELECTRIC COMPANY	Mass	ARMY		RDTE/Electronics & Communication Eq-Op Sys		699
		NAVY		RDTE/Electronics & Communication Eq-Op Sys		9,451
		USAF		RDTE/Electronics & Communication Eq-Op Sys		107-
STATE TOTAL						10,043
	New Jersey	NAVY		RDTE/Electronics & Communication Eq-Op Sys		12,555
	New York	USAF		RDTE/Electronics & Communication Eq-Op Sys		577-
CONTRACTOR TOTAL						22,021
GEO CENTERS INC	Mass	NAVY		RDTE/Electronics & Communication Eq-Op Sys		100
GIORDANO ASSOCIATES INC	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Op Sys		118
GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY		RDTE/Electronics & Communication Eq-Op Sys		13,228
		USAF		RDTE/Electronics & Communication Eq-Op Sys		28,100
STATE TOTAL						41,328
	Virginia	ARMY		RDTE/Electronics & Communication Eq-Op Sys		44
CONTRACTOR TOTAL						41,372
GTE SYLVANIA COM PRODUCTS	Mass	USAF		RDTE/Electronics & Communication Eq-Op Sys		16,802
HARRIS CORPORATION	Florida	ARMY		RDTE/Electronics & Communication Eq-Op Sys		428
		USAF		RDTE/Electronics & Communication Eq-Op Sys		1,021
STATE TOTAL						1,449
HAZELTINE CORPORATION	New York	NAVY		RDTE/Electronics & Communication Eq-Op Sys		80
HONEYWELL INC	Florida	USAF		RDTE/Electronics & Communication Eq-Op Sys		957
	Minnesota	ARMY		RDTE/Electronics & Communication Eq-Op Sys		90

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	

AC65 (CONTINUED)

CONTRACTOR TOTAL			\$
HUGHES AIRCRAFT COMPANY	California	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys
	STATE TOTAL		13,421
I R T CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Op Sys
INFORMATION MANAGEMENT CONS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys
INFOTEC DEVELOPMENT INC	California	USAF	RDTE/Electronics & Communication Eq-Op Sys
INSIGHT TECHNOLOGY INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Op Sys
INTERNATIONAL BUS MCHS CORP	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys
	Maryland	USAF	RDTE/Electronics & Communication Eq-Op Sys
	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys
	Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys
	STATE TOTAL		109- 1,543
ITT CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys
	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys
	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys
	STATE TOTAL		1,024 1,081 2,236
J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys
KEARFOTT GDNCE NAVIGATION CORP	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys
LITTON SYSTEMS INC	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys
	STATE TOTAL		5,111 167,985 173,096

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AC65 (CONTINUED)					
	LOCKHEED AERONAUTICAL SYS CO	Georgia	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	96 1,428
	LOCKHEED CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,524
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	17,020
		Texas	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,250
	CONTRACTOR TOTAL				199
	LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,449
	LORAL CORPORATION	California	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	100 763 18,664
	CONTRACTOR TOTAL				19,427
	LOS ALAMOS TECHNICAL ASSOC INC	Kansas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	10,193
	M/A COM INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	29,620
	MAGNAVOX GOVT & INDUSTR ELCTR	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,730
		Indiana	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	232 17,759 741
	CONTRACTOR TOTAL				18,500
	MANTECH INTERNATIONAL CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	978
	MARTIN MARIETTA CORPORATION	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	19,478
		Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	771
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	4,116
		Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	30
	CONTRACTOR TOTAL				605
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	120
					4,871

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AC65 (CONTINUED)					
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Op Sys	\$ 16,021
	METTERS INDUSTRIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	50
	MILTOPE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	8,801
	MINNESOTA MINING & MFG CO	Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	3,081
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,411
	PARAGON SYSTEMS INC	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Op Sys	235
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	250 48,185
		STATE TOTAL			48,435
		Texas	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,517
	CONTRACTOR TOTAL				49,952
	PHOENIX SYSTEMS TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	469
	POLAR ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,079
	PRC INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,168
	PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	702
	R J O ENTERPRISES INC	Maryland	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	891 1,075
		STATE TOTAL			1,966
	RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	56,040 12,260
		STATE TOTAL			68,300
	RESEARCH & DEV LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	177
	ROCKWELL INTERNATIONAL CORP	Iowa	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	681 158 13,985
		STATE TOTAL			14,824
	S T RESEARCH CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	61

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC65 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	19,521
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,459
	SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,564
	SIERRA CYBERNETICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	207
	SILICON GRAPHICS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	50
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Op Sys	600
	SUNDSTRAND DATA CONTROL INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Op Sys	26-
	SYSCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,462
	SYSTEM RESOURCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,140
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	691
	SYSTEMS INTEGRATION & DEV INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	602
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	25,873
	TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Op Sys	60
	TEXAS INSTRUMENTS INC	Texas	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	175 250
	STATE TOTAL				
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,221
	TRW INC	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	63,232 1,358 34,548
	STATE TOTAL				
	CONTRACTOR TOTAL				
	U S E C O	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Op Sys	34-
	UNISYS CORPORATION	Colorado	NAVY	RDTE/Electronics & Communication Eq-Op Sys	99,104
		California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	503
					360

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC65 (CONTINUED)

	Minnesota	USAF	RDTE/Electronics & Communication	Eq-Op Sys	\$ 8,515
	New York	USAF	RDTE/Electronics & Communication	Eq-Op Sys	69
	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	26
		NAVY	RDTE/Electronics & Communication	Eq-Op Sys	110
	STATE TOTAL				136
					9,080
	New Mexico	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,640
	New York	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	280
		NAVY	RDTE/Electronics & Communication	Eq-Op Sys	400
		USAF	RDTE/Electronics & Communication	Eq-Op Sys	393,522
	STATE TOTAL				394,202
					395,842
	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	1,224
	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	798
	Texas	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	32,296
	Washington	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	2,100
	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	25
	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	101
	R&D TOTAL				1,335,467
AC66	ADAPTIVE TECHNOLOGY INC	USAF	RDTE/Electronics & Communication	Eq-Mgmt &	219
	ADVANCED COMPUTER SYSTEMS	ARMY	RDTE/Electronics & Communication	Eq-Mgmt &	718
	ADVANCED DECISION SYSTEMS	USAF	RDTE/Electronics & Communication	Eq-Mgmt &	190
	ADVANCED RESEARCH CORPORATION	ARMY	RDTE/Electronics & Communication	Eq-Mgmt &	214
	AERODYNE RESEARCH INC	NAVY	RDTE/Electronics & Communication	Eq-Mgmt &	50
		USAF	RDTE/Electronics & Communication	Eq-Mgmt &	58
	STATE TOTAL				108

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC66 (CONTINUED)					
	ATRSACE TECHNOLOGY CORP	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	279
	AMERICAN GNC CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	225
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	260
	ANADAC INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	ANALYSIS CONSULTANTS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	165
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	573
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	ASTRO MED INC	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	31
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	32
	AURORA ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	190
	BLOOM E J ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	69
	CHANG INDUSTRY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	277
	CRYSTALLUME	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	268
	CURRIE ENGINEERING CONSULTANTS	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	69
	DAINA	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	39
	DEUTSCHE BUNDESPOST	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	11,021
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	55
	ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Mgmt &	385
	ELECTRONIC DECISIONS INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	40
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	2,492
	ESSEX CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	FAILURE ANALYSIS ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	193
	FOSTER MILLER INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	250
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	52

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AC66 (CONTINUED)

GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$	1,130
HADRON INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		30
HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		285
HYPRES INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &		166
I MATH ASSOCIATES INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		108
INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		29
INTERMETRICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		483
INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		218
JBS TECHNOLOGIES INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		165
K V H INDUSTRIES INC	Rhode Islnd	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		639
KACHINA TECH INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		175
L & W RESEARCH INC	Conn	USAF	RDTE/Electronics & Communication Eq-Mgmt &		240
LASER POWER CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		95
LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		342
LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		31
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		36
CONTRACTOR TOTAL					67
MAGNAVOX GOVT & INDUSTRIAL ELCTR	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		273
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		1,753
METROLOGIC INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
NORTH STAR RESEARCH INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		59
OMNI VIEW INC	Penn	USAF	RDTE/Electronics & Communication Eq-Mgmt &		59
OPTTECH LAB	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
OPTICS ONE INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		57

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AC66 (CONTINUED)

OPTIMIZATION TECHNOLOGY INC	Alabama	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$	170
PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		310
PAGE AUTMTD TELECOM SYS INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		285
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		293
PRAZNIK A ASSOCIATES	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		30
QUANTEX CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		79
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		245
S C S TELECOM INC	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		474
SAVI TECHNOLOGY INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		169
SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		146
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY NAVY	RDTE/Electronics & Communication Eq-Mgmt & RDTE/Electronics & Communication Eq-Mgmt &		204 228
		STATE TOTAL			432
SCIENTIFIC ATLANTA INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		200
SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		51
SOFTWELL ASSOCIATES INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Mgmt &		89
SOHAR INCORPORATED	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		188
SPECTRAN CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		51
STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &		11,282
SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		36
SYNECTICS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		245
T S C INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		60

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R-D DESCRIPTION	
AC66 (CONTINUED)					
	TANNER RESEARCH INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 491
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	4,390
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	262
	CONTRACTOR TOTAL				4,652
	U T L CORPORATION	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	238
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	94
	R&D TOTAL				45,543
AC91	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Misc Hard Goods-Basic Research	50
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Misc Hard Goods-Basic Research	63
	AUTO INFO & MANAGE SYS INC	Maryland	ARMY	RDTE/Misc Hard Goods-Basic Research	150
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	250
	FIBERTEK INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	144
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Basic Research	150
	HONEYWELL INC	Minnesota	ARMY	RDTE/Misc Hard Goods-Basic Research	846
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Misc Hard Goods-Basic Research	1,420
	LITTON SYSTEMS INC	California	ARMY	RDTE/Misc Hard Goods-Basic Research	78
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Misc Hard Goods-Basic Research	1,011
	TACAN CORPORATION	California	ARMY	RDTE/Misc Hard Goods-Basic Research	50
	TEKTRONIX INC	Oregon	NAVY	RDTE/Misc Hard Goods-Basic Research	739
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Misc Hard Goods-Basic Research	616
	TRW INC	California	ARMY	RDTE/Misc Hard Goods-Basic Research	1,226
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Misc Hard Goods-Basic Research	60
	R&D TOTAL				6,853

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AC92	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	198
	EATON CORPORATION	New York	USAF	RDTE/Misc Hard Goods-Exploratory Developme	47
	ELECTRONIC POWER CONDITIONING	Oregon	ARMY	RDTE/Misc Hard Goods-Exploratory Developme	249
	GENERAL ELECTRIC COMPANY	Conn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	122
		Ohio	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	2,040
	CONTRACTOR TOTAL				2,162
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	149
	NEPTUNE TECHNOLOGIES INC	Miss	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	36
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	40
	PHOENIX DIGITAL CORPORATION	Arizona	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	47
	ROLLS ROYCE INC	Georgia	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	395
	R&D TOTAL				3,321
AC93	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Misc Hard Goods-Advanced Development	75
	AVIONIC INSTRUMENTS INC	New Jersey	ARMY	RDTE/Misc Hard Goods-Advanced Development	53-
	E I C LABORATORY INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	110
	G & F COMPANY	California	ARMY	RDTE/Misc Hard Goods-Advanced Development	4,000
	HERCULES INCORPORATED	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	125
	KECO INDUSTRIES INC	Kentucky	ARMY	RDTE/Misc Hard Goods-Advanced Development	70
	LOCKHEED ENGINEERING & SCIENCE	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	2,540
	LORAL CORPORATION	Arizona	ARMY	RDTE/Misc Hard Goods-Advanced Development	128
	MOTOROLA INC	Arizona	NAVY	RDTE/Misc Hard Goods-Advanced Development	1,934
	S S G INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	70-
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	757
	SORRENTO ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	863
	R&D TOTAL				10,479
AC94	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Misc Hard Goods-Engr Development	400

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC94 (CONTINUED)					
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	428
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Misc Hard Goods-Engr Development	211
	CARTWRIGHT ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Engr Development	381
	FRANKLIN RESEARCH CORP	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	55
	G & H TECHNOLOGY INC	California	NAVY	RDTE/Misc Hard Goods-Engr Development	178
	GENERAL ELECTRIC COMPANY	Alabama	NAVY	RDTE/Misc Hard Goods-Engr Development	4,729
		Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	10,604
		New Jersey	NAVY	RDTE/Misc Hard Goods-Engr Development	34
	CONTRACTOR TOTAL				15,367
	I L C INDUSTRIES DELAWARE	Delaware	ARMY	RDTE/Misc Hard Goods-Engr Development	7,252
			USAF	RDTE/Misc Hard Goods-Engr Development	29
	STATE TOTAL				7,281
	CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	42-
					7,239
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc Hard Goods-Engr Development	6,267
	MERRIMAC INDUSTRIES INC	New Jersey	NAVY	RDTE/Misc Hard Goods-Engr Development	67
	MULTI ELECTRIC MFG INC	Illinois	USAF	RDTE/Misc Hard Goods-Engr Development	175
	NUCLEAR METALS INC	Mass	ARMY	RDTE/Misc Hard Goods-Engr Development	30
	ROLLS ROYCE INC	UNITED KIN	NAVY	RDTE/Misc Hard Goods-Engr Development	21,050
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Misc Hard Goods-Engr Development	97
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Misc Hard Goods-Engr Development	320
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	NAVY	RDTE/Misc Hard Goods-Engr Development	7,130
	R&D TOTAL				59,395
	AC95 ANDRULIS RESEARCH CORP	Utah	ARMY	RDTE/Misc Hard Goods-Op Systems Development	641

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AC95 (CONTINUED)					
	B E I MOTION SYSTEMS COMPANY	Arkansas	USAF	RDTE/Misc Hard Goods-Op Systems Developmen	200
	BOC GROUP INC A DELAWARE CORP	Texas	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	80
	LORAL CORPORATION	California	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	7,355
	MNEMONICS INC	Florida	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	300
	PLASMA THERM INC	Florida	ARMY	RDTE/Misc Hard Goods-Op Systems Developmen	62
	TENSION MEMBER TECHNOLOGY	California	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	78
	R&D TOTAL				8,716
	AC96 AMERASIA TECHNOLOGY INC	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	49
	CONTRAVES USA INC	Penn	USAF	RDTE/Misc Hard Goods-Mgmt & Support	134
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Misc Hard Goods-Mgmt & Support	93
	GSC ASSOCIATES INC	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50
	LAVENDER INDUSTRIES INC	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	45
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	249
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	79
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Misc Hard Goods-Mgmt & Support	49
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	62
	SPIRE CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	49
	SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	49
	WAUBIK INC	Michigan	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50
	R&D TOTAL				958
	AD11 A A I CORPORATION	Maryland	USAF	RDTE/Ammunition-Basic Research	2,341
	ENSCO INC	Virginia	ARMY	RDTE/Ammunition-Basic Research	50
	GEO CENTERS INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	153
	POWER SPECTRA INC	California	USAF	RDTE/Ammunition-Basic Research	267

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD11 (CONTINUED)					
	QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Ammunition-Basic Research	57
	RAMVISION	California	ARMY	RDTE/Ammunition-Basic Research	50
	S F A INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	152
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Ammunition-Basic Research	253
	UNIVERSITY OF DELAWARE	Delaware	USAF	RDTE/Ammunition-Basic Research	80
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Ammunition-Basic Research	200
	R&D TOTAL				3,603
AD12 A A I CORPORATION					
	ALLIANT TECHSYSTEMS INC	Maryland	ARMY	RDTE/Ammunition-Exploratory Development	220-
	ALLIED SIGNAL AEROSPACE CO	Minnesota	ARMY	RDTE/Ammunition-Exploratory Development	26
	ARMTEC DEFENSE PRODUCTS CO	Maryland	NAVY	RDTE/Ammunition-Exploratory Development	199
	CANADIAN COMMERCIAL CORP	California	ARMY	RDTE/Ammunition-Exploratory Development	253
		CANADA	ARMY USAF	RDTE/Ammunition-Exploratory Development RDTE/Ammunition-Exploratory Development	182 55
	STATE TOTAL				237
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Ammunition-Exploratory Development	241
	CHAMBERLAIN MANUFACTURING CORP	Penn	ARMY	RDTE/Ammunition-Exploratory Development	777
	DYNA EAST CORPORATION	Penn	ARMY	RDTE/Ammunition-Exploratory Development	212
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Exploratory Development	100
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Exploratory Development	78
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Ammunition-Exploratory Development	51
	KDI PRECISION PRODUCTS INC	Maryland	ARMY	RDTE/Ammunition-Exploratory Development	168
	LUFKIN INDUSTRIES INC	Texas	NAVY	RDTE/Ammunition-Exploratory Development	3,940
	MC Q ASSOCIATES	Virginia	NAVY	RDTE/Ammunition-Exploratory Development	218
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Ammunition-Exploratory Development	86

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD12 (CONTINUED)					
	OLIN ORDNANCE	Illinois	ARMY	RDTE/Ammunition-Exploratory Development	98
	PHYSICON INC	Alabama	USAF	RDTE/Ammunition-Exploratory Development	50
	TOYON RESEARCH CORP	California	NAVY	RDTE/Ammunition-Exploratory Development	300
	WICKLINE INDUSTRIES INC	N Carolina	ARMY	RDTE/Ammunition-Exploratory Development	386
	R&D TOTAL				7,200
AD13	AEROJET	California	ARMY	RDTE/Ammunition-Advanced Development	3,496
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Advanced Development	33,604
			NAVY	RDTE/Ammunition-Advanced Development	1,230
			USAF	RDTE/Ammunition-Advanced Development	144
	STATE TOTAL				34,978
	ASTROSYSTEMS INC	Delaware	USAF	RDTE/Ammunition-Advanced Development	200
	ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Ammunition-Advanced Development	510
		Ohio	USAF	RDTE/Ammunition-Advanced Development	30
	CONTRACTOR TOTAL				540
	AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Advanced Development	23,508
	GENTEX CORPORATION	Penn	ARMY	RDTE/Ammunition-Advanced Development	43-
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Advanced Development	72
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Ammunition-Advanced Development	37
		W Virginia	ARMY	RDTE/Ammunition-Advanced Development	628
	CONTRACTOR TOTAL				665
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	8,977
	OLIN CORP	Florida	ARMY	RDTE/Ammunition-Advanced Development	17,904
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Ammunition-Advanced Development	315
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Ammunition-Advanced Development	117
	WESTERN DESIGN CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development	100-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AD14	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Engineering Development	90,629
	AEROJET	California	ARMY	RDTE/Ammunition-Engineering Development	2,011
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	55,828
			NAVY	RDTE/Ammunition-Engineering Development	33,328
					132
					33,460
STATE TOTAL					
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Ammunition-Engineering Development	1,362
	DYNAMIT NOBEL AG	GERMANY	ARMY	RDTE/Ammunition-Engineering Development	45
	ELECTRO DESIGN MANUFACTURING	Alabama	ARMY	RDTE/Ammunition-Engineering Development	2,049
	ENVIRONMENTAL TECHNOLOGIES GRP	Maryland	ARMY	RDTE/Ammunition-Engineering Development	325
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Ammunition-Engineering Development	249
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	1,925
	MARVIN ENGINEERING CO INC	California	ARMY	RDTE/Ammunition-Engineering Development	105
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Ammunition-Engineering Development	268
	SPARTA INC	California	ARMY	RDTE/Ammunition-Engineering Development	3,801
	SPECTRUM MANAGEMENT GROUP INC	Virginia	ARMY	RDTE/Ammunition-Engineering Development	238
	VALENTEC INTERNATIONAL CORP	Florida	ARMY	RDTE/Ammunition-Engineering Development	26
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Ammunition-Engineering Development	248
	VISTA CONTROLS INC	California	ARMY	RDTE/Ammunition-Engineering Development	308
					102,248
R&D TOTAL					
AD15	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Ammunition-Operational Systems Develo	132
	HERCULES INCORPORATED	New Jersey	ARMY	RDTE/Ammunition-Operational Systems Develo	176
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Ammunition-Operational Systems Develo	1,760
					2,068
R&D TOTAL					
AD16	BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Ammunition-Management & Support	723

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD16 (CONTINUED)					
	GENERAL ELECTRIC COMPANY	Vermont	ARMY	RDTE/Ammunition-Management & Support	1,342
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Management & Support	1,028
	OLIN ORDNANCE	Florida	ARMY	RDTE/Ammunition-Management & Support	1,680
	THORN EMI ELECTRONICS LTD	UNITED KIN	USAF	RDTE/Ammunition-Management & Support	212
	WAGNER CASTINGS COMPANY	Illinois	ARMY	RDTE/Ammunition-Management & Support	174
	R&D TOTAL				5,159
	AD21 ADVANCED ROTORCRAFT TECHNOLOGY	California	NAVY	RDTE/Services-Basic Research	50
	ALLIANCE TECHNOLOGIES CORP	Mass	ARMY	RDTE/Services-Basic Research	1,112
	ALLIANT TECHSYSTEMS INC	Colorado	NAVY	RDTE/Services-Basic Research	69
	ALLIED SIGNAL AEROSPACE CO	Colorado	ARMY	RDTE/Services-Basic Research	39
	AMERICAN SOC FOR TSTG MTRIALS	Penn	ARMY	RDTE/Services-Basic Research	60
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Services-Basic Research	185
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Basic Research	85
	ANALYTIC SCIENCE CORP THE	Mass	ARMY USAF	RDTE/Services-Basic Research RDTE/Services-Basic Research	534 300
	STATE TOTAL				834
	ANTARES GROUP INC	California	NAVY	RDTE/Services-Basic Research	155
	ASI SYSTEMS INTERNATIONAL	California	NAVY	RDTE/Services-Basic Research	2,082
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Basic Research	166
		Mass	NAVY	RDTE/Services-Basic Research	137
		Rhode Islid	NAVY	RDTE/Services-Basic Research	29
	CONTRACTOR TOTAL				332
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Basic Research	50
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Basic Research	69

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD21 (CONTINUED)					
	BOOZ ALLEN & HAMILTON INC	D.C.	ARMY	RDTE/Services-Basic Research	397
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Services-Basic Research	50
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Services-Basic Research	50
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Services-Basic Research	5,251
	ELDYNE INC	Conn	NAVY	RDTE/Services-Basic Research	80
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Services-Basic Research	39
	ENGINEERING COMPUTER OPTECNOMICS	Maryland	NAVY	RDTE/Services-Basic Research	40
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Basic Research	837
	GEO CENTERS INC	New Jersey	ARMY	RDTE/Services-Basic Research	60
	GTE GOVERNMENT SYSTEMS CORP	Mass	USAF	RDTE/Services-Basic Research	151
	HARRIS CORPORATION	Florida	ARMY	RDTE/Services-Basic Research	48
	HARRIS GROUP THE INC	Virginia	USAF	RDTE/Services-Basic Research	30
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Basic Research	70
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Services-Basic Research	100
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Services-Basic Research	241
	JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Services-Basic Research	194
	KAPOS ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Basic Research	148
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Basic Research	50
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Services-Basic Research	628
	MMT INC	Conn	ARMY	RDTE/Services-Basic Research	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Basic Research	1,440
	PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Services-Basic Research	662
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Services-Basic Research	678
		Virginia	ARMY	RDTE/Services-Basic Research	1,703

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD21 (CONTINUED)					
	CONTRACTOR TOTAL				
	SECTOR TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Basic Research	2,381
	SONALYSTS INC	Rhode Islnd	NAVY	RDTE/Services-Basic Research	40
	SUPPOR CONTRACTING SYSTEMS	California	NAVY	RDTE/Services-Basic Research	170
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Services-Basic Research	4,466
	SYMVIIONICS INC	California	NAVY	RDTE/Services-Basic Research	250
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Services-Basic Research	46
	T A O GROSS INC	Mass	NAVY	RDTE/Services-Basic Research	520
	ULTRASYSTEMS INCORPORATED	Arizona	NAVY	RDTE/Services-Basic Research	469
	UNITED STATES DEPT OF ENERGY	California	ARMY	RDTE/Services-Basic Research	214-
		Miss	NAVY	RDTE/Services-Basic Research	50
		New Mexico	NAVY	RDTE/Services-Basic Research	50
	CONTRACTOR TOTAL				150
	UNIVERSITY OF DETROIT INC	Michigan	ARMY	RDTE/Services-Basic Research	76
	WOODS HOLE OCNGRPHIC INSTUTE	Mass	NAVY	RDTE/Services-Basic Research	275
	R&D TOTAL				24,367
AD22	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Services-Exploratory Development	53
			NAVY	RDTE/Services-Exploratory Development	508
	STATE TOTAL				561
	ALLIANT TECHSYSTEMS INC	Minnesota	USAF	RDTE/Services-Exploratory Development	256
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Exploratory Development	84
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Exploratory Development	299
	APPLIED MEASUREMENT SYSTEMS	Mass	NAVY	RDTE/Services-Exploratory Development	30
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Exploratory Development	38

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AD22 (CONTINUED)					
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Exploratory Development	485
	ASR INTERNATIONAL CORP	New York	ARMY	RDTE/Services-Exploratory Development	88
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Exploratory Development	89
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Services-Exploratory Development	470
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Services-Exploratory Development	390
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Exploratory Development	1,350
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Exploratory Development	56
		Mass	NAVY	RDTE/Services-Exploratory Development	286
	CONTRACTOR TOTAL				342
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Services-Exploratory Development	143
	CONTROL SYSTEMS ANALYSIS	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	30
	DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Exploratory Development	133
		Virginia	NAVY	RDTE/Services-Exploratory Development	50
	CONTRACTOR TOTAL				183
	DJC ANALYTICS	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	47
	E P L ANALYSIS INC	Maryland	NAVY	RDTE/Services-Exploratory Development	126
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Services-Exploratory Development	1,537
	ELECTRONIC WARFARE ASSOCIATES	Florida	NAVY	RDTE/Services-Exploratory Development	46
	ENSCO INC	Virginia	ARMY	RDTE/Services-Exploratory Development	50
	ENZIAN TECHNOLOGY INC	Florida	NAVY	RDTE/Services-Exploratory Development	145
	FLORIDA MAXIMA CORP	Florida	NAVY	RDTE/Services-Exploratory Development	85
	FUKUNAGA CONSULTING CORP	Indiana	NAVY	RDTE/Services-Exploratory Development	31
	G E C MARCONI MATERIAL	California	NAVY	RDTE/Services-Exploratory Development	695
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	59

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD22 (CONTINUED)

GENERAL ELECTRIC COMPANY	Conn	NAVY	RDTE/Services-Exploratory Development	\$	200
CONTRACTOR TOTAL	New York	NAVY	RDTE/Services-Exploratory Development		780
GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development		980
GEORGE MASON UNIVERSITY	Virginia	NAVY	RDTE/Services-Exploratory Development		50-
HELEN L MOORE	California	NAVY	RDTE/Services-Exploratory Development		47
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Exploratory Development		38
I NET INC	Maryland	NAVY	RDTE/Services-Exploratory Development		277
IMATRON INC	California	NAVY	RDTE/Services-Exploratory Development		881
INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Services-Exploratory Development		225
LIFE CYCLE ENGINEERING INC	S Carolina	ARMY	RDTE/Services-Exploratory Development		333
LITTLE ARTHUR D INC	Mass	NAVY	RDTE/Services-Exploratory Development		100
LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Services-Exploratory Development		33
LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Services-Exploratory Development		215
MCDONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Services-Exploratory Development		140
MECHANICAL TECHNOLOGY INC	New York	NAVY	RDTE/Services-Exploratory Development		294
MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Services-Exploratory Development		317
MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Services-Exploratory Development		74
CONTRACTOR TOTAL	New Mexico	ARMY	RDTE/Services-Exploratory Development		269
NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Services-Exploratory Development		1,566
NAVMAR INC	Penn	NAVY	RDTE/Services-Exploratory Development		1,835
OCEAN & ATMOSPHERIC SCIENCE	New York	ARMY	RDTE/Services-Exploratory Development		678
OCEAN ACOUSTICS ASSOCIATES	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		222
					110
					60

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD22 (CONTINUED)

OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Services-Exploratory Development	\$	58
ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Exploratory Development		361
QUESTECH INC	Virginia	ARMY	RDTE/Services-Exploratory Development		141
		NAVY	RDTE/Services-Exploratory Development		342
	STATE TOTAL				483
R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Exploratory Development		70
RACAL CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development		98
RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		360
SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Services-Exploratory Development		75
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Exploratory Development		1,461
	Conn	NAVY	RDTE/Services-Exploratory Development		95
	Hawaii	NAVY	RDTE/Services-Exploratory Development		280
	Ohio	USAF	RDTE/Services-Exploratory Development		254
	CONTRACTOR TOTAL				2,090
SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Services-Exploratory Development		107
SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Services-Exploratory Development		223
SONALYSTS INC	Conn	NAVY	RDTE/Services-Exploratory Development		181
SOUTHEASTN CTR ELECTR ENG ED	Florida	ARMY	RDTE/Services-Exploratory Development		125
SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Services-Exploratory Development		100
TECHNICAL SERVICES GROUP	Ohio	USAF	RDTE/Services-Exploratory Development		456
UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Exploratory Development		32
UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Services-Exploratory Development		67
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development		1,534
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Services-Exploratory Development		251

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD22 (CONTINUED)					
	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Services-Exploratory Development	186
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Services-Exploratory Development	200
			NAVY	RDTE/Services-Exploratory Development	84
		STATE TOTAL			284
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development	195
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Services-Exploratory Development	40
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Services-Exploratory Development	700
	UNIVERSITY SYSTEM OF NH	N.H.	NAVY	RDTE/Services-Exploratory Development	43
	VITRO CORPORATION	Rhode Isld	NAVY	RDTE/Services-Exploratory Development	35
	R&D TOTAL				22,622
AD23	ADAPTIVE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Services-Advanced Development	193
	ADELMAN ASSOCIATES	California	ARMY	RDTE/Services-Advanced Development	116
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Services-Advanced Development	200
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Advanced Development	379
	AEPCO INC	Maryland	NAVY	RDTE/Services-Advanced Development	4,042
	ALLIANT TECHSYSTEMS INC	Washington	NAVY	RDTE/Services-Advanced Development	486
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Advanced Development	5,228
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	96
	CONTRACTOR TOTAL				5,324
	ANALYTIC SCIENCE CORP THE	Ohio	USAF	RDTE/Services-Advanced Development	223
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Advanced Development	1,012
		Florida	NAVY	RDTE/Services-Advanced Development	35
	CONTRACTOR TOTAL				1,047
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Advanced Development	67

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AD23 (CONTINUED)

CONTRACTOR TOTAL	Rhode Isld	NAVY	RDTE/Services-Advanced Development	\$	26
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Advanced Development		93
ATACS CORPORATION	California	NAVY	RDTE/Services-Advanced Development		245
ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Advanced Development		115
ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Advanced Development		54
BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Services-Advanced Development		250
BABINGTON ENGINEERING	Virginia	ARMY	RDTE/Services-Advanced Development		138
BALL CORPORATION	California	USAF	RDTE/Services-Advanced Development		172
	Ohio	USAF	RDTE/Services-Advanced Development		45
CONTRACTOR TOTAL	Ohio	USAF	RDTE/Services-Advanced Development		1,362
BATTELLE DEVELOPMENT CORP	Ohio	USAF	RDTE/Services-Advanced Development		1,407
BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Services-Advanced Development		434
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Advanced Development		41-
BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Advanced Development		966
	Mass	NAVY	RDTE/Services-Advanced Development		1,035
CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Services-Advanced Development		607
800Z ALLEN & HAMILTON INC	Virginia	NAVY	RDTE/Services-Advanced Development		1,642
	Virginia	NAVY	RDTE/Services-Advanced Development		6,282
CONTRACTOR TOTAL	Virginia	ARMY	RDTE/Services-Advanced Development		359
BRTRC INC	Virginia	ARMY	RDTE/Services-Advanced Development		6,641
CAE-LINK CORPORATION	Virginia	NAVY	RDTE/Services-Advanced Development		102
COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Services-Advanced Development		81
CONTROL SYSTEMS ANALYSIS	Rhode Isld	NAVY	RDTE/Services-Advanced Development		30
					50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD23 (CONTINUED)

CULHAM LABORATORY	UNITED KIN	ARMY	RDTE/Services-Advanced Development	\$	50
DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Advanced Development		153
DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Services-Advanced Development		319
DYNATRON CORPORATION	Mass	NAVY	RDTE/Services-Advanced Development		35
EDO CORPORATION	New York	NAVY	RDTE/Services-Advanced Development		94
EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Advanced Development		2,034
ELDYNE INC	Conn	NAVY	RDTE/Services-Advanced Development		92
ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Services-Advanced Development		250
EPOCH ENGINEERING INC	Conn	NAVY	RDTE/Services-Advanced Development		77
ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Advanced Development		315
FLORIDA MAXIMA CORP	Florida	NAVY	RDTE/Services-Advanced Development		104
FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Services-Advanced Development		504
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Services-Advanced Development		320
FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Advanced Development		677
FULL COMPASS SYSTEMS	Wisconsin	NAVY	RDTE/Services-Advanced Development		32
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		143
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Advanced Development		130
	New York	NAVY	RDTE/Services-Advanced Development		600
	Penn	ARMY	RDTE/Services-Advanced Development		31
CONTRACTOR TOTAL					761
GENERAL PHYSICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		473
GETTLEMAN STONER INC	Mass	ARMY	RDTE/Services-Advanced Development		54
GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Services-Advanced Development		30
HILTON SYSTEMS INC	Miss	ARMY	RDTE/Services-Advanced Development		527

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Advanced Development	3,044
		Conn	NAVY	RDTE/Services-Advanced Development	250
		Rhode Islid	NAVY	RDTE/Services-Advanced Development	283
	CONTRACTOR TOTAL				3,577
	HUMAN RSRCES RES ORGANIZATION	Virginia	NAVY	RDTE/Services-Advanced Development	67
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Services-Advanced Development	284
	INNOVATIVE TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Advanced Development	146
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Services-Advanced Development	318
		Virginia	NAVY	RDTE/Services-Advanced Development	1,066
	CONTRACTOR TOTAL				1,384
	INTEGRD TEST & EVAL COOPERATV	California	NAVY	RDTE/Services-Advanced Development	498
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Services-Advanced Development	50
	INTERMAGNETICS GENERAL CORP	Mass	NAVY	RDTE/Services-Advanced Development	38
	INTERMETRICS INC	New Mexico	USAF	RDTE/Services-Advanced Development	1,666
		Penn	NAVY	RDTE/Services-Advanced Development	2,770
	CONTRACTOR TOTAL				4,436
	ISA ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development	196
	KENROB & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development	44
	KPMG PEAT MARWICK	Conn	NAVY	RDTE/Services-Advanced Development	82
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development	2,100
	MAGNAVOX GOVT & INDUSTRL ELCTR	New York	NAVY	RDTE/Services-Advanced Development	255
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Advanced Development	873
	MCLAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Advanced Development	272
		Rhode Islid	NAVY	RDTE/Services-Advanced Development	52

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD23 (CONTINUED)

CONTRACTOR TOTAL					\$	324
	MING OF UTAH INC	Conn	NAVY	RDTE/Services-Advanced Development		77
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Advanced Development		100
			USAF	RDTE/Services-Advanced Development		553
STATE TOTAL						653
	OMNI ANALYSIS INC	Conn	NAVY	RDTE/Services-Advanced Development		75
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Services-Advanced Development		95
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Advanced Development		484
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Services-Advanced Development		5,331
	PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Services-Advanced Development		1,226
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Advanced Development		4,177
	QUESTECH INC	Ohio	USAF	RDTE/Services-Advanced Development		629
		Virginia	USAF	RDTE/Services-Advanced Development		851
CONTRACTOR TOTAL						1,480
	RAIL COMPANY	Virginia	ARMY	RDTE/Services-Advanced Development		4,374
	RAYTHEON COMPANY	Conn	NAVY	RDTE/Services-Advanced Development		70
		Rhode Isl	NAVY	RDTE/Services-Advanced Development		549
CONTRACTOR TOTAL						619
	SCIENCE APPLICATIONS INTL CORP	Conn	NAVY	RDTE/Services-Advanced Development		121
		Ohio	USAF	RDTE/Services-Advanced Development		147
		Rhode Isl	NAVY	RDTE/Services-Advanced Development		95
CONTRACTOR TOTAL						363
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Advanced Development		2,647
		Rhode Isl	NAVY	RDTE/Services-Advanced Development		545

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD23 (CONTINUED)

CONTRACTOR TOTAL					\$	3,192
	SOUTHERN RESEARCH INSTITUTE	Alabama	USAF	RDTE/Services-Advanced Development		226
	STATCOM INC	Virginia	NAVY	RDTE/Services-Advanced Development		418
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Advanced Development		31
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Services-Advanced Development		50
	SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		392
		Rhode Isl	NAVY	RDTE/Services-Advanced Development		106
CONTRACTOR TOTAL						498
	SYSTEMS ENGINEERING ASSOC CORP	Conn	NAVY	RDTE/Services-Advanced Development		419
		Rhode Isl	NAVY	RDTE/Services-Advanced Development		70
CONTRACTOR TOTAL						489
	TECHNOLOGY APPLICATIONS INC	Virginia	NAVY	RDTE/Services-Advanced Development		123
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development		468
	THIOKOL CORPORATION	Utah	USAF	RDTE/Services-Advanced Development		422
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Advanced Development		1,364
		Maryland	NAVY	RDTE/Services-Advanced Development		156
CONTRACTOR TOTAL						1,520
	TROY SYSTEMS INC	Ohio	USAF	RDTE/Services-Advanced Development		456
	TRW INC	California	NAVY	RDTE/Services-Advanced Development		405
		Conn	NAVY	RDTE/Services-Advanced Development		153
		Ohio	USAF	RDTE/Services-Advanced Development		1,187
		Virginia	NAVY	RDTE/Services-Advanced Development		1,745
CONTRACTOR TOTAL						3,490
	UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		32

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Advanced Development	161
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Services-Advanced Development	1,887
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Advanced Development	74
	UNIVERSITY OF LOWELL	Mass	ARMY	RDTE/Services-Advanced Development	75
	UNIXPROS INC	New Jersey	NAVY	RDTE/Services-Advanced Development	49
	VALID LOGIC SYSTEMS INC	Conn	NAVY	RDTE/Services-Advanced Development	65
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Services-Advanced Development	400
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Advanced Development	90
	VITRO CORPORATION	Penn	NAVY	RDTE/Services-Advanced Development	942
	VITRONICS INC	New Jersey	ARMY	RDTE/Services-Advanced Development	3,930
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Services-Advanced Development	100
	WESTINGHOUSE ELECTRIC CORP	Conn	NAVY	RDTE/Services-Advanced Development	360
		Maryland	NAVY	RDTE/Services-Advanced Development	352
		Penn	NAVY	RDTE/Services-Advanced Development	762
	CONTRACTOR TOTAL				1,474
	R&D TOTAL				85,403
AD24	ADVANCED MICROSPHERE PDTS CO	California	NAVY	RDTE/Services-Engineering Development	499
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Engineering Development	57
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	4,186
		D.C.	NAVY	RDTE/Services-Engineering Development	78
		Florida	NAVY	RDTE/Services-Engineering Development	4,597
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	587
	CONTRACTOR TOTAL				9,448
	ANALYTIC SCIENCE CORP THE	Ohio	USAF	RDTE/Services-Engineering Development	1,251

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD24 (CONTINUED)

APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Engineering Development	\$	135
AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Services-Engineering Development		281
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development		100
ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development		431
AVCO CORPORATION	Conn	ARMY	RDTE/Services-Engineering Development		328
BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Services-Engineering Development		1,966
BOEING COMPANY THE	Alabama	USAF	RDTE/Services-Engineering Development		878
	Kansas	USAF	RDTE/Services-Engineering Development		23,625
CONTRACTOR TOTAL					24,503
BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Engineering Development		340
CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development		311
COLUMBIA RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development		245
COMTEK RESEARCH INC	California	NAVY	RDTE/Services-Engineering Development		2,105
CONTROL SYSTEMS ANALYSIS	Rhode Isld	NAVY	RDTE/Services-Engineering Development		226
CONVENTIONAL MUNITIONS SYSTEMS	Virginia	ARMY	RDTE/Services-Engineering Development		835
DAEDALEAN INC	Maryland	NAVY	RDTE/Services-Engineering Development		68
	Virginia	NAVY	RDTE/Services-Engineering Development		600
CONTRACTOR TOTAL					668
DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Engineering Development		130
DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Services-Engineering Development		249
DYNAMICS RESEARCH CORPORATION	Mass	USAF	RDTE/Services-Engineering Development		75
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Services-Engineering Development		164
EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Engineering Development		739
	Rhode Isld	NAVY	RDTE/Services-Engineering Development		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD24 (CONTINUED)

CONTRACTOR TOTAL	Virginia	NAVY	RDTE/Services-Engineering Development	\$	482
FLORIDA ATLANTIC UNIVERSITY	Florida	NAVY	RDTE/Services-Engineering Development		1,271
FOSTER MILLER INC	Mass	ARMY	RDTE/Services-Engineering Development		33
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Services-Engineering Development		128
GEMMA CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development		167
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development		58
	Rhode Isld	NAVY	RDTE/Services-Engineering Development		456
	Texas	USAF	RDTE/Services-Engineering Development		200
CONTRACTOR TOTAL					1,511
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Engineering Development		2,167
	New York	NAVY	RDTE/Services-Engineering Development		17,703
	Penn	NAVY	RDTE/Services-Engineering Development		174
CONTRACTOR TOTAL					130
GENERAL SIGNAL CORPORATION	Mass	NAVY	RDTE/Services-Engineering Development		18,007
GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Services-Engineering Development		125
HARRIS CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development		46
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Engineering Development		1,120
HYDROSCIENCE INC	Texas	NAVY	RDTE/Services-Engineering Development		294
INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Services-Engineering Development		396
INTERMETRICS INC	Penn	NAVY	RDTE/Services-Engineering Development		868
KETRON INC	Penn	NAVY	RDTE/Services-Engineering Development		2,177
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Engineering Development		896
LINDSEY WILLIAM C INC	Conn	NAVY	RDTE/Services-Engineering Development		1,398
					666

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	LOCKHEED AERONAUTICAL SYS CO	California	NAVY	RDTE/Services-Engineering Development	306
	LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Services-Engineering Development	11,065
	LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Services-Engineering Development	501
		Penn	NAVY	RDTE/Services-Engineering Development	1,543
	CONTRACTOR TOTAL				2,044
	LSA INC	California	NAVY	RDTE/Services-Engineering Development	1,714
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Engineering Development	758
	MANTECH INTERNATIONAL CORP	Penn	NAVY	RDTE/Services-Engineering Development	270
	MAR INCORPORATED	Maryland	NAVY	RDTE/Services-Engineering Development	725
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development	106
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Services-Engineering Development	72
		USAF	USAF	RDTE/Services-Engineering Development	33
	STATE TOTAL				105
	MCDONNELL DOUGLAS SPACE SYS CO	California	ARMY	RDTE/Services-Engineering Development	52
			NAVY	RDTE/Services-Engineering Development	48
	STATE TOTAL				100
	MCLAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Engineering Development	84
		Rhode Isl	NAVY	RDTE/Services-Engineering Development	160
	CONTRACTOR TOTAL				244
	MICRO COMPUTER SYSTEM INC	Virginia	NAVY	RDTE/Services-Engineering Development	550
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Engineering Development	97
	MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Engineering Development	4,325
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Services-Engineering Development	2,246
	NAVVAR INC	Penn	NAVY	RDTE/Services-Engineering Development	242
	NICHOLS RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Services-Engineering Development	773

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	OMNI ANALYSIS INC	California	NAVY	RDTE/Services-Engineering Development	27
		Conn	NAVY	RDTE/Services-Engineering Development	77
	CONTRACTOR TOTAL				104
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Engineering Development	240
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Services-Engineering Development	100
		Penn	NAVY	RDTE/Services-Engineering Development	1,856
	CONTRACTOR TOTAL				1,956
	PRC INC	Rhode Islnd	NAVY	RDTE/Services-Engineering Development	38
		Virginia	USAF	RDTE/Services-Engineering Development	3,539
	CONTRACTOR TOTAL				3,577
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Engineering Development	1,423
	R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Engineering Development	642
	RAPIDEX INC	Mass	ARMY	RDTE/Services-Engineering Development	100
	RAYTHEON COMPANY	Rhode Islnd	NAVY	RDTE/Services-Engineering Development	60
	SACHSE ENGINEERING ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	86
	SCIENCE APPLICATIONS INTL CORP	Conn	NAVY	RDTE/Services-Engineering Development	166
	SCIENTIFIC ATLANTA INC	California	NAVY	RDTE/Services-Engineering Development	294
	SHIP RESEARCH	California	NAVY	RDTE/Services-Engineering Development	95
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Engineering Development	1,072
	SPACE QUALIFIED SYSTEMS CORP	Florida	USAF	RDTE/Services-Engineering Development	330-
	SPEARS ASSOCIATES INC	Mass	NAVY	RDTE/Services-Engineering Development	613
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Engineering Development	439
	STV ENGINEERS INC	Penn	NAVY	RDTE/Services-Engineering Development	739
	SYNETICS CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	621

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD24 (CONTINUED)					
	SYSCON CORPORATION	Rhode Isl	NAVY	RDTE/Services-Engineering Development	\$ 234
		Virginia	NAVY	RDTE/Services-Engineering Development	381
	CONTRACTOR TOTAL				615
	SYSTEMS ENGINEERING ASSOC CORP	Conn	NAVY	RDTE/Services-Engineering Development	45
		Rhode Isl	NAVY	RDTE/Services-Engineering Development	30
	CONTRACTOR TOTAL				75
	SYSTEMS RESOURCE MANAGEMENT	Rhode Isl	NAVY	RDTE/Services-Engineering Development	25
	T S C INC	Conn	NAVY	RDTE/Services-Engineering Development	25
	TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Services-Engineering Development	52-
	TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Services-Engineering Development	64
		Ohio	NAVY	RDTE/Services-Engineering Development	36
	CONTRACTOR TOTAL				100
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Engineering Development	544
		Texas	NAVY	RDTE/Services-Engineering Development	253
	CONTRACTOR TOTAL				797
	TRW INC	Conn	NAVY	RDTE/Services-Engineering Development	498
	UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development	319
	UNISYS CORPORATION	California	NAVY	RDTE/Services-Engineering Development	1,740
		Penn	NAVY	RDTE/Services-Engineering Development	305
	CONTRACTOR TOTAL				2,045
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development	496
	VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development	102
	WHITE H P LABORATORY INC	Maryland	ARMY	RDTE/Services-Engineering Development	346
	R&D TOTAL				117,122

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25	ADVANCED CMBT SYSTM ENGRG	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,070
	ADVANCE INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	2,332
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Operational Systems Developm	1,290
	AEPCO INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm	250
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	525
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	676
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	174
	CONTRACTOR TOTAL				850
	ANALYTIC SCIENCE CORP THE	Ohio	USAF	RDTE/Services-Operational Systems Developm	228
	ARINC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	2,065
	ARMTEC DEFENSE PRODUCTS CO	California	ARMY	RDTE/Services-Operational Systems Developm	86
	ATLANTIC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	483
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	3,837
	CONTRACTOR TOTAL				4,320
	ATLANTIC SCIENCE & TECHNOLOGY	Penn	NAVY	RDTE/Services-Operational Systems Developm	309
	AVIALL OF TEXAS INC	Texas	ARMY	RDTE/Services-Operational Systems Developm	438
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Operational Systems Developm	800
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	174
	CONTRACTOR TOTAL				974
	BOOZ ALLEN & HAMILTON INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	479
	CAE-LINK CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	95
	COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	2,881
		Penn	NAVY	RDTE/Services-Operational Systems Developm	593
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	16,737
	CONTRACTOR TOTAL				20,211
	COMPUTER SOFTWARE ANALYSTS	Ohio	USAF	RDTE/Services-Operational Systems Developm	119

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,069
	ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	60
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	1,289
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Services-Operational Systems Developm	780
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	4,847
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	718
	CONTRACTOR TOTAL				5,565
	GENERAL OFFSHORE CORPORATION	Florida	NAVY	RDTE/Services-Operational Systems Developm	614
	HERITAGE REPORTING CORP	D.C.	USAF	RDTE/Services-Operational Systems Developm	32
	INTEGRATED MICROCOMPUTER SYS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	2,003
	INTERMETRICS INC	Penn	ARMY	RDTE/Services-Operational Systems Developm	4,364
	JAMES C. MCCREY ASSOCS, LTC	Virginia	ARMY	RDTE/Services-Operational Systems Developm	109
	JOHNSON CONTROLS INC	Marshall I	ARMY	RDTE/Services-Operational Systems Developm	83,393
	KETRON INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	189
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Operational Systems Developm	494
	KRUG INTERNATIONAL CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	698
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm	289
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Operational Systems Developm	1,402
	MESA SERVICES INTERNATIONAL	Utah	ARMY	RDTE/Services-Operational Systems Developm	149
	MING OF UTAH INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	32
	MODERN TECHNOLOGIES CORP	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	284
		Ohio	ARMY	RDTE/Services-Operational Systems Developm	230
			USAF	RDTE/Services-Operational Systems Developm	174
	STATE TOTAL				404

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AD25 (CONTINUED)					
	CONTRACTOR TOTAL				
	N T L INC	Miss	NAVY	RDTE/Services-Operational Systems Developm	688
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	302
	CONTRACTOR TOTAL				142
	NAT'L ASSOC OF COLL ADMSN COUN	Virginia	ARMY	RDTE/Services-Operational Systems Developm	444
	NATIONAL SYSTEMS & RESEARCH CO	Colorado	NAVY	RDTE/Services-Operational Systems Developm	28
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Services-Operational Systems Developm	110
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	831
	PLANNING CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	230
	PRC INC	Virginia	ARMY	RDTE/Services-Operational Systems Developm	1,594
			NAVY	RDTE/Services-Operational Systems Developm	2,934
					1,476
	STATE TOTAL				4,410
	PRC ORI JV	Virginia	ARMY	RDTE/Services-Operational Systems Developm	5,136
	R J O ENTERPRISES INC	Maryland	USAF	RDTE/Services-Operational Systems Developm	350
		Ohio	USAF	RDTE/Services-Operational Systems Developm	654
	CONTRACTOR TOTAL				1,004
	RAYTHEON COMPANY	New York	USAF	RDTE/Services-Operational Systems Developm	172
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	604
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	356
	SCIENCE APPLICATIONS INTL CORP	Arizona	ARMY	RDTE/Services-Operational Systems Developm	129
		Conn	NAVY	RDTE/Services-Operational Systems Developm	32
	CONTRACTOR TOTAL				161
	SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	986
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	527
	STEVENS INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	96

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	STRATEGIC FINANCIAL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	619
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Operational Systems Developm	122
	SUMMIT RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	55
	SVERDRUP TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	2,593
		Tennessee	USAF	RDTE/Services-Operational Systems Developm	133
	CONTRACTOR TOTAL				2,726
	SYNETICS CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	122
	SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Operational Systems Developm	90
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	10,321
	CONTRACTOR TOTAL				10,411
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Services-Operational Systems Developm	137
	TRW INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	26,701
	TWIN CITY TECHNICAL CASTINGS	Minnesota	USAF	RDTE/Services-Operational Systems Developm	38
	UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Operational Systems Developm	1,814
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	305
	CONTRACTOR TOTAL				2,119
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	567
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	333
	CONTRACTOR TOTAL				900
	VITRC CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,044
	WALLACE & COMPANY	Indiana	USAF	RDTE/Services-Operational Systems Developm	128
	WESTINGHOUSE ELECTRIC CORP	Florida	NAVY	RDTE/Services-Operational Systems Developm	84
	WHITTAKER CORPORATION	California	ARMY	RDTE/Services-Operational Systems Developm	652
	ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	55

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AD26	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Management & Support	201,462
	AEPCO INC	Maryland	NAVY	RDTE/Services-Management & Support	56
	AMERICAN SUPERCONDUCTOR CORP	Conn	NAVY	RDTE/Services-Management & Support	50
		Mass	NAVY	RDTE/Services-Management & Support	450
			NAVY	RDTE/Services-Management & Support	300
					750
	CONTRACTOR TOTAL				118
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Management & Support	50
	ANALYSIS & TECHNOLOGY INC	Rhode Isld	NAVY	RDTE/Services-Management & Support	1,958
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Services-Management & Support	6,309
		Ohio	USAF	RDTE/Services-Management & Support	8,267
	CONTRACTOR TOTAL				1,196
	ANALYTIC SERVICES INC	Colorado	USAF	RDTE/Services-Management & Support	1,189
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	NAVY	RDTE/Services-Management & Support	181-
			USAF	RDTE/Services-Management & Support	1,008
	STATE TOTAL				85
		Rhode Isld	NAVY	RDTE/Services-Management & Support	37
		Virginia	NAVY	RDTE/Services-Management & Support	1,130
	CONTRACTOR TOTAL				326
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Management & Support	50
	BELTRAN ASSOCIATES INC	New York	NAVY	RDTE/Services-Management & Support	183
	CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Services-Management & Support	4,653
	COMPUTER SCIENCES CORPORATION	Florida	USAF	RDTE/Services-Management & Support	359
	CRAFTSMEN CORP	New York	ARMY	RDTE/Services-Management & Support	2,249
	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Management & Support	212
	E M I TECHNOLOGIES INC	New Mexico	ARMY	RDTE/Services-Management & Support	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD26 (CONTINUED)					
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Management & Support	6,784
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Services-Management & Support	55
	FOSTER MILLER INC	Mass	NAVY	RDTE/Services-Management & Support	108
	GENERAL ELECTRIC COMPANY	Marshall I	ARMY	RDTE/Services-Management & Support	24,590
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Management & Support	360
	GTE GOVERNMENT SYSTEMS CORP	Marshall I	ARMY	RDTE/Services-Management & Support	13,783
	HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Services-Management & Support	3,320
	HUMAN RSRCES RES ORGANIZATION	Virginia	ARMY	RDTE/Services-Management & Support	169
	INTERMETRICS INC	Penn	ARMY	RDTE/Services-Management & Support	370
	ISERA GROUP	California	NAVY	RDTE/Services-Management & Support	47
	KALSI ENGINEERING INCORPORATED	Texas	NAVY	RDTE/Services-Management & Support	50
	KENROB & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Management & Support	94
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Services-Management & Support	422
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Management & Support	340
	MAR INCORPORATED	Florida	NAVY	RDTE/Services-Management & Support	3,370
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Management & Support	49
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Services-Management & Support	2,777
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Services-Management & Support	662
	MCLAUGHLIN RESEARCH CORP	Rhode Isl	NAVY	RDTE/Services-Management & Support	35
	METROLASER	California	NAVY	RDTE/Services-Management & Support	50
			USAF	RDTE/Services-Management & Support	464
			STATE TOTAL		514
	MICRILOR INC	Mass	NAVY	RDTE/Services-Management & Support	454
	NAVVAR INC	Penn	NAVY	RDTE/Services-Management & Support	360

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD26	(CONTINUED)				
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Services-Management & Support	\$ 3,439
	NEW TECHNOLOGY SUPPORT SVCS	California	NAVY	RDTE/Services-Management & Support	116
	NORTH DAKOTA STATE UNIVERSITY	N Dakota	USAF	RDTE/Services-Management & Support	230
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Management & Support	486
	PAI CORPORATION	Tennessee	NAVY	RDTE/Services-Management & Support	50
	PHELPS PROTECTION SYSTEMS INC	Maryland	NAVY	RDTE/Services-Management & Support	102
	PINNACLE RESEARCH INSTITUTE	California	USAF	RDTE/Services-Management & Support	90
	PRODUCT PLANNING INC	Illinois	NAVY	RDTE/Services-Management & Support	50
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Services-Management & Support	50
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Management & Support	254
	S S S ENGINEERING INC	New Mexico	NAVY	RDTE/Services-Management & Support	50
	S W L INC	Virginia	NAVY	RDTE/Services-Management & Support	392-
	SCHLUMBERGER TECHNOLOGY CORP	Michigan	USAF	RDTE/Services-Management & Support	124
	SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Services-Management & Support	49
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Services-Management & Support	1,004
	SOFTTECH INC	Mass	USAF	RDTE/Services-Management & Support	489
	SURFACE OPTICS CORP	California	USAF	RDTE/Services-Management & Support	437
	SYSTEMS RESOURCE MANAGEMENT	Rhode Isl	NAVY	RDTE/Services-Management & Support	96
	TAU CORPORATION	California	NAVY	RDTE/Services-Management & Support	53
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Management & Support	1,122
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Services-Management & Support	92
	TECOLOTE RESEARCH INC	Ohio	USAF	RDTE/Services-Management & Support	620
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Services-Management & Support	55
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Services-Management & Support	209

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD26 (CONTINUED)					
	TRACOR APPLIED SCIENCES INC	Maryland	ARMY	RDTE/Services-Management & Support	262
	TRW INC	Virginia	NAVY	RDTE/Services-Management & Support	2,315
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Services-Management & Support	2,396
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Services-Management & Support	400
	UTAH BIORESEARCH INC	Conn	NAVY	RDTE/Services-Management & Support	55
	VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Management & Support	100
	WESTAR CORPORATION	New Mexico	ARMY	RDTE/Services-Management & Support	1,958
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Services-Management & Support	245
	XEMET INC	Conn	NAVY	RDTE/Services-Management & Support	52
	R&D TOTAL				95,020
AD33 SYSTEM PLANNING CORPORATION					
	TECHNOLOGY ASSSSMENT TRANSF INC	California	NAVY	RDTE/Subsistence-Advanced Development	315
	TRACOR APPLIED SCIENCES INC	Maryland	ARMY	RDTE/Subsistence-Advanced Development	71
		Texas	NAVY	RDTE/Subsistence-Advanced Development	4,990
	R&D TOTAL				5,376
AD35 UNIDYNE CORPORATION					
	ALBANY INTERNATIONAL CORP	Conn	NAVY	RDTE/Subsistence-Operational Systems Devel	43
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	85
	HLA ENGINEERS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	64
	INTERNATIONAL BUS MCHS CORP	Texas	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	105
	LAIVAN CORPORATION	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Basic Re	78
	NORTH CAROLINA STATE UNIV	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	34
	TDA RESEARCH INC	N Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	188
	TECOGEN INC	Colorado	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	58
	UNIVERSITY OF TENNESSEE	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	97
		Tennessee	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	41

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	R&D TOTAL				750
AD42	A A I CORPORATION	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	10,246
	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	245
	AERONAUTIC RSCH ASSN PRINCETON	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	123
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	127
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	85
	CHEMFAB NEW YORK INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	677
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	89
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	120
	DYNAMIC SCIENCE INC	Arizona	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	49-
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	340
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Textiles, Clothing, Equipage-Explor D	260
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	750
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	35
	ILLUSION ENGINEERING INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	220
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	335
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	160
	MINNESOTA MINING & MFG CO	Minnesota	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	45
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	65
	OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	482
	ORCON CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	49
	ROCHESTER INST OF TECHNOLOGY	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	55
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	220
	SPRINGS INDUSTRIES INC	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	94
	SRI INTERNATIONAL	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	391

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AD42 (CONTINUED)					
	UNIVERSITY OF DAYTON INC	Ohio	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	548
	WORCESTER PLTYCHNIC INSTITUTE	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	100
	R&D TOTAL				15,812
AD43	ASPEN SYSTEMS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	40
	BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Advanced	1,027
	CHEMFAB NEW YORK INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	37
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	300
	FTL ASSOCIATES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	261
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	2,232
	HOLOGRAPHIC OPTICS INC	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	150
	ILC DOVER	Delaware	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	96
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	530
	METRIC SYSTEMS CORPORATION	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	110
	MINE SAFETY APPLIANCES CO	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	354
	S TRON	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	1,425
	SACH SINHA & ASSOCIATES	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	131
	UNISYS CORPORATION	Utah	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	262
	R&D TOTAL				6,955
AD44	AMERICAN TECHNOLOGY CORP.	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	431
	AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	116
	BALL CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	50
	CUSTOM MOLDERS INC	N Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	647
	DIVING UNLIMITED INTERNATIONAL	California	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	214
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	460

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD44 (CONTINUED)					
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	\$ 244
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	1,042
	S TRON	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	286
	STV ENGINEERS INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	349
	WICKES MANUFACTURING COMPANY	California	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	75
	R&D TOTAL				3,914
AD45	GEO CENTERS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Op Syste	4,084
	MOLECULAR TECH INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Op Syste	54
	R&D TOTAL				4,138
AD46	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	51
	MILITARY FOOD MARKETING ASSOC.	California	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	35
	R&D TOTAL				86
AD51	A A I CORPORATION	Maryland	NAVY	RDTE/Fuels and Lubricants-Basic Research	405
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	70
	MECHANICAL TECHNOLOGY INC	New York	NAVY	RDTE/Fuels and Lubricants-Basic Research	75
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	92
	SONEX RESEARCH INC	Maryland	ARMY	RDTE/Fuels and Lubricants-Basic Research	49
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Basic Research	116
	SRI INTERNATIONAL	California	USAF	RDTE/Fuels and Lubricants-Basic Research	170
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	71
	R&D TOTAL				1,048
AD52	CCS ASSOCIATES	Penn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	75
	G. S. ENGINEERING & MACHINE	Nevada	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	49
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	196

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD52 (CONTINUED)					
	HOWARD UNIVERSITY	D. C.	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	\$ 45
	MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY	RDTE/Fuels and Lubricants-Exploratory Deve	50
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	148
	MECHANICAL TECHNOLOGY INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	360
	PHOENIX CHEMICAL LABORATORY	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	48
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	75
	SPIRE CORPORATION	Mass	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	52
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	37
		Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	110
		Florida	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	325
		Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,420
	CONTRACTOR TOTAL				1,892
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,403
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	520
	R&D TOTAL				4,913
AD53	PITTSBURGH APPLIED RESEARCH CO	Penn	NAVY	RDTE/Fuels and Lubricants-Advanced Develop	50
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	2,470
	R&D TOTAL				2,520
AD54	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Engr Development	125
AD55	TEXAS RESEARCH INTERNATIONAL	Texas	ARMY	RDTE/Fuels and Lubricants-Operational Syst	50
AD56	ACCELL CATALYSIS INC	Iowa	USAF	RDTE/Fuels and Lubricants-Management & Sup	160
	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Fuels and Lubricants-Management & Sup	250
	R&D TOTAL				410
AD61	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Construction-Basic Research	30

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD61 (CONTINUED)					
	ESL INCORPORATED	California	ARMY	RDTE/Construction-Basic Research	250
	GEO SERVICES INC	Georgia	USAF	RDTE/Construction-Basic Research	160
	MCDONNELL DOUGLAS CORPORATION	Florida	ARMY	RDTE/Construction-Basic Research	1,022
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Construction-Basic Research	95
	R&D TOTAL				1,557
AD62	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Construction-Exploratory Development	79-
	G & F COMPANY	California	ARMY	RDTE/Construction-Exploratory Development	10,000
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Construction-Exploratory Development	174
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Construction-Exploratory Development	148
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Construction-Exploratory Development	55
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Construction-Exploratory Development	2,593
	SCIENCE APPLICATIONS INTL CORP	D.C.	NAVY	RDTE/Construction-Exploratory Development	904
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Construction-Exploratory Development	200
	TELEDYNE INDUSTRIES INC	Texas	ARMY	RDTE/Construction-Exploratory Development	1,294
	TRW INC	California	NAVY	RDTE/Construction-Exploratory Development	148
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Construction-Exploratory Development	250
	R&D TOTAL				15,687
AD63	BOLT BERANEK & NEWMAN INC	Mass	NAVY	PDTE/Construction-Advanced Development	266
		Rhode Isl	NAVY	RDTE/Construction-Advanced Development	610
	CONTRACTOR TOTAL				876
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Construction-Advanced Development	100
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Construction-Advanced Development	505
	SYRACUSE UNIVERSITY	New York	USAF	RDTE/Construction-Advanced Development	321
	TRW INC	California	NAVY	RDTE/Construction-Advanced Development	140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				
AD64	DBA SYSTEMS INC	Florida	ARMY	RDTE/Construction-Engineering Development	1,942
	LORAL CORPORATION	California	USAF	RDTE/Construction-Engineering Development	2,474
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Construction-Engineering Development	100
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Construction-Engineering Development	26-
	R&D TOTAL				200
					2,748
AD65	CANON USA INC	Virginia	ARMY	RDTE/Construction-Operational Systems Deve	397
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Construction-Operational Systems Deve	330
	JOAQUIN MFG CORP	Colorado	NAVY	RDTE/Construction-Operational Systems Deve	37
	PACIFIC SIERRA RESEARCH CORP	New Mexico	ARMY	RDTE/Construction-Operational Systems Deve	41
	PITT DES MOINES INC	D.C.	NAVY	RDTE/Construction-Operational Systems Deve	53
		Penn	NAVY	RDTE/Construction-Operational Systems Deve	262-
	CONTRACTOR TOTAL				209-
					93
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Construction-Operational Systems Deve	1,040
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Operational Systems Deve	1,729
	R&D TOTAL				72-
AD66	JAYCOR	Virginia	NAVY	RDTE/Construction-Management & Support	219
	LOCUS INC	Penn	NAVY	RDTE/Construction-Management & Support	131
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Management & Support	278
	R&D TOTAL				75
AD91	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50
	A T S S INC	California	NAVY	RDTE/Other Defense-Basic Research	50
	ABARIS	Nevada	ARMY	RDTE/Other Defense-Basic Research	150
	ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Defense-Basic Research	250
	ADVANCED DECISION SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	ADVANCED FUEL RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Basic Research	55
	ADVANCED RESOURCE DEV CORP	Maryland	NAVY	RDTE/Other Defense-Basic Research	244
	ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other Defense-Basic Research	972
	AEL DEFENSE CORP	Penn	NAVY	RDTE/Other Defense-Basic Research	553
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Other Defense-Basic Research	474
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	184
	CONTRACTOR TOTAL				658
	AEROJET	California	NAVY	RDTE/Other Defense-Basic Research	257
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Basic Research	103
	ALFAB INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	165
	ALLIANT TECHSYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	500
		Washington	NAVY	RDTE/Other Defense-Basic Research	115
	CONTRACTOR TOTAL				615
	ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	300
		D.C.	NAVY	RDTE/Other Defense-Basic Research	1,589
		Maryland	NAVY	RDTE/Other Defense-Basic Research	2,262
	CONTRACTOR TOTAL				4,151
	ALLIED SIGNAL INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	168
		Maryland	NAVY	RDTE/Other Defense-Basic Research	617
	CONTRACTOR TOTAL				785
	ALUMINUM COMPANY OF AMERICA	Penn	NAVY	RDTE/Other Defense-Basic Research	200
	AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	32
	AMERICAN INST BIOLOGCL SCIENCE	D.C.	NAVY	RDTE/Other Defense-Basic Research	30
	AMERICAN MATRIX INC	Tennessee	NAVY	RDTE/Other Defense-Basic Research	54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$

AD91 (CONTINUED)

AMERICAN SOCIETIES FOR EXP BIO	Maryland	NAVY	RDTE/Other Defense-Basic Research		195
AMERICAN TELEPHONE & TELG CO	New Jersey	ARMY	RDTE/Other Defense-Basic Research		2,381
		NAVY	RDTE/Other Defense-Basic Research		184
STATE TOTAL					2,565
CONTRACTOR TOTAL					200
AMHERST SYSTEMS INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research		13,471
	N Carolina	NAVY	RDTE/Other Defense-Basic Research		16,236
STATE TOTAL					59
AMOCO CHEMICAL CO	New York	ARMY	RDTE/Other Defense-Basic Research		250
AMRON CORPORATION		NAVY	RDTE/Other Defense-Basic Research		49
ANACAPA SCIENCES INC		USAF	RDTE/Other Defense-Basic Research		358
ANALYSIS & TECHNOLOGY INC	Georgia	NAVY	RDTE/Other Defense-Basic Research		2,000
	Virginia	NAVY	RDTE/Other Defense-Basic Research		167
	California	ARMY	RDTE/Other Defense-Basic Research		56
	Conn	NAVY	RDTE/Other Defense-Basic Research		160
	Miss	NAVY	RDTE/Other Defense-Basic Research		328
CONTRACTOR TOTAL					488
ANALYTIC POWER CORP	Mass	USAF	RDTE/Other Defense-Basic Research		50
ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Other Defense-Basic Research		617
APPLIED ANALYSIS INC	Mass	USAF	RDTE/Other Defense-Basic Research		52
APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Other Defense-Basic Research		150
APPLIED RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		140
APPLIED TECHNOLOGY ASSOC INC DEL	California	NAVY	RDTE/Other Defense-Basic Research		243
APPLIED TECHNOLOGY	Virginia	USAF	RDTE/Other Defense-Basic Research		50
ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research		2,785

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Other Defense-Basic Research	\$ 131
	ASSOC OF CAPE COD	Mass	NAVY	RDTE/Other Defense-Basic Research	112
	ASSOCIATED UNIVERSITIES INC	New York	NAVY	RDTE/Other Defense-Basic Research	381
	ASSURANCE TECHNOLOGY CORP	Florida	NAVY	RDTE/Other Defense-Basic Research	68
		Mass	NAVY	RDTE/Other Defense-Basic Research	15,508
		Virginia	NAVY	RDTE/Other Defense-Basic Research	672
	CONTRACTOR TOTAL				16,248
	ASTRONAUTICS CORP OF AMERICA	Wisconsin	USAF	RDTE/Other Defense-Basic Research	55
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Other Defense-Basic Research	333
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research	79
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	632
	AUSTIN RESEARCH ASSOCIATES	Texas	NAVY	RDTE/Other Defense-Basic Research	129
	AVCO CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	AVCO RESEARCH LABORATORY INC	Mass	NAVY	RDTE/Other Defense-Basic Research	241
	AWARE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	AXIOM CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	50
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	175
	B K TECHNOLOGIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	967
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	115
	BALLENA SYSTEMS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	520
	BARNES ENGINEERING COMPANY	Conn	NAVY	RDTE/Other Defense-Basic Research	81
	BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	120
	BAYLOR UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	60
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	300

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

	NAVY	RDTE/Other Defense-Basic Research	\$
STATE TOTAL			
BELL COMMUNICATIONS RESEARCH	NAVY	RDTE/Other Defense-Basic Research	417
BENMOL CORPORATION	NAVY	RDTE/Other Defense-Basic Research	717
BIGELOW LAB FOR OCEAN SCNCES	ARMY	RDTE/Other Defense-Basic Research	524
BIOELASTICS RESEARCH LTD	NAVY	RDTE/Other Defense-Basic Research	179
BIOMAGNETIC TECHNOLOGIES INC	NAVY	RDTE/Other Defense-Basic Research	29
BIOPHOTONICS	NAVY	RDTE/Other Defense-Basic Research	114
BIOSPHERICAL INSTRUMENTS INC	NAVY	RDTE/Other Defense-Basic Research	94
BIOTRONICS TECHNOLOGIES INC	NAVY	RDTE/Other Defense-Basic Research	266
BLACK & DECKER CORPORATION	NAVY	RDTE/Other Defense-Basic Research	50
BOEING AEROSPACE & ELECTRONICS	NAVY	RDTE/Other Defense-Basic Research	262
	NAVY	RDTE/Other Defense-Basic Research	80
	NAVY	RDTE/Other Defense-Basic Research	145
	USAF	RDTE/Other Defense-Basic Research	4,851
STATE TOTAL			4,996
BOEING ELECTRONICS INC	NAVY	RDTE/Other Defense-Basic Research	125
BOLT BERANEK & NEWMAN INC	ARMY	RDTE/Other Defense-Basic Research	5,486
	NAVY	RDTE/Other Defense-Basic Research	3,132
	USAF	RDTE/Other Defense-Basic Research	300
STATE TOTAL			8,918
CONTRACTOR TOTAL			
BOSTON UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	825
BRIGHAM YOUNG UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	9,743
BRITISH MARITIME TECHNOLOGY	NAVY	RDTE/Other Defense-Basic Research	44
BROWN NEIL INSTRUMENT SYS	NAVY	RDTE/Other Defense-Basic Research	102
BROWN UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	28
	NAVY	RDTE/Other Defense-Basic Research	81
	NAVY	RDTE/Other Defense-Basic Research	800

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R&D	CONTRACTOR NAME	CONTRACT TYPE	DESCRIPTION	AMOUNT
AD91 (CONTINUED)	BRUNSWICK CORPORATION	Florida	RDTE/Other Defense-Basic Research	\$ 5,133
	C S EXHIBITS	Virginia	RDTE/Other Defense-Basic Research	59
	CAE INDUSTRIES LTD	Texas	RDTE/Other Defense-Easic Research	395
	CALIFORNIA INST OF TECHNOLOGY	California	RDTE/Other Defense-Basic Research	1,216
	CALIFORNIA RES & TECHNOLOGY	California	RDTE/Other Defense-Basic Research	39
	CALSPAN CORPORATION	New York	RDTE/Other Defense-Basic Research	40
		USAF	RDTE/Other Defense-Basic Research	326
		STATE TOTAL		366
		Ohio	RDTE/Other Defense-Basic Research	1,992
		Texas	RDTE/Other Defense-Basic Research	134
				2,492
	CONTRACTOR TOTAL			
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	RDTE/Other Defense-Basic Research	302
	CARNEGIE GROUP INC	Penn	RDTE/Other Defense-Basic Research	7,558
	CARNEGIE MELLON UNIVERSITY	Penn	RDTE/Other Defense-Basic Research	200
		NAVY	RDTE/Other Defense-Basic Research	1,485
		STATE TOTAL		1,685
	CASE WESTERN RESERVE UNIV	Ohio	RDTE/Other Defense-Basic Research	111
		USAF	RDTE/Other Defense-Basic Research	400
		STATE TOTAL		511
	CERAMICS PROCESS SYSTEMS CORP	Mass	RDTE/Other Defense-Basic Research	1,501
	CHASE INC	Mass	RDTE/Other Defense-Basic Research	59
	CHEMETEK	Oregon	RDTE/Other Defense-Basic Research	100
	CHIRP CORP	California	RDTE/Other Defense-Basic Research	120
	CLARKSON UNIVERSITY	New York	RDTE/Other Defense-Basic Research	362
	COGNET SYSTEMS INC	Ohio	RDTE/Other Defense-Basic Research	45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	COGNITECH INC	California	NAVY	RDTE/Other Defense-Basic Research	62
	COLORADO SCHOOL OF MINES	Colorado	NAVY	RDTE/Other Defense-Basic Research	50
	COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Basic Research	212
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	938
			USAF	RDTE/Other Defense-Basic Research	70
		STATE TOTAL			1,008
	COMPUTATIONAL LOGIC INC	Texas	NAVY	RDTE/Other Defense-Basic Research	75
	COMPUTATIONAL PHYSICS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	358
		Virginia	NAVY	RDTE/Other Defense-Basic Research	30
					388
	CONTRACTOR TOTAL				255
	COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Other Defense-Basic Research	474
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Basic Research	75
	COMPUTER SYSTEMS INTERNATIONAL	Virginia	NAVY	RDTE/Other Defense-Basic Research	134
	COORDINATING RESEARCH COUNCIL	Georgia	ARMY	RDTE/Other Defense-Basic Research	30
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Basic Research	200
	CORDEC CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,223
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	614
	CORNING INC	New York	NAVY	RDTE/Other Defense-Basic Research	250
	CORTICON INC	Penn	NAVY	RDTE/Other Defense-Basic Research	50
	CREATIVE OPTICS INC	N.H.	ARMY	RDTE/Other Defense-Basic Research	242
	CRYOLIFE INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	424
	CRYOPHARM	California	NAVY	RDTE/Other Defense-Basic Research	506
	CRYSTALLUME	California	NAVY	RDTE/Other Defense-Basic Research	170
	CSA ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	DARTMOUTH COLLEGE	N.H.	NAVY	RDTE/Other Defense-Basic Research	868
	DATA COMPUTER CORP OF AMERICA	Maryland	NAVY	RDTE/Other Defense-Basic Research	862
	DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Other Defense-Basic Research	472
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	153
	DECISION SCIENCE CONSORTIUM	Virginia	NAVY	RDTE/Other Defense-Basic Research	105
	DEFENSE DIAMOND DEVELOPMENT CO	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,193
	DEFENSE GROUP INC	California	NAVY	RDTE/Other Defense-Basic Research	263
	DELFIN SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	235
	DELPHIC ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	75
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Basic Research	172
	DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Other Defense-Basic Research	135
	DREXEL UNIVERSITY	Penn	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	84 77
	STATE TOTAL				161
	DU PONT E I DE NEMOURS & CO	Delaware	NAVY	RDTE/Other Defense-Basic Research	109
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Basic Research	1,500
	DYNAMIC SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	132
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	724
	E OIR MEASUREMENTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	42
	EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	50
	EG&G WASHINGTON ANALYTICAL SVC	California	NAVY	RDTE/Other Defense-Basic Research	80
	CONTRACTOR TOTAL				102
	EIDETICS INTERNATIONAL INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	182
	CONTRACTOR TOTAL				267

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	\$	935
ELECTRO OPTICAL SCIENCES INC	New York	NAVY	RDTE/Other Defense-Basic Research		425
ELECTRONICS DESIGN CONSULTANTS	N Carolina	NAVY	RDTE/Other Defense-Basic Research		49
EMCORE CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Basic Research		525
ENGINEERING & ECONOMICS RES	Virginia	ARMY	RDTE/Other Defense-Basic Research		151
ENSCO INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		174
ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other Defense-Basic Research		425
	USAF		RDTE/Other Defense-Basic Research		180
STATE TOTAL					605
EPI SYSTEMS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research		116
EPION CORP	Mass	NAVY	RDTE/Other Defense-Basic Research		50
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		55
ESL INCORPORATED	California	NAVY	RDTE/Other Defense-Basic Research		145
FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		5,102
FAIRFAX MATERIALS RESEARCH INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		150
FERRANTI INSTRUMENTATION LTD	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research		170
FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Defense-Basic Research		442
FIBERTEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		75
FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Basic Research		484
FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Other Defense-Basic Research		470
	USAF		RDTE/Other Defense-Basic Research		58
STATE TOTAL					528
FMC CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Basic Research		625
FORE SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Basic Research		290
FORMAL SYSTEMS DESIGN & DEVEL	Alabama	NAVY	RDTE/Other Defense-Basic Research		50

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AD91 (CONTINUED)

FOSTER MILLER INC	Mass		ARMY	RDTE/Other Defense-Basic Research	\$	125
			USAF	RDTE/Other Defense-Basic Research		60
						185
				STATE TOTAL		
FRIED D L ASSOCIATES INC	California		NAVY	RDTE/Other Defense-Basic Research		95
FRONTIER TECHNOLOGY INC	California		USAF	RDTE/Other Defense-Basic Research		459
	Ohio		USAF	RDTE/Other Defense-Basic Research		134
						593
				CONTRACTOR TOTAL		
FTR INC	New Jersey		NAVY	RDTE/Other Defense-Basic Research		50
FULL CIRCLE RESEARCH	California		ARMY	RDTE/Other Defense-Basic Research		50
G E C MARCONI CO LTD	UNITED KIN		NAVY	RDTE/Other Defense-Basic Research		1,366
G R ASSOCIATES INC	Maryland		NAVY	RDTE/Other Defense-Basic Research		85
GENERAL ATOMICS	California		USAF	RDTE/Other Defense-Basic Research		642
GENERAL DYNAMICS CORPORATION	California		NAVY	RDTE/Other Defense-Basic Research		180
	Texas		NAVY	RDTE/Other Defense-Basic Research		75
	Virginia		NAVY	RDTE/Other Defense-Basic Research		400
						655
				CONTRACTOR TOTAL		
GENERAL ELECTRIC COMPANY	New Jersey		NAVY	RDTE/Other Defense-Basic Research		500
	New York		NAVY	RDTE/Other Defense-Basic Research		907
						1,407
				CONTRACTOR TOTAL		
GENERAL HOSPITAL CORPORATION	Mass		NAVY	RDTE/Other Defense-Basic Research		3,050
GENERAL RESEARCH CORPORATION	California		NAVY	RDTE/Other Defense-Basic Research		140
GEO CENTERS INC	D.C.		NAVY	RDTE/Other Defense-Basic Research		2,661
	Mass		NAVY	RDTE/Other Defense-Basic Research		1,165
						3,826
				CONTRACTOR TOTAL		

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AD91 (CONTINUED)					
	GEORGE MASON UNIVERSITY	Virginia	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	\$ 40 183
		STATE TOTAL			223
	GEORGE WASHINGTON UNIV THE	D.C.	NAVY	RDTE/Other Defense-Basic Research	75
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	NAVY	RDTE/Other Defense-Basic Research	2,810
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	280 172 584
		STATE TOTAL			1,036
	GRAMMATECH INC	New York	NAVY	RDTE/Other Defense-Basic Research	250
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Other Defense-Basic Research	483
	GTE INTERNATIONAL INC	Mass	NAVY	RDTE/Other Defense-Basic Research	247
	GULTON DATA SYSTEMS	New Mexico	NAVY	RDTE/Other Defense-Basic Research	1,139
	HARRIS CORPORATION	Florida	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	5,752 500
		STATE TOTAL			6,252
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	266
		Texas	NAVY	RDTE/Other Defense-Basic Research	45
	CONTRACTOR TOTAL				311
	HAWAII BIOTECHNOLOGY GROUP	Hawaii	NAVY	RDTE/Other Defense-Basic Research	52
	HEALTH RESEARCH INC	New York	NAVY	RDTE/Other Defense-Basic Research	100
	HEWLETT PACKARD COMPANY	Maryland	NAVY	RDTE/Other Defense-Basic Research	630
	HONEYWELL INC	Florida	NAVY	RDTE/Other Defense-Basic Research	36
		Minnesota	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	766 267
		STATE TOTAL			1,033
	CONTRACTOR TOTAL				1,069

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	HORIZON TECHNOLOGY	W Virginia	NAVY	RDTE/Other Defense-Basic Research	361
	HORRIGAN ANALYTICS	Illinois	NAVY	RDTE/Other Defense-Basic Research	200
	HOUSTON AREA RESEARCH CENTER	Texas	NAVY	RDTE/Other Defense-Basic Research	100
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Defense-Basic Research	1,605
		USAF		RDTE/Other Defense-Basic Research	2,353
	STATE TOTAL				3,958
	HUGHES ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	2,834
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Basic Research	322
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Basic Research	249
		NAVY		RDTE/Other Defense-Basic Research	75
	STATE TOTAL				324
	I W G CORP	California	NAVY	RDTE/Other Defense-Basic Research	195
	ICECASTING INC	Washington	NAVY	RDTE/Other Defense-Basic Research	107
	INFORMATION PLANNING ASSOC	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,075
	INNOVATIVE CONCEPTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	2,443
	INNOVATIVE DYNAMICS	New York	NAVY	RDTE/Other Defense-Basic Research	99
	INTEGRATED PARALLEL TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	49
	INTEGRATED SYSTEM ASSEMBLIES	Mass	NAVY	RDTE/Other Defense-Basic Research	70
	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	60
		Virginia	NAVY	RDTE/Other Defense-Basic Research	33
	CONTRACTOR TOTAL				93
	INTERNATIONAL BUS MCHS CORP	California	NAVY	RDTE/Other Defense-Basic Research	369
		New York	NAVY	RDTE/Other Defense-Basic Research	1,324
		Virginia	NAVY	RDTE/Other Defense-Basic Research	3,322
	CONTRACTOR TOTAL				5,015
	INTERNATIONAL FUEL CELLS CORP	Conn	NAVY	RDTE/Other Defense-Basic Research	202

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	INTERSPEC INC	Penn	NAVY	RDTE/Other Defense-Basic Research	\$ 149
	INTRASPACE CORPORATION	Utah	NAVY	RDTE/Other Defense-Basic Research	1,059
	IOWA STATE UNIV SCNC	Illinois	NAVY	RDTE/Other Defense-Basic Research	30
	JAYCOR	Virginia	NAVY	RDTE/Other Defense-Basic Research	599
	JHA TECHNICAL CONSULTING SER	California	NAVY	RDTE/Other Defense-Basic Research	49
	JIL SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	247
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Basic Research	957
	JORTNER RESEARCH & ENGRG	California	NAVY	RDTE/Other Defense-Basic Research	90
	KENT STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	250
	KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	713
	KOPIN CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	300
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Basic Research	318
	LASER SCIENCE CO	Iowa	NAVY	RDTE/Other Defense-Basic Research	49
	LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research	44
	LAWRENCE LIVERMORE LABORATORY	California	NAVY	RDTE/Other Defense-Basic Research	105
	LEHIGH UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	136
	LIFE CELL CORP	Texas	NAVY	RDTE/Other Defense-Basic Research	247
	LINARES MANAGEMENT ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	LING ELECTRONICS INC	California	NAVY	RDTE/Other Defense-Basic Research	28
	LITHIUM ENERGY ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	LITTON SYSTEMS INC	California	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	196 347
	STATE TOTAL				543
	New Jersey		NAVY	RDTE/Other Defense-Basic Research	150

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	693
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Other Defense-Basic Research	1,613
			USAF	RDTE/Other Defense-Basic Research	9,680
					53
	STATE TOTAL				9,733
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Basic Research	450
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Basic Research	44
	LORAL CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	50
		Mass	NAVY	RDTE/Other Defense-Basic Research	2,423
		Ohio	NAVY	RDTE/Other Defense-Basic Research	96
	CONTRACTOR TOTAL				2,569
	LOWELL OBSERVATORY	Arizona	NAVY	RDTE/Other Defense-Basic Research	100
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Other Defense-Basic Research	55
	LUTRONIX INC	California	NAVY	RDTE/Other Defense-Basic Research	500
	M E C SYSTEMS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	27
	M/A COM INC	Mass	NAVY	RDTE/Other Defense-Basic Research	75
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Basic Research	3,161
	MAGNAVOX GOVT & INDUSTRIAL ELCTR	Virginia	NAVY	RDTE/Other Defense-Basic Research	136
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	400
	MARBLE ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	250
	MARINE ACOUSTICS	Rhode Isl	NAVY	RDTE/Other Defense-Basic Research	1,063
	MARINE RESEARCH CORP	Vermont	NAVY	RDTE/Other Defense-Basic Research	90
	MARCO MATERIALS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Other Defense-Basic Research	54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Colorado	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	\$ 192 412
		STATE TOTAL			604
		Maryland	NAVY	RDTE/Other Defense-Basic Research	821
	CONTRACTOR TOTAL				1,425
	MASSACHUSETTS INST OF TECHNOLOGY	Mass	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,079 6,842 40
		STATE TOTAL			7,961
		Michigan	ARMY	RDTE/Other Defense-Basic Research	252
	CONTRACTOR TOTAL				8,213
	MATHTECH INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	119
		Virginia	NAVY	RDTE/Other Defense-Basic Research	49
	CONTRACTOR TOTAL				168
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Other Defense-Basic Research	1,849
	MCPHEE RESEARCH CO	Washington	NAVY	RDTE/Other Defense-Basic Research	157
	MEMRY CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research	115
	MENTOR GRAPHICS CORPORATION	Oregon	NAVY	RDTE/Other Defense-Basic Research	346
	METRICA INC	Texas	USAF	RDTE/Other Defense-Basic Research	32
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Basic Research	182
	MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	ARMY	RDTE/Other Defense-Basic Research	69
	MICROELECTRONICS	Texas	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	190 417
		STATE TOTAL			607
	MIDWEST RESEARCH INSTITUTE	California	USAF	RDTE/Other Defense-Basic Research	315
		Missouri	USAF	RDTE/Other Defense-Basic Research	1,487

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Basic Research	\$ 1,802
	MINNESOTA MINING & MFG CO	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50
	MISSION RESEARCH CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research	668
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	159
			USAF	RDTE/Other Defense-Basic Research	97
			USAF	RDTE/Other Defense-Basic Research	124
	STATE TOTAL				
		Virginia	NAVY	RDTE/Other Defense-Basic Research	221
	CONTRACTOR TOTAL				
	MITEK SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	44
	MNEMONICS INC	Florida	NAVY	RDTE/Other Defense-Basic Research	265
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Other Defense-Basic Research	196
	MOLECULAR DEVICES CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	648
	MONTEREY INSTITUTE FOR RESEARC	California	NAVY	RDTE/Other Defense-Basic Research	343
	MORLOCK ENVIRONMENTAL	Oklahoma	USAF	RDTE/Other Defense-Basic Research	137
	MRAM INC	Mass	NAVY	RDTE/Other Defense-Basic Research	40
	MUFFOLETTO OPTICAL CO INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	486
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Basic Research	58
	NATIONAL SCIENCE FOUNDATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	96
		D.C.	NAVY	RDTE/Other Defense-Basic Research	531
		Washington	NAVY	RDTE/Other Defense-Basic Research	70
	CONTRACTOR TOTAL				
	NEPTUNE TECHNOLOGIES INC	Miss	NAVY	RDTE/Other Defense-Basic Research	1,778
	NETROLOGIC INC	California	NAVY	RDTE/Other Defense-Basic Research	82
	CONTRACTOR TOTAL				
					1,930
					123
					250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	NEUROGEN LABS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	122
	NEUROSCIENCES RES FOUNDATION	New York	NAVY	RDTE/Other Defense-Basic Research	40
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	NAVY	RDTE/Other Defense-Basic Research	518
	NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Basic Research	125
	NEW YORK STATE OF	New York	NAVY	RDTE/Other Defense-Basic Research	42
	NEW YORK UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	35
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Basic Research	53
	NORTH AMERICAN DYNAMICS	California	USAF	RDTE/Other Defense-Basic Research	512
	NORTH CAROLINA A&T UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	202
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	769
	NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Other Defense-Basic Research	350
	NORTH STAR RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Basic Research	49
	NORTHEASTERN UNIVERSITY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	31
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	260
		Illinois	NAVY	RDTE/Other Defense-Basic Research	226
	CONTRACTOR TOTAL				486
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Other Defense-Basic Research	304
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	132
	NORTON CO DIAMOND FILMS DIV	Mass	NAVY	RDTE/Other Defense-Basic Research	291
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	282
			NAVY	RDTE/Other Defense-Basic Research	44
			USAF	RDTE/Other Defense-Basic Research	72
	STATE TOTAL				398
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Basic Research	123
	OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	215

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AD91 (CONTINUED)					
	OMEGA P INC		USAF	RDTE/Other Defense-Basic Research	\$ 30
	OMNET INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	245
	OMNICHROME	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	ONEIDA RESOURCES INC	California	NAVY	RDTE/Other Defense-Basic Research	60
	OPTICOMP CORPORATION	Ohio	USAF	RDTE/Other Defense-Basic Research	50
	OPTRON SYSTEMS INC	Nevada	NAVY	RDTE/Other Defense-Basic Research	310
	OR CONCEPTS APPLIED	Mass	NAVY	RDTE/Other Defense-Basic Research	1,067
	ORBITAL SCIENCES CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	508
	OREGON STATE UNIVERSITY	Virginia	USAF	RDTE/Other Defense-Basic Research	50
	ORINCON CORPORATION	Oregon	NAVY	RDTE/Other Defense-Basic Research	5,475
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Defense-Basic Research	1,341
	PARASOFT	California	NAVY	RDTE/Other Defense-Basic Research	60
	PARKER HANNIFIN CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	826
	PDA ENGINEERING	California	USAF	RDTE/Other Defense-Basic Research	229
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Other Defense-Basic Research	200
	PERFECT VIEW INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research	59
	PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research	79
	PERSONNEL DCSONS RES INSTITUTE	Minnesota	NAVY	RDTE/Other Defense-Basic Research	1,862
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	30
	PHYSICAL RESEARCH INC	California	NAVY	RDTE/Other Defense-Basic Research	1,971
			STATE TOTAL		109
					20
					142
					350
					100

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AD91 (CONTINUED)

PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Other Defense-Basic Research		\$ 160
		USAF	Defense-Basic Research		38
STATE TOTAL					
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Basic Research		198
	Mass	NAVY	RDTE/Other Defense-Basic Research		373
CONTRACTOR TOTAL					
PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Other Defense-Basic Research		175
PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Other Defense-Basic Research		548
	New Jersey	NAVY	RDTE/Other Defense-Basic Research		48
	Virginia	NAVY	RDTE/Other Defense-Basic Research		1,266
CONTRACTOR TOTAL					
PLASMATRON, INC	Penn	ARMY	RDTE/Other Defense-Basic Research		45
POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research		1,525
PRC INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		2,836
PRECISION COMBUSTION INC	Conn	USAF	RDTE/Other Defense-Basic Research		50
PRINCETON SCIENTIFIC INSTRS	New Jersey	NAVY	RDTE/Other Defense-Basic Research		203
PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research		1,185
PROGRAM RESOURCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		387
PROMEGA CORP	Wisconsin	NAVY	RDTE/Other Defense-Basic Research		49
PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		1,656
PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Other Defense-Basic Research		203
QSOURCE INC	Conn	NAVY	RDTE/Other Defense-Basic Research		125
QUADRA ENGINEERING INC	Mass	NAVY	RDTE/Other Defense-Basic Research		87
QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		738
		NAVY	RDTE/Other Defense-Basic Research		66
		NAVY	RDTE/Other Defense-Basic Research		69
		NAVY	RDTE/Other Defense-Basic Research		1,179

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

QUICK REACTION CORP	California	ARMY	RDTE/Other	Defense-Basic Research	\$ 250
R & D ASSOCIATES	California	NAVY	RDTE/Other	Defense-Basic Research	400
RADIATION SCIENCE INC	Mass	NAVY	RDTE/Other	Defense-Basic Research	46
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other	Defense-Basic Research	221
RAVEN INC	Virginia	NAVY	RDTE/Other	Defense-Basic Research	630
RAYMOND L & ASSOC	California	ARMY	RDTE/Other	Defense-Basic Research	60
RAYTHEON COMPANY	California	NAVY	RDTE/Other	Defense-Basic Research	200
	Mass	NAVY	RDTE/Other	Defense-Basic Research	503
		USAF	RDTE/Other	Defense-Basic Research	81
	STATE TOTAL				584
	Rhode Isld	NAVY	RDTE/Other	Defense-Basic Research	311
CONTRACTOR TOTAL					1,095
RENSELAER POLYTECHNIC INST	New York	NAVY	RDTE/Other	Defense-Basic Research	1,600
RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Other	Defense-Basic Research	1,999
RETICULAR SYSTEMS INC	California	NAVY	RDTE/Other	Defense-Basic Research	50
REVCO INC	New York	NAVY	RDTE/Other	Defense-Basic Research	50
RIVERSIDE RESEARCH INSTITUTE	New York	NAVY	RDTE/Other	Defense-Basic Research	399
ROCKET RESEARCH CO	Washington	NAVY	RDTE/Other	Defense-Basic Research	68
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other	Defense-Basic Research	1,702
		USAF	RDTE/Other	Defense-Basic Research	101
	STATE TOTAL				1,803
ROWE DEINES INSTRUMENTS INC	California	NAVY	RDTE/Other	Defense-Basic Research	49
RUTGERS THE STATE UNIVERSITY	New Jersey	NAVY	RDTE/Other	Defense-Basic Research	204
S B S ENGINEERING INC	Texas	USAF	RDTE/Other	Defense-Basic Research	350
S F A INC	D.C.	NAVY	RDTE/Other	Defense-Basic Research	2,852

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	S S G INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	734
	S T D RESEARCH CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	3,586
	SALK INST FOR BLGICAL STUDIES	California	NAVY	RDTE/Other Defense-Basic Research	154
	SANDERS FREDERICK DR	California	ARMY	RDTE/Other Defense-Basic Research	140
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	34
		Alabama	NAVY	RDTE/Other Defense-Basic Research	50
		Mass	USAF	RDTE/Other Defense-Basic Research	386
		Virginia	NAVY	RDTE/Other Defense-Basic Research	374
	CONTRACTOR TOTAL				611
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Basic Research	1,371
	SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Other Defense-Basic Research	244
	SCI TEC INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	170
	SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Other Defense-Basic Research	814
	SCIENCE & TECHNOLOGY CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research	250
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Defense-Basic Research	1,305
		D.C.	NAVY	RDTE/Other Defense-Basic Research	4,803
		Virginia	NAVY	RDTE/Other Defense-Basic Research	380
	STATE TOTAL				130
		Washington	NAVY	RDTE/Other Defense-Basic Research	4,256
		Mass	NAVY	RDTE/Other Defense-Basic Research	4,386
	CONTRACTOR TOTAL				75
	SCIENCE RESEARCH LABORATORY				9,644
					651

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AD91 (CONTINUED)					
	SCIENTIFIC ATLANTA INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	795
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Other Defense-Basic Research	245
	SEA TECH INC	Oregon	NAVY	RDTE/Other Defense-Basic Research	250
	SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	117
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Basic Research	299
	SIGNITION INCORPORATED	New Mexico	NAVY	RDTE/Other Defense-Basic Research	216
	SILICON ENERGY CORP	California	NAVY	RDTE/Other Defense-Basic Research	49
	SIPPICAN INC	Mass	NAVY	RDTE/Other Defense-Basic Research	778
	SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	1,029
	SOFTWARE TECHNOLOGY INC	Florida	NAVY	RDTE/Other Defense-Basic Research	300
	SOMATOGEN	Colorado	NAVY	RDTE/Other Defense-Basic Research	885
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Basic Research	367
	SONOGUEST ADVANCED	Mass	NAVY	RDTE/Other Defense-Basic Research	114
	SOUTH CAROLINA STATE OF	S Carolina	NAVY	RDTE/Other Defense-Basic Research	49,993
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Basic Research	515
		Ohio	USAF	RDTE/Other Defense-Basic Research	513
	CONTRACTOR TOTAL				1,028
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	26
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Defense-Basic Research	134
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Basic Research	440
	SPARTA INC	California	NAVY	RDTE/Other Defense-Basic Research	296
		USAF	NAVY	RDTE/Other Defense-Basic Research	49
	STATE TOTAL				345
	SPFOTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Basic Research	39

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research	49
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Basic Research	4,808
			USAF	RDTE/Other Defense-Basic Research	86
			STATE TOTAL		4,894
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Other Defense-Basic Research	37
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Basic Research	3,786
	STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research	145
	STEVENS INST OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	200
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	78
			NAVY	RDTE/Other Defense-Basic Research	607
			STATE TOTAL		685
	STRATEGIC RESEARCH & MGT SVS	Virginia	NAVY	RDTE/Other Defense-Basic Research	91
	SUMMATION RESEARCH INC	Florida	NAVY	RDTE/Other Defense-Basic Research	498
	SURFACE OPTICS CORP	California	USAF	RDTE/Other Defense-Basic Research	249
	SWALES & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	1,181
	SYNECTICS CORP	Virginia	ARMY	RDTE/Other Defense-Basic Research	200
	SYNTEK ENGRG COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Basic Research	32
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Basic Research	6,681
	SYSTEM TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	50
	SYSTEMS & ELECTRONICS INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	1,034
	SYSTEMS & TECHNOLOGY RESEARCH	Virginia	USAF	RDTE/Other Defense-Basic Research	470
	SYSTEMS ANALYSIS & INTEGRATION	California	NAVY	RDTE/Other Defense-Basic Research	128
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Defense-Basic Research	4,032
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Basic Research	1,171
	T S C INC	California	NAVY	RDTE/Other Defense-Basic Research	54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	T S I MASON RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research	125
	TAU CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	248
	TAYLOR S R	Oklahoma	ARMY	RDTE/Other Defense-Basic Research	50
	TECHNO SCIENCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	143
	TECHNOLOGY APPLICATIONS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	83
	TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Other Defense-Basic Research	506
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research	596
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Other Defense-Basic Research	132
	TETRA TECH DATA SYSTEMS INC	California	NAVY	RDTE/Other Defense-Basic Research	140
	TEXAS A & M RESEARCH FDN	Texas	NAVY	RDTE/Other Defense-Basic Research	29
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Other Defense-Basic Research	5,120
	THERMO ELCTRON TECHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Basic Research	1,656
			USAF	RDTE/Other Defense-Basic Research	130
					1,786
			STATE TOTAL		
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research	127
	THIOKOL CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	75
		Utah	NAVY	RDTE/Other Defense-Basic Research	95
					170
	CONTRACTOR TOTAL				
	THOMSON CSF INC	California	NAVY	RDTE/Other Defense-Basic Research	177
	TOYON RESEARCH CORP	California	USAF	RDTE/Other Defense-Basic Research	49
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Basic Research	30
	TRACOR INC	Texas	NAVY	RDTE/Other Defense-Basic Research	440
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Basic Research	150
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	90

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	TROY SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	93
	TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Basic Research	2,171
	TRW INC	California	NAVY	RDTE/Other Defense-Basic Research	3,011
		Ohio	USAF	RDTE/Other Defense-Basic Research	3,895
		Virginia	USAF	RDTE/Other Defense-Basic Research	9,064
	CONTRACTOR TOTAL				15,970
	TS INFOSYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	74
	TUSKEGEE UNIVERSITY	Alabama	NAVY	RDTE/Other Defense-Basic Research	222
	U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	30
	UNIFIED INDUSTRIES INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	170
	UNION CARBIDE CHEM & PLAS CO	Ohio	NAVY	RDTE/Other Defense-Basic Research	100
	UNION CORPORATION	Penn	ARMY	RDTE/Other Defense-Basic Research	1,631
	UNIQUE MOBILITY INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	50
	UNISYS CORPORATION	Penn	NAVY	RDTE/Other Defense-Basic Research	700
		Virginia	USAF	RDTE/Other Defense-Basic Research	9,026
	CONTRACTOR TOTAL				9,726
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Basic Research	455
		D.C.	NAVY	RDTE/Other Defense-Basic Research	1,248
		Florida	NAVY	RDTE/Other Defense-Basic Research	192
		Maryland	NAVY	RDTE/Other Defense-Basic Research	2,485
		Miss	NAVY	RDTE/Other Defense-Basic Research	170
		Virginia	NAVY	RDTE/Other Defense-Basic Research	70
		Washington	NAVY	RDTE/Other Defense-Basic Research	166
	CONTRACTOR TOTAL				4,786

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
A09. (CONTINUED)					
	UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Basic Research	406
		D.C.	NAVY	RDTE/Other Defense-Basic Research	95
		Illinois	NAVY	RDTE/Other Defense-Basic Research	206
		New Mexico	NAVY	RDTE/Other Defense-Basic Research	423
		Tennessee	NAVY	RDTE/Other Defense-Basic Research	457
	CONTRACTOR TOTAL				1,587
	UNITED STATES DEPT OF INTERIOR	California	NAVY	RDTE/Other Defense-Basic Research	36
		Maryland	NAVY	RDTE/Other Defense-Basic Research	31
		Virginia	NAVY	RDTE/Other Defense-Basic Research	249
	CONTRACTOR TOTAL				316
	UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Basic Research	26
		Conn	NAVY	RDTE/Other Defense-Basic Research	1,383
		Florida	NAVY	RDTE/Other Defense-Basic Research	249
	CONTRACTOR TOTAL				1,658
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	488 1,602
	STATE TOTAL				2,090
	UNIVERSITY NC AT CHAPEL HL	N Carolina	NAVY	RDTE/Other Defense-Basic Research	741
	UNIVERSITY OF AKRON	Ohio	NAVY	RDTE/Other Defense-Basic Research	61
	UNIVERSITY OF ALABAMA	Alabama	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	147 201
	STATE TOTAL				348
	UNIVERSITY OF ALASKA	Alaska	NAVY	RDTE/Other Defense-Basic Research	1,062
	UNIVERSITY OF ARIZONA	Arizona	NAVY	RDTE/Other Defense-Basic Research	368
	UNIVERSITY OF ARKANSAS	Arkansas	ARMY	RDTE/Other Defense-Basic Research	200
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Basic Research	8,623

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

	USAF	RDTE/Other Defense-Basic Research	\$
UNIVERSITY OF CENTRAL FLORIDA	STATE TOTAL		587
	Florida	ARMY NAVY	9,210
		RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	300 550
UNIVERSITY OF CHICAGO THE	STATE TOTAL		850
	Illinois	NAVY	288
UNIVERSITY OF CINCINNATI		USAF	35
UNIVERSITY OF COLORADO	Colorado	NAVY	298
UNIVERSITY OF CONNECTICUT	Conn	NAVY	67
UNIVERSITY OF DAYTON INC	Arizona	USAF	103
	Ohio	USAF	2,487
		RDTE/Other Defense-Basic Research	2,590
CONTRACTOR TOTAL			717
UNIVERSITY OF DENVER	Colorado	USAF	469
UNIVERSITY OF HAWAII	Hawaii	NAVY	76
UNIVERSITY OF ILLINOIS	Illinois	ARMY NAVY USAF	933 230
		RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,239
UNIVERSITY OF IOWA THE	Iowa	NAVY	105
UNIVERSITY OF KENTUCKY	Kentucky	NAVY	40
UNIVERSITY OF MARYLAND	Maryland	NAVY	2,996
UNIVERSITY OF MASSACHUSETTS	Mass	NAVY	745
UNIVERSITY OF MIAMI	Florida	NAVY	58
UNIVERSITY OF MICHIGAN	Michigan	NAVY	2,637
UNIVERSITY OF MINNESOTA	Minnesota	ARMY NAVY	149 155
		RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD91 (CONTINUED)

UNIVERSITY OF NEBRASKA	Nebraska	NAVY	RDTE/Other Defense-Basic Research	STATE TOTAL	\$ 304
UNIVERSITY OF NEW ORLEANS	Louisiana	NAVY	RDTE/Other Defense-Basic Research		76
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Other Defense-Basic Research		127
UNIVERSITY OF NOTRE DAME	Indiana	NAVY	RDTE/Other Defense-Basic Research		74
		USAF	RDTE/Other Defense-Basic Research		50
					48
					98
UNIVERSITY OF OKLAHOMA	Oklahoma	NAVY	RDTE/Other Defense-Basic Research		50
UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Other Defense-Basic Research		1,554
UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Other Defense-Basic Research		206
UNIVERSITY OF RHODE ISLAND	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research		148
UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Other Defense-Basic Research		326
UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Basic Research		33
UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Defense-Basic Research		6,321
		NAVY	RDTE/Other Defense-Basic Research		856
					7,177
UNIVERSITY OF TENNESSEE	Tennessee	NAVY	RDTE/Other Defense-Basic Research		91
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Defense-Basic Research		140
		NAVY	RDTE/Other Defense-Basic Research		346
					486
UNIVERSITY OF UTAH	Utah	NAVY	RDTE/Other Defense-Basic Research		800
		USAF	RDTE/Other Defense-Basic Research		28
					828
UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Other Defense-Basic Research		50
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Basic Research		2,783
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Other Defense-Basic Research		463

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION

AD91 (CONTINUED)

	USAF	RDTE/Other Defense-Basic Research	\$
STATE TOTAL			
UNIVERSITY RESEARCH FOUNDATION	NAVY	RDTE/Other Defense-Basic Research	102
UTAH BIORESEARCH INC	NAVY	RDTE/Other Defense-Basic Research	565
VANDERBILT UNIVERSITY THE	NAVY	RDTE/Other Defense-Basic Research	88
VECTOR RESEARCH INC	NAVY	RDTE/Other Defense-Basic Research	110
	NAVY	RDTE/Other Defense-Basic Research	2,837
	NAVY	RDTE/Other Defense-Basic Research	170
	USAF	RDTE/Other Defense-Basic Research	45
CONTRACTOR TOTAL			
VICTORIA INTERNATIONAL LTD	NAVY	RDTE/Other Defense-Basic Research	215
VISION APPLICATION INC	NAVY	RDTE/Other Defense-Basic Research	967
WAGNER DANIEL H ASSOCIATES	NAVY	RDTE/Other Defense-Basic Research	300
WESTINGHOUSE ELECTRIC CORP	ARMY	RDTE/Other Defense-Basic Research	55
	NAVY	RDTE/Other Defense-Basic Research	2,317
	NAVY	RDTE/Other Defense-Basic Research	1,500
STATE TOTAL			
	NAVY	RDTE/Other Defense-Basic Research	3,817
	NAVY	RDTE/Other Defense-Basic Research	382
CONTRACTOR TOTAL			
WOODS HOLE OCNRPIC INSTUTE	NAVY	RDTE/Other Defense-Basic Research	4,199
WRIGHT STATE UNIVERSITY	USAF	RDTE/Other Defense-Basic Research	2,518
XEROX CORP	NAVY	RDTE/Other Defense-Basic Research	481
	NAVY	RDTE/Other Defense-Basic Research	155
	NAVY	RDTE/Other Defense-Basic Research	59
CONTRACTOR TOTAL			
XONTECH INC	NAVY	RDTE/Other Defense-Basic Research	214
XYBION CORPORATION	NAVY	RDTE/Other Defense-Basic Research	435
YALE UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	164
	NAVY	RDTE/Other Defense-Basic Research	372
R&D TOTAL			452,764

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92	3 D INFORMATICS	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	50
	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	276
	A P A OPTICS INC	Minnesota	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	100 230
		STATE TOTAL			330
	A R CABLE SERVICES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	548
	ACTA INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	113
	ACTRAN SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	2,813
	ACUREX CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	200
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	37
	CONTRACTOR TOTAL				237
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Exploratory Development	49
	ADAPTIVE SOLUTIONS INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	98
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	312
	ADVANCED DECISION SYSTEMS	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 828
		STATE TOTAL			878
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	57
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	218
	ADVANCED MOTION CONTROLS INC	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	64
	ADVANCED PROJECTS RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	395
	ADVANCED RES & APPLICATIONS	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	468 77
		STATE TOTAL			545
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	250
	CONTRACTOR TOTAL				795
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	43

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ADVANCED SYSTEMS TECHNOLOGY	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	330
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	42
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	110 240
		STATE TOTAL			350
	AEROCON INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	563
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	312
	AEROJET	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	494 31-
		STATE TOTAL			463
	AEROSPATIALE	FRANCE	USAF	RDTE/Other Defense-Exploratory Development	100
	AEROTHERM CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	55
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	469
	CONTRACTOR TOTAL				524
	AEROVIRONMENT INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	47 50
		STATE TOTAL			97
	ALABAMA A & M UNIVERSITY	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	73 134
		STATE TOTAL			207
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	3,582
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	349
	CONTRACTOR TOTAL				3,931
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Other Defense-Exploratory Development	341
		Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,122 245

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL		\$	
ALLIED SIGNAL INC		Nevada	ARMY	RDTE/Other Defense-Exploratory Development	4,367
		Arizona	USAF	RDTE/Other Defense-Exploratory Development	544
		California	USAF	RDTE/Other Defense-Exploratory Development	5,252
		Illinois	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,639
					305
					100
					425
					525
					2,469
					50
					55
					28
					300
					50
					58
					220
					39
					105
					300
					405
					497
					277
					611
					826
					247

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	ANALYSIS & TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	49
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	296
		Miss	NAVY	RDTE/Other Defense-Exploratory Development	300
	CONTRACTOR TOTAL				592
	ANALYTIC SCIENCE CORP THE	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	892 135 405
	STATE TOTAL				540
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	486
	CONTRACTOR TOTAL				1,026
	ANALYTICAL SYSTEMS ENRG CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	179
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	740
	CONTRACTOR TOTAL				919
	ANALYTICS INCORPORATED	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	218
	CONTRACTOR TOTAL				418
	ANDERSEN ARTHUR & CO	Illinois	USAF	RDTE/Other Defense-Exploratory Development	943
	ANRO ENGINEERING INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	244
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Exploratory Development	224
	ANZA RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	APPLIED COMPUTING SYSTEMS INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	2,831
	APPLIED PULSED POWER	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	APPLIED RESEARCH ASSOC INC	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	49
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	227

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

	CONTRACTOR TOTAL				
	APPLIED RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	\$ 377
	APPLIED SCIENCES INC	Vermont	ARMY	RDTE/Other Defense-Exploratory Development	350
	APPLIED TECHNOLOGY LABORATORY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	411
	APPLIED THEORY INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,414
	APTECH ENGINEERING SERVICES	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	289
	APTEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	63
		California	ARMY	RDTE/Other Defense-Exploratory Development	64
		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	493
		California	ARMY	RDTE/Other Defense-Exploratory Development	53
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	100
	CONTRACTOR TOTAL				1,312
					1,412
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	691
	ARGO TECH CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development	166
	ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Exploratory Development	30
	ARPEDA CORPORATION	Kansas	ARMY	RDTE/Other Defense-Exploratory Development	48
	ASHTECH INC	California	NAVY	RDTE/Other Defense-Exploratory Development	60-
	ASPEN SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	ASPEX MICROSYSTEMS LIMITED	UNITED KIN	USAF	RDTE/Other Defense-Exploratory Development	218
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development	958 65
	STATE TOTAL				1,023
	ATLANTIC RESEARCH CORPORATION	Arkansas	ARMY	RDTE/Other Defense-Exploratory Development	91
		California	USAF	RDTE/Other Defense-Exploratory Development	204

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					

D.C.	NAVY	RDTE/Other Defense-Exploratory Development	\$	136
Maryland	ARMY	RDTE/Other Defense-Exploratory Development		90
New York	USAF	RDTE/Other Defense-Exploratory Development		327
Ohio	USAF	RDTE/Other Defense-Exploratory Development		100
Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,219
	USAF	RDTE/Other Defense-Exploratory Development		50
				1,269
				2,217
				1,093
				56
				445
				250
				2,360
				572
				1,500
				175
				1,232
				563
				1,795
				1,970
				250
				28
				1,146
				86
				300

STATE TOTAL

CONTRACTOR TOTAL

ATOCHEM	Penn	ARMY	RDTE/Other Defense-Exploratory Development		
ATOM SCIENCES INC	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development		
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		
AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Other Defense-Exploratory Development		
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		
AUTOMETRIC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		
AVANTEK INC	California	USAF	RDTE/Other Defense-Exploratory Development		
AVCO CORPORATION	Conn	USAF	RDTE/Other Defense-Exploratory Development		
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		
		USAF	RDTE/Other Defense-Exploratory Development		

STATE TOTAL

CONTRACTOR TOTAL

AVOGADRO ENERGY SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		
AVTEL FLIGHT SERVICES	California	NAVY	RDTE/Other Defense-Exploratory Development		
BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		
BAKER WILFRED ENGINEERING	Texas	NAVY	RDTE/Other Defense-Exploratory Development		
BALL CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	100 400 3,791 1,069
		STATE TOTAL			4,860
	BAYLESS JOHN R CO	California	ARMY	RDTE/Other Defense-Exploratory Development	120
	BDM INTERNATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	350
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	5,494
		Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	8,177 787
		STATE TOTAL			8,964
					14,808
	CONTRACTOR TOTAL				46
	BECHDON COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	485
	BECHTEL NATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	246
	BEI ELECTRONICS INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	BENCHMARK STRUCTURAL CERAMICS	New York	ARMY	RDTE/Other Defense-Exploratory Development	97
	BEND RESEARCH INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	1,012
	BERKELEY RESEARCH ASSOCIATES	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	71 1,083
		STATE TOTAL			1,977
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	3,060
	CONTRACTOR TOTAL				76
	BGI INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	125
	BLACK & DECKER CORPORATION	Virginia	USAF	RDTE/Other Defense-Exploratory Development	44
	BLACKBOARD TECHNOLOGY GROUP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	BLAZETECH CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development	78
	BOEING AEROSPACE & ELECTRONICS	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	5,741
		Washington	ARMY	RDTE/Other Defense-Exploratory Development	285
			USAF	RDTE/Other Defense-Exploratory Development	293
	STATE TOTAL				578
	CONTRACTOR TOTAL				6,319
	BOEING COMPANY THE	Washington	NAVY	RDTE/Other Defense-Exploratory Development	127
			USAF	RDTE/Other Defense-Exploratory Development	743
	STATE TOTAL				870
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	5,327
			NAVY	RDTE/Other Defense-Exploratory Development	2,138
			USAF	RDTE/Other Defense-Exploratory Development	461
	STATE TOTAL				7,926
	CONTRACTOR TOTAL	Virginia	USAF	RDTE/Other Defense-Exploratory Development	7,926
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,779
			USAF	RDTE/Other Defense-Exploratory Development	277
	STATE TOTAL				3,056
	CONTRACTOR TOTAL	Texas	USAF	RDTE/Other Defense-Exploratory Development	400
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	216
	STATE TOTAL				3,672
	BREWER SCIENCE INC	Missouri	USAF	RDTE/Other Defense-Exploratory Development	50
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	48
	BROADCOM INC	New York	USAF	RDTE/Other Defense-Exploratory Development	50
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	88
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	283

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	\$	1,248
BUCK A J & SON INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		33
C LEC PLASTICS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		93
C V C PRODUCTS INC DEL	New York	NAVY	RDTE/Other Defense-Exploratory Development		340
CAE INDUSTRIES LTD	Arizona	USAF	RDTE/Other Defense-Exploratory Development		1,951
CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Other Defense-Exploratory Development		90
CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development		2,777
	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		150
CONTRACTOR TOTAL					2,927
CALL RECALL	California	USAF	RDTE/Other Defense-Exploratory Development		525
CALSPAN CORPORATION	Alabama	USAF	RDTE/Other Defense-Exploratory Development		30
	California	USAF	RDTE/Other Defense-Exploratory Development		45
	Mass	USAF	RDTE/Other Defense-Exploratory Development		139
	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		56
	New York	ARMY	RDTE/Other Defense-Exploratory Development		1,000
		NAVY	RDTE/Other Defense-Exploratory Development		73
		USAF	RDTE/Other Defense-Exploratory Development		5,610
STATE TOTAL					6,683
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		5,191
	Texas	USAF	RDTE/Other Defense-Exploratory Development		1,414
	Virginia	USAF	RDTE/Other Defense-Exploratory Development		25
CONTRACTOR TOTAL					13,583
CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Other Defense-Exploratory Development		378
CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		262
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development		8,132

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

	USAF	RDTE/Other Defense-Exploratory Development	\$
STATE TOTAL			
CARPENTER RESEARCH CORP	California	RDTE/Other Defense-Exploratory Development	154
CARTWRIGHT ELECTRONICS INC	California	RDTE/Other Defense-Exploratory Development	379
CAS INC	Alabama	RDTE/Other Defense-Exploratory Development	11,133
CASCADE MICROTECH INC	Oregon	RDTE/Other Defense-Exploratory Development	96
CEMCOM RESEARCH ASSOCIATES	Maryland	RDTE/Other Defense-Exploratory Development	68-
CENTER FOR REMOTE SENSING	Virginia	RDTE/Other Defense-Exploratory Development	50
CENTURY COMPUTING INC	Maryland	RDTE/Other Defense-Exploratory Development	185
CERACON INC	California	RDTE/Other Defense-Exploratory Development	101
CHAN COMPUTER CORP	Mass	RDTE/Other Defense-Exploratory Development	139
CHARLES RIVER ANALYTICS INC	Mass	RDTE/Other Defense-Exploratory Development	99
CHARLES SYSTEMS CORP	Michigan	RDTE/Other Defense-Exploratory Development	429
	USAF	RDTE/Other Defense-Exploratory Development	50
STATE TOTAL			
CHI SYSTEMS INC	Penn	RDTE/Other Defense-Exploratory Development	479
CHIRP CORP	California	RDTE/Other Defense-Exploratory Development	55
	ARMY	RDTE/Other Defense-Exploratory Development	50
CIMFLEX TEKKNOWLEDGE CORP	California	RDTE/Other Defense-Exploratory Development	1,025
CLARKSON UNIVERSITY	New York	RDTE/Other Defense-Exploratory Development	100
CLEMSON UNIVERSITY	S Carolina	RDTE/Other Defense-Exploratory Development	125
COGENTEX INC	New York	RDTE/Other Defense-Exploratory Development	56
COGNITECH INC	California	RDTE/Other Defense-Exploratory Development	248
COGNITIVE SYSTEMS INC	Conn	RDTE/Other Defense-Exploratory Development	50
COHERENT TECHNOLOGIES INC	Colorado	RDTE/Other Defense-Exploratory Development	99
COLDING INTL CORP	Michigan	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)	COLE PARMER INSTRUMENT CO	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	27
	COLEMAN RESEARCH CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	100
	COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	100
			USAF	RDTE/Other Defense-Exploratory Development	370
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	470
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development	3,530
	COMAR INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	40
	COMMUNICATIONS SATELLITE CORP	D.C.	USAF	RDTE/Other Defense-Exploratory Development	294
	COMPACT SOFTWARE INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	73
	COMPLEX SYSTEMS RESEARCH INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	42
	COMPOUND ENGINE CONSULTANTS IN	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	55
	COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	235
	COMPUDRIVE CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	2,598
	COMPUTATIONAL MECHANICS CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	57
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	100
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	3,504
	CONTRACTOR TOTAL				58-
	COMSTRON CORPORATION	New York	NAVY	RDTE/Other Defense-Exploratory Development	3,446
	CONCEPT ENGINEERING	Washington	ARMY	RDTE/Other Defense-Exploratory Development	96
	CONCEPTS ETI INC	Vermont	NAVY	RDTE/Other Defense-Exploratory Development	266
	CONCURRENT COMPUTER CORP	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	478
	CONDOR SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	700
	CONDUCTUS INC	California	NAVY	RDTE/Other Defense-Exploratory Development	49
					100

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTROL DATA CANADA LTD	CANADA	NAVY	RDTE/Other Defense-Exploratory Development	41
	CONVEX COMPUTER CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	250
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	188
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Defense-Exploratory Development	3,675
			NAVY	RDTE/Other Defense-Exploratory Development	175
			USAF	RDTE/Other Defense-Exploratory Development	91
			STATE TOTAL		3,941
	CORNING INC	New York	USAF	RDTE/Other Defense-Exploratory Development	377
	CREARE INC	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	117
			USAF	RDTE/Other Defense-Exploratory Development	100
			STATE TOTAL		217
	CRYSTAL ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
	CRYSTALLUME	California	ARMY	RDTE/Other Defense-Exploratory Development	63
			NAVY	RDTE/Other Defense-Exploratory Development	267
			STATE TOTAL		330
	CSA ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	784
	CTA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Exploratory Development	30
	CUSTOM ANALYTICAL ENGRG SYSTEMS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50
	CYBER OPTICS CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	49
	DAEDALUS RESEARCH INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	404
	DAMASKOS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	132
	DATAKEY INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	65
	DAVID SARNOFF RESEARCH CENTER	California	USAF	RDTE/Other Defense-Exploratory Development	727
		New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	5,165
			NAVY	RDTE/Other Defense-Exploratory Development	223
			STATE TOTAL		5,388

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AD92 (CONTINUED)	CONTRACTOR TOTAL				
	DAVIDSON ELEC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	6,115
	DAWN TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	33
	DAY & ZIMMERMANN INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	DAYCHEM LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	168
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	175
			USAF	RDTE/Other Defense-Exploratory Development	324
				RDTE/Other Defense-Exploratory Development	130
	STATE TOTAL				454
	DEFENSE GROUP INC	California	ARMY	RDTE/Other Defense-Exploratory Development	200
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	55
	DELFIN SYSTEMS	California	USAF	RDTE/Other Defense-Exploratory Development	212
	DELTA G CORPORATION MN	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	DFM ENGINEERING INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	46
	DGI INDUSTRIES INC	Oregon	NAVY	RDTE/Other Defense-Exploratory Development	1,240
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	190-
	CONTRACTOR TOTAL				1,050
	DIEHL GMBH & CO	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	645
	DIGITAL EQUIPMENT CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	436
	DIGITAL SIGNAL CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	53
			NAVY	RDTE/Other Defense-Exploratory Development	690
	STATE TOTAL				743
	DIMENSION TECHNOLOGIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development	120
	DIRECTED TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	70
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	258
	DISTRICT COLUMBIA GOVERNMENT	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	44
	DOUGLAS AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Exploratory Development	170

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Exploratory Development	\$	468
DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		860 721
	STATE TOTAL				1,581
DRESSER RAND COMPANY	New York	NAVY	RDTE/Other Defense-Exploratory Development		171
DU PONT E I DE NEMOURS & CO	Delaware	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		4,916 900
	STATE TOTAL				5,816
DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development		127
DYNA EAST CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development		49
DYNAFLOW INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		146
DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		60
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Exploratory Development		147
DYNACORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development		149
DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		7,278
E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		23
	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		98
					121
	CONTRACTOR TOTAL				309
E I C LABORATORY INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		100
E OIR MEASUREMENTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development		2,753
E SYSTEMS INC	Texas	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		200 350
	STATE TOTAL				3,303
E TEK DYNAMICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		144
EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development		77

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	EAGLE SYSTEMS INC	Colorado	USAF	RDTE/Other Defense-Exploratory Development	731
	EAGLE TECHNOLOGY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	808
	EAI CORPORATION	Florida	USAF	RDTE/Other Defense-Exploratory Development	1,184
	EASTERN COMPUTERS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	112
	EASTMAN KODAK COMPANY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	5,308
		New York	ARMY	RDTE/Other Defense-Exploratory Development	1,506
			USAF	RDTE/Other Defense-Exploratory Development	523
		STATE TOTAL			264
					787
	EATON CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	107
			NAVY	RDTE/Other Defense-Exploratory Development	150
			USAF	RDTE/Other Defense-Exploratory Development	47
		STATE TOTAL			304
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,782
	EG&G INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	600
	EG&G SEALOL INC	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	350
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	99
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				149
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	48
	ELECTROCHEM INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	56
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	1,755
	ELECTRONIC COMPONENT SALES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	85
			NAVY	RDTE/Other Defense-Exploratory Development	44
		STATE TOTAL			129
	ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	191

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

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

	USAF	RDTE/Other Defense-Exploratory Development	\$
STATE TOTAL			
ELTRON RESEARCH INCORPORATED	ARMY	RDTE/Other Defense-Exploratory Development	5,500
EMC SCIENCE CTR INC	NAVY	RDTE/Other Defense-Exploratory Development	5,691
EMCORE CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development	50
ENERGY COMPRESSION RES CORP	ARMY	RDTE/Other Defense-Exploratory Development	1,706
ENERGY CONVERSION DEVICES INC	ARMY	RDTE/Other Defense-Exploratory Development	50
ENGINEERING & ECONOMICS RES	ARMY	RDTE/Other Defense-Exploratory Development	332
	ARMY	RDTE/Other Defense-Exploratory Development	375
	ARMY	RDTE/Other Defense-Exploratory Development	145
	ARMY	RDTE/Other Defense-Exploratory Development	4,596
	ARMY	RDTE/Other Defense-Exploratory Development	4,741
	ARMY	RDTE/Other Defense-Exploratory Development	2,656
CONTRACTOR TOTAL			
ENGINEERING TECHNOLOGIES INC	ARMY	RDTE/Other Defense-Exploratory Development	228
ENGINEERING TECHNOLOGY INC	ARMY	RDTE/Other Defense-Exploratory Development	2,909
ENSCO INC	NAVY	RDTE/Other Defense-Exploratory Development	444
	USAF	RDTE/Other Defense-Exploratory Development	56
	STATE TOTAL		3,409
ENSIGN BICKFORD AEROSPACE CO	ARMY	RDTE/Other Defense-Exploratory Development	150
ENTERPRISE INTEGRATION TECHNOL	ARMY	RDTE/Other Defense-Exploratory Development	97
ENTROPIC RESEARCH LABORATORY I	ARMY	RDTE/Other Defense-Exploratory Development	300
ENVIRNMENTAL RES INST OF MICH	ARMY	RDTE/Other Defense-Exploratory Development	3,595
	NAVY	RDTE/Other Defense-Exploratory Development	176
	USAF	RDTE/Other Defense-Exploratory Development	702
	STATE TOTAL		4,473
ENVIRONMENTAL DIAGNOSTICS	NAVY	RDTE/Other Defense-Exploratory Development	60
ENVIRONMENTAL TECHNOLOGIES GRP	ARMY	RDTE/Other Defense-Exploratory Development	3,166
EPSILON LAMBDA ELECTRONICS	ARMY	RDTE/Other Defense-Exploratory Development	249

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	EQUIMAX COMMUNICATIONS CORP	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	57
	ERNAT MACH INSTITUTE	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	200
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	722
	EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	245
	FALCON ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	3,394
	FIBERTEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	3,288-
	FILTRONIC COMPONENTS	UNITED KIN	NAVY	RDTE/Other Defense-Exploratory Development	80
	FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Other Defense-Exploratory Development	96
	FLORIDA INTERNATIONAL UNIV	Florida	ARMY	RDTE/Other Defense-Exploratory Development	73
	FLOUROCHEM INC	California	ARMY	RDTE/Other Defense-Exploratory Development	116
	FLUIDYNE ENGINEERING CORP	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	55
	FMC CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	498
			USAF	RDTE/Other Defense-Exploratory Development	114
					612
					7,016
					7,628
	CONTRACTOR TOTAL				
	FORE SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	250
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	2,915
	FRANZ INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	FREDERICK MANUFACTURING CO	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	195
	FUENTEZ SYSTEMS CONCEPTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	198
	FUTURES GROUP INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	59
	GARJAK RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,262
	GATEWAY MODELING INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	\$
AD92 (CONTINUED)					
	GELTECH INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	50
	GEMINI INDUSTRIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development	827
	GENERAL ATOMICS	California	ARMY	RDTE/Other Defense-Exploratory Development	68
			USAF	RDTE/Other Defense-Exploratory Development	50
	STATE TOTAL				118
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	25,829
			NAVY	RDTE/Other Defense-Exploratory Development	28
			USAF	RDTE/Other Defense-Exploratory Development	605
		STATE TOTAL			26,462
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	2,020
			ARMY	RDTE/Other Defense-Exploratory Development	2,752
			ARMY	RDTE/Other Defense-Exploratory Development	700
			USAF	RDTE/Other Defense-Exploratory Development	454-
	STATE TOTAL				246
	CONTRACTOR TOTAL				31,480
	GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other Defense-Exploratory Development	3,971
			USAF	RDTE/Other Defense-Exploratory Development	350
			ARMY	RDTE/Other Defense-Exploratory Development	2,253
			NAVY	RDTE/Other Defense-Exploratory Development	65
	STATE TOTAL				2,318
		New York	ARMY	RDTE/Other Defense-Exploratory Development	310
			NAVY	RDTE/Other Defense-Exploratory Development	543
			USAF	RDTE/Other Defense-Exploratory Development	2,289
		STATE TOTAL			3,142
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	40,761
			USAF	RDTE/Other Defense-Exploratory Development	6,498
			STATE TOTAL		47,259
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	965

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

CONTRACTOR TOTAL	Vermont	ARMY	RDTE/Other Defense-Exploratory Development	\$	928
GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Exploratory Development		58,933
GENERAL INDICATOR CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		99
GENERAL MGT ASSOCIATES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		273
GENERAL MOTORS CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		1,119
	Conn	ARMY	RDTE/Other Defense-Exploratory Development		50
	Indiana	ARMY	RDTE/Other Defense-Exploratory Development		238
		NAVY	RDTE/Other Defense-Exploratory Development		445
		USAF	RDTE/Other Defense-Exploratory Development		1,234
			RDTE/Other Defense-Exploratory Development		1,389
STATE TOTAL					3,068
					3,356
CONTRACTOR TOTAL	California	USAF	RDTE/Other Defense-Exploratory Development		939
GENERAL RESEARCH CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development		486
GENERAL SCIENCES INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		50
GENISYS RESEARCH & DEVELOPMENT		USAF	RDTE/Other Defense-Exploratory Development		50
					100
STATE TOTAL					1,834
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		466
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		2,300
CONTRACTOR TOTAL	Georgia	NAVY	RDTE/Other Defense-Exploratory Development		100
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		3,724
GEORGIA TECH RESEARCH CORP		USAF	RDTE/Other Defense-Exploratory Development		3,858
					7,582
STATE TOTAL					1,115
GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		50
GMA INDUSTRIES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

GOODRICH B F COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development	\$	50
GORHAM ADVANCED MATERIALS INST	Maine	ARMY	RDTE/Other Defense-Exploratory Development		50
GRADIENT LENS CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development		222
GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development		195
GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development		96
		USAF	RDTE/Other Defense-Exploratory Development		197
	STATE TOTAL				293
GTE CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development		296
GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		294
HARRIS CORPORATION	Florida	NAVY	RDTE/Other Defense-Exploratory Development		225
		USAF	RDTE/Other Defense-Exploratory Development		4,230
	STATE TOTAL				4,455
CONTRACTOR TOTAL	New York	USAF	RDTE/Other Defense-Exploratory Development		170
					4,625
HARSCO CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development		292
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Defense-Exploratory Development		140
HAZELTINE CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development		53
HCC SCIENCE & TECHNOLOGY CO	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		132
HERBERT J CORP	Florida	NAVY	RDTE/Other Defense-Exploratory Development		25
HERCULES INCORPORATED	Utah	ARMY	RDTE/Other Defense-Exploratory Development		80
	W Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,190
CONTRACTOR TOTAL					1,270
HIBBITT KARLSSON & SORENSEN	Rhode Isld	ARMY	RDTE/Other Defense-Exploratory Development		27
HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		2,266
HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development		175

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

	USAF	RDTE/Other Defense-Exploratory Development	\$
STATE TOTAL			
HNC INC	California	RDTE/Other Defense-Exploratory Development	52
			227
HONEYWELL INC	Arizona	RDTE/Other Defense-Exploratory Development	50
	Minnesota	RDTE/Other Defense-Exploratory Development	791-
	NAVY	RDTE/Other Defense-Exploratory Development	1,344
	USAF	RDTE/Other Defense-Exploratory Development	830
			3,155
STATE TOTAL			
			5,329
			4,538
CONTRACTOR TOTAL			
HORIZONS TECHNOLOGY INC	California	RDTE/Other Defense-Exploratory Development	3,472
HOUSTON AREA RESEARCH CENTER	Texas	RDTE/Other Defense-Exploratory Development	597
HOWARD UNIVERSITY	D.C.	RDTE/Other Defense-Exploratory Development	141
HRB SYSTEMS INC	Penn	RDTE/Other Defense-Exploratory Development	225
	USAF	RDTE/Other Defense-Exploratory Development	84
STATE TOTAL			
			309
HUGHES AIRCRAFT COMPANY	Arizona	RDTE/Other Defense-Exploratory Development	75,247
	California	RDTE/Other Defense-Exploratory Development	17,520
	USAF	RDTE/Other Defense-Exploratory Development	2,838
STATE TOTAL			
			20,358
			95,605
CONTRACTOR TOTAL			
HUMAN RSRCS RES ORGANIZATION	Virginia	RDTE/Other Defense-Exploratory Development	282
HUTCHINSON F CANCER RESEARCH	Washington	RDTE/Other Defense-Exploratory Development	34-
HY TECH RESEARCH CORP	Virginia	RDTE/Other Defense-Exploratory Development	440
HYDRO PRODUCTS INC	Virginia	RDTE/Other Defense-Exploratory Development	2,222
I A P RESEARCH INC	Ohio	RDTE/Other Defense-Exploratory Development	530
I I T RESEARCH INSTITUTE	Illinois	RDTE/Other Defense-Exploratory Development	40

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

I KINETICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$	62
IBIS TECHNOLOGY CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
ICUCOM CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development		50
IGR ENTERPRISES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		201
II VI INCORPORATED	Penn	ARMY	RDTE/Other Defense-Exploratory Development		47
ILLINOIS INST OF TECHNOLOGY	Illinois	USAF	RDTE/Other Defense-Exploratory Development		50
IMPERIAL ELECTRIC COMPANY THE	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		39
IN MARC INC	N Dakota	ARMY	RDTE/Other Defense-Exploratory Development		49
INCREMENTAL SYSTEMS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development		82
INERTIAL MOTORS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development		48
INFORMATION SCIENCE INC	California	ARMY	RDTE/Other Defense-Exploratory Development		100
INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		246
INFOSYSTEMS TECHNOLOGY INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development		693
INSIGHT & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		117
INSTITUTE FOREIGN PLCY ANALYS	Mass	ARMY	RDTE/Other Defense-Exploratory Development		230
INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Exploratory Development		182
INTEGRADED DEFENSE CONCEPTS	Illinois	NAVY	RDTE/Other Defense-Exploratory Development		46
INTEGRATED SYSTEM ASSEMBLIES	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
INTEL CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development		13,271
INTELLIGENT AUTOMATION INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		56
INTELLIGENT MACHINE TECH CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development		50
INTERGRAPH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		29
INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		324
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		326

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	INTERNATIONAL BUS MCHS CORP				
		New York	USAF	RDTE/Other Defense-Exploratory Development	650
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	51
			USAF	RDTE/Other Defense-Exploratory Development	450
					4,559
	STATE TOTAL				5,009
					5,060
	CONTRACTOR TOTAL				
	INTERNATIONAL MICRO INDUSTS				
		New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
		Texas	USAF	RDTE/Other Defense-Exploratory Development	1,404
		New York	ARMY	RDTE/Other Defense-Exploratory Development	99
		California	NAVY	RDTE/Other Defense-Exploratory Development	453
		California	USAF	RDTE/Other Defense-Exploratory Development	80
		New York	ARMY	RDTE/Other Defense-Exploratory Development	50
		California	USAF	RDTE/Other Defense-Exploratory Development	298
		Indiana	USAF	RDTE/Other Defense-Exploratory Development	52
		New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	48
			USAF	RDTE/Other Defense-Exploratory Development	365
	STATE TOTAL				413
					500
	CONTRACTOR TOTAL				
	ITT GILFILLAN				
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,263
		California	USAF	RDTE/Other Defense-Exploratory Development	275
		California	NAVY	RDTE/Other Defense-Exploratory Development	72
		California	ARMY	RDTE/Other Defense-Exploratory Development	685
		California	ARMY	RDTE/Other Defense-Exploratory Development	17,498
			NAVY	RDTE/Other Defense-Exploratory Development	80
			USAF	RDTE/Other Defense-Exploratory Development	35
	STATE TOTAL				17,613

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	JOHNS HOPKINS UNIVERSITY				
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	149
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,455
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	4,138
					23,355
		Maryland	NAVY	RDTE/Other Defense-Exploratory Development	305
			USAF	RDTE/Other Defense-Exploratory Development	50
					355
				STATE TOTAL	539
	JOHNSON CONTROLS INC	Nevada	ARMY	RDTE/Other Defense-Exploratory Development	51
	K C RESEARCH	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	4,209
	KAMAN SCIENCES CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	13,543
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	250
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	3,528
		New York	USAF	RDTE/Other Defense-Exploratory Development	21,530
	CONTRACTOR TOTAL				605
	KARAGOZIAN & CASE	California	ARMY	RDTE/Other Defense-Exploratory Development	125
	KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Exploratory Development	58
	KNIGHTRONIX INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	134
	KNOWLEDGE BASED SYSTEM	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	KNOWLEDGE SYSTEMS CONCEPTS	New York	ARMY	RDTE/Other Defense-Exploratory Development	37
			USAF	RDTE/Other Defense-Exploratory Development	87
				STATE TOTAL	50
	KONSAL RESEARCH ASSOCIATES	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	541
	KOPIN CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development	3,737
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	50
	KTECH CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,424
	L N K CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	LAB ANIMALS BREEDERS & SVCS IN	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	\$ 304
	LACHEL PIEPENBURG & ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	796
	LAMBDA PHYSIK INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	94
	LANXIDE CORP	Delaware	NAVY	RDTE/Other Defense-Exploratory Development	835
	LASER POWER CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	296
			USAF	RDTE/Other Defense-Exploratory Development	230
		STATE TOTAL			526
	LEAR ASTRONICS CORP	California	USAF	RDTE/Other Defense-Exploratory Development	92
	LECROY CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	74
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	79
	LEWIS BROTHERS STAGES INC	Utah	USAF	RDTE/Other Defense-Exploratory Development	1,567
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Other Defense-Exploratory Development	500
	LINGUISTIC RESEARCH INSTITUTE	Colorado	USAF	RDTE/Other Defense-Exploratory Development	103
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	97
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	500
	LITTON SYSTEMS INC	California	USAF	RDTE/Other Defense-Exploratory Development	156
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	143
			USAF	RDTE/Other Defense-Exploratory Development	50
		STATE TOTAL			193
		Mass	USAF	RDTE/Other Defense-Exploratory Development	95
		New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	150
	CONTRACTOR TOTAL				594
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Other Defense-Exploratory Development	220
	LOCKHEED CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	986
		Georgia	USAF	RDTE/Other Defense-Exploratory Development	27

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AD92 (CONTINUED)

	CONTRACTOR TOTAL				\$	
LOCKHEED MISSILES & SPACE CO						
		N.H.	USAF	RDTE/Other Defense-Exploratory Development		1,115
						2,128
		California	ARMY	RDTE/Other Defense-Exploratory Development		5,751
			NAVY	RDTE/Other Defense-Exploratory Development		124
			USAF	RDTE/Other Defense-Exploratory Development		537
	STATE TOTAL					6,412
		Nevada	ARMY	RDTE/Other Defense-Exploratory Development		9,128
	CONTRACTOR TOTAL					15,540
LOCKHEED SANDERS INC		N.H.	NAVY	RDTE/Other Defense-Exploratory Development		1,663
			USAF	RDTE/Other Defense-Exploratory Development		496
	STATE TOTAL					2,159
LOCUS INC		D.C.	NAVY	RDTE/Other Defense-Exploratory Development		133
		Penn	NAVY	RDTE/Other Defense-Exploratory Development		10,320
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development		406
	CONTRACTOR TOTAL					10,859
LOGICON INC		California	ARMY	RDTE/Other Defense-Exploratory Development		4,752
			USAF	RDTE/Other Defense-Exploratory Development		178
	STATE TOTAL					4,930
		Ohio	USAF	RDTE/Other Defense-Exploratory Development		3,759
	CONTRACTOR TOTAL					8,689
LOGICS INC		Penn	ARMY	RDTE/Other Defense-Exploratory Development		405
LORAL CORPORATION		Arizona	ARMY	RDTE/Other Defense-Exploratory Development		78
		California	ARMY	RDTE/Other Defense-Exploratory Development		1,978
			NAVY	RDTE/Other Defense-Exploratory Development		15,621
			USAF	RDTE/Other Defense-Exploratory Development		508
	STATE TOTAL					18,107
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development		375

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	18,560 428,908 453
			STATE TOTAL		429,361
	LTV CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	78
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	48
	M S P CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	83
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	944
	M/A COM INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	482
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	177
	MACH I INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	100
	MAGNASCREEN CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development	1,721
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	ARMY	RDTE/Other Defense-Exploratory Development	481
	MAK TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	51
	MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	47
	MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	155
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	102
	MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	3,268
	MARK RESOURCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	740
	MARKO MATERIALS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	246
	MARTIN MARIETTA CORPORATION	Colorado	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,790 258
			STATE TOTAL		2,048
		Florida	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	15,292 340

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

CONTRACTOR TOTAL					STATE TOTAL	\$	15,632	
MARYLAND TECHNOLOGY					Maryland	USAF	RDTE/Other Defense-Exploratory Development	305
MASSACHSTTS INST OF TECHNOLOGY					Maryland	USAF	RDTE/Other Defense-Exploratory Development	17,985
					Mass	ARMY	RDTE/Other Defense-Exploratory Development	31
						NAVY	RDTE/Other Defense-Exploratory Development	5,930
						USAF	RDTE/Other Defense-Exploratory Development	301
							RDTE/Other Defense-Exploratory Development	1,648
STATE TOTAL								7,879
MAXWELL LABORATORIES INC					California	ARMY	RDTE/Other Defense-Exploratory Development	30,588
						USAF	RDTE/Other Defense-Exploratory Development	55
STATE TOTAL								30,643
MC DANIEL JOHN L ENTERPRISES					Alabama	ARMY	RDTE/Other Defense-Exploratory Development	245
MCDONNELL AIRCRAFT COMPANY					California	ARMY	RDTE/Other Defense-Exploratory Development	1,927
MCDONNELL DOUGLAS CORPORATION					Missouri	ARMY	RDTE/Other Defense-Exploratory Development	2,630
						USAF	RDTE/Other Defense-Exploratory Development	2,951
STATE TOTAL								5,581
CONTRACTOR TOTAL					Texas	USAF	RDTE/Other Defense-Exploratory Development	291
MCDONNELL DOUGLAS MSL SYS CO								5,872
MCDONNELL DOUGLAS SPACE SYS CO					Missouri	USAF	RDTE/Other Defense-Exploratory Development	90
					California	ARMY	RDTE/Other Defense-Exploratory Development	910
						USAF	RDTE/Other Defense-Exploratory Development	50
STATE TOTAL								960
MECHANICAL TECHNOLOGY INC					Florida	ARMY	RDTE/Other Defense-Exploratory Development	308-
MEDICAL LASER RESEARCH & DEVEL					New York	USAF	RDTE/Other Defense-Exploratory Development	652
					Mass	ARMY	RDTE/Other Defense-Exploratory Development	38
								76

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	MEDOX ELECTRO OPTICS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	50
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	140
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,753
	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	57
	MERIX CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	247
	MERRIFIELD LABORATORIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	83
	MESA INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	380
	METATECH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,372
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	713
	METRATEK INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	48
	METRICOR	Washington	NAVY	RDTE/Other Defense-Exploratory Development	30
	METRON INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	405
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	193
	CONTRACTOR TOTAL				598
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Exploratory Development	2,620
	MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	250
	MICROELECTRONICS	Texas	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	616 95
	STATE TOTAL				711
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	MICROWAVE ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	150
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	126
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	755
	MINNESOTA MINING & MFG CO	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	24,375

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DEPARTMENT OF DEFENSE

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92	(CONTINUED)				
	MIRAGE SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	336
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	9,508
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	654
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	462
					10,624
	CONTRACTOR TOTAL				
	MODELL DEVELOPMENT CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	242
	MOLECULAR TECH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	51
	MOLTECH CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	49
	MOLZEN CORBIN & ASSOCIATES PA	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	607
	MORGAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	95
	MORLOCK ENVIRONMENTAL	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	47
	MSNW INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	364 40
		STATE TOTAL			404
	MULTISPEC CORPORATION	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	49
	NANOSTRUCTURES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	477
	NATIONAL SEC PLG ASSOC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	649
	NETWORK SOLUTIONS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	577
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Defense-Exploratory Development	35
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	3,759
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development	50
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	10,830 148
		STATE TOTAL			10,978

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	NON LINEAR TECHNOLOGY INC	Michigan	USAF	RDTE/Other Defense-Exploratory Development	100
					11,078
	NORDEN SYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50
		Conn	USAF	RDTE/Other Defense-Exploratory Development	250
	NORTH AMERICAN GEOTECHNICAL CO	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	NORTH CAROLINA A&T UNIV	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	50
			USAF	RDTE/Other Defense-Exploratory Development	188
	STATE TOTAL				238
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	350
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	1,438
		Illinois	USAF	RDTE/Other Defense-Exploratory Development	1,253
	CONTRACTOR TOTAL				2,691
	NORTON CO DIAMOND FILMS DIV	Mass	NAVY	RDTE/Other Defense-Exploratory Development	273
	NUMERICAL TECHNOLOGY INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	59
	ODYSSEY CONTRACTING COMPANY	New York	USAF	RDTE/Other Defense-Exploratory Development	669
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Exploratory Development	538
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	149
	OHIO STATE UNIVERSITY RESEARCH	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	25
	OME TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	OMNIA RESEARCH CORP	California	USAF	RDTE/Other Defense-Exploratory Development	50
	OMNITEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	39
	ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	77
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	464
	OPHIR CORP	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	48
	OPTICAL IMAGING SYSTEMS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	750

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	51
OPTICOMP CORPORATION	Nevada	USAF	RDTE/Other Defense-Exploratory Development		75
OPTO ELECTRIC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		48
OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		286
ORBITAL SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		14,052
ORINCON CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		49
ORTEL CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		50
OWENS CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Other Defense-Exploratory Development		600
OWOHALI INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		85
PACER SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		183
	Penn	NAVY	RDTE/Other Defense-Exploratory Development		1,011
CONTRACTOR TOTAL					1,194
PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		3,707
	NAVY		RDTE/Other Defense-Exploratory Development		900
STATE TOTAL					4,607
PALISADES INST FOR RES SVCS	New York	USAF	RDTE/Other Defense-Exploratory Development		340
PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development		36
		USAF	RDTE/Other Defense-Exploratory Development		2,099
STATE TOTAL					2,135
PARA FLITE INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		7,976
PARACOM	Illinois	NAVY	RDTE/Other Defense-Exploratory Development		70
PARK SCIENTIFIC INSTRUMENTS	California	ARMY	RDTE/Other Defense-Exploratory Development		50
PDA ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development		566
PEDERSEN RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		79
PEN RESEARCH INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		47

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDTE/Other Defense-Exploratory Development	\$	55
PERCEPTRONICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		36
PERKIN ELMER CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		84
PHOTOGLASS	Illinois	USAF	RDTE/Other Defense-Exploratory Development		49
PHOTON TECHNOLOGY INTERNATIONAL	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		72
PHOTONICS RESEARCH INC	Colorado	USAF	RDTE/Other Defense-Exploratory Development		50
PHOTONICS SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		91
	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		1,847
CONTRACTOR TOTAL					1,938
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		205
		NAVY	RDTE/Other Defense-Exploratory Development		40
		USAF	RDTE/Other Defense-Exploratory Development		243
STATE TOTAL					488
PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		1,766
PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		191
		NAVY	RDTE/Other Defense-Exploratory Development		175
STATE TOTAL					366
PHYSICON INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		498
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		10,613
		NAVY	RDTE/Other Defense-Exploratory Development		110
STATE TOTAL					10,723
PIERCE JOHN B FOUNDATION LAB	Conn	USAF	RDTE/Other Defense-Exploratory Development		550
PINNACLE RESEARCH INSTITUTE	California	ARMY	RDTE/Other Defense-Exploratory Development		1,100
PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development		249
PLANNING SYSTEMS INCORPORATED	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		347
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		1,078

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
	AD92 (CONTINUED)				
	CONTRACTOR TOTAL				\$ 1,425
	POLYMICRO TECHNOLOGIES INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	49
	POLYTECHNIC UNIV OF NEW YORK	New York	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	175 25
		STATE TOTAL			200
	POLYTRONIX INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	192
	POTOMAC PHOTONICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	93
	PRC INC	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,236 702
		STATE TOTAL			2,938
	PRINCETON INSTRUMENTS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	86
	PRINCETON RESOURCES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	49
	PRISMROID OPTICAL CO	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	384
	PROCESSING RESEARCH INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	50
	PROMETHEUS INC	Rhode Isl	ARMY	RDTE/Other Defense-Exploratory Development	328
	PULSE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	100
	PYMATUNING GROUP INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	198
	Q DOT INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	50
	QUAD DESIGN TECH INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	124 90
		STATE TOTAL			214
	QUALCOMM INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,560
	QUANTEL INTERNATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	64
	QUANTEX CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	248
	QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

QUANTUM MAGNETICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	56
QUEST SYSTEMS INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development		72
QUESTTECH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		370
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		2,222
					2,592
R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		13,219
	NAVY	RDTE/Other Defense-Exploratory Development			756
	STATE TOTAL				13,975
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		250
	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development		1,729
					15,954
R G B ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
RACAL COMMUNICATIONS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		130
RADIX SYSTEMS INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development		189
RADIX TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Exploratory Development		47
RAPIDAN RESEARCH CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		50
RAYTHEON COMPANY	California	NAVY	RDTE/Other Defense-Exploratory Development		2,840
	Maryland	USAF	RDTE/Other Defense-Exploratory Development		88
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		5,355
	NAVY	RDTE/Other Defense-Exploratory Development			240
	USAF	RDTE/Other Defense-Exploratory Development			3,109
	STATE TOTAL				8,704
	EGYPT	ARMY	RDTE/Other Defense-Exploratory Development		1,811
	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development		34
	TAIWAN	ARMY	RDTE/Other Defense-Exploratory Development		47

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

CONTRACTOR TOTAL					\$	13,524
RAYTHEON SERVICE COMPANY	Mass	ARMY	RDTE/Other	Defense-Exploratory Development		3,818
	New Mexico	ARMY	RDTE/Other	Defense-Exploratory Development		3,300
	Ohio	USAF	RDTE/Other	Defense-Exploratory Development		360
CONTRACTOR TOTAL						7,478
RECOGNITION TECHNOLOGY INC	Mass	ARMY	RDTE/Other	Defense-Exploratory Development		50
RECON OPTICAL INC	Illinois	ARMY	RDTE/Other	Defense-Exploratory Development		41
RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other	Defense-Exploratory Development		240
		NAVY	RDTE/Other	Defense-Exploratory Development		27
		USAF	RDTE/Other	Defense-Exploratory Development		119
STATE TOTAL						386
RESEARCH PLANNING INC	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development		424
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other	Defense-Exploratory Development		273
		NAVY	RDTE/Other	Defense-Exploratory Development		196
		USAF	RDTE/Other	Defense-Exploratory Development		125
STATE TOTAL						594
RESSLER ASSOCIATES INC	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development		49
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other	Defense-Exploratory Development		149
		NAVY	RDTE/Other	Defense-Exploratory Development		40
STATE TOTAL						189
ROBOTIC SYSTEMS	Maryland	USAF	RDTE/Other	Defense-Exploratory Development		250
ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other	Defense-Exploratory Development		250
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other	Defense-Exploratory Development		555
		USAF	RDTE/Other	Defense-Exploratory Development		1,556
STATE TOTAL						2,111
	Georgia	ARMY	RDTE/Other	Defense-Exploratory Development		4,007
	Texas	NAVY	RDTE/Other	Defense-Exploratory Development		376

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	CONTRACTOR TOTAL				
	ROHR INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	6,494
	RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	250
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	34
	RUPPRECHT & PATASHNICK CO INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	1,194
	RUST COLLEGE	Miss	USAF	RDTE/Other Defense-Exploratory Development	131
	RUTGERS THE STATE UNIVERSITY	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	50
	S C S TELECOM INC	New York	USAF	RDTE/Other Defense-Exploratory Development	40
	S F A INC	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	268
		Maryland	NAVY	RDTE/Other Defense-Exploratory Development	1,648
	STATE TOTAL				92
					3,849
					3,941
					1,173
					6,762
	CONTRACTOR TOTAL				
	S S G INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	220
	SAPHIKON INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	SARCOS INC	N.H.	USAF	RDTE/Other Defense-Exploratory Development	98
	SCHAFFER W J ASSOCIATES INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	125
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	STATE TOTAL				175
					50
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	98
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	225
	STATE TOTAL				323
	CONTRACTOR TOTAL				373

AD92 (CONTINUED)

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

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
	SCI TECH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	\$ 68
	SCIENCE & ENGINEERING ASSOC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	53
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	721
	CONTRACTOR TOTAL				774
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	232
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	896 285
		STATE TOTAL			1,181
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,239
		California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	25,679 126 73
		STATE TOTAL			25,878
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	240
		Nevada	ARMY	RDTE/Other Defense-Exploratory Development	943
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	500
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	858
		Virginia	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	14,425 50 1,237
		STATE TOTAL			15,712
	CONTRACTOR TOTAL				45,370
	SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	98
	SCIENTIFIC COMPUTING ASSOC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	312
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	61 248
		STATE TOTAL			309
	SCP CONTROL INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	98

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	SEARCH TECHNOLOGY INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	426
	SECURITY BUILDINGS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	105
	SECURITY TECHNOLOGIES INTL	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	210
	SEMIMAC INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	50
	SENSIS CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	250
	SETS INC	Hawaii	ARMY	RDTE/Other Defense-Exploratory Development	49
	SHERMAN KARP CONSULTING	Maryland	USAF	RDTE/Other Defense-Exploratory Development	50
	SIGMATECH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	116
	SIGNAL CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	225
	SIGNAL TECHNOLOGY CORPORATION	Arizona	NAVY	RDTE/Other Defense-Exploratory Development	172
	SIMULATION TECHNOLOGIES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	430
	SOCIETY OF AUTO ENGINEERS	Penn	USAF	RDTE/Other Defense-Exploratory Development	60
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	1,399
	SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	500
			USAF	RDTE/Other Defense-Exploratory Development	70
			STATE TOTAL		570
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Exploratory Development	676
	SOL TELECOMMUNICATION SERVICE	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	262
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	936
	CONTRACTOR TOTAL				1,198
	SONO TEK CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	107
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Exploratory Development	404
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	166
	CONTRACTOR TOTAL				570

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 2,083 141
		STATE TOTAL			2,224
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	150 173
		STATE TOTAL			323
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	150
	SOUTHERN UNIV COLLEGE	Louisiana	USAF	RDTE/Other Defense-Exploratory Development	39
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,665 325
		STATE TOTAL			1,990
	SOUTHWEST SCIENCES INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	50
	SPACE COMPUTER CORP	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	92
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	72
	SPARTA INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	437 50
		STATE TOTAL			487
	SPECTRA PHYSICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	527
	SPECTRA SYSTEMS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	256
	SPECTRUM ASSOCIATES INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	59
	SPECTRUM PHOTONICS	Texas	ARMY	RDTE/Other Defense-Exploratory Development	44
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	776
	SQM TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	61
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,249 358 3,003
		STATE TOTAL			7,610
		Mass	USAF	RDTE/Other Defense-Exploratory Development	77

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	SRS TECHNOLOGIES	New York	USAF	RDTE/Other Defense-Exploratory Development	\$ 420
	SSDS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	70
					8,177
	STANFORD TELECOMMUNICATIONS	California	ARMY	RDTE/Other Defense-Exploratory Development	134
	STANFORD UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	42
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	289
		California	NAVY	RDTE/Other Defense-Exploratory Development	36
		USAF	RDTE/Other Defense-Exploratory Development	260	
	STATE TOTAL				296
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	STRUCTURED SYS & SOFTWARE	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	SUNBURST RECOVERY INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	177
	SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	600
		USAF	RDTE/Other Defense-Exploratory Development	223	
	STATE TOTAL				823
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Defense-Exploratory Development	317
	SUPERCONDUCTIVE COMPONENTS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50
	SUPERCONDUCTIVE ELECTRONICS IN	California	NAVY	RDTE/Other Defense-Exploratory Development	380
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Exploratory Development	225
	SUPERIOR VACUUM TECHNOLOGY	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	49
	SVERDRUP CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development	100
	SW OHIO CNCL FOR HIGHER EDUC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	359
	SWERLING MANASSE & SMITH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	249
	SYMBIOTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	199
	SYMETRIX CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	297

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

SYNECTICS CORP	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	\$ 50
SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	1,051
SYNERTECH INC	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	40
SYNLIZE INC	Mass	USAF	RDTE/Other	Defense-Exploratory Development	200
SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other	Defense-Exploratory Development	790
SYRACUSE UNIVERSITY	New York	USAF	RDTE/Other	Defense-Exploratory Development	586
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	5,615
SYSTEM DYNAMICS INTERNATIONAL	Florida	ARMY	RDTE/Other	Defense-Exploratory Development	4,986
SYSTEM PLANNING CORPORATION	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	210
	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	5,033
		NAVY	RDTE/Other	Defense-Exploratory Development	35
				STATE TOTAL	5,068
					5,278
CONTRACTOR TOTAL					
SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYSTEMS & TECHNOLOGY RESEARCH	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYSTEMS CONTROL TECHNOLOGY	California	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	135
SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Other	Defense-Exploratory Development	287
SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Other	Defense-Exploratory Development	245
SYSTRAN CORP	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	2,990
T S C INC	California	USAF	RDTE/Other	Defense-Exploratory Development	165
	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	50
					215
CONTRACTOR TOTAL					
TACAN CORPORATION	California	NAVY	RDTE/Other	Defense-Exploratory Development	200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

TAU CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	53 100
	STATE TOTAL				153
TAYLOR S R	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development		51
TDA RESEARCH INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		54
	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		48
	CONTRACTOR TOTAL				102
TEAM SCARAB INC	California	NAVY	RDTE/Other Defense-Exploratory Development		48
TECH REPS INCORPORATED	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		463
TECHNICAL DIRECTIONS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		230
TECHNICAL ENGRS SERVICES D	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		350
TECHNICAL EQP MKTG & SLS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		30
TECHNICAL RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		250
TECHNICO SOUTHWEST INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		195
TECHNO SCIENCES INC	Maryland	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		65 163
	STATE TOTAL				228
TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		98
TECHNOLOGY INTERNATIONAL CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development		39
TELECOMMUNICATION SCIENCE ASSOC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		132
TELEDYNE INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		3,695
	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		1,237 259
	STATE TOTAL				1,496
	Texas	ARMY	RDTE/Other Defense-Exploratory Development		2,180

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION

AD92 (CONTINUED)

	CONTRACTOR TOTAL	Virginia	USAF	RDTE/Other Defense-Exploratory Development	\$	177
TERMAN FRYDENLUND APPLIED TECH		California	ARMY	RDTE/Other Defense-Exploratory Development		7,548
TERRA TEK INC		Utah	ARMY	RDTE/Other Defense-Exploratory Development		78
TETRA CORPORATION		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		616
TEXAS A & M RESEARCH FDN		Texas	ARMY	RDTE/Other Defense-Exploratory Development		258
			NAVY	RDTE/Other Defense-Exploratory Development		583
			USAF	RDTE/Other Defense-Exploratory Development		75
						97
		STATE TOTAL				755
TEXAS INSTRUMENTS INC		Texas	ARMY	RDTE/Other Defense-Exploratory Development		6,903
			NAVY	RDTE/Other Defense-Exploratory Development		434
			USAF	RDTE/Other Defense-Exploratory Development		1,457
		STATE TOTAL				8,794
TEXAS TECH UNIVERSITY		Texas	ARMY	RDTE/Other Defense-Exploratory Development		844
THERMO ELCTRON TECHNOLOGIES CORP		California	ARMY	RDTE/Other Defense-Exploratory Development		285
THINKING MACHINES CORPORATION		Mass	ARMY	RDTE/Other Defense-Exploratory Development		3,000
			NAVY	RDTE/Other Defense-Exploratory Development		120
		STATE TOTAL				3,120
THIOKOL CORPORATION		Alabama	ARMY	RDTE/Other Defense-Exploratory Development		854
		Maryland	NAVY	RDTE/Other Defense-Exploratory Development		182
		CONTRACTOR TOTAL				1,036
TITAN SEVERE ENVIRONMENT SYS		California	ARMY	RDTE/Other Defense-Exploratory Development		300
TOP LEVEL INC		Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
TOYON RESEARCH CORP		California	ARMY	RDTE/Other Defense-Exploratory Development		1,904
TRACOR AEROSPACE INC		California	NAVY	RDTE/Other Defense-Exploratory Development		75
		Texas	NAVY	RDTE/Other Defense-Exploratory Development		55

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD92 (CONTINUED)

	CONTRACTOR TOTAL				\$	
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Other Defense-Exploratory Development		415
		Texas	NAVY	RDTE/Other Defense-Exploratory Development		470
	CONTRACTOR TOTAL					545
	TRACOR INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development		38
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Exploratory Development		365
	TRANSARC CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development		403
	TRANSDUCER RESEARCH INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		235
	TRELLIS SOFTWARE AND CONTROLS	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		58
	TRICOR SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		566
	TRIFID CORP	Missouri	ARMY	RDTE/Other Defense-Exploratory Development		100
	TRIQUINT SEMICONDUCTOR INC	Oregon	USAF	RDTE/Other Defense-Exploratory Development		50
	TRS CERAMICS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		80
	TRUSTED INFORMATION SYSTEMS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		150
			USAF	RDTE/Other Defense-Exploratory Development		1,225
	STATE TOTAL					50
	TRW INC	California	ARMY	RDTE/Other Defense-Exploratory Development		2,000
			NAVY	RDTE/Other Defense-Exploratory Development		2,138
			USAF	RDTE/Other Defense-Exploratory Development		4,138
	STATE TOTAL					2,932
		Ohio	USAF	RDTE/Other Defense-Exploratory Development		70
						952
	CONTRACTOR TOTAL					3,954
	UK SDIPO MINISTRY OF DEFENCE	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development		200
	ULTRAMET	California	ARMY	RDTE/Other Defense-Exploratory Development		4,154
						241
						246

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CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)				
ULTRASYSTEMS DEFENSE & SPACE	California	USAF	RDTE/Other Defense-Exploratory Development	\$ 465
UNION CARBIDE CHEM & PLAS CO	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	49
UNISTRY ASSOCIATES	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
UNISYS CORPORATICN	Ohio	USAF	RDTE/Other Defense-Exploratory Development	43
	Penn	NAVY	RDTE/Other Defense-Exploratory Development	617
CONTRACTOR TOTAL				660
UNISYS DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	80
UNITED APPLIED TECHN	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	338
UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Exploratory Development	100
	New Mexico	NAVY	RDTE/Other Defense-Exploratory Development	75
CONTRACTOR TOTAL				175
UNITED TECHNOLOGIES CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	144
		USAF	RDTE/Other Defense-Exploratory Development	1,100
STATE TOTAL				1,244
	Conn	USAF	RDTE/Other Defense-Exploratory Development	1,559
	Florida	NAVY	RDTE/Other Defense-Exploratory Development	337
		USAF	RDTE/Other Defense-Exploratory Development	5,580
STATE TOTAL				5,917
CONTRACTOR TOTAL				8,720
UNITED TECHNOLOGIES CORP.	California	ARMY	RDTE/Other Defense-Exploratory Development	180
UNIV OF CA INFORM	California	ARMY	RDTE/Other Defense-Exploratory Development	4,300
UNIVERSAL ANALYTICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	246
UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	49
		USAF	RDTE/Other Defense-Exploratory Development	3,634
STATE TOTAL				3,683

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	\$ 1,555
	UNIVERSITY NC AT CHAPEL HL	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	40
			USAF	RDTE/Other Defense-Exploratory Development	115
		STATE TOTAL			155
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,757
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	110
			USAF	RDTE/Other Defense-Exploratory Development	145
		STATE TOTAL			255
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Defense-Exploratory Development	259
			NAVY	RDTE/Other Defense-Exploratory Development	1,814
			USAF	RDTE/Other Defense-Exploratory Development	513
		STATE TOTAL			2,586
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Other Defense-Exploratory Development	362
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Other Defense-Exploratory Development	40
	UNIVERSITY OF DAYTON INC	Arizona	USAF	RDTE/Other Defense-Exploratory Development	3,079
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	225
			USAF	RDTE/Other Defense-Exploratory Development	7,625
		STATE TOTAL			7,850
	CONTRACTOR TOTAL				10,929
	UNIVERSITY OF HAWAII	Hawaii	ARMY	RDTE/Other Defense-Exploratory Development	30
			NAVY	RDTE/Other Defense-Exploratory Development	1,345
		STATE TOTAL			1,375
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	114
			USAF	RDTE/Other Defense-Exploratory Development	235
		STATE TOTAL			349
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Defense-Exploratory Development	30
			USAF	RDTE/Other Defense-Exploratory Development	52
		STATE TOTAL			82
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	--R&D DESCRIPTION--	
AD92 (CONTINUED)					
	UNIVERSITY OF MARYLAND	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 1,327 411
	UNIVERSITY OF MASSACHUSETTS	Mass	NAVY USAF	RDIE/Other Defense-Exploratory Development RDIE/Other Defense-Exploratory Development	1,738 50 330
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Other Defense-Exploratory Development	380
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	123 75 306 3,257
	UNIVERSITY OF SOUTHERN MISSISS	Miss	NAVY	RDTE/Other Defense-Exploratory Development	3,638
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	53 189 144
	UNIVERSITY OF TORONTO	CANADA	USAF	RDTE/Other Defense-Exploratory Development	333
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	45
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Other Defense-Exploratory Development	305
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Other Defense-Exploratory Development	498
	UNIVERSITY RES ENGINEERS ASSOC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	57
	USER TECHNOLOGY ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	233
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Exploratory Development	1,696
	UTD INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,570
	VACTRONIC LAB EQUIPMENT INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	978
	VARI L COMPANY INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	49
	VARIAN ASSOCIATES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	75 638

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other Defense-Exploratory Development	\$
AD92 (CONTINUED)						
CONTRACTOR TOTAL						
VECTOR MICRO	Virginia	NAVY	RDTE/Other Defense-Exploratory Development			35
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development			50
VECTOR RESEARCH INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development			574
VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development			50
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Exploratory Development			348
VIRTUAL IMAGE LAB INCORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development			49
VISTA RESEARCH	California	NAVY	RDTE/Other Defense-Exploratory Development			43
VMS CONSULTING ENGINEERS	Oregon	ARMY	RDTE/Other Defense-Exploratory Development			126
WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development			113
WAGNER DANIEL H ASSOCIATES	Penn	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			276 48
STATE TOTAL						
WASHINGTON STATE UNIVERSITY	Washington	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			324 316 58
STATE TOTAL						
WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development			374
	New York	ARMY	RDTE/Other Defense-Exploratory Development			856
CONTRACTOR TOTAL						
WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development			959
WESTINGHOUSE ELECTRIC CORP	California	ARMY	RDTE/Other Defense-Exploratory Development			1,815
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development			2,201
						2,697
						1,807

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
					\$
			NAVY	RDTE/Other Defense-Exploratory Development	75
			USAF	RDTE/Other Defense-Exploratory Development	4,244
			STATE TOTAL		6,126
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	952
			NAVY	RDTE/Other Defense-Exploratory Development	65
			USAF	RDTE/Other Defense-Exploratory Development	79
			STATE TOTAL		1,096
	CONTRACTOR TOTAL				9,919
	WGA	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	220
	WHITTAKER CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	1,234
			USAF	RDTE/Other Defense-Exploratory Development	793
			STATE TOTAL		2,027
	WIZDOM SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	50
	WOODS HOLE OCNRPIC INSTUTE	Mass	NAVY	RDTE/Other Defense-Exploratory Development	1,205
	WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Other Defense-Exploratory Development	75
	WORCESTER PLYTHCNIC INSTITUTE	Mass	USAF	RDTE/Other Defense-Exploratory Development	70
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	195
	XACTON CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	286
	XEMET INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development	103
	XEROX CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	1,791
		Mass	USAF	RDTE/Other Defense-Exploratory Development	180
					1,971
	CONTRACTOR TOTAL				880
	ZEKTRON INC	California	ARMY	RDTE/Other Defense-Exploratory Development	200
	ZYBRON INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	
	R&D TOTAL				1,530,052

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AD93	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	277
	A T S S INC	California	USAF	RDTE/Other Defense-Advanced Development	49
	ACUREX CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	358
	ADVANCED COMMUNICATIONS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	89
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Defense-Advanced Development	1,883
		Virginia	USAF	RDTE/Other Defense-Advanced Development	151
	CONTRACTOR TOTAL				2,034
	ADVANCED RESOURCE TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	275
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	852
	AEDAR CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	175
	AEROFLEX SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,174
	AEROJET	California	USAF	RDTE/Other Defense-Advanced Development	195
	AERONAUTICAL TECHNOLOGY	California	USAF	RDTE/Other Defense-Advanced Development	67
	AEROTHERM CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	978
	AIRST CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	186
	ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Other Defense-Advanced Development	241
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Defense-Advanced Development	1,048
	ALLIED SIGNAL INC	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	150
	AMBER ENGINEERING INC	California	ARMY	RDTE/Other Defense-Advanced Development	1,210
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Advanced Development	183
	AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	306
	AMERICAN OPTICAL CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development	1,529
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	7,527
	AMERINEX ARTFL INTELLIGENCE	Mass	ARMY	RDTE/Other Defense-Advanced Development	3,921
	ANALYTIC SCIENCE CORP THE	Mass	ARMY	RDTE/Other Defense-Advanced Development	31,505
			USAF	RDTE/Other Defense-Advanced Development	2,716

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD93 (CONTINUED)					
		STATE TOTAL			\$
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	34,221
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Advanced Development	14,627
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	280
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	450
	ARTHUR D LITTLE	Mass	NAVY	RDTE/Other Defense-Advanced Development	340
	ASTROSYSTEMS INC	Delaware	USAF	RDTE/Other Defense-Advanced Development	245
	ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	200
		Maryland	NAVY	RDTE/Other Defense-Advanced Development	778
		New York	USAF	RDTE/Other Defense-Advanced Development	1,007
					626
					2,411
	CONTRACTOR TOTAL				139
	AURA SYSTEMS	California	NAVY	RDTE/Other Defense-Advanced Development	1,566
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Advanced Development	250-
	AVCO CORPORATION	Conn	USAF	RDTE/Other Defense-Advanced Development	162
		Mass	USAF	RDTE/Other Defense-Advanced Development	88-
	CONTRACTOR TOTAL				659
	AVCO RESEARCH LABORATORY INC	Hawaii	USAF	RDTE/Other Defense-Advanced Development	1,383
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	76
	BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Advanced Development	14,000
	BABCOCK & WILCOX COMPANY THE	Virginia	ARMY	RDTE/Other Defense-Advanced Development	931
	BALL CORPORATION	Colorado	ARMY USAF	RDTE/Other Defense-Advanced Development	3,535
		STATE TOTAL			4,466
	BALLENA SYSTEMS CORPORATION	California	NAVY	RDTE/Other Defense-Advanced Development	408

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	

AD93 (CONTINUED)

BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	\$	100
BASE TEN SYSTEMS INC	New Jersey	ARMY	RDTE/Other Defense-Advanced Development		97
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		7,345 96
	STATE TOTAL				7,441
BDM INTERNATIONAL INC	Florida	USAF	RDTE/Other Defense-Advanced Development		14,300
	Virginia	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		22,190 74 221
	STATE TOTAL				22,485
CONTRACTOR TOTAL					36,785
BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development		58
BLACK & DECKER CORPORATION	Nebraska	USAF	RDTE/Other Defense-Advanced Development		156
BLIME INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		120
BOEING AEROSPACE & ELECTRONICS	Washington	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		3,103 1,574
	STATE TOTAL				4,677
BOEING COMPANY THE	D.C.	NAVY	RDTE/Other Defense-Advanced Development		96
	Washington	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		57 101 3,713
	STATE TOTAL				3,871
CONTRACTOR TOTAL					3,967
BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Other Defense-Advanced Development		128
BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other Defense-Advanced Development		1,010
	Mass	USAF	RDTE/Other Defense-Advanced Development		2,680
	Virginia	NAVY	RDTE/Other Defense-Advanced Development		571

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD93 (CONTINUED)

CONTRACTOR TOTAL					\$	
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development			4,261 6,078 183
BOSTON UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Advanced Development			6,261
BROGAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development			3,300
BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development			2,983
C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Other Defense-Advanced Development			686
CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development			280
	Ohio	USAF	RDTE/Other Defense-Advanced Development			414
CONTRACTOR TOTAL						1,984
CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Other Defense-Advanced Development			2,398
CARNEGIE MELLON UNIVERSITY	Penn	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development			100 115 717
CATERPILLAR INC	Illinois	ARMY	RDTE/Other Defense-Advanced Development			832
CENTURY COMPUTING INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development			82
CERAMPHYSICS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development			1,253
CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Defense-Advanced Development			30
CLARKSON ENGINEERING INC	Texas	USAF	RDTE/Other Defense-Advanced Development			60
CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Other Defense-Advanced Development			200
COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Defense-Advanced Development			60
COLSA INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development			94
COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other Defense-Advanced Development			1,147
CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Defense-Advanced Development			10,579
						186

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CORNING INC	New York	USAF	RDTE/Other Defense-Advanced Development	89
	CORTANA CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,724
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Advanced Development	100
	CSA ENGINEERING INC	California	USAF	RDTE/Other Defense-Advanced Development	1,488
	DAMES & MOORE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	3,658
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Advanced Development	60
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,009
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other Defense-Advanced Development	1,466
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	934
	DELTA DATA SYSTEMS CORPORATION	Miss	NAVY	RDTE/Other Defense-Advanced Development	93
	DIGITAL AUDIO CORPORATION	N Carolina	ARMY	RDTE/Other Defense-Advanced Development	65
	DIGITAL EQUIPMENT CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	121
	DIGITAL RADIO CORP	California	ARMY	RDTE/Other Defense-Advanced Development	1,935
	DORNIER GMBH	GERMANY	ARMY	RDTE/Other Defense-Advanced Development	575
	DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,361 1,750
	STATE TOTAL				3,111
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Advanced Development	56
	DUPONT AEROSPACE CO INC	California	USAF	RDTE/Other Defense-Advanced Development	476
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	390
	DYNAMICS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	638
	DYNACORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	475
	DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	400
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Advanced Development	58

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD93 (CONTINUED)

EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Advanced Development	\$	53
	Missouri	USAF	RDTE/Other Defense-Advanced Development		250
CONTRACTOR TOTAL					303
EASTERN LABORATORIES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development		50
EASTMAN KODAK COMPANY	New York	USAF	RDTE/Other Defense-Advanced Development		477
ELDEC CORPORATION	Washington	USAF	RDTE/Other Defense-Advanced Development		203
ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Defense-Advanced Development		185
ELECTRONICS DEVELOPMENT CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		1,057
ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development		190
ENGINE CORP OF AMERICA	California	ARMY	RDTE/Other Defense-Advanced Development		94
ENGINEERING & ECONOMICS RES	Florida	NAVY	RDTE/Other Defense-Advanced Development		66
ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other Defense-Advanced Development		431
ENVIRONMENTAL TECHNOLOGIES GRP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		927
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development		1,042
EXECUTIVE RESOURCE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Advanced Development		398
FAIRCHILD SPACE & DEFENSE CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		166
FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Other Defense-Advanced Development		768
FMC CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development		2,499
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Advanced Development		51
		NAVY	RDTE/Other Defense-Advanced Development		466
		USAF	RDTE/Other Defense-Advanced Development		100
STATE TOTAL					617
G & F COMPANY	California	ARMY	RDTE/Other Defense-Advanced Development		5,172
GALAXY MICROSYSTEMS INC	California	ARMY	RDTE/Other Defense-Advanced Development		57
GEMINI COMPUTERS INCORPORATED	California	USAF	RDTE/Other Defense-Advanced Development		143

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD93 (CONTINUED)

GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other	Defense-Advanced Development	\$ 250
GENERAL ATOMICS	California	USAF	RDTE/Other	Defense-Advanced Development	549
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other	Defense-Advanced Development	2,651
		USAF	RDTE/Other	Defense-Advanced Development	4,278
	STATE TOTAL				6,929
	Conn	ARMY	RDTE/Other	Defense-Advanced Development	181
	Texas	USAF	RDTE/Other	Defense-Advanced Development	3,703
	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	470
CONTRACTOR TOTAL					11,283
GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other	Defense-Advanced Development	1,408
	New Jersey	ARMY	RDTE/Other	Defense-Advanced Development	5,000
		USAF	RDTE/Other	Defense-Advanced Development	3,218
	STATE TOTAL				8,218
	New York	USAF	RDTE/Other	Defense-Advanced Development	1,688
	Ohio	USAF	RDTE/Other	Defense-Advanced Development	1,455
	Penn	ARMY	RDTE/Other	Defense-Advanced Development	68,025
		USAF	RDTE/Other	Defense-Advanced Development	1,353
	STATE TOTAL				69,378
CONTRACTOR TOTAL					82,147
GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Other	Defense-Advanced Development	294
GENERAL RESEARCH CORPORATION	California	ARMY	RDTE/Other	Defense-Advanced Development	1,300
		USAF	RDTE/Other	Defense-Advanced Development	103
	STATE TOTAL				1,403
GEO CENTERS INC	D.C.	NAVY	RDTE/Other	Defense-Advanced Development	49
	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	150
CONTRACTOR TOTAL					199

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Advanced Development	\$ 40
	GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	97
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	12,551 345
		STATE TOTAL			12,896
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Advanced Development	144
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Other Defense-Advanced Development	550
		Maryland	USAF	RDTE/Other Defense-Advanced Development	740
	CONTRACTOR TOTAL				1,290
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development	1,181
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,500
	HAZELTINE CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	4,342
	HERNANDEZ ENGINEERING INC	Texas	ARMY	RDTE/Other Defense-Advanced Development	235
	HIGH TECH INC	Miss	NAVY	RDTE/Other Defense-Advanced Development	103
	HOECHST CELANESE CORPORATION	New Jersey	USAF	RDTE/Other Defense-Advanced Development	41
	HONEYWELL INC	Florida	USAF	RDTE/Other Defense-Advanced Development	43
		Minnesota	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,537 135 960
		STATE TOTAL			2,632
	CONTRACTOR TOTAL				2,675
	HUGHES AIRCRAFT COMPANY	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	661 4,009
		STATE TOTAL			4,670
	HUGHES ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Advanced Development	289
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Other Defense-Advanced Development	299
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Advanced Development	673

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Advanced Development	1,047
			USAF	RDTE/Other Defense-Advanced Development	186
	STATE TOTAL				1,233
	CONTRACTOR TOTAL				31
	I NET INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,264
	IMO INDUSTRIES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	650
		California	ARMY	RDTE/Other Defense-Advanced Development	295
	INFORMTION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	160
		Ohio	USAF	RDTE/Other Defense-Advanced Development	91
	CONTRACTOR TOTAL				251
	INTELLIGENT TEXT PROCESSING	California	ARMY	RDTE/Other Defense-Advanced Development	51
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	1,678
		Ohio	USAF	RDTE/Other Defense-Advanced Development	56
		Penn	NAVY	RDTE/Other Defense-Advanced Development	536
	CONTRACTOR TOTAL				2,270
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	USAF	RDTE/Other Defense-Advanced Development	388
	IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Other Defense-Advanced Development	69
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	7,520
	ISREALI MINISTRY OF DEFENSE	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	1,165
	JAMIESON SCIENCE & ENGINEERING	Maryland	ARMY	RDTE/Other Defense-Advanced Development	2,788
	JAYCOR	California	NAVY	RDTE/Other Defense-Advanced Development	50
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	60,340
	CONTRACTOR TOTAL				60,390
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Defense-Advanced Development	96,431

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	KAISER OPTICAL SYSTEMS INC	Michigan	USAF	RDTE/Other Defense-Advanced Development	580
	KAMAN AEROSPACE CORPORATION	Arizona	ARMY	RDTE/Other Defense-Advanced Development	1,200
		Conn	ARMY	RDTE/Other Defense-Advanced Development	930
	CONTRACTOR TOTAL				2,130
	KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Advanced Development	276
	KNOWLEDGE BASED SYSTEM	Texas	USAF	RDTE/Other Defense-Advanced Development	454
	KNOWLEDGE SYSTEMS CONCEPTS	New York	ARMY	RDTE/Other Defense-Advanced Development	50
			USAF	RDTE/Other Defense-Advanced Development	100
	STATE TOTAL				150
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Other Defense-Advanced Development	1,310
	KIAADN INC	Mass	USAF	RDTE/Other Defense-Advanced Development	50
	LANGUAGE SYSTEMS INC	California	USAF	RDTE/Other Defense-Advanced Development	317
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Advanced Development	127
	LICA SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	120
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	4,193
	LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Other Defense-Advanced Development	1,575
		California	ARMY	RDTE/Other Defense-Advanced Development	5,500
		Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,271
	CONTRACTOR TOTAL				8,346
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	865
	LORAL CORPORATION	Arizona	USAF	RDTE/Other Defense-Advanced Development	1,047
		Ohio	ARMY	RDTE/Other Defense-Advanced Development	5,745
	CONTRACTOR TOTAL				6,792
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Other Defense-Advanced Development	28,552

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	4,930
	MAC AULAY BROWN INC	Ohio	NAVY	RDTE/Other Defense-Advanced Development	77
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	ARMY	RDTE/Other Defense-Advanced Development	229
	MAR INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,873
	MARINE ACOUSTICS	Rhode Isld	NAVY	RDTE/Other Defense-Advanced Development	1,030
	MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	90
	MARQUARDT COMPANY THE	California	USAF	RDTE/Other Defense-Advanced Development	118
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other Defense-Advanced Development	185,920
			NAVY	RDTE/Other Defense-Advanced Development	251
			USAF	RDTE/Other Defense-Advanced Development	59-
			STATE TOTAL		186,112
		D.C.	NAVY	RDTE/Other Defense-Advanced Development	121
		Florida	NAVY	RDTE/Other Defense-Advanced Development	1,200
		Maryland	USAF	RDTE/Other Defense-Advanced Development	655
			STATE TOTAL		188,088
	CONTRACTOR TOTAL				62-
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Other Defense-Advanced Development	
	MCDONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	6,885
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	2,704
		Missouri	USAF	RDTE/Other Defense-Advanced Development	704
			STATE TOTAL		10,293
	CONTRACTOR TOTAL				824
	MCDONNELL DOUGLAS MSL SYS CO	Missouri	USAF	RDTE/Other Defense-Advanced Development	
	MCDONNELL DOUGLAS SPACE SYS CO	California	ARMY	RDTE/Other Defense-Advanced Development	422
			USAF	RDTE/Other Defense-Advanced Development	5,380
			STATE TOTAL		5,802
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	2,196

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Advanced Development	7,998
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	55
	MESSERSCHMITT BOELKOW BLOHM	GERMANY	ARMY	RDTE/Other Defense-Advanced Development	149
	MICRO CRAFT INC	Tennessee	USAF	RDTE/Other Defense-Advanced Development	7,694
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	49
	MINE SAFETY APPLIANCES CO	Penn	ARMY	RDTE/Other Defense-Advanced Development	290
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	180
	MITSUBISHI HEAVY INDUSTRIES LT	JAPAN	ARMY	RDTE/Other Defense-Advanced Development	518
	NAMLAK	New York	NAVY	RDTE/Other Defense-Advanced Development	1,500
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Advanced Development	50
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Advanced Development	204
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	236 13,781 137
	CONTRACTOR TOTAL				13,918
		Florida	NAVY	RDTE/Other Defense-Advanced Development	542
					14,460
	CONTRACTOR TOTAL				210
	NOISE CANCELLATION TECHNOLOGIE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	120
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	103
	NORTHEAST PHOTO SCIENCES	N.H.	USAF	RDTE/Other Defense-Advanced Development	1,523
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	3,795
	NYSERNET INC	New York	USAF	RDTE/Other Defense-Advanced Development	220
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Other Defense-Advanced Development	279
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Advanced Development	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Advanced Development	\$ 700
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Defense-Advanced Development	400
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Other Defense-Advanced Development	40
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Advanced Development	2,509
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Advanced Development	625
			NAVY	RDTE/Other Defense-Advanced Development	285
	STATE TOTAL				910
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	3,314
	PARAGON GRAPHICS INC	Florida	NAVY	RDTE/Other Defense-Advanced Development	293
	PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Other Defense-Advanced Development	1,348
	PARSONS RALPH M COMPANY THE	Arkansas	ARMY	RDTE/Other Defense-Advanced Development	621
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	49
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Other Defense-Advanced Development	60
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	275
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	416
	PLANNING SYSTEMS INCORPORATED	Louisiana	NAVY	RDTE/Other Defense-Advanced Development	100
		Miss	NAVY	RDTE/Other Defense-Advanced Development	235
		Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,610
	CONTRACTOR TOTAL				1,945
	POLAROID CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	526
	PRC INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,000
			USAF	RDTE/Other Defense-Advanced Development	499
	STATE TOTAL				2,499
	R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Advanced Development	45
			NAVY	RDTE/Other Defense-Advanced Development	300

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					

	STATE TOTAL				\$	345
R J O ENTERPRISES INC	Maryland	ARMY		RDTE/Other Defense-Advanced Development		5,531
RADIX SYSTEMS INC	Maryland	NAVY		RDTE/Other Defense-Advanced Development		98
RADKOWSKI ASSOCIATES	Maryland	NAVY		RDTE/Other Defense-Advanced Development		72
RAIL COMPANY	Maryland	ARMY		RDTE/Other Defense-Advanced Development		125
RASOR ASSOCIATES INC	California	USAF		RDTE/Other Defense-Advanced Development		114
RAVEN INC	Virginia	NAVY		RDTE/Other Defense-Advanced Development		1,021
RAYTHEON COMPANY	Mass	ARMY USAF		RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		3,401 3,127
	STATE TOTAL					6,528
REMECH INC	Alabama	USAF		RDTE/Other Defense-Advanced Development		49
RESEARCH APPLICATIONS INC	Texas	ARMY		RDTE/Other Defense-Advanced Development		69
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY USAF		RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		100 40
	STATE TOTAL					140
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY		RDTE/Other Defense-Advanced Development		8,550
ROCHESTER PHOTONICS CORP	New York	USAF		RDTE/Other Defense-Advanced Development		100
ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF		RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		2,778 30 3,014
	STATE TOTAL					5,822
	Georgia	NAVY		RDTE/Other Defense-Advanced Development		328
CONTRACTOR TOTAL						6,150
ROCKWELL POWER SYSTEMS	Hawaii	USAF		RDTE/Other Defense-Advanced Development		2,841
	New Mexico	USAF		RDTE/Other Defense-Advanced Development		5,308
CONTRACTOR TOTAL						8,149

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	ROME RESEARCH CORP	New York	USAF	RDTE/Other Defense-Advanced Development	\$ 470
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	52
	SAN JOSE STATE UNIVERSITY	California	USAF	RDTE/Other Defense-Advanced Development	43
	SAN JUAN TECHNOLOGIES	New Mexico	NAVY	RDTE/Other Defense-Advanced Development	47
	SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	250
	SCHAFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	23,095
	SCHMIDT INSTRUMENTS	Texas	USAF	RDTE/Other Defense-Advanced Development	50
	SCIENCE APPLICATION INTER CORP	California	ARMY	RDTE/Other Defense-Advanced Development	6,707
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Advanced Development	452
		Arizona	ARMY	RDTE/Other Defense-Advanced Development	2,859
		California	ARMY	RDTE/Other Defense-Advanced Development	3,423
		NAVY	NAVY	RDTE/Other Defense-Advanced Development	330
		USAF	USAF	RDTE/Other Defense-Advanced Development	2,545
	STATE TOTAL				6,298
		Ohio	USAF	RDTE/Other Defense-Advanced Development	280
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,875
		NAVY	NAVY	RDTE/Other Defense-Advanced Development	83
	STATE TOTAL				1,958
	CONTRACTOR TOTAL				11,847
	SCIENCE RESEARCH LABORATORY	California	NAVY	RDTE/Other Defense-Advanced Development	200
		Mass	ARMY	RDTE/Other Defense-Advanced Development	987
		USAF	USAF	RDTE/Other Defense-Advanced Development	50
	STATE TOTAL				1,037
	CONTRACTOR TOTAL				1,237
	SEA TECH INC	Oregon	NAVY	RDTE/Other Defense-Advanced Development	197
	SECURE CMPTING TECHNOLOGY CORP	Minnesota	USAF	RDTE/Other Defense-Advanced Development	148
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Advanced Development	199

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED,					
	SIGNAL PROCESSING TECHNOLOGY	California	NAVY	RDTE/Other Defense-Advanced Development	52
	SILICON ENGINES INC	California	NAVY	RDTE/Other Defense-Advanced Development	50
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	119
	SIPPICAN INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	328
	SOFRADIR	FRANCE	ARMY	RDTE/Other Defense-Advanced Development	299
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Advanced Development	216
	SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other Defense-Advanced Development	35
	SOREG NEUCLEAR RESEARCH CENTER	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	1,144
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Advanced Development	228
	SPACE APPLICATIONS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	4,003
	SPACE COMPUTER CORP	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	300 114
		STATE TOTAL			414
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Advanced Development	24,352
	SPACE POWER INCORPORATED	California	USAF	RDTE/Other Defense-Advanced Development	641
	SPARTA INC	Alabama	USAF	RDTE/Other Defense-Advanced Development	243
		California	USAF	RDTE/Other Defense-Advanced Development	300
		Ohio	USAF	RDTE/Other Defense-Advanced Development	140
	CONTRACTOR TOTAL				683
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development	3,451
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Advanced Development	95
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	6,011 502 704
		STATE TOTAL			7,217

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Advanced Development	\$ 4,890
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Advanced Development	162
	STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Other Defense-Advanced Development	340
	STONE & WEBSTER ENGRG CORP	D.C.	ARMY	RDTE/Other Defense-Advanced Development	497
	SYNCHRONETICS INC	Maryland	USAF	RDTE/Other Defense-Advanced Development	50
	SYNECTICS CORP	New York	USAF	RDTE/Other Defense-Advanced Development	267
	SYRACUSE UNIVERSITY	New York	ARMY	RDTE/Other Defense-Advanced Development	75
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,933
	SYSTEMS & PROCESSES ENGRG CORP	Texas	NAVY	RDTE/Other Defense-Advanced Development	359
	SYSTEMS ANALYSIS & INTEGRATION	California	NAVY	RDTE/Other Defense-Advanced Development	2,654
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	3,219
	SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,315
	TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	782
	TERA COMPUTER CO	Washington	ARMY	RDTE/Other Defense-Advanced Development	500
	TETRA CORPORATION	New Mexico	USAF	RDTE/Other Defense-Advanced Development	59
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Other Defense-Advanced Development	2,142
			NAVY	RDTE/Other Defense-Advanced Development	700
			USAF	RDTE/Other Defense-Advanced Development	382
	STATE TOTAL				3,224
	THERMACORE INC	Penn	USAF	RDTE/Other Defense-Advanced Development	518
	THERMO ELCTRON TCHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Advanced Development	1,409
	THIOKOL CORPORATION	Utah	NAVY	RDTE/Other Defense-Advanced Development	25
	TINSLEY LABORATORIES INC	California	USAF	RDTE/Other Defense-Advanced Development	225
	TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	221
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	1,773
	TRACOR FLIGHT SERVICES INC	California	ARMY	RDTE/Other Defense-Advanced Development	488

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD93 (CONTINUED)	TRW INC	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	\$ 47,865 350 1,367
		STATE TOTAL			49,582
		Colorado	USAF	RDTE/Other Defense-Advanced Development	5,900
		STATE TOTAL			55,482
	CONTRACTOR TOTAL				
	U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	36
	UNION CORPORATION	Penn	ARMY	RDTE/Other Defense-Advanced Development	314
	UNISYS DEFENSE SYSTEMS INC	Minnesota	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	100 3,574
		STATE TOTAL			3,674
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Other Defense-Advanced Development	6,428
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Advanced Development	72
	UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Advanced Development	100
		Illinois	NAVY	RDTE/Other Defense-Advanced Development	300
		STATE TOTAL			400
	CONTRACTOR TOTAL				
	UNITED STATES DEPT OF INTERIOR	Virginia	NAVY	RDTE/Other Defense-Advanced Development	195
	UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Advanced Development	75
		Conn	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	158 739
		STATE TOTAL			897
		Florida	USAF	RDTE/Other Defense-Advanced Development	3,334
		STATE TOTAL			4,306
	CONTRACTOR TOTAL				
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	769
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	106
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Defense-Advanced Development	449

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	NAVY	RDTE/Other Defense-Advanced Development	\$
AD93 (CONTINUED)							
	UNIVERSITY OF DAYTON INC	Arizona	USAF	RDTE/Other Defense-Advanced Development			3,378
		Ohio	USAF	RDTE/Other Defense-Advanced Development			3,827
							557
							1,058
							1,615
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Defense-Advanced Development			66
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Advanced Development			100
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Advanced Development			45
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Defense-Advanced Development			545
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Other Defense-Advanced Development			46
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Advanced Development			100
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Other Defense-Advanced Development			813
	URS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development			62-
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Advanced Development			30,833
	VANGUARD RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development			1,525
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Other Defense-Advanced Development			240
	VEDA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Advanced Development			206
	VEDA INTERNATIONAL INC	Virginia	USAF	RDTE/Other Defense-Advanced Development			239
	VER VAL ENTERPRISES INC	Florida	ARMY	RDTE/Other Defense-Advanced Development			328
	VICTORIA INTERNATIONAL LTD	Virginia	NAVY	RDTE/Other Defense-Advanced Development			29-
	VIRGINIA PLTYCHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Advanced Development			206
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Advanced Development			249
	WASHINGTON STATE UNIVERSITY	Washington	USAF	RDTE/Other Defense-Advanced Development			38
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development			1,166

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R&D DESCRIPTION-----

		STATE TOTAL		CONTRACTOR TOTAL	
	USAF	RDTE/Other	Defense-Advanced Development		\$
R&D TOTAL	Penn	USAF	RDTE/Other	Defense-Advanced Development	873
	Mass	NAVY	RDTE/Other	Defense-Advanced Development	2,039
	California	ARMY	RDTE/Other	Defense-Advanced Development	189
					2,228
	Virginia	NAVY	RDTE/Other	Defense-Engineering Development	46
	Virginia	USAF	RDTE/Other	Defense-Engineering Development	1,400
	California	USAF	RDTE/Other	Defense-Engineering Development	1,105,797
	Ohio	USAF	RDTE/Other	Defense-Engineering Development	400
	New York	USAF	RDTE/Other	Defense-Engineering Development	65
	Maryland	ARMY	RDTE/Other	Defense-Engineering Development	257
CONTRACTOR TOTAL	Penn	NAVY	RDTE/Other	Defense-Engineering Development	544
	California	USAF	RDTE/Other	Defense-Engineering Development	1,794
	Miss	NAVY	RDTE/Other	Defense-Engineering Development	57
	Virginia	ARMY	RDTE/Other	Defense-Engineering Development	99
					79
					368
					934
					1,302
	Washington	USAF	RDTE/Other	Defense-Engineering Development	67
	Washington	USAF	RDTE/Other	Defense-Engineering Development	4,055
CONTRACTOR TOTAL	Washington	NAVY	RDTE/Other	Defense-Engineering Development	100
	Maryland	ARMY	RDTE/Other	Defense-Engineering Development	256
	Florida	ARMY	RDTE/Other	Defense-Engineering Development	1,372
	Arkansas	USAF	RDTE/Other	Defense-Engineering Development	159

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD94 (CONTINUED)				
CONTRACTOR TOTAL				
CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Engineering Development	\$ 1,582-
CARTWRIGHT ELECTRONICS INC	Texas	USAF	RDTE/Other Defense-Engineering Development	659-
CHAMBERLAIN MANUFACTURING CORP	Ohio	USAF	RDTE/Other Defense-Engineering Development	2,082-
COLSA INC	California	NAVY	RDTE/Other Defense-Engineering Development	59
COMPUTER SCIENCE INNOVATIONS	Maryland	ARMY	RDTE/Other Defense-Engineering Development	49
CONTRAVES USA INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	7,221
DBA SYSTEMS INC	Florida	USAF	RDTE/Other Defense-Engineering Development	253
DRAPER CHARLES STARK LAB INC	Penn	ARMY	RDTE/Other Defense-Engineering Development	36
E SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Engineering Development	1,025
EAGLE SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Engineering Development	70
EARTH TECHNOLOGY CORP	Texas	USAF	RDTE/Other Defense-Engineering Development	230
ECONOMICS TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Other Defense-Engineering Development	13,963
ELECTRONIC ASSOCIATES INC	California	USAF	RDTE/Other Defense-Engineering Development	30
ENSCO INC	California	USAF	RDTE/Other Defense-Engineering Development	73-
ENVIRONMENTAL RES INST OF MICH	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	3,373
ENVIRONMENTAL TECHNOLOGIES GRP	Virginia	ARMY	RDTE/Other Defense-Engineering Development	2,369
FAGIN SAMUEL L ASSOC	Michigan	ARMY	RDTE/Other Defense-Engineering Development	50
GENERAL DYNAMICS CORPORATION	USAF	ARMY	RDTE/Other Defense-Engineering Development	300
			RDTE/Other Defense-Engineering Development	621
STATE TOTAL				921
	Maryland	ARMY	RDTE/Other Defense-Engineering Development	12,450
	Penn	NAVY	RDTE/Other Defense-Engineering Development	375
	California	NAVY	RDTE/Other Defense-Engineering Development	34,028
	Michigan	ARMY	RDTE/Other Defense-Engineering Development	32,580

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AD94 (CONTINUED)

CONTRACTOR TOTAL					\$
GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Other	Defense-Engineering Development	66,608
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Other	Defense-Engineering Development	182
GENERAL RESEARCH CORPORATION	Alabama	USAF	RDTE/Other	Defense-Engineering Development	412
GEO CENTERS INC	Mass	NAVY	RDTE/Other	Defense-Engineering Development	500
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other	Defense-Engineering Development	80
GNOSTECH INC	Penn	NAVY	RDTE/Other	Defense-Engineering Development	46
GRAHAM RESEARCH	Penn	ARMY	RDTE/Other	Defense-Engineering Development	783
GUIDED SYS TECH GA	Georgia	NAVY	RDTE/Other	Defense-Engineering Development	57
HONEYWELL INC	Minnesota	NAVY	RDTE/Other	Defense-Engineering Development	130
HRB SYSTEMS INC	Penn	USAF	RDTE/Other	Defense-Engineering Development	107
HUGHES AIRCRAFT & RAYTHEON JV	California	NAVY	RDTE/Other	Defense-Engineering Development	208
	Mass	NAVY	RDTE/Other	Defense-Engineering Development	35,810
					1,250
					37,060
CONTRACTOR TOTAL					
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other	Defense-Engineering Development	386
I L C INDUSTRIES DELAWARE	Delaware	USAF	RDTE/Other	Defense-Engineering Development	1,531
ILLINOIS TOOL WORKS INC	Illinois	USAF	RDTE/Other	Defense-Engineering Development	741
INFORMATION SYSTEMS NTRKS CORP	Ohio	USAF	RDTE/Other	Defense-Engineering Development	511
INTEGRATED MICROCOMPUTER SYS	Maryland	NAVY	RDTE/Other	Defense-Engineering Development	247
INTERMETRICS INC	Ohio	USAF	RDTE/Other	Defense-Engineering Development	416
INTERNATIONAL BUS MCHS CORP	Virginia	USAF	RDTE/Other	Defense-Engineering Development	1,950
INTERNATIONAL TECH TRAN, INC	New Jersey	ARMY	RDTE/Other	Defense-Engineering Development	50
ISA ASSOCIATES INC	Virginia	NAVY	RDTE/Other	Defense-Engineering Development	69
KAPOS ASSOCIATES INC	Virginia	ARMY	RDTE/Other	Defense-Engineering Development	30

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

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	

AD94 (CONTINUED)

LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Defense-Engineering Development	\$	3,988
	Maryland	ARMY	RDTE/Other Defense-Engineering Development		950
CONTRACTOR TOTAL					4,938
LOCUS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development		162
LOGICON INC	Ohio	USAF	RDTE/Other Defense-Engineering Development		165
LORAL CORPORATION	New York	NAVY	RDTE/Other Defense-Engineering Development		31,439
	Ohio	ARMY	RDTE/Other Defense-Engineering Development		2,000
CONTRACTOR TOTAL					33,439
LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	ARMY	RDTE/Other Defense-Engineering Development		70
MALIBU RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Engineering Development		50
MANAGEMENT CONSULTING & RES	Virginia	NAVY	RDTE/Other Defense-Engineering Development		78
MARK RESOURCES INC	California	NAVY	RDTE/Other Defense-Engineering Development		50
MARTIN BAKER AIRCRAFT CO LTD	UNITED KIN	NAVY	RDTE/Other Defense-Engineering Development		1,150
MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Other Defense-Engineering Development		313
	Maryland	ARMY	RDTE/Other Defense-Engineering Development		1,776
		USAF	RDTE/Other Defense-Engineering Development		188
CONTRACTOR TOTAL					1,964
STATE TOTAL					2,277
MCDONNELL DOUGLAS ELECTRON SYS	Colorado	USAF	RDTE/Other Defense-Engineering Development		356
MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Engineering Development		913
METRON INC	Penn	NAVY	RDTE/Other Defense-Engineering Development		516
MISSION RESEARCH CORPORATION	D.C.	NAVY	RDTE/Other Defense-Engineering Development		260
MODERN TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Engineering Development		3,657
NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Engineering Development		82

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Other Defense-Engineering Development	16,581
	PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Other Defense-Engineering Development	180
	POLYMER TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	250
	QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	55
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Defense-Engineering Development	197
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Defense-Engineering Development	4,084
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Defense-Engineering Development	1,027
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Defense-Engineering Development	249
		Maine	USAF	RDTE/Other Defense-Engineering Development	105
		Ohio	USAF	RDTE/Other Defense-Engineering Development	1,499
	CONTRACTOR TOTAL				1,853
	SEPARATION SYSTEMS TECH INC	California	ARMY	RDTE/Other Defense-Engineering Development	199
	SHIP ANALYTICS INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	99
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	50
	SOFTTECH INC	Virginia	USAF	RDTE/Other Defense-Engineering Development	7,373
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Engineering Development	122
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	104
	STV ENGINEERS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	900
	SYLVEST MANAGEMENT SYSTEM	Maryland	NAVY	RDTE/Other Defense-Engineering Development	465
	SYNECTICS CORP	New York	USAF	RDTE/Other Defense-Engineering Development	2,095
	TECHNION RESEARCH & DEVELOPMEN	ISRAEL	USAF	RDTE/Other Defense-Engineering Development	45
	TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Other Defense-Engineering Development	50
	TENNESSEE STATE UNIVERSITY	Tennessee	USAF	RDTE/Other Defense-Engineering Development	148
	TRW INC	California	NAVY	RDTE/Other Defense-Engineering Development	36-

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	CONTRACTOR TOTAL				
	UNISYS CORPORATION	Colorado	USAF	RDTE/Other Defense-Engineering Development	5,137
	UNISYS DEFENSE SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	5,101
	UNITED TECHNOLOGIES CORP	New York	USAF	RDTE/Other Defense-Engineering Development	
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Engineering Development	475
	UNIVERSITY OF DAYTON INC	Florida	NAVY	RDTE/Other Defense-Engineering Development	381
		Ohio	USAF	RDTE/Other Defense-Engineering Development	110
R&D TOTAL					252,843
AD95	AEROJET	California	USAF	RDTE/Other Defense-Operational Systems Dev	80,687
	ALAR PRODUCTS INC	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	56
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	300
	AQUA CHEM INC	Wisconsin	ARMY	RDTE/Other Defense-Operational Systems Dev	16,062
		S ARABIA	ARMY	RDTE/Other Defense-Operational Systems Dev	332
	CONTRACTOR TOTAL				16,394
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Operational Systems Dev	500
	ASSOCIATED RIGGERS & ERECTORS	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	115
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	356
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	2,233
			NAVY	RDTE/Other Defense-Operational Systems Dev	2,146
	STATE TOTAL				4,379
	BECHDON COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	184
	BERKELEY RESEARCH ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	120
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Defense-Operational Systems Dev	10,486
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	75

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

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other Defense-Operational Systems Dev	\$
AD95 (CONTINUED)							
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		240	
	CAM LOCK UK LIMITED	UNITED KIN	NAVY	RDTE/Other Defense-Operational Systems Dev		315	
	CAMPBELL ENGINEERING INC	Alabama	NAVY	RDTE/Other Defense-Operational Systems Dev		29	
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Defense-Operational Systems Dev		64	
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev		63	
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		300	
	CONSULTANT SPECIALIST INC	Oregon	ARMY	RDTE/Other Defense-Operational Systems Dev		55	
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Operational Systems Dev		5,339	
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Operational Systems Dev		238	
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Operational Systems Dev		1,079	
	EG&G INC	New Mexico	NAVY	RDTE/Other Defense-Operational Systems Dev		170	
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev		1,019	
	ELECTRONICS AUTOMATION CORP	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev		57	
	ENSCO INC	Florida	USAF	RDTE/Other Defense-Operational Systems Dev		196	
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Operational Systems Dev		34	
	EXTERIOR WALL SYSTEMS EWS NC	New York	ARMY	RDTE/Other Defense-Operational Systems Dev		2,140	
	FAAC INCORPORATED	Michigan	NAVY	RDTE/Other Defense-Operational Systems Dev		18,333	
	FAILURE ANALYSIS ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev		50	
	FIBERTEK INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		1,590	
	G R D INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		45	
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev		194	
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other Defense-Operational Systems Dev		187	
						60	
						38	

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

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Other Defense-Operational Systems Dev	266
		Texas	ARMY	RDTE/Other Defense-Operational Systems Dev	198
	CONTRACTOR TOTAL				464
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	421
	GENERAL SVCS ADMINISTRATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	53
	GTE GOVERNMENT SYSTEMS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	414
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Operational Systems Dev	1,555
		Indiana	USAF	RDTE/Other Defense-Operational Systems Dev	103
		New Jersey	USAF	RDTE/Other Defense-Operational Systems Dev	326
		Texas	USAF	RDTE/Other Defense-Operational Systems Dev	471
	CONTRACTOR TOTAL				2,455
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Operational Systems Dev	450
	HUMAN RSRCES RES ORGANIZATION	Vi-ginia	NAVY	RDTE/Other Defense-Operational Systems Dev	224
	INFORMTION SYSTEMS NTRKS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	395
		Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	282
	CONTRACTOR TOTAL				677
	INTEC INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	254
	INTERNATIONAL TECHNGLY SRVCS	Penn	ARMY	RDTE/Other Defense-Operational Systems Dev	50
	ITT CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	282
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	725
	KETRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	937
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	330
	KNOWLEDGE SYSTEMS CONCEPTS	California	USAF	RDTE/Other Defense-Operational Systems Dev	843
		New York	USAF	RDTE/Other Defense-Operational Systems Dev	165

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
	CONTRACTOR TOTAL				
	LARSON ELECTRONICS INC	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	100
					1,108
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Defense-Operational Systems Dev	50
			USAF	RDTE/Other Defense-Operational Systems Dev	38
					872
	STATE TOTAL				910
	LOCKHEED SANDERS INC	N.H.	USAF	RDTE/Other Defense-Operational Systems Dev	50
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	516
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	92
	LORAL CORPORATION	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	3,252
	LSA INC	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	30
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	49
	MATRIX MANAGEMENT GROUP	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev	42
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	1,146
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	300
	MJ PHOTONICS INC	New Jersey	USAF	RDTE/Other Defense-Operational Systems Dev	80
	MNEMONICS INC	Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	250
	MOTOROLA INC	Arizona	ARMY	RDTE/Other Defense-Operational Systems Dev	166
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Operational Systems Dev	520
	NATIONAL SEMICONDUCTOR CORP	California	NAVY	RDTE/Other Defense-Operational Systems Dev	345
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	1,324
	NDI ENGINEERING COMPANY	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	44
	NORTHROP CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	509
			USAF	RDTE/Other Defense-Operational Systems Dev	581
	STATE TOTAL				1,090

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
AD95 (CONTINUED)						
	ORINCON CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev		50
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Operational Systems Dev		250
		Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		175
	CONTRACTOR TOTAL					425
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Operational Systems Dev		574
	PERSONNEL DCSONS RES INSTITUTE	Minnesota	NAVY	RDTE/Other Defense-Operational Systems Dev		93
	PRC INC	Nebraska	USAF	RDTE/Other Defense-Operational Systems Dev		1,090
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev		3,653
	CONTRACTOR TOTAL					4,743
	PURDUE UNIVERCITY	Indiana	NAVY	RDTE/Other Defense-Operational Systems Dev		63
	QUANTICS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		425
	QUESTTECH INC	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev		124
	R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Operational Systems Dev		150
	ROBINSON D G CORP	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev		78
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Operational Systems Dev		80
	RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		851
	SCIENCE APPLICATIONS INTL CORP	California	ARMY USAF	RDTE/Other Defense-Operational Systems Dev RDTE/Other Defense-Operational Systems Dev		69 554
	STATE TOTAL					623
	SECURE CMPTING TECHNOLOGY CORP	Minnesota	USAF	RDTE/Other Defense-Operational Systems Dev		113
	SENSIS CORPORATION	New York	ARMY	RDTE/Other Defense-Operational Systems Dev		58
	SICOM INC	Arizona	USAF	RDTE/Other Defense-Operational Systems Dev		171
	SIGNAL SCIENCE INC	California	USAF	RDTE/Other Defense-Operational Systems Dev		88
	SPARTA INC	California	ARMY	RDTE/Other Defense-Operational Systems Dev		951
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Operational Systems Dev		116

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					

	USAF	RDTE/Other	Defense-Operational	Systems Dev	\$
STATE TOTAL					946
STANFORD UNIVERSITY	NAVY	RDTE/Other	Defense-Operational	Systems Dev	100
STATE UNIVERSITY OF NEW YORK	NAVY	RDTE/Other	Defense-Operational	Systems Dev	128
STRUCTURED SYS & SOFTWARE	ARMY	RDTE/Other	Defense-Operational	Systems Dev	59
SYSTEM SCIENCE APPLICATIONS	NAVY	RDTE/Other	Defense-Operational	Systems Dev	100
SYSTEMS ENGRG & MGT ASSOC	ARMY	RDTE/Other	Defense-Operational	Systems Dev	81
SYSTEMS RES APPLICATIONS CORP	ARMY	RDTE/Other	Defense-Operational	Systems Dev	85
TAU CORPORATION	NAVY	RDTE/Other	Defense-Operational	Systems Dev	50
TECH INTERNATIONAL INC	ARMY	RDTE/Other	Defense-Operational	Systems Dev	26
TRUSTED INFORMATION SYSTEMS	USAF	RDTE/Other	Defense-Operational	Systems Dev	279
TRW INC	NAVY	RDTE/Other	Defense-Operational	Systems Dev	300
UNISYS DEFENSE SYSTEMS INC	NAVY	RDTE/Other	Defense-Operational	Systems Dev	70-
UNITED STATES DEPT OF COMMERCE	NAVY	RDTE/Other	Defense-Operational	Systems Dev	150
	NAVY	RDTE/Other	Defense-Operational	Systems Dev	30
CONTRACTOR TOTAL					180
UNITED STATES DEPT OF ENERGY	NAVY	RDTE/Other	Defense-Operational	Systems Dev	56
	NAVY	RDTE/Other	Defense-Operational	Systems Dev	50
CONTRACTOR TOTAL					106
UNITED TECHNOLOGIES CORP	NAVY	RDTE/Other	Defense-Operational	Systems Dev	89
UNIVERSITY OF CENTRAL FLORIDA	NAVY	RDTE/Other	Defense-Operational	Systems Dev	179
UNIVERSITY OF TENNESSEE	ARMY	RDTE/Other	Defense-Operational	Systems Dev	45
US DEPT OF HEALTH & RESOURCES	NAVY	RDTE/Other	Defense-Operational	Systems Dev	80
VITRO CORPORATION	NAVY	RDTE/Other	Defense-Operational	Systems Dev	2,444

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95	(CONTINUED)				
	VREULS RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	85
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	276
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	122
	XONTECH INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev	150
	R&D TOTAL				179,888
AD96	ADVANCED DECISION SYSTEMS	Virginia	USAF	RDTE/Other Defense-Management & Support	93
	ADVANCED DESIGN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	279
	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Other Defense-Management & Support	50
	ADVANCED MATERIALS INC	Louisiana	USAF	RDTE/Other Defense-Management & Support	53
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Other Defense-Management & Support	439
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Defense-Management & Support	88
	AIREX CORPORATION	N.H.	USAF	RDTE/Other Defense-Management & Support	165
	ANALATOM INC	California	USAF	RDTE/Other Defense-Management & Support	190
	ANDRULIS RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Management & Support	184
	ANRO ENGINEERING INC	Mass	USAF	RDTE/Other Defense-Management & Support	54
	APPLICATIONS RESFARCH CORP	Ohio	ARMY	RDTE/Other Defense-Management & Support	41-
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Other Defense-Management & Support	51
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	ARMY	RDTE/Other Defense-Management & Support	53
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	USAF	RDTE/Other Defense-Management & Support	50
	ARTIFICIAL INTELLIGENCE CORP	Texas	USAF	RDTE/Other Defense-Management & Support	189
	ASSURANCF TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Management & Support	1,090
	AURORA ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support	50
	AUTOMATIX INCORPORATED	New York	USAF	RDTE/Other Defense-Management & Support	50
	BENTON CORP	Penn	NAVY	RDTE/Other Defense-Management & Support	977

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Management & Support	352
	BETAC CORPORATION	Texas	USAF	RDTE/Other Defense-Management & Support	241
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	125
	BOLT BERANEK & NEWMAN INC	Mass	USAF	RDTE/Other Defense-Management & Support	98
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	1,097
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	889
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Management & Support	451
	CAPE COD RESEARCH INC	Mass	USAF	RDTE/Other Defense-Management & Support	280
	CASCADE MICROTECH INC	Oregon	USAF	RDTE/Other Defense-Management & Support	50
	CERAMPHYSICS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	50
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Management & Support	365
	CHEMTECH SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Management & Support	63
	CIM SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Management & Support	46
	CLAMSHALL BUILDINGS INC	California	ARMY	RDTE/Other Defense-Management & Support	4,130
	COCKERHAM JOHN M & ASSOCIATES	Alabama	ARMY	RDTE/Other Defense-Management & Support	452
	COLORADO RESEARCH LABORATORY	Colorado	USAF	RDTE/Other Defense-Management & Support	50
	CONSOLVE INC	Mass	ARMY	RDTE/Other Defense-Management & Support	295
	CONTINENTAL SYSTEMS TECHNOLOGY	Georgia	ARMY	RDTE/Other Defense-Management & Support	47
	CORDRAY INTERNATIONAL CORP	Colorado	USAF	RDTE/Other Defense-Management & Support	75
	COVALENT ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Management & Support	54
	CREARE INC	N.H.	USAF	RDTE/Other Defense-Management & Support	500
	CREE RESEARCH INC	N Carolina	USAF	RDTE/Other Defense-Management & Support	73
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Management & Support	97
	DAMACKOS INC	Penn	ARMY	RDTE/Other Defense-Management & Support	49

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(AMOUNTS IN THOUS NDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	DEVELOPMENTAL SCIENCES CORP	California	ARMY	RDTE/Other Defense-Management & Support	565
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Management & Support	57
	DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Management & Support	273
	E I C LABORATORY INC	Maryland	USAF	RDTE/Other Defense-Management & Support	190
		Mass	USAF	RDTE/Other Defense-Management & Support	60
	CONTRACTOR TOTAL				250
	E TEK DYNAMICS INC	California	USAF	RDTE/Other Defense-Management & Support	167
		Florida	USAF	RDTE/Other Defense-Management & Support	175
	CONTRACTOR TOTAL				342
	EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Management & Support	113
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Management & Support	61
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Management & Support	393
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Management & Support	49
		New Mexico	ARMY	RDTE/Other Defense-Management & Support	47
	CONTRACTOR TOTAL				96
	ELECTRONICS DEVELOPMENT CORP	Maryland	USAF	RDTE/Other Defense-Management & Support	55
	ENGINEERING RESEARCH &	Tennessee	USAF	RDTE/Other Defense-Management & Support	48
	ES INDUSTRIES	New Jersey	USAF	RDTE/Other Defense-Management & Support	119
	FLOW INDUSTRIES INC	Washington	USAF	RDTE/Other Defense-Management & Support	165
	FLUID JET ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Management & Support	109
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Management & Support	193
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support	215
		Ohio	USAF	RDTE/Other Defense-Management & Support	54
	CONTRACTOR TOTAL				269

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	FUTURE TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	\$ 50
	GENERAL ENG & SYS ANALYSIS CO	Maryland	USAF	RDTE/Other Defense-Management & Support	236
	GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Management & Support	186
	GEO CENTERS INC	Mass	ARMY	RDTE/Other Defense-Management & Support	210-
			NAVY	RDTE/Other Defense-Management & Support	882
	STATE TOTAL				672
	GILLIAM MCKINLEY ENG	California	USAF	RDTE/Other Defense-Management & Support	50
	GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	101
	HITITE MICROWAVE CORPORATION	Mass	ARMY	RDTE/Other Defense-Management & Support	52
	HORINE ENGINEERS INC	California	ARMY	RDTE/Other Defense-Management & Support	53
	I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	500
	IMAGING & SENSING TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support	190
	INNOVATIVE CONFIGURATION INC	California	USAF	RDTE/Other Defense-Management & Support	50
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Defense-Management & Support	73,468
	INTEGRATED SCIENCES	Oklahoma	ARMY	RDTE/Other Defense-Management & Support	50
	INTERMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support	1,092
	INTERNATIONAL SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	80
	INTERSPEC INC	Penn	ARMY	RDTE/Other Defense-Management & Support	121
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	430
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Other Defense-Management & Support	201
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Management & Support	215
	K M S FUSION INC	Michigan	USAF	RDTE/Other Defense-Management & Support	88
	KAHN HARRY J ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	284
	KETRON INC	Penn	NAVY	RDTE/Other Defense-Management & Support	50
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Management & Support	40

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AD96 (CONTINUED)					
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Defense-Management & Support	\$ 263
	KNOWLEDGE BASED SYSTEM	Texas	USAF	RDTE/Other Defense-Management & Support	300
	KSA TECHNICAL	Ohio	USAF	RDTE/Other Defense-Management & Support	26
	KTAADN INC	Mass	USAF	RDTE/Other Defense-Management & Support	50
	LASERGENICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	49
	LITHIUM ENERGY ASSOC INC	Mass	USAF	RDTE/Other Defense-Management & Support	164
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Management & Support	70
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	100
	MADEN TECH CONSULTING INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	4,729
	MATLS RES & COMPUTER	Arizona	NAVY	RDTE/Other Defense-Management & Support	150
	MDA ENGINEERING	Texas	USAF	RDTE/Other Defense-Management & Support	123
	MEMBRANE TECHNOLOGY & RESEARCH	California	USAF	RDTE/Other Defense-Management & Support	70
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,221
	METROLASER	California	USAF	RDTE/Other Defense-Management & Support	50
	MICROSCOPY RESEARCH LABS	New Jersey	NAVY	RDTE/Other Defense-Management & Support	375
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Management & Support	32
		USAF	USAF	RDTE/Other Defense-Management & Support	236
	STATE TOTAL				268
	NIGHT VISION CORPORATION	Illinois	USAF	RDTE/Other Defense-Management & Support	500
	OPTIVISION INC	California	USAF	RDTE/Other Defense-Management & Support	53
	ORTEL CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	130
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	70
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	250
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other Defense-Management & Support	239

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AD96 (CONTINUED)					
	PROGRESSIVE LRNG UNVSL MGMT	Maryland	USAF	RDTE/Other Defense-Management & Support	180
	PWR INC	Hawaii	NAVY	RDTE/Other Defense-Management & Support	48
	QUADRA ENGINEERING INC	Mass	NAVY	RDTE/Other Defense-Management & Support	250
	QUANTEX CORPORATION	Maryland	USAF	RDTE/Other Defense-Management & Support	100
	QUANTUM ELECTRONICS TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support	273
	QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Management & Support	460
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	279
	RAND CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	51,428
	REAL TIME INTELLIGENT	Mass	USAF	RDTE/Other Defense-Management & Support	190
	REMECH INC	Alabama	USAF	RDTE/Other Defense-Management & Support	52
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Other Defense-Management & Support	156
	RESEARCH PARTNERSHIP	California	USAF	RDTE/Other Defense-Management & Support	66
	RESOURCE TECHNOLOGIES GROUP	W Virginia	USAF	RDTE/Other Defense-Management & Support	125
	ROCHESTER PHOTONICS CORP	New York	ARMY	RDTE/Other Defense-Management & Support	50
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Other Defense-Management & Support	60
	SABBAGH ASSOCIATES INC	Indiana	ARMY	RDTE/Other Defense-Management & Support	103
	SAG CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	50
	SARCOS INC	Utah	ARMY	RDTE/Other Defense-Management & Support	50
	SAVANNAH RESEARCH ASSOC	Virginia	USAF	RDTE/Other Defense-Management & Support	50
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Management & Support	50
	SCIENCE & APPL TECH	California	USAF	RDTE/Other Defense-Management & Support	59
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Defense-Management & Support	2,244
	CONTRACTOR TOTAL	Virginia	ARMY	RDTE/Other Defense-Management & Support	200
					2,444

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AD96 (CONTINUED)					
	SCITEQ ELECTRONICS INC	California	ARMY	RDTE/Other Defense-Management & Support	67
	SEARCH TECHNOLOGY INC	Georgia	USAF	RDTE/Other Defense-Management & Support	50
	SEMCOR INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support	831
	SENTEL CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support	1,958
	SILHOUETTE TECHNOLOGY INC	New Jersey	USAF	RDTE/Other Defense-Management & Support	200
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Management & Support	140
	SPACE TECH CORP	Colorado	USAF	RDTE/Other Defense-Management & Support	49
	SPARTA INC	California	USAF	RDTE/Other Defense-Management & Support	50
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Management & Support	2,950
	SRS TECHNOLOGIES	Alabama	USAF	RDTE/Other Defense-Management & Support	50
	STRESS TECH INC	New York	USAF	RDTE/Other Defense-Management & Support	430
	STRUCTURED SYS & SOFTWARE	California	ARMY	RDTE/Other Defense-Management & Support	50
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Other Defense-Management & Support	119
	SYSCON CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	117-
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	45
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Management & Support	116
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Management & Support	52
	TECHNOLOGY SYSTEMS INC	Maine	USAF	RDTE/Other Defense-Management & Support	87
	TETRA CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Management & Support	51
	TOYON RESEARCH CORP	California	USAF	RDTE/Other Defense-Management & Support	50
	TXS INC	Texas	USAF	RDTE/Other Defense-Management & Support	160
	UCE INC	Conn	ARMY	RDTE/Other Defense-Management & Support	40
	ULTRAMET	California	NAVY	RDTE/Other Defense-Management & Support	49
		USAF	RDTE/Other Defense-Management & Support	49	
	STATE TOTAL				98

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	170
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	102
	UNIVERSAL SENSORS INC	Louisiana	ARMY	RDTE/Other Defense-Management & Support	50
	UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Other Defense-Management & Support	130
	UNIVERSITY OF ROCHESTER	New York	USAF	RDTE/Other Defense-Management & Support	250
	VECTOR RESEARCH INC	Michigan	USAF	RDTE/Other Defense-Management & Support	51
	VISTA TECHNOLOGIES INC	Illinois	USAF	RDTE/Other Defense-Management & Support	253
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Management & Support	138
	WEST COAST RESEARCH CORP	California	USAF	RDTE/Other Defense-Management & Support	50
	XACTON CORPORATION	Arizona	USAF	RDTE/Other Defense-Management & Support	64
	XONTECH INC	California	USAF	RDTE/Other Defense-Management & Support	54
	ZALLEN INTERNATIONAL	New Mexico	USAF	RDTE/Other Defense-Management & Support	50
	R&D TOTAL				170,021
AE21	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Product or Srvc Improvement-Basic Res	50
	ENGINEERING & ECONOMICS RES	Virginia	USAF	RDTE/Product or Srvc Improvement-Basic Res	218
	MANAGEMENT CONSULTING & RES	Virginia	USAF	RDTE/Product or Srvc Improvement-Basic Res	1,026
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Product or Srvc Improvement-Basic Res	4,896
	R&D TOTAL				6,190
AE22	TECHNICAL ENVIRONMENT CONTROL	Maryland	ARMY	RDTE/Product or Srvc Improvement-Explor De	128
AE23	RAINHART CO	Louisiana	USAF	RDTE/Product or Srvc Improvement-Advanced	49
AE25	EDISON INDUSTRIAL SYSTEMS CTR	Ohio	USAF	RDTE/Product or Srvc Improvement-Op System	58
AE31	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Manufacturing Technology-Basic Resear	340
AE33	UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev	19,896
AE34	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Manufacturing Technology-Engr Develop	696
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Manufacturing Technology-Engr Develop	195

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AE35	ALLIED SIGNAL INC	Arizona	USAF	RDTE/Manufacturing Technology-Op Systems D	891
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	100
	APPLIED SOLAR ENERGY CORP	California	USAF	RDIE/Manufacturing Technology-Op Systems D	923
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	638
	AUTOMATED PRECISION INC	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	245
	AVCO CORPORATION	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	105
	BELL HELICOPTER TEXTRON INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	1,335
	BOEING COMPANY THE	Washington	USAF	RDTE/Manufacturing Technology-Op Systems D	3,000
	CENTRAL STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,090
	CHESAPEAKE LASER SYSTEMS INC	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	267
	CINCINNATI MILACRON MKTG CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	306
	CLEMSON UNIVERSITY	S Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	233
	CORP FOR OPEN SYSTEM	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	1,060
	DRAVO CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	125
	EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	2,400
	EXTRUDE HONE CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	177-
	FASHION INST OF TECHNOLOGY	New York	DLA	RDTE/Manufacturing Technology-Op Systems D	345
	FASTMAN INC	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	41
	FLORIDA INTERNATIONAL	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	316
	GENERAL ATOMICS	California	USAF	RDTE/Manufacturing Technology-Op Systems D	38
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,069
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	400
	GEORGIA TECH RESEARCH CORP	Georgia	DLA	RDTE/Manufacturing Technology-Op Systems D	2,417
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Manufacturing Technology-Op Systems D	842
					4,713

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE35 (CONTINUED)					
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	70
	INDUSTRIAL TCHNOLOGY INSTITUTE	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	312
	INTERMETRICS INC	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	100
	LAWRENCE ASSOCIATES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	20,517
	LITTON SYSTEMS INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	250
	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,345
	MANUFACTURING LABORATORIES	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	284
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Op Systems D	7,250
	MCDONNELL AIRCRAFT COMPANY	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	400
	MCDONNELL DOUGLAS MSL SYS CO	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	415
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Manufacturing Technology-Op Systems D	713
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	69
	MICROELECTRONICS	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	800
	MINNESOTA MINING & MFG CO	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D	1,200
	NATIONAL SEMICONDUCTOR CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	225
	NORTH CAROLINA A&T UNIV	N Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	144
	NORTHROP CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,748
		Illinois	USAF	RDTE/Manufacturing Technology-Op Systems D	1,600
	CONTRACTOR TOTAL				6,348
	ONTEK CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	300
	R J O ENTERPRISES INC	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	233
		Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	150
	CONTRACTOR TOTAL				383
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	601

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE35 (CONTINUED)					
	RUTGERS THE STATE UNIVERSITY	New Jersey	DLA	RDTE/Manufacturing Technology-Op Systems D	
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	2,045
	SOFTTECH INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	3,152
	SOUTH CAROLINA STATE OF	S Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	665
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	195
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	563
	TEXAS INSTRUMENTS INC	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	192
		Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	16,420
	CONTRACTOR TOTAL				16,612
	TEXAS INSTRUMENTS WESTINGHOUSE JV	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	3,685
	TRW INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,044
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	4,041
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,749
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	93
	USB I CO	Alabama	USAF	RDTE/Manufacturing Technology-Op Systems D	700
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	500
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	305
	CONTRACTOR TOTAL				805
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	328
	R&D TOTAL				102,234
	AE36 MSNW INC	California	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	321
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	1,456
	R&D TOTAL				1,777
	AE92 WEFA INC	Penn	ARMY	RDTE/Other Econ Growth&Productivity-Explor	91

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AF11	LA SALLE UNIVERSITY	Penn	NAVY	RDTE/Education-Basic Research	77
	PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Education-Basic Research	89
	R&D TOTAL				166
AF12	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Education-Exploratory Development	435
AF15	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Education-Operational Systems Develop	311
AF16	MCGOWEN SA	PANAMA	ARMY	RDTE/Education-Management & Support	1,122
AG12	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Energy - Coal - Exploratory Developme	131
AG21	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Energy - Gas - Basic Research	42
AG22	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Energy - Gas - Exploratory Developmen	28
AG31	WELCH & HOWELL DRILLING INC	California	NAVY	RDTE/Energy - Geothermal - Basic Research	473
AG72	ARCHITECTURAL ENERGY CORP	Colorado	ARMY	RDTE/Energy - Solar - Exploratory Developm	60
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Energy - Solar - Exploratory Developm	558
	R&D TOTAL				618
AG92	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Other Energy - Exploratory Developmen	255
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Energy - Exploratory Developmen	207
	R&D TOTAL				462
AG93	US DOE	Tennessee	NAVY	RDTE/Other Energy - Advanced Development	40
AH11	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Pollution Cntl & Abatement-Basic Rese	151
	CORNELL UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	195
	R&D TOTAL				346
AH12	BAKER HUGHES INCORPORATED	Utah	NAVY	RDTE/Pollution Cntl & Abatement-Explorator	53
	CLARKSON UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Explorator	36
	COE TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	1,017
	GENERAL ELECTRIC COMPANY	Florida	USAF	RDTE/Pollution Cntl & Abatement-Explorator	408
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	78

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AH12 (CONTINUED)					
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Pollution Cntl & Abatement-Explorer	420
	SONOMA RESEARCH CO	California	NAVY	RDTE/Pollution Cntl & Abatement-Explorer	36
	SYMBIOTECH INCORPORATED	Conn	NAVY	RDTE/Pollution Cntl & Abatement-Explorer	329
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Pollution Cntl & Abatement-Explorer	627
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Pollution Cntl & Abatement-Explorer	1,459
	R&D TOTAL				4,463
	AH16 SANITECH INC	Ohio	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	118
	AH21 BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Air Pollution-Basic Research	900
	AH26 FOSTER MILLER INC	Mass	USAF	RDTE/Air Pollution-Management & Support	273
	WINTTEC INC	Florida	USAF	RDTE/Air Pollution-Management & Support	190
	R&D TOTAL				463
	AH31 MICHIGAN TECHNICAL UNIVERSITY	Michigan	USAF	RDTE/Water Pollution-Basic Research	88
	SRI INTERNATIONAL	California	USAF	RDTE/Water Pollution-Basic Research	215
	R&D TOTAL				303
	AH33 LYNNTECH INC	Texas	USAF	RDTE/Water Pollution-Advanced Development	50
	AH46 A & L SHATTO INC	Maryland	ARMY	RDTE/Noise Pollution-Management & Support	54
	AH91 ELECTROSYNTHESIS COMPANY INC	New York	USAF	RDTE/Other Environmental Protection-Basic	52
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Environmental Protection-Basic	59
	GENERAL ATOMICS	California	USAF	RDTE/Other Environmental Protection-Basic	425
	MC CLENAHAN & HOPKINS ASSOC	California	NAVY	RDTE/Other Environmental Protection-Basic	268
	N G S ASSOCIATES INC	Mass	USAF	RDTE/Other Environmental Protection-Basic	32
	R&D TOTAL				836
	AH92 ADVANCED SCIENCES INC	Florida	USAF	RDTE/Other Environmental Protection-Explor	638
	INTERNATIONAL TECHNOLOGY CORP	Maryland	ARMY	RDTE/Other Environmental Protection-Explor	241

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AH92 (CONTINUED)					
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Other Environmental Protection-Explor	100
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Other Environmental Protection-Explor	315
	WESTON ROY F INC	Penn	ARMY	RDTE/Other Environmental Protection-Explor	378
	R&D TOTAL				1,672
	AH94 BIOTRONICS TECHNOLOGIES INC	Wisconsin	USAF	RDTE/Other Environmental Protection-Engr D	227
	TETRA TECH INC	California	USAF	RDTE/Other Environmental Protection-Engr D	150-
	R&D TOTAL				77
	AH95 BARTON TECHNOLOGIES INC	Georgia	USAF	RDTE/Other Environmental Protection-Op Sys	43
	VIDEO INDUSTRIAL SERVICE INC	Georgia	USAF	RDTE/Other Environmental Protection-Op Sys	74
	R&D TOTAL				117
	AH96 ENVIROGEN INC	New Jersey	USAF	RDTE/Other Environmental Protection-Mgmt &	50
	ENVIROSPACE SOFTWARE	Florida	USAF	RDTE/Other Environmental Protection-Mgmt &	50
	INRAD INC	New Jersey	USAF	RDTE/Other Environmental Protection-Mgmt &	51
	M L ENERGIA INC	New Jersey	USAF	RDTE/Other Environmental Protection-Mgmt &	50
	NATIONAL DEFENSE ENVMTL CORP	Penn	ARMY	RDTE/Other Environmental Protection-Mgmt &	2,500
	SCHMIDT INSTRUMENTS	Texas	USAF	RDTE/Other Environmental Protection-Mgmt &	53
	R&D TOTAL				2,754
	AJ11 ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Physical Sciences - Basic Research	61
	AEDAR CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research	58
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	45
	ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	176
	ALLIED SIGNAL INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	189
	ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	170
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	375

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AJ11 (CONTINUED)

AMRON CORPORATION	Virginia	NAVY	RDTE/Physical Sciences - Basic Research	\$	25
ANRO ENGINEERING INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		81
ANTECH SERVICES INC	California	ARMY	RDTE/Physical Sciences - Basic Research		50
APPLIED ANALYSIS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		239
APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Physical Sciences - Basic Research		134
ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences - Basic Research		701
ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research		215
ASTRON CORPORATION	Virginia	USAF	RDTE/Physical Sciences - Basic Research		195
ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences - Basic Research		673
ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research		300
	Virginia	USAF	RDTE/Physical Sciences - Basic Research		71
CONTRACTOR TOTAL					371
AWARE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		97
BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research		32 -
BELL COMMUNICATIONS RESEARCH	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		239
BERKELEY APPLIED SCENCES ENGRG	California	USAF	RDTE/Physical Sciences - Basic Research		148
BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Basic Research		4,592
BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Basic Research		2,063
BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research		831
BROADCOM INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		81
CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Physical Sciences - Basic Research		129
CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Basic Research		41
CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research		1,359
CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		69

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Physical Sciences - Basic Research	50
	CANETICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	162
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	48
	CITY UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	858
	CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Physical Sciences - Basic Research	47
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Basic Research	48
	COGNITECH INC	California	USAF	RDTE/Physical Sciences - Basic Research	409
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	154
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Physical Sciences - Basic Research	100
			USAF	RDTE/Physical Sciences - Basic Research	631
					731
				STATE TOTAL	
	COMFOCUS CORP	California	USAF	RDTE/Physical Sciences - Basic Research	47
	COMPUTATIONAL MECHANICS CORP	Texas	USAF	RDTE/Physical Sciences - Basic Research	163
	CONSORTIO PER LINCUMENTO STUD	ITALY	ARMY	RDTE/Physical Sciences - Basic Research	33
	CORNELL UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	708
	CRYSTAL SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	47
	DARTMOUTH COLLEGE	N.H.	USAF	RDTE/Physical Sciences - Basic Research	60
	DATA SECURITY INC.	Mass	USAF	RDTE/Physical Sciences - Basic Research	47
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	285
	DEXTER CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	30
	DIGITAL INSTRUMENTS INC	California	USAF	RDTE/Physical Sciences - Basic Research	53
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	60
	E E G SYSTEMS LABORATORY INC	California	USAF	RDTE/Physical Sciences - Basic Research	162
	E I C LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	150

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	ELECTRONIC MATERIALS ENGRNG				
	ENSCO INC	California	USAF	RDTE/Physical Sciences - Basic Research	55
	EPIR LTD	Virginia	USAF	RDTE/Physical Sciences - Basic Research	465
	EPITAXX INC	Illinois	USAF	RDTE/Physical Sciences - Basic Research	437
	EVI INCORPORATED	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	126
	FALCON COMMUNICATIONS CORP	Maryland	ARMY	RDTE/Physical Sciences - Basic Research	53
	FLORIDA A & M UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	53
	GENERAL ATOMICS	Florida	USAF	RDTE/Physical Sciences - Basic Research	277
	GENERAL ELECTRIC COMPANY	California	USAF	RDTE/Physical Sciences - Basic Research	888
		New Jersey	USAF	RDTE/Physical Sciences - Basic Research	130
		New York	USAF	RDTE/Physical Sciences - Basic Research	592
		Ohio	USAF	RDTE/Physical Sciences - Basic Research	114
	CONTRACTOR TOTAL				836
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	256
		Mass	USAF	RDTE/Physical Sciences - Basic Research	55
	CONTRACTOR TOTAL				311
	GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	452
	GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Physical Sciences - Basic Research	32
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research	99
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Basic Research	180
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	63
	HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	38
	HORIZONS TECHNOLOGY INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	46
	HOWARD UNIVERSITY	D.C.	USAF	RDTE/Physical Sciences - Basic Research	525
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Physical Sciences - Basic Research	157

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Physical Sciences - Basic Research	\$
AJ11 (CONTINUED)					STATE TOTAL		
	IBIS TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research		550	
	ILLINOIS SUPERCONDUCTOR CORP	Illinois	USAF	RDTE/Physical Sciences - Basic Research		707	
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research		339	
	INTERSCIENCE INC	New York	ARMY	RDTE/Physical Sciences - Basic Research		41	
	INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Basic Research		3,939	
	JACKSON STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research		48	
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Basic Research		175	
	KESTREL INSTITUTE	California	USAF	RDTE/Physical Sciences - Basic Research		75	
	KOPIN CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research		328	
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Physical Sciences - Basic Research		35	
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Basic Research		149	
	LOUISIANA STATE UNIV SYSTEM	Louisiana	USAF	RDTE/Physical Sciences - Basic Research		165	
	MAN LABS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		286	
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research		150	
	MARTIN SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		82	
	MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Basic Research		202	
	MATIS INC	Georgia	USAF	RDTE/Physical Sciences - Basic Research		48	
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research		544	
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Physical Sciences - Basic Research		54	
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Physical Sciences - Basic Research		155	
	MEHARRY MEDICAL COLLEGE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research		129	
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Physical Sciences - Basic Research		27	
						308	
						283	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	MICROEXPERT SYSTEMS INC	California	NAVY	RDTE/Physical Sciences - Basic Research	50
	MINNESOTA MINING & MFG CO	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	38
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	156
		N.H.	USAF	RDTE/Physical Sciences - Basic Research	80
	CONTRACTOR TOTAL				236
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research	67
	MULTISPEC CORPORATION	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	126
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Basic Research	3,323
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	1,108
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	285
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	68
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Basic Research	158
	NORTH AMERICAN WEATHER CONS	Utah	USAF	RDTE/Physical Sciences - Basic Research	46
	NORTH CAROLINA A&T UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	179
	NORTH CAROLINA CENTRAL UNIVER	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	258
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	NORTHROP CORPORATION	California	NAVY	RDTE/Physical Sciences - Basic Research	117
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Basic Research	206
	NOVA UNIVERSITY INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	26
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Basic Research	92
	OPTRA INC	Mass	NAVY	RDTE/Physical Sciences - Basic Research	58
	ORION INTL TECHNOLOGIES	Mass	USAF	RDTE/Physical Sciences - Basic Research	145
	P C O INC	California	USAF	RDTE/Physical Sciences - Basic Research	100
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	PHOTON RESEARCH ASSOCIATES	Mass	USAF	RDTE/Physical Sciences - Basic Research	68
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	49
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	697
	POLYTECHNIC UNIV OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	204
	PRINCETON SCIENTIFIC INSTRS	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	60
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	145
	PURDUE UNIVERSITY	Indiana	USAF	RDTE/Physical Sciences - Basic Research	94
	R D P INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	561
	RADIATION MONITORING DEVICES	Mass	USAF	RDTE/Physical Sciences - Basic Research	53
	RADIX SYSTEMS INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	70
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Basic Research	315
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Physical Sciences - Basic Research	8,633
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	74
	RESOURCE MANAGEMENT ASSOC	California	USAF	RDTE/Physical Sciences - Basic Research	49
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	300
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research	324
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	268
	SAPHIKON INC	N.H.	USAF	RDTE/Physical Sciences - Basic Research	44
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	225
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Basic Research	324
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	188
	SELF CORP	California	USAF	RDTE/Physical Sciences - Basic Research	115
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Physical Sciences - Basic Research	1,684
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	102

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Physical Sciences - Basic Research	500
	SPACE ENVIROMENT CORPORATION	Utah	USAF	RDTE/Physical Sciences - Basic Research	150
	SPACE SCIENCES CORP	New York	USAF	RDTE/Physical Sciences - Basic Research	280
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	299
		Virginia	USAF	RDTE/Physical Sciences - Basic Research	145
					444
	CONTRACTOR TOTAL				
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	826
	SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	460
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Basic Research	2,173
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Physical Sciences - Basic Research	71
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Basic Research	2,398
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	777
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Basic Research	174
	SYNETICS CORPORATION	Mass	ARMY	RDTE/Physical Sciences - Basic Research	50
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Basic Research	534
	TACAN CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	247
	TECHNOLOGY DEVELOPMENT CORP	Missouri	NAVY	RDTE/Physical Sciences - Basic Research	510
	TECHNOLOGY INTERNATIONAL CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	50
	TEXAS A & M RESEARCH FDN	Texas	USAF	RDTE/Physical Sciences - Basic Research	139
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Basic Research	128
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Physical Sciences - Basic Research	99
	TRW INC	California	USAF	RDTE/Physical Sciences - Basic Research	378
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	92
	TUSKEGEE UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	55

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AJ11 (CONTINUED)

UNITED KINGDOM AUTOMIC	UNITED KIN	USAF	RDTE/Physical Sciences - Basic Research	\$	512
UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Physical Sciences - Basic Research		40
	Conn	USAF	RDTE/Physical Sciences - Basic Research		801
	Florida	USAF	RDTE/Physical Sciences - Basic Research		394
CONTRACTOR TOTAL					1,235
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research		2,124
UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Basic Research		30
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Basic Research		1,102
UNIVERSITY OF ARKANSAS	Arkansas	USAF	RDTE/Physical Sciences - Basic Research		110
UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research		463 3,913
STATE TOTAL					4,376
UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Physical Sciences - Basic Research		44
UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Physical Sciences - Basic Research		479
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research		35
UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Physical Sciences - Basic Research		220
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Physical Sciences - Basic Research		433
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Physical Sciences - Basic Research		715
UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Basic Research		792
UNIVERSITY OF MARYLAND	D.C.	NAVY	RDTE/Physical Sciences - Basic Research		30
UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Basic Research		380
UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Basic Research		440
UNIVERSITY OF MINNESOTA	Minnesota	USAF	RDTE/Physical Sciences - Basic Research		266
UNIVERSITY OF MISSISSIPPI	Miss	USAF	RDTE/Physical Sciences - Basic Research		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	UNIVERSITY OF NEVADA SYSTEM	Nevada	USAF	RDTE/Physical Sciences - Basic Research	42
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Basic Research	564
	UNIVERSITY OF PUERTO RICO	Puerto Rico	USAF	RDTE/Physical Sciences - Basic Research	90
	UNIVERSITY OF RHODE ISLAND	Rhode Island	USAF	RDTE/Physical Sciences - Basic Research	106
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Basic Research	2,052
	UNIVERSITY OF TENNESSEE	Tennessee	USAF	RDTE/Physical Sciences - Basic Research	110
	UNIVERSITY OF TEXAS ARLINGTON	Texas	USAF	RDTE/Physical Sciences - Basic Research	50
	UNIVERSITY OF TEXAS AT AUSTIN	Texas	USAF	RDTE/Physical Sciences - Basic Research	716
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research	92
	UNIVERSITY OF VIRGINIA	Virginia	USAF	RDTE/Physical Sciences - Basic Research	71
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Physical Sciences - Basic Research	188
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Basic Research	159
	UTAH BIORESEARCH INC	Utah	USAF	RDTE/Physical Sciences - Basic Research	100
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Basic Research	701
	UTD INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	139
	VIASAT INC	California	USAF	RDTE/Physical Sciences - Basic Research	98
	VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	USAF	RDTE/Physical Sciences - Basic Research	134
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	175
	WAGNER DANIEL H ASSOCIATES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	208
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	486
	WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Basic Research	123
	XEROX CORP	California	USAF	RDTE/Physical Sciences - Basic Research	202
	YALE UNIVERSITY	Conn	NAVY	RDTE/Physical Sciences - Basic Research	83
	R&D TOTAL				82,970

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	215
	AEROSPACE TECHNOLOGY COMPANY	Virginia	NAVY	RDTE/Physical Sciences - Exploratory Devel	44
	ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	310
	APPLIED MCRWAVE PLSMA CONCEPTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel	245
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	300
	ASSURANCE TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	519
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	351
	AUTOMETRIC INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	451
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	800
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	911
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	40
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Exploratory Devel	120
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	3,260
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Physical Sciences - Exploratory Devel	175
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	31
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	266
	CERAMATEC INC	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	187
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	COGNITIVE SYSTEMS INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	759
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Exploratory Devel	40
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	139
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	70
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	457

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ12 (CONTINUED)					
	DEFENSE GROUP INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	\$ 49
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Physical Sciences - Exploratory Devel	48
	FAST MATHEMATICAL ALGORITHMS	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	133
	FRONTIER TECHNOLOGIES CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	49
	GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	3,233
	HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Exploratory Devel	480
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	306
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	85
	K C RESEARCH	Colorado	USAF	RDTE/Physical Sciences - Exploratory Devel	49
	LASER PHOTONICS TECHNOLOGY INC	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Exploratory Devel	456
	LORAL CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	492
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	945
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	647
	MASSACHUSETTS TECHNOLOGICAL LAB	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	232
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	127
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Physical Sciences - Exploratory Devel	119
	MISSION GORGE RANGE CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel	1,672
	MOSES HARRY E APPLIMATH CO	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	152
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Physical Sciences - Exploratory Devel	101
	NORTH CAROLINA STATE UNIV	N Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	35
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	698

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	350
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Exploratory Devel	222
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Physical Sciences - Exploratory Devel	61
	OREGON STATE UNIVERSITY	Oregon	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	PACIFIC SIERRA RESEARCH CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	140
	PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	420
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	79
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Physical Sciences - Exploratory Devel	90
	RADEX INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	171
	RAYTHEON COMPANY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	165
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	RESEARCH SUPPORT INSTRUMENTS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	438
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	1,097
	ROYAL NORWEGION COUNCIL	NORWAY	USAF	RDTE/Physical Sciences - Exploratory Devel	353
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Exploratory Devel	773
		Maryland	NAVY	RDTE/Physical Sciences - Exploratory Devel	100
	CONTRACTOR TOTAL				873
	S S G INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	162
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	591
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	639
	SOUTHEASTN CTR ELECTR ENG ED	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	575
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	226
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	139

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ12 (CONTINUED)					
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	\$ 986
	TECHNOLOGY COMMUNCATN INTL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	170
	ULTRAMET	California	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	115
	UNIV OF WARWICK	UNITED KIN	ARMY	RDTE/Physical Sciences - Exploratory Devel	50
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel	459
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	UNIVERSITY OF EDINBURG	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	UNIVERSITY OF IOWA THE	Iowa	USAF	RDTE/Physical Sciences - Exploratory Devel	155
	UNIVERSITY OF MARYLAND	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	410
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	410
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	63
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	UNIVERSITY OF TEXAS AT DALLAS	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel	9,143
		Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	225
	CONTRACTOR TOTAL				9,368
	UNIVERSITY OF UTAH	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	84
	UNIVERSITY OF VERMONT	Vermont	USAF	RDTE/Physical Sciences - Exploratory Devel	98
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Exploratory Devel	30
	UNIVERSITY OF WYOMING	Wyoming	USAF	RDTE/Physical Sciences - Exploratory Devel	30
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	6,807
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	27
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	90

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel	117
	YAP ANALYTICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	R&D TOTAL				275
					47,343
AJ13	APPLIED SCIENCE & TECHNOLOGY	Mass	NAVY	RDTE/Physical Sciences - Advanced Developm	50
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	316
	ARGOSYSTEMS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	87
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	114
	AVCON ADVANCED CONTROLS TECH	California	NAVY	RDTE/Physical Sciences - Advanced Developm	50
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	177
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	145
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	526
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	350
	CONDUCTUS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	130
	CRAMER H E COMPANY INC	Utah	ARMY	RDTE/Physical Sciences - Advanced Developm	40
	CREARE INC	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm	232
	CRYO POWER ASSOCIATES	New Mexico	USAF	RDTE/Physical Sciences - Advanced Developm	266
	E I C LABORATORY INC	Mass	NAVY	RDTE/Physical Sciences - Advanced Developm	66
	IEK DYNAMICS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	50
	EDGE TECH INC	Indiana	NAVY	RDTE/Physical Sciences - Advanced Developm	57
	ELECTRO OPTEK CORPORATION	California	NAVY	RDTE/Physical Sciences - Advanced Developm	50
	ELISRA ELECTRONIC SYSTEMS LTD	ISRAEL	USAF	RDTE/Physical Sciences - Advanced Developm	100
	FIELD M D COMPANY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	49
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Physical Sciences - Advanced Developm	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AJ13 (CONTINUED)

GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	\$	316
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Advanced Developm		60
MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		135
MCDONNELL DOUGLAS CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm		1,401
MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm		250
NATIONAL CENTRE TRIBOLOGY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm		165
NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		111
NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Advanced Developm		182
OPTICAL TECHNOLOGIES INC	W Virginia	NAVY	RDTE/Physical Sciences - Advanced Developm		59
OPTIVISION INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		175
PACIFIC APPLIED RESEARCH INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		221
PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		600
PEMCO AEROPLEX INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		150
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		100
R J O ENTERPRISES INC	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm		222
RMA AEROSPACE CO INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		97
RMS TECHNOLOGIES INCORPORATED	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		607
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm		320
S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm		124
SIERRA MONOLITHICS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		50
SPACE DATA CORPORATION	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm		562
SPACE POWER INCORPORATED	California	USAF	RDTE/Physical Sciences - Advanced Developm		127
SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		294
STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Advanced Developm		369

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	537
	TECHNICAL ENGRSERVICESX D	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	50
	TEXTRON INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	426
	THIN FILM CONCEPTS INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	50
	UNIAX CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm	51
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	682
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Advanced Developm	134
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	658
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	213
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Advanced Developm	400
	WENTWORTH INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	919
	R&D TOTAL				13,722
AJ14	ANALYTIC SERVICES INC	Virginia	USAF	RDTE/Physical Sciences - Engineering Devel	26,610
	BALL CORPORATION	Texas	USAF	RDTE/Physical Sciences - Engineering Devel	159
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Engineering Devel	258
	R&D TOTAL				27,027
AJ15	M/A COM INC	Mass	ARMY	RDTE/Physical Sciences - Operational Syste	420
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Physical Sciences - Operational Syste	36
	R&D TOTAL				456
AJ16	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Physical Sciences - Management & Supp	49
	ATOM SCIENCES INC	Tennessee	USAF	RDTE/Physical Sciences - Management & Supp	96-
	AUTOMATIX INCORPORATED	Mass	NAVY	RDTE/Physical Sciences - Management & Supp	50
	C V LARDEGRO	UNITED KIN	ARMY	RDTE/Physical Sciences - Management & Supp	247
	CFD RESEARCH CORPORATION	Alabama	USAF	RDTE/Physical Sciences - Management & Supp	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ16 (CONTINUED)					
	COGNITECH INC	California	USAF	RDTE/Physical Sciences - Management & Supp	50
	DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	260
	F & H APPLIED ASSOCIATES INC	New Jersey	USAF	RDTE/Physical Sciences - Management & Supp	160
	FIRST IMAGE MANAGEMENT CO	Minnesota	USAF	RDTE/Physical Sciences - Management & Supp	50
	FOSTER MILLER INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	230
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Management & Supp	57
	HYPRES INC	New York	USAF	RDTE/Physical Sciences - Management & Supp	50
	INNOVA LABORATORIES,	California	USAF	RDTE/Physical Sciences - Management & Supp	100
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Management & Supp	99
	LASER PHOTONICS TECHNOLOGY INC	New York	USAF	RDTE/Physical Sciences - Management & Supp	50
	LIU & ASSOCIATES	Utah	USAF	RDTE/Physical Sciences - Management & Supp	150
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Management & Supp	129
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	47
	NETROLOGIC INC	California	USAF	RDTE/Physical Sciences - Management & Supp	255
	POTOMAC PHOTONICS INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	49
	PROGRAM DEVELOPMENT CORP	New York	USAF	RDTE/Physical Sciences - Management & Supp	50
	RAND CORPORATION	California	USAF	RDTE/Physical Sciences - Management & Supp	24,814
	SCIENTIFIC SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	50
	SPARTA INC	California	USAF	RDTE/Physical Sciences - Management & Supp	266
	SQM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	131
	TECHPLAN CORP	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	787
	TOPICAL TESTING INC	Utah	USAF	RDTE/Physical Sciences - Management & Supp	493
	TS INFOSYSTEMS INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	225
	R&D TOTAL				28,852

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ21	BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Math & Computer Sciences - Basic Rese	49
	BRAN FERREN CORP	New York	USAF	RDTE/Math & Computer Sciences - Basic Rese	50
	BRUNEL UNIVERSITY	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	25
	CHARLES SYSTEMS CORP	Michigan	USAF	RDTE/Math & Computer Sciences - Basic Rese	50
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	26
	PHYSICAL SCIENCES INC	Virginia	USAF	RDTE/Math & Computer Sciences - Basic Rese	49
	REKENTHALER TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	48
	S Y S	Maryland	NAVY	RDTE/Math & Computer Sciences - Basic Rese	34
	SURFACTANT ASSOC INC	Oklahoma	USAF	RDTE/Math & Computer Sciences - Basic Rese	50
	WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Math & Computer Sciences - Basic Rese	54
	R&D TOTAL				435
AJ22	BRUNEL UNIVERSITY	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Explor Dev	25
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Math & Computer Sciences - Explor Dev	375
	CREDENCE SYSTEMS CORPORATION	Oregon	NAVY	RDTE/Math & Computer Sciences - Explor Dev	1,287
	R&D TOTAL				1,687
AJ25	ELECTRONIC DATA SYSTEMS CORP	Texas	NAVY	RDTE/Math & Computer Sciences - Op Systems	520
	UNIVERSAL FIBER OPTICS INC	Virginia	USAF	RDTE/Math & Computer Sciences - Op Systems	67
	R&D TOTAL				587
AJ31	APEX DISTRIBUTING	Illinois	USAF	RDTE/Environmental Sciences - Basic Resear	27
	FRESHWATER BIOLOGICAL ASSOC	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	30
	KUK DONG CONSTRUCTION CO LTD	SWITZERLAN	ARMY	RDTE/Environmental Sciences - Basic Resear	43
	MEMBRANE TECHNOLOGY & RESEARCH	California	USAF	RDTE/Environmental Sciences - Basic Resear	65
	OPEN UNIVERSITY THE	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	87
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Environmental Sciences - Basic Resear	50
	QUANTEL INTERNATIONAL INC	California	USAF	RDTE/Environmental Sciences - Basic Resear	29
	ROCK ENGRG CONSULTANTS	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	61

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ31 (CONTINUED)					
	UNIVERSITY OF READING	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	109
R&D TOTAL					501
AJ32	ANDREWS & SCHOFIELD ASSOCIATES	UNITED KIN	ARMY	RDTE/Environmental Sciences - Explor Devel	220
	BENNETT S REFRUGERATION INC	California	NAVY	RDTE/Environmental Sciences - Explor Devel	73
	CENTRAL WASHINGTON UNIVERSITY	Washington	ARMY	RDTE/Environmental Sciences - Explor Devel	25
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Environmental Sciences - Explor Devel	193
	COE TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Environmental Sciences - Explor Devel	772
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Environmental Sciences - Explor Devel	1,623
	FOSTER MILLER INC	Mass	ARMY	RDTE/Environmental Sciences - Explor Devel	55
	HOUSTON AREA RESEARCH CENTER	Texas	ARMY	RDTE/Environmental Sciences - Explor Devel	90
	TNO INSTITUTE FOR PERCEPTION	NETHERLAND	ARMY	RDTE/Environmental Sciences - Explor Devel	70
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Environmental Sciences - Explor Devel	409
	UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Environmental Sciences - Explor Devel	174
	WESTON ROY F INC	Penn	ARMY	RDTE/Environmental Sciences - Explor Devel	75
R&D TOTAL					3,779
AJ35	LUND INSTITUTE OF TECHNOLOGY	SWEDEN	ARMY	RDTE/Environmental Sciences - Op Systems D	30
	NATIONAL SERVICES PROJECTS	ITALY	ARMY	RDTE/Environmental Sciences - Op Systems D	39
	RAND CORPORATION	California	ARMY	RDTE/Environmental Sciences - Op Systems D	120-
R&D TOTAL					51-
AJ36	DR CHARLES W. SWITHINBANK	UNITED KIN	ARMY	RDTE/Environmental Sciences - Management &	50
AJ41	A A I CORPORATION	Maryland	USAF	RDTE/Engineering Sciences - Basic Research	211
	FLOW INDUSTRIES INC	Washington	USAF	RDTE/Engineering Sciences - Basic Research	50
	HEBREW UNIVERSITY OF JERUSALEM	ISRAEL	ARMY	RDTE/Engineering Sciences - Basic Research	30
	KYONG HYANG CONSTR & ENGR CO	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	32

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ41	(CONTINUED)				
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Engineering Sciences - Basic Research	\$ 86
	POLITECH DI MILANO	ITALY	ARMY	RDTE/Engineering Sciences - Basic Research	45
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	67
	UNIVERSITY OF FLORENCE	ITALY	ARMY	RDTE/Engineering Sciences - Basic Research	32
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Engineering Sciences - Basic Research	83
	UNIVERSITY OF GENT	BELGIUM	ARMY	RDTE/Engineering Sciences - Basic Research	35
	UNIVERSITY OF METZ	FRANCE	ARMY	RDTE/Engineering Sciences - Basic Research	30
	UNIVERSITY OF SURREY	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	38
	R&D TOTAL				739
AJ42	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Engineering Sciences - Exploratory De	32
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Engineering Sciences - Exploratory De	60
	PINNACLE RESEARCH INSTITUTE	California	ARMY	RDTE/Engineering Sciences - Exploratory De	229
	SUPERIOR ELECTRIC CO THE	Conn	ARMY	RDTE/Engineering Sciences - Exploratory De	250
	TESECO SRL	UNITED KIN	ARMY	RDTE/Engineering Sciences - Exploratory De	40
	R&D TOTAL				611
AJ43	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Engineering Sciences - Advanced Devel	200
AJ44	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Engineering Sciences - Engineering De	337
	UNIVERSITY OF HAWAII	Hawaii	NAVY	RDTE/Engineering Sciences - Engineering De	1,510
	R&D TOTAL				1,847
AJ45	NAPIER POLYTECHNIC DEPARTMENT	UNITED KIN	ARMY	RDTE/Engineering Sciences - Operational Sy	30
	RIGAKU/USA INC	Mass	ARMY	RDTE/Engineering Sciences - Operational Sy	56
	R&D TOTAL				86
AJ46	A & L SHATTO INC	Maryland	ARMY	RDTE/Engineering Sciences - Management & S	195
	BIONIC INFORMATION	Ohio	USAF	RDTE/Engineering Sciences - Management & S	46

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ46 (CONTINUED)					
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Engineering Sciences - Management & S	200
	FOSTER MILLER INC	Mass	USAF	RDTE/Engineering Sciences - Management & S	132
	PHOTONICS RESEARCH INC	New Mexico	NAVY	RDTE/Engineering Sciences - Management & S	50
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Engineering Sciences - Management & S	50
	PRECISION MEASUREMENT INC	Michigan	USAF	RDTE/Engineering Sciences - Management & S	48
	SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Engineering Sciences - Management & S	597
	UNIVERSITE PIERRE & MARIE CURIE	FRANCE	ARMY	RDTE/Engineering Sciences - Management & S	30
	R&D TOTAL				1,348
AJ52	ARIEL LIFE SYSTEMS INC	California	NAVY	RDTE/Life Sciences - Exploratory Developme	35
AJ53	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Life Sciences - Advanced Development	150
AJ56	BIOINDUSTRIAL TECHNOLOGIES	Texas	NAVY	RDTE/Life Sciences - Management & Support	50
AJ61	UNIVERSIDADE NOVA DE LISBOA	PORTUGAL	ARMY	RDTE/Psychological Sciences - Basic Resear	50
	UNIVERSITY OF BRADFORD	UNITED KIN	ARMY	RDTE/Psychological Sciences - Basic Resear	31
	UNIVERSITY OF READING	UNITED KIN	ARMY	RDTE/Psychological Sciences - Basic Resear	48
	R&D TOTAL				129
AJ62	COMPUTER AIDED SYSTEM HARDWARE	S ARABIA	ARMY	RDTE/Psychological Sciences - Exploratory	598
	MAFAT DEPT OF BEHAVIORAL SCIEN	ISRAEL	ARMY	RDTE/Psychological Sciences - Exploratory	59
	STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Psychological Sciences - Exploratory	52
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Psychological Sciences - Exploratory	250
	R&D TOTAL				959
AJ65	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Psychological Sciences - Operational	26
AJ71	CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Social Sciences - Basic Research	81
AJ74	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Social Sciences - Engineering Develop	843-
AJ91	APPLIED POLYMER SYSTEMS	New York	ARMY	RDTE/Other Sciences - Basic Research	50

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ91 (CONTINUED)				
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Other Sciences - Basic Research	
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Sciences - Basic Research	
R&D TOTAL				7
AJ92 BALES SCIENTIFIC INC	California	NAVY	RDTE/Other Sciences - Exploratory Developm	
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Sciences - Exploratory Developm	
R&D TOTAL				50
AJ96 PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Sciences - Management & Support	
AM11 CENTER FOR STRATEGIC STUDY	D.C.	ARMY	RDTE/Int'l Affairs & Cooperation-Basic Res	57
AN11 JACKSON HENRY M FOUNDATION	Maryland	ARMY	RDTE/Biomedical - Basic Research	655
S R A TECHNOLOGIES INC	Virginia	ARMY	RDTE/Biomedical - Basic Research	2,265
R&D TOTAL				2,920
AN12 GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Biomedical - Exploratory Development	50
AN16 BIODYMANIC RESEARCH CORP	Texas	USAF	RDTE/Biomedical - Management & Support	303
OETICS INC	California	USAF	RDTE/Biomedical - Management & Support	117
R&D TOTAL				420
AN41 FUNDACION MEXICAN PARA LA SALU	MEXICO	ARMY	RDTE/Health Services - Basic Research	125
AN46 FOUNDATION HEALTH CORPORATION	California	ARMY	RDTE/Health Services - Management & Suppor	433,279
AN62 S FLORIDA DRUG RESEARCH CORP	Florida	ARMY	RDTE/Rehabilitative Engines -Explor Dev	404
AN72 UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Specialized Services - Exploratory De	50
AN91 ADEZA BIOMEDICAL CORP	California	ARMY	RDTE/Other Medical - Basic Research	250
AMERICAN RED CROSS THE	D.C.	ARMY	RDTE/Other Medical - Basic Research	36-
APPLIED PHYSICS INC	New York	ARMY	RDTE/Other Medical - Basic Research	186
ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Medical - Basic Research	59
ASSOCIATE CONSULTANTS INC	D.C.	ARMY	RDTE/Other Medical - Basic Research	70

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AN91 (CONTINUED)

BALTIMORE UNIVERSITY	Maryland	ARMY	RDTE/Other Medical	- Basic Research	\$ 397
BAYLOR COLLEGE OF MEDICINE	Texas	ARMY	RDTE/Other Medical	- Basic Research	382
BELMONT INSTRUMENT CORPORATION	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
BETHESDA RESEARCH LABS	Maryland	ARMY	RDTE/Other Medical	- Basic Research	47
BIO METRIC SYSTEMS INC	Minnesota	ARMY	RDTE/Other Medical	- Basic Research	188
BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Medical	- Basic Research	43
BRATON BIOTECH INC	Maryland	ARMY	RDTE/Other Medical	- Basic Research	460
CALIFORNIA INST OF TECHNOLOGY	California	ARMY	RDTE/Other Medical	- Basic Research	170
CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical	- Basic Research	52
CERNYLAND OF UTICA	New York	ARMY	RDTE/Other Medical	- Basic Research	50
CONDIE RICHARD M DR	Minnesota	ARMY	RDTE/Other Medical	- Basic Research	40
CORVAS INC	California	ARMY	RDTE/Other Medical	- Basic Research	188
DELPHI PHARMACEUTICAL INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
DYNAGEN INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	249
DYNAMAC CORPORATION	Maryland	ARMY	RDTE/Other Medical	- Basic Research	41
ELCATECH INC	N Carolina	ARMY	RDTE/Other Medical	- Basic Research	50
ELECTROMAGNETIC TECHNOLOGY	Maryland	ARMY	RDTE/Other Medical	- Basic Research	122
ENZYME TECHNOLOGY RES GROUP	N Carolina	ARMY	RDTE/Other Medical	- Basic Research	50
ERC BIOSERVICES CORP	Maryland	ARMY	RDTE/Other Medical	- Basic Research	992
FLOW INC	Oregon	ARMY	RDTE/Other Medical	- Basic Research	50
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
GEO CENTERS INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical	- Basic Research	410
GORGAS MEMORIAL INSTITUTE	D.C.	ARMY	RDTE/Other Medical	- Basic Research	45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AN91 (CONTINUED)

HAHNEMANN UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Basic Research	\$	194
HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Basic Research		362
HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical - Basic Research		51
HERNER & COMPANY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research		800
ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Basic Research		486
JARVIS CHRISTIAN COLLEGE	Texas	ARMY	RDTE/Other Medical - Basic Research		75
LIFE CELL CORP	Texas	ARMY	RDTE/Other Medical - Basic Research		50
LYNNTECH INC	Texas	ARMY	RDTE/Other Medical - Basic Research		50
METAGENE CORP	Florida	ARMY	RDTE/Other Medical - Basic Research		50
MOLECULAR TOXICOLOGY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research		42-
MOLECULAR VACCINES INC	Maryland	ARMY	RDTE/Other Medical - Basic Research		259
MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Other Medical - Basic Research		130
NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Basic Research		201
OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Medical - Basic Research		28
OPHIDIAN PHARMACEUTICALS INC	Wisconsin	ARMY	RDTE/Other Medical - Basic Research		50
ORD INC	N.H.	ARMY	RDTE/Other Medical - Basic Research		97
OU DERMATOLOGY CLINIC	Oklahoma	ARMY	RDTE/Other Medical - Basic Research		105
PATHOLOGY ASSOCIATES INC	Minnesota	ARMY	RDTE/Other Medical - Basic Research		1,014
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Medical - Basic Research		255
PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Medical - Basic Research		194
QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Basic Research		347
RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research		320
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Basic Research		359
RIDGECOM	Penn	ARMY	RDTE/Other Medical - Basic Research		50

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
ROCHESTER PHOTONICS CORP	New York	ARMY	RDTE/Other Medical - Basic Research	50
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Medical - Basic Research	50
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Medical - Basic Research	2,466
SCOTGEN LTE	UNITED KIN	ARMY	RDTE/Other Medical - Basic Research	189
SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Basic Research	78
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Basic Research	31
SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Basic Research	86
SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Basic Research	256
STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Basic Research	60
STEADFAST INCORPORATED	Mass	ARMY	RDTE/Other Medical - Basic Research	282
STEROIDS LTD	Illinois	ARMY	RDTE/Other Medical - Basic Research	144
TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Other Medical - Basic Research	50
UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Basic Research	247
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Basic Research	677
UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical - Basic Research	134
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Basic Research	130
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Basic Research	188
UNIVERSITY OF LOUISVILLE	Kentucky	ARMY	RDTE/Other Medical - Basic Research	100
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Basic Research	317
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical - Basic Research	630
UNIVERSITY OF MEDICINE	New Jersey	ARMY	RDTE/Other Medical - Basic Research	480
UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Basic Research	165
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Basic Research	6
UNIVERSITY OF NORTH TEXAS	Texas	ARMY	RDTE/Other Medical - Basic Research	96

AN91 (CONTINUED)

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

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$

AN91 (CONTINUED)

UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Basic Research		203
UNIVERSITY OF WCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Basic Research		121
VIPONT PHARMACEUTICAL	Colorado	ARMY	RDTE/Other Medical - Basic Research		115
WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Basic Research		442
WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Medical - Basic Research		271
R&D TOTAL					18,304
AN92 AMERICAN INST BIOLOGCL SCIENCE	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		200
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme		43
BIO TECHNOLOGY GENERAL CORP	New York	ARMY	RDTE/Other Medical - Exploratory Developme		153
CALSPAN CORPORATION	Ohio	USAF	RDTE/Other Medical - Exploratory Developme		450
CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme		63
CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		878
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme		164
DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical - Exploratory Developme		3,046
EG&G SPECIAL PROJECTS	New Mexico	ARMY	RDTE/Other Medical - Exploratory Developme		1,362
ENZON INC	New Jersey	ARMY	RDTE/Other Medical - Exploratory Developme		230 -
GAMBLE JAMES N INST MED RES	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme		31
GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		206
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme		56
GORGAS MEMORIAL INSTITUTE	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme		58
GULF COAST RESEARCH LABORATORY	Miss	ARMY	RDTE/Other Medical - Exploratory Developme		83
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		151
HARVEY MUDD COLLEGE	California	ARMY	RDTE/Other Medical - Exploratory Developme		32
HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Exploratory Developme		61

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical - Exploratory Developme	136
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	59
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Exploratory Developme	177
	JAYCOR	California	ARMY	RDTE/Other Medical - Exploratory Developme	1,063
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	667
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Medical - Exploratory Developme	
	LOYOLA UNIVERSITY OF CHICAGO	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	51-
	MEDICAL COLLEGE OF PA	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	97
	MOLECULAR VACCINES INC	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	482
	NATURAL ENVIRONMTL RSCH COUNCI	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	45
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	159
	OHIO WESLEYAN UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	136
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Medical - Exploratory Developme	130
	OREGON HLTH SONES UNIVERSITY	Oregon	ARMY	RDTE/Other Medical - Exploratory Developme	137
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	41
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Exploratory Developme	125
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	91
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	481
	ROCKEFELLER UNIVERSITY	New York	ARMY	RDTE/Other Medical - Exploratory Developme	142
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Exploratory Developme	298
	SLOAN KETTERING INSTITUTE	New York	ARMY	RDTE/Other Medical - Exploratory Developme	211
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	35
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	2,029
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Exploratory Developme	688

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DES RIPTION	

AN92 (CONTINUED)

STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical	- Exploratory Developme	\$ 93
STEVENS ASH INC	Michigan	ARMY	RDTE/Other Medical	- Exploratory Developme	132
THOMAS JEFFERSON UNIVERSITY	Penn	ARMY	RDTE/Other Medical	- Exploratory Developme	62
TUFTS UNIVERSITY	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	138-
UNIVERSAL ENERGY SYSTEMS INC	Alabama	ARMY	RDTE/Other Medical	- Exploratory Developme	373
	Ohio	ARMY	RDTE/Other Medical	- Exploratory Developme	32
					405
CONTRACTOR TOTAL					
UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Medical	- Exploratory Developme	139
UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical	- Exploratory Developme	102
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical	- Exploratory Developme	209
UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical	- Exploratory Developme	54
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical	- Exploratory Developme	109
UNIVERSITY OF GEORGIA	Georgia	ARMY	RDTE/Other Medical	- Exploratory Developme	192
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical	- Exploratory Developme	163
UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Medical	- Exploratory Developme	175
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	380
UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical	- Exploratory Developme	951
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical	- Exploratory Developme	120
UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	44
UNIVERSITY OF NORTH DAKOTA	N Dakota	ARMY	RDTE/Other Medical	- Exploratory Developme	70
UNIVERSITY OF SAN FRANCISCO	California	ARMY	RDTE/Other Medical	- Exploratory Developme	36
UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Medical	- Exploratory Developme	73
UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	69
UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Medical	- Exploratory Developme	80-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Other Medical - Exploratory Developme	60
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	197
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Exploratory Developme	105
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Exploratory Developme	238
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	254
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Exploratory Developme	41
	R&D TOTAL				18,440
AN93	ABEL COMPANY	Virginia	ARMY	RDTE/Other Medical - Advanced Development	261
	AMERICAN OPTICAL CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	5,229
	ANATECH LTD	Virginia	ARMY	RDTE/Other Medical - Advanced Development	224
	ANDRULIS RESEARCH CORP	Maryland	ARMY	RDTE/Other Medical - Advanced Development	74
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Medical - Advanced Development	5,698
	BEILINSON MEDICAL CENTER	ISRAEL	ARMY	RDTE/Other Medical - Advanced Development	123
	BIOLOGICAL RES FACULTY FACILITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development	71
	BIOTECH RESEARCH LABORATORIES	Maryland	ARMY	RDTE/Other Medical - Advanced Development	500
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Other Medical - Advanced Development	300
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	55-
	DYNACORP	Maryland	ARMY	RDTE/Other Medical - Advanced Development	2,093
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Medical - Advanced Development	631
	EVAPORATED COATINGS INC	Penn	ARMY	RDTE/Other Medical - Advanced Development	99
	GORGAS MEMORIAL INSTITUTE	Maryland	ARMY	RDTE/Other Medical - Advanced Development	40
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	1,474
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Advanced Development	916
	HUNTINGDON RESEARCH CENTER	UNITED KING	ARMY	RDTE/Other Medical - Advanced Development	208

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AN93 (CONTINUED)	ICON BIOMEDICALS INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	68
	MASSACHUSETTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Medical - Advanced Development	158
	MICHIGAN STATE OF	Michigan	ARMY	RDTE/Other Medical - Advanced Development	16,860
	N E D H CORP	Mass	ARMY	RDTE/Other Medical - Advanced Development	447
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Medical - Advanced Development	155
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	143
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Advanced Development	374
	PHARMACIA RESEARCH INT'L. INC.	Penn	ARMY	RDTE/Other Medical - Advanced Development	97
	PORTON INTERNATIONAL INC	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development	7,615
	PROMED TRADING, S.A.	PANAMA	ARMY	RDTE/Other Medical - Advanced Development	300
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Advanced Development	496
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	5
	SALK INST FOR BLGICAL STUDIES	Penn	ARMY	RDTE/Other Medical - Advanced Development	8,999
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Advanced Development	250
	SHERIKON INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	1,983
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Advanced Development	35-
	SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Advanced Development	217
	SOUTHWEST RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Medical - Advanced Development	49
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Advanced Development	323
	STARKS ASSOCIATES INC	New York	ARMY	RDTE/Other Medical - Advanced Development	341
	STERIMATICS CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	13,171
	STEVENS ASH INC	Michigan	ARMY	RDTE/Other Medical - Advanced Development	357
	TEL AVIV UNIVERSITY	ISRAEL	ARMY	RDTE/Other Medical - Advanced Development	141
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Advanced Development	294

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AN93 (CONTINUED)

UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical	- Advanced Development	\$ 1,030
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Other Medical	- Advanced Development	108
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical	- Advanced Development	195
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical	- Advanced Development	141
UNIVERSITY OF SOUTH FLORIDA	Florida	ARMY	RDTE/Other Medical	- Advanced Development	132
UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Medical	- Advanced Development	134
UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical	- Advanced Development	102
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical	- Advanced Development	95
UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Medical	- Advanced Development	727
WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical	- Advanced Development	113
WORLDWIDE BIOLOGICALS INC	Ohio	ARMY	RDTE/Other Medical	- Advanced Development	106
YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical	- Advanced Development	49
R&D TOTAL					73,626
AN94 DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical	- Engineering Developme	3,903
NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Medical	- Engineering Developme	651
ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical	- Engineering Developme	184
SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical	- Engineering Developme	50
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical	- Engineering Developme	1,463
	CHILE	ARMY	RDTE/Other Medical	- Engineering Developme	263
CONTRACTOR TOTAL					1,726
R&D TOTAL					6,514
AN95 I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Medical	- Operational Systems D	165
AP22 MAXWELL LABORATORIES INC	California	USAF	RDTE/Natural Resources	- Land - Explor Dev	80
PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Natural Resources	- Land - Explor Dev	54

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AP22	(CONTINUED)				
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Natural Resources - Land - Explor Dev	442
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Natural Resources - Land - Explor Dev	408
	UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Natural Resources - Land - Explor Dev	186
	WESTON ROY F INC	Penn	ARMY	RDTE/Natural Resources - Land - Explor Dev	386
	WOODWARD-CLYDE CONSULTANTS	Colorado	ARMY	RDTE/Natural Resources - Land - Explor Dev	248
	R&D TOTAL				1,804
AP51	HARBOR BR OCEANOGRAPHIC INSTN	Florida	NAVY	RDTE/Natural Resources-Marine-Basic Resear	141
	WOODS HOLE OCNGRPHIC INSTUTE	Mass	ARMY	RDTE/Natural Resources-Marine-Basic Resear	46
	R&D TOTAL				187
AP52	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Natural Resources-Marine-Exploratory	33
	TEXAS A & M RESEARCH FDN	Texas	NAVY	RDTE/Natural Resources-Marine-Exploratory	45
	R&D TOTAL				78
AP53	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	2,100
		Hawaii	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	369
	CONTRACTOR TOTAL				2,469
	SEACO INC	Hawaii	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	54
	R&D TOTAL				2,523
AP91	BIOSONICS INC	Washington	OCE	RDTE/Natural Resources-Other-Basic Researc	144
AR11	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Aeronautics - Basic Research	4,721
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Basic Research	5,062
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	97
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Space - Aeronautics - Basic Research	100
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Basic Research	100
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Aeronautics - Basic Research	5,336

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AR11	(CONTINUED)					
	PHOTO METRIC INC	Mass	USAF	RDTE/Space - Aeronautics - Basic Research		240
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Space - Aeronautics - Basic Research		1,969
	R&D TOTAL					17,625
AR12	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Exploratory Dev		50
AR13	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Space - Aeronautics - Advanced Develo		2,830
	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Space - Aeronautics - Advanced Develo		2,679
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space - Aeronautics - Advanced Develo		1,268
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Space - Aeronautics - Advanced Develo		376
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Advanced Develo		1,268
	R&D TOTAL					8,421
AR21	COMPUTATIONAL PHYSICS INC	Virginia	NAVY	RDTE/Space-Science Applications-Basic Rese		460
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Science Applications-Basic Rese		550
	TRW INC	California	USAF	RDTE/Space-Science Applications-Basic Rese		87-
	R&D TOTAL					923
AR22	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Space-Science Applications-Explor Dev		29
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Explor Dev		120
	MAYFLOWER COMMUNICATION CORP	Mass	NAVY	RDTE/Space-Science Applications-Explor Dev		50
	STANFORD UNIVERSITY	California	USAF	RDTE/Space-Science Applications-Explor Dev		76
	R&D TOTAL					275
AR23	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Space-Science Applications-Advanced D		405,120
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Advanced D		41,242
	R&D TOTAL					446,362
AR24	COLSA INC	Texas	ARMY	RDTE/Space-Science Applications-Engineerin		100
AR25	AEROJET	California	USAF	RDTE/Space-Science Applications-Op Systems		1,628

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR25 (CONTINUED)					
	AEROSPACE CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	395,136
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	55-
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space-Science Applications-Op Systems	9,250
	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space-Science Applications-Op Systems	1,795
	TRW INC	California	USAF	RDTE/Space-Science Applications-Op Systems	53,067
R&D TOTAL					460,821
AR32	AEROJET	California	USAF	RDTE/Space Flight - Exploratory Development	478
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Exploratory Development	243
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space Flight - Exploratory Development	489
R&D TOTAL					1,210
AR33	ENGINEERING TECHNOLOGIES INC	Virginia	USAF	RDTE/Space Flight - Advanced Development	615
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Advanced Development	193,284
R&D TOTAL					193,899
AR34	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space Flight - Engineering Development	110,486
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Engineering Development	73,514
	ORBITAL SCIENCES CORPORATION	Virginia	USAF	RDTE/Space Flight - Engineering Development	12,915
R&D TOTAL					196,915
AR35	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space Flight - Operations Systems Dev	2,886
AR41	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	218
	LOGICON INC	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	382
	MC MAHAN ELECTRO OPTICS INC	Florida	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	143
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	935
	SPARTA INC	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	175
R&D TOTAL					1,853

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR42	J J M SYSTEMS INC	Penn	NAVY	RDTE/Space Op - Applied Research & Expl De	1,247
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Applied Research & Expl De	725
	R&D TOTAL				1,972
AR43	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Space Op - Trckng & Data Acq-Advanced	80
AR44	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Space Op - Trckng & Data Acq-Engineer	191
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	10,588
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	1,395
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	193
	R&D TOTAL				12,367
AR45	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	15,759
		Maryland	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	263
	CONTRACTOR TOTAL				16,022
	LITTON SYSTEMS INC	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	12,291
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	74
	R&D TOTAL				28,387
AR46	DYNACORP	New Mexico	ARMY	RDTE/Space Op-Tracking & Data Acq-Mgmt & S	3,712
AR61	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Station-Basic Research	4,965
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Space-Station-Basic Research	340
	R&D TOTAL				5,305
AR62	AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Space-Station-Exploratory Development	1,008
AR91	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Basic Research	1,165
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Basic Research	1,165
	MASSACHUSETTS TECHNOLOGICAL LAB	Maryland	ARMY	RDTE/Space - Other - Basic Research	50
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Basic Research	1,165
	SOLAR ELECTRIC CO INC	Maryland	ARMY	RDTE/Space - Other - Basic Research	30
	TRW INC	California	USAF	RDTE/Space - Other - Basic Research	1,165

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AR91	(CONTINUED)				
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Space - Other - Basic Research	\$ 32
	R&D TOTAL				4,772
AR92	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Space - Other - Exploratory Developme	50
	GINER INC	Mass	USAF	RDTE/Space - Other - Exploratory Developme	54
	HELIX TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Space - Other - Exploratory Developme	96
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Exploratory Developme	1,800
	PACIFIC ADVANCED	California	USAF	RDTE/Space - Other - Exploratory Developme	57
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Space - Other - Exploratory Developme	50
	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Space - Other - Exploratory Developme	196
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	5,337
	SPARTA INC	California	USAF	RDTE/Space - Other - Exploratory Developme	65
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Exploratory Developme	164
	TRW INC	California	USAF	RDTE/Space - Other - Exploratory Developme	4,763
	R&D TOTAL				12,632
AR93	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Advanced Development	12,477
	LOGICON INC	California	USAF	RDTE/Space - Other - Advanced Development	394-
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Advanced Development	31,049
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Space - Other - Advanced Development	334
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Advanced Development	3,438
	SPARTA INC	California	USAF	RDTE/Space - Other - Advanced Development	6,499
	R&D TOTAL				53,403
AR94	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Space - Other - Engineering Developme	100-
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Engineering Developme	227
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Space - Other - Engineering Developme	50

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AR94 (CONTINUED)						
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Engineering Developme		816
R&D TOTAL						993
AR95	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Space - Other - Operational Systems D		716
	SOFTWARE ENGRG ASSOCIATES	California	USAF	RDTE/Space - Other - Operational Systems D		150
	SPACE APPLICATIONS CORPORATION	California	USAF	RDTE/Space - Other - Operational Systems D		5,673
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Space - Other - Operational Systems D		60
R&D TOTAL						6,599
AR96	ADAPTIVE SENSORS INC	California	USAF	RDTE/Space - Other - Management & Support		181
		Texas	USAF	RDTE/Space - Other - Management & Support		190
	CONTRACTOR TOTAL					371
	ATMOSPHERIC SIMULATION TSTG RES	Colorado	USAF	RDTE/Space - Other - Management & Support		275
	B D SYSTEMS INC	California	USAF	RDTE/Space - Other - Management & Support		359
	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space - Other - Management & Support		49
	CENTER FOR STRATEGIC STUDY	Texas	USAF	RDTE/Space - Other - Management & Support		50
	ENGINEERING TECHNOLOGIES INC	Virginia	USAF	RDTE/Space - Other - Management & Support		165
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support		64-
	INDEPENDENT RISK ASSESSMENT	California	USAF	RDTE/Space - Other - Management & Support		50
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Space - Other - Management & Support		200
	MICROCOSM	California	USAF	RDTE/Space - Other - Management & Support		29
	NAVSYS CORP	California	USAF	RDTE/Space - Other - Management & Support		49
	ORBITAL SYSTEMS	Maryland	USAF	RDTE/Space - Other - Management & Support		173
	RADIX TECHNOLOGIES	California	USAF	RDTE/Space - Other - Management & Support		49
	SPIRE CORPORATION	Mass	USAF	RDTE/Space - Other - Management & Support		337
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Space - Other - Management & Support		1,293

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR96 (CONTINUED)					
	TECHNOMICS INC	California	USAF	RDTE/Space - Other - Management & Support	392
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support	109
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Management & Support	198
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Other - Management & Support	46
	TRW INC	California	USAF	RDTE/Space - Other - Management & Support	737
	UNIVERSITY TECHNOLOGISTS INC	Oklahoma	USAF	RDTE/Space - Other - Management & Support	300
	VIASAT INC	California	USAF	RDTE/Space - Other - Management & Support	50
	R&D TOTAL				5,217
AS12	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Transportation - Air - Exploratory De	400
AS13	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Transportation - Air - Advanced Devel	845
AS15	UNITED TECHNOLOGIES CORP	Florida	ARMY	RDTE/Transportation - Air - Op Systems Dev	61
AS21	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Transportation - Motor Veh - Basic Re	43
AS41	APPLIED COMBUSTION TECHNOLOGY	Florida	NAVY	RDTE/Transportation - Marine - Basic Resea	244
AS42	FMC CORPORATION	California	NAVY	RDTE/Transportation - Marine - Exploratory	7,137
AT11	U S COMPOSITES CORP	New York	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Basic Re	91-
AT12	DILLON CONSTRUCTION INC	PANAMA	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Explor D	418
AT14	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev	2,534
AT95	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Trans - Other - Operational Systems D	4,295
AV21	UNITED STATES DEPT OF INTERIOR	Idaho	NAVY	RDTE/Mining Equipment-Surface-Basic Resear	50
AV71	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Mining - Metallurgical - Basic Resear	26
AV92	LOCUS INC	D.C.	NAVY	RDTE/Other Mining Activities - Exploratory	184
		Penn	NAVY	RDTE/Other Mining Activities - Exploratory	66
	CONTRACTOR TOTAL				250
AZ11	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	50

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AZ11 (CONTINUED)					
ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	\$	140
ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		630
ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		50
ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Research & Development-Basic Re		252
		NAVY	RDTE/Other Research & Development-Basic Re		62
STATE TOTAL					314
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		112
AETECH INC	California	USAF	RDTE/Other Research & Development-Basic Re		594
ALFORD ROGERS CULLMORE CONCEP	Florida	OCE	RDTE/Other Research & Development-Basic Re		134
ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		133
ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		28,662
ALLIED SIGNAL INC	California	ARMY	RDTE/Other Research & Development-Basic Re		230
ALLISON H S INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		150
AMERICAN GNC CORP	California	ARMY	RDTE/Other Research & Development-Basic Re		50
AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		148
AMERICAN RESEARCH CORP	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		49
AMERICAN SCIENTIFIC CORP	Miss	ARMY	RDTE/Other Research & Development-Basic Re		27
		OCE	RDTE/Other Research & Development-Basic Re		374
STATE TOTAL					401
CONTRACTOR TOTAL					54
AMERICAN TELEPHONE & TELG CO	S Carolina	OCE	RDTE/Other Research & Development-Basic Re		602
	Virginia	OCE	RDTE/Other Research & Development-Basic Re		1,057
STATE TOTAL					446
	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		76
	USAF	RDTE/Other Research & Development-Basic Re			522

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AZ11 (CONTINUED)					
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Research & Development-Basic Re	\$ 542
	ANALYTIC POWER CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Other Research & Development-Basic Re	440
	ANALYTICA OF BRANFORD INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	35
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	67
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	250
	APPLIED RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	623
	APPLIED TECHNOLOGY ASSOCIATES	Florida	NAVY	RDTE/Other Research & Development-Basic Re	125
	APPLIED THEORY INC	California	ARMY	RDTE/Other Research & Development-Basic Re	58
	ARCHITECTURAL ENERGY CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	58
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	550
	ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	291
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Basic Re	630
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Basic Re	327
	AUBURN UNIVERSITY	Alabama	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	29 102
			STATE TOTAL		131
	AUSTIN PEAY STATE UNIVERSITY	Tennessee	OCE	RDTE/Other Research & Development-Basic Re	35
	AUTOMATED PRECISION INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	50
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	560
	BAKER WILFRED ENGINEERING	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	363 48
			STATE TOTAL		411
	BAND LAVIS & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	50
	BARRINGER INSTRUMENTS INC	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	70
	BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	236

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AZ11 (CONTINUED)				
Arizona	ARMY	RDTE/Other	Research & Development-Basic Re	64
California	ARMY	RDTE/Other	Research & Development-Basic Re	471
Colorado	ARMY	RDTE/Other	Research & Development-Basic Re	171
Conn	ARMY	RDTE/Other	Research & Development-Basic Re	148
Delaware	ARMY	RDTE/Other	Research & Development-Basic Re	111
D.C.	ARMY	RDTE/Other	Research & Development-Basic Re	136
Florida	ARMY	RDTE/Other	Research & Development-Basic Re	488
Georgia	ARMY	RDTE/Other	Research & Development-Basic Re	59
Illinois	ARMY	RDTE/Other	Research & Development-Basic Re	124
Indiana	ARMY	RDTE/Other	Research & Development-Basic Re	66
Louisiana	ARMY	RDTE/Other	Research & Development-Basic Re	41
Maine	ARMY	RDTE/Other	Research & Development-Basic Re	36
Maryland	ARMY	RDTE/Other	Research & Development-Basic Re	770
Mass	ARMY	RDTE/Other	Research & Development-Basic Re	726
Michigan	ARMY	RDTE/Other	Research & Development-Basic Re	183
Miss	ARMY	RDTE/Other	Research & Development-Basic Re	115
Missouri	ARMY	RDTE/Other	Research & Development-Basic Re	108
New Jersey	ARMY	RDTE/Other	Research & Development-Basic Re	143
New Mexico	ARMY	RDTE/Other	Research & Development-Basic Re	216
New York	ARMY	RDTE/Other	Research & Development-Basic Re	290
N Carolina	ARMY	RDTE/Other	Research & Development-Basic Re	240
Ohio	ARMY	RDTE/Other	Research & Development-Basic Re	3,004
Penn	ARMY	RDTE/Other	Research & Development-Basic Re	153
S Carolina	ARMY	RDTE/Other	Research & Development-Basic Re	108

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					

	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re		46
	Texas	ARMY	RDTE/Other Research & Development-Basic Re		375
	Utah	ARMY	RDTE/Other Research & Development-Basic Re		166
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		882
	Washington	ARMY	RDTE/Other Research & Development-Basic Re		49
	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re		36
	CANADA	ARMY	RDTE/Other Research & Development-Basic Re		96
	GERMANY	ARMY	RDTE/Other Research & Development-Basic Re		88
					9,945
	Florida	USAF	RDTE/Other Research & Development-Basic Re		120
	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		110
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		473
					703
	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re		34
	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		380
	Mass	USAF	RDTE/Other Research & Development-Basic Re		460
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		180
	Illinois	NAVY	RDTE/Other Research & Development-Basic Re		48
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		67
	Maryland	OCE	RDTE/Other Research & Development-Basic Re		29
	Alabama	NAVY	RDTE/Other Research & Development-Basic Re		111
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		204
	California	ARMY	RDTE/Other Research & Development-Basic Re		613
		NAVY	RDTE/Other Research & Development-Basic Re		119
CONTRACTOR TOTAL					
BDM INTERNATIONAL INC					
CONTRACTOR TOTAL					
BECKENHAUER CONSTRUCTION INC					
BERKELEY RESEARCH ASSOCIATES					
BOSTON COLLEGE TRUSTEES OF					
BOSTON UNIVERSITY					
BOUNDARY TECHNOLOGIES INC					
BRANDEIS UNIVERSITY					
BRITISH MARITIME TECHNOLOGY					
C H A M OF NORTH AMERICA INC					
CAE INDUSTRIES LTD					
CALIFORNIA INST OF TECHNOLOGY					

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

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other Research & Development-Basic Re	\$
AZ11 (CONTINUED)							
	CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re			76
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re			808
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re			724
	CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Research & Development-Basic Re			84
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Research & Development-Basic Re			550
	CAULFIELD ENGINEERING	CANADA	OCE	RDTE/Other Research & Development-Basic Re			49
	CENTER FOR REMOTE SENSING	Virginia	NAVY	RDTE/Other Research & Development-Basic Re			110
	CHAMBERLIN HOTEL COMPANY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re			59
	CHAPMAN RAY & ASSOCIATES	Miss	OCE	RDTE/Other Research & Development-Basic Re			50
	CHARLES EBEST CO INC	California	NAVY	RDTE/Other Research & Development-Basic Re			49
	CHASE CONSULTANTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re			32
	CHENG TECHNOLOGY & SERVICES	California	NAVY	RDTE/Other Research & Development-Basic Re			49
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re			207
	CHOCTAW ENGINEERING CO INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re			60
	CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re			187
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re			30
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re			70
		DLA	RDTE/Other Research & Development-Basic Re				130
		OCE	RDTE/Other Research & Development-Basic Re				109
							197
							95
							401
	CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Other Research & Development-Basic Re			50
	COE TRUMAN TECHNOLOGIES INC	Illinois	OCE	RDTE/Other Research & Development-Basic Re			81
	COLLEGE OF WILLIAM & MARY	Virginia	NAVY	RDTE/Other Research & Development-Basic Re			45

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	\$	105
COLORADO STATE UNIVERSITY	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		1,488
		OCE	RDTE/Other Research & Development-Basic Re		35
	STATE TOTAL				1,523
COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		526
COMMONWEALTH OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		100
CONTEL CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		281
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		32
	STATE TOTAL				313
CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		4,143
		USAF	RDTE/Other Research & Development-Basic Re		80
		OCE	RDTE/Other Research & Development-Basic Re		48
	STATE TOTAL				4,271
GREE RESEARCH INC	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		144
CRYSTALLUME	California	NAVY	RDTE/Other Research & Development-Basic Re		225
D C W INDUSTRIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		81
DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		81
		USAF	RDTE/Other Research & Development-Basic Re		53
	STATE TOTAL				134
DAMASKOS INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		50
DAMES & MOORE	Arizona	OCE	RDTE/Other Research & Development-Basic Re		83
DARTMOUTH COLLEGE	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		91
DATA RECOGNITION CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		331
DAVID RICHARD GRESS WRIGHT	California	ARMY	RDTE/Other Research & Development-Basic Re		86
DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		171
DAVID TRIVETT INC	Florida	NAVY	RDTE/Other Research & Development-Basic Re		176

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

DAVIS TECHNOLOGIES	Texas	NAVY	RDTE/Other Research & Development-Basic Re	\$	125
DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		185
DEDICATED ELECTRONICS INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		50
DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		40
DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		418
DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		309
DIVERSIFIED MOBILE PRODUCTS	Indiana	OCE	RDTE/Other Research & Development-Basic Re		61
DONMAR LTD	California	USAF	RDTE/Other Research & Development-Basic Re		647
DR. ROBERT L. BARKAU	Missouri	OCE	RDTE/Other Research & Development-Basic Re		31
DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re		94
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		496
E A ENGRING SCENCE TECHNOLOGY	Maryland	OCE	RDTE/Other Research & Development-Basic Re		35
E SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		100
EAGLE TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re		75
EARTH TECHNOLOGY CORP	California	ARMY	RDTE/Other Research & Development-Basic Re		140
EBASCO SERVICES INCORPORATED	Washington	OCE	RDTE/Other Research & Development-Basic Re		76
ECONOMIC MODELS	Penn	ARMY	RDTE/Other Research & Development-Basic Re		92
EDISON WELDING INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		131
ELECTRO OPTEK CORPORATION	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		416 50
	STATE TOTAL				466
ELECTROMAGNETIC APPLICATIONS	Mass	ARMY	RDTE/Other Research & Development-Basic Re		49
ELECTRON TRANSFER TECHNOLOGIES	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		53
EMORY UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		71

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	\$	200
ENGINE RESEARCH ASSOCIATES	Indiana	NAVY	RDTE/Other Research & Development-Basic Re		46
ENGINEERING DEVELOPMENTS	Miss	ARMY	RDTE/Other Research & Development-Basic Re		78
ENVIRONMENTAL RES INST OF MICH	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		190
ENVIRONMENTAL DYNAMICS RES	Florida	OCE	RDTE/Other Research & Development-Basic Re		62
EOS TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		49
ETALON, INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		52
EVANS HAMILTON INC	Texas	OCE	RDTE/Other Research & Development-Basic Re		418
EXTERIOR WALL SYSTEMS EWS NC	New York	ARMY	RDTE/Other Research & Development-Basic Re		46
FIRE CONTROL LTD	Hawaii	ARMY	RDTE/Other Research & Development-Basic Re		26
FLORIDA ATLANTIC UNIVERSITY	Florida	OCE	RDTE/Other Research & Development-Basic Re		39
FLORIDA INST OF TECHNOLOGY	Florida	OCE	RDTE/Other Research & Development-Basic Re		116
FLORIDA MAXIMA CORP	Florida	ARMY	RDTE/Other Research & Development-Basic Re		93
FLOUROCHEM INC	California	ARMY	RDTE/Other Research & Development-Basic Re		122
	NAVY	RDTE/Other Research & Development-Basic Re		55	
	STATE TOTAL				177
FLOW ANALYSIS INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		84
FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Research & Development-Basic Re		111
	NAVY	RDTE/Other Research & Development-Basic Re		310	
	OCE	RDTE/Other Research & Development-Basic Re		39	
	STATE TOTAL				460
FM TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		550
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		210
	USAF	RDTE/Other Research & Development-Basic Re		101	
	STATE TOTAL				311
FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Basic Re		35

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

GENERAL DYNAMICS CORPORATION	Texas	ARMY	RDTE/Other Research & Development-Basic Re	\$	448
GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Basic Re		4,887
	New York	ARMY	RDTE/Other Research & Development-Basic Re		2,579
CONTRACTOR TOTAL					7,466
GENERAL INDICATOR CORPORATION	Virginia	USAF	RDTE/Other Research & Development-Basic Re		415-
GENERAL MAGNAPLATE CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		50
GENERAL MICROWAVE CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re		50
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Other Research & Development-Basic Re		990
GENERAL SCIENCES INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re		48
GENTEX CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Basic Re		5,485
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		1,594
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		58
		NAVY	RDTE/Other Research & Development-Basic Re		469
CONTRACTOR TOTAL					527
STATE TOTAL					2,121
GEORGE WASHINGTON UNIV THE	Alabama	NAVY	RDTE/Other Research & Development-Basic Re		13
GEORGETOWN UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		630
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		2,157
GEORGIA STATE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		58
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		150
		NAVY	RDTE/Other Research & Development-Basic Re		50
STATE TOTAL					200
GEOSYSTEMS ENGINEERING INC	Kansas	ARMY	RDTE/Other Research & Development-Basic Re		47
GNOSTECH INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		50
GRABER PETER H F	California	OCE	RDTE/Other Research & Development-Basic Re		58

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

GROUND ENGINEERING INC	Missouri	OCE	RDTE/Other Research & Development-Basic Re	\$	97
GRUMMAN AEROSPACE CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		386
	New York	ARMY	RDTE/Other Research & Development-Basic Re		125
CONTRACTOR TOTAL					511
GSX SERVICES INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		400
HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		628
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re		40
HILTON SYSTEMS INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re		841
HNC INC	California	NAVY	RDTE/Other Research & Development-Basic Re		250
HUDSON INSTITUTE INC	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		90
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Basic Re		60
	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		765
STATE TOTAL					825
HUMAN FACTOR SOLUTIONS	Maryland	USAF	RDTE/Other Research & Development-Basic Re		260
HYDROACOUSTICS INC	New York	NAVY	RDTE/Other Research & Development-Basic Re		93
I I T RESEARCH INSTITUTE	Illinois	DLA	RDTE/Other Research & Development-Basic Re		2,106
I MATH ASSOCIATES INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		50
IKONIX INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		50
IMPLANT SCIENCES CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		49
INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		1,111
INFORMATION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		43-
INNOVATIVE SOLUTIONS FROM ADVA	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		50
INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Other Research & Development-Basic Re		50
INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		2,149

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

	CONTRACTOR TOTAL				\$	226
	INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		
	INVENTIVE DEVELOPMENT CO	New York	ARMY	RDTE/Other Research & Development-Basic Re		2,375
	IONICS RESEARCH INC	California	USAF	RDTE/Other Research & Development-Basic Re		160
	IONWERKS	Texas	NAVY	RDTE/Other Research & Development-Basic Re		49
	IOWA STATE UNIV SCNC	Texas	ARMY	RDTE/Other Research & Development-Basic Re		43
	IRVINE SENSORS CORPORATION	Iowa	ARMY	RDTE/Other Research & Development-Basic Re		255
	ITE INC	California	NAVY	RDTE/Other Research & Development-Basic Re		45
	ITERATIONS INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		55
	J & D SCIENTIFIC INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		46
	JAI ASSOCIATES INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		50
	JAMES A. CADZOW	California	ARMY	RDTE/Other Research & Development-Basic Re		242
	JAYCOR	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re		102
		D.C.	NAVY	RDTE/Other Research & Development-Basic Re		45
		Miss	ARMY	RDTE/Other Research & Development-Basic Re		75
		OCE	ARMY	RDTE/Other Research & Development-Basic Re		54
				RDTE/Other Research & Development-Basic Re		174
	CONTRACTOR TOTAL					228
						303
	JOHN G.C OLLINS	Miss	OCE	RDTE/Other Research & Development-Basic Re		29
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		178
	JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		145
	JOURNAL OF COASTAL RESEARCH	Florida	OCE	RDTE/Other Research & Development-Basic Re		28
	KARAGOZIAN & CASE	California	ARMY	RDTE/Other Research & Development-Basic Re		51
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		333

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	KOPIN CORPORATION		NAVY	RDTE/Other Research & Development-Basic Re	\$ 266
	L J F CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re	599
	LASER SCIENCE CO	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	385
	LEHIGH UNIVERSITY	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	50
		D.C.	NAVY	RDTE/Other Research & Development-Basic Re	100
		Penn	ARMY	RDTE/Other Research & Development-Basic Re	45
			NAVY	RDTE/Other Research & Development-Basic Re	123
					50
					173
					218
	CONTRACTOR TOTAL				
	LESHCHINSKY INC.	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	44
	LIGHTING SCIENCES INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	50
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Research & Development-Basic Re	50
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	203
		Florida	ARMY	RDTE/Other Research & Development-Basic Re	227
		New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	30
	CONTRACTOR TOTAL				460
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Basic Re	98
			USAF	RDTE/Other Research & Development-Basic Re	338
					436
	CONTRACTOR TOTAL				
	LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	34
	LOCUS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	90
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	105
	CONTRACTOR TOTAL				195
	LOUISIANA GEOLOGICAL SURVEY	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	60

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AZ11 (CONTINUED)

LOUISIANA STATE UNIV SYSTEM	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	\$	30
LOUISIANA STATE UNIVERSITY	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		77
LOUISIANA TECH UNIVERSITY	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		34
LUTRONIX INC	California	NAVY	RDTE/Other Research & Development-Basic Re		25
M L ENERGIA INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
MADEN TECH CONSULTING INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		622
MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		627
MANAGEMENT CONSULTING & RES	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		127
MANAGEMENT INFO RESOURCES	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re		50
MARK RESOURCES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		249
MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		2,000
	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		214
CONTRACTOR TOTAL					2,214
MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		6,328 444 237
STATE TOTAL					7,009
MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		50 50
STATE TOTAL					100
MATERIALS MODIFICATION INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		59
MAXWELL LABORATORIES INC	California	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		226 1,691
STATE TOTAL					1,917
MCDONNELL AIRCRAFT COMPANY	Missouri	NAVY	RDTE/Other Research & Development-Basic Re		160
MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Research & Development-Basic Re		75

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

MEMPHIS STATE UNIVERSITY	Tennessee	OCE	RDTE/Other Research & Development-Basic Re	\$	48
MESOSCALE ENVIR SIMULATN	New York	ARMY	RDTE/Other Research & Development-Basic Re		188
METRON INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		50
MICHIGAN STATE UNIVERSITY	Michigan	OCE	RDTE/Other Research & Development-Basic Re		110
MICHIGAN TCHNLGICAL UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		37
MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		220
MICRO DEVICES CORP	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
MICROLCTRNICS CTR OF N CRLINA	N Carolina	NAVY	RDTE/Other Research & Development-Basic Re		48
MIDDLEBURY COLLEGE	Vermont	OCE	RDTE/Other Research & Development-Basic Re		60
MIKROS SYSTEMS CORPORATION	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		51
MINNESOTA MINING & MFG CO	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		606
MINNESOTA SUPERCOMPUTER CENTER	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		130
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		348
		NAVY	RDTE/Other Research & Development-Basic Re		445
		USAF	RDTE/Other Research & Development-Basic Re		30-
STATE TOTAL					763
	N.H.	USAF	RDTE/Other Research & Development-Basic Re		670
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		49
		NAVY	RDTE/Other Research & Development-Basic Re		53
STATE TOTAL					102
CONTRACTOR TOTAL					1,535
MISSISSIPPI STATE UNIVERSITY	Miss	ARMY	RDTE/Other Research & Development-Basic Re		25
		OCE	RDTE/Other Research & Development-Basic Re		87
STATE TOTAL					112
MITECH INC	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		46
MODESCO INC	California	NAVY	RDTE/Other Research & Development-Basic Re		95

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

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONT'NUED)					
	MONTEREY BAY CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	30
	MOTOROLA INC	Arizona	NAVY	RDTE/Other Research & Development-Basic Re	186
	MURRAY STATE UNIVERSITY	Kentucky	OCE	RDTE/Other Research & Development-Basic Re	35
	MUSYN INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	50
	NATIONAL ACADEMY SCIENCES USA	California	NAVY	RDTE/Other Research & Development-Basic Re	173
		D. C.	ARMY	RDTE/Other Research & Development-Basic Re	529
	CONTRACTOR TOTAL				702
	NATIONAL INST FOR PUB POLICY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	134
	NAVSYS CORP	Colorado	USAF	RDTE/Other Research & Development-Basic Re	49
	NEOTRONICS CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re	50
	NET EXPRESS INCORP	California	NAVY	RDTE/Other Research & Development-Basic Re	100
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	951
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	90
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	443
			NAVY	RDTE/Other Research & Development-Basic Re	288
	STATE TOTAL				731
	NORMANDEAU ASSOC INC	S Carolina	OCE	RDTE/Other Research & Development-Basic Re	79
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	426
	NORTH EAST SEMICONDUCTOR INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	50
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	581
	NUCLEAR REMEDIATION	California	USAF	RDTE/Other Research & Development-Basic Re	100
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Research & Development-Basic Re	400
	OFFSHORE & COASTAL TECH INC	Miss	OCE	RDTE/Other Research & Development-Basic Re	125
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	117

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AZ11 (CONTINUED)					
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY OCE	RDTE/Other Research & Development-Basic Re	\$ 120
		STATE TOTAL			237
	OLD DMNION UNIV RES FUNDATION	Virginia	OCE	RDTE/Other Research & Development-Basic Re	26
	OLD DOMINION UNIV RESEARCH FOU	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	164
	ONTAR CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
	OPTECH INC	CANADA	OCE	RDTE/Other Research & Development-Basic Re	1,180
	OPTICAL CONCEPTS RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	187
	OPTOLOGIC CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	40
	OREGON GRAD CTR STUDY RESEARCH	Oregon	OCE	RDTE/Other Research & Development-Basic Re	61
	OREGON STATE UNIVERSITY	Oregon	NAVY OCE	RDTE/Other Research & Development-Basic Re	210 286
		STATE TOTAL			496
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	500
		Hawaii	NAVY	RDTE/Other Research & Development-Basic Re	50
		CONTRACTOR TOTAL			550
	OUACHITA BAPTIST UNIVERSITY	Arkansas	OCE	RDTE/Other Research & Development-Basic Re	56
	OWENS CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	70
	P C P INC	Florida	NAVY	RDTE/Other Research & Development-Basic Re	62
	P E SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	563
	PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re	49 50
		STATE TOTAL			99

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	CONTRACTOR TOTAL				
	PENNSYLVANIA STATE UNIV INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	\$ 49
	PERKIN ELMER CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Basic Re	148
	PHYSICAL OPTICS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Basic Re	444
		California	ARMY	RDTE/Other Research & Development-Basic Re	200
			USAF	RDTE/Other Research & Development-Basic Re	50
				RDTE/Other Research & Development-Basic Re	49
		STATE TOTAL			99
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	125
			NAVY	RDTE/Other Research & Development-Basic Re	50
		STATE TOTAL			175
	POTOMAC PHOTONICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	230
	POTOMAC RESEARCH INCORPORATED	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	80
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	52
	PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	118
	PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	410
	PRINCETON XRAY LASER	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	50
	PRODUCT PLANNING INC	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	98
	PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	50
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Research & Development-Basic Re	479
			OCE	RDTE/Other Research & Development-Basic Re	108
		STATE TOTAL			587
	Q DOT INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	48
	QUEST STRUCTURES	California	OCE	RDTE/Other Research & Development-Basic Re	26
	QUESTECH INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	521
	RANTECH CO	California	NAVY	RDTE/Other Research & Development-Basic Re	75
	RAYTHEON COMPANY	California	NAVY	RDTE/Other Research & Development-Basic Re	590

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

CONTRACTOR TOTAL					
RENSSELAER POLYTECHNIC INST	Mass	NAVY	RDTE/Other Research & Development-Basic Re	\$	265
RESEARCH SUPPORT INSTRUMENTS	Rhode Isld	NAVY	RDTE/Other Research & Development-Basic Re		291
ROCKWELL INTERNATIONAL CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re		1,146
RONDOUT ASSOCIATES INC	Maryland	USAF	RDTE/Other Research & Development-Basic Re		645
ROWE DEINES INSTRUMENTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re		48
ROYBAL & ASSOC A PROF CORP	New York	USAF	RDTE/Other Research & Development-Basic Re		358
RUTGERS THE STATE UNIVERSITY	California	OCE	RDTE/Other Research & Development-Basic Re		33
S C S TELECOM INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		306
S F A INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		100
	New York	ARMY	RDTE/Other Research & Development-Basic Re		275
	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		60
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		2,580
					252
					2,832
CONTRACTOR TOTAL					44
S M SYSTEMS & RESEARCH CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		200
S T SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re		935
SAN DIEGO STATE UNIVRSITY FOU	California	NAVY	RDTE/Other Research & Development-Basic Re		49
SAVANNAH RIVER ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		179
SCHOTT GLASS TECHNOLOGIES INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		545
SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		2,049
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		121
	NAVY	RDTE/Other Research & Development-Basic Re			2,170
STATE TOTAL					2,715
CONTRACTOR TOTAL					

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	73 555 443
	STATE TOTAL				1,071
		Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	61
		Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	505 213
	STATE TOTAL				718
	CONTRACTOR TOTAL				1,850
	SCIENTIFIC APPLICANTS & RESCH	California	ARMY	RDTE/Other Research & Development-Basic Re	49
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	56
	SCIENTIFIC SYSTEMS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	60
	SEAY THOMAS S INC	California	NAVY	RDTE/Other Research & Development-Basic Re	59
	SECHAN ELECTRONICS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	152
	SECO DYN INC	California	ARMY	RDTE/Other Research & Development-Basic Re	180
	SEDIMENT INSTRMTATION RES DEV	Oregon	OCE	RDTE/Other Research & Development-Basic Re	75
	SENSIS CORPORATION	New York	NAVY	RDTE/Other Research & Development-Basic Re	47
	SHEILDING TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	48
	SHENANDOAH SYSTEMS CO INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	57
	SIGMA RESEARCH INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	101
	SIMPSON WEATHER ASSOCIATES	Virginia	USAF	RDTE/Other Research & Development-Basic Re	48
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	341
	SJS CORPORATION	Oregon	OCE	RDTE/Other Research & Development-Basic Re	45
	SMITH OCEAN SCIENCE & ENGINEER	N Carolina	OCE	RDTE/Other Research & Development-Basic Re	30
	SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	842
		Florida	NAVY	RDTE/Other Research & Development-Basic Re	4,081

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	CONTRACTOR TOTAL				
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re	4,923
	SONOSCAN INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	60
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re	49
	SOUTHWEST AEROSPACE CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	38
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Basic Re	945
			NAVY	RDTE/Other Research & Development-Basic Re	100
			NAVY	RDTE/Other Research & Development-Basic Re	137
		STATE TOTAL			237
	SPARKTECH	California	NAVY	RDTE/Other Research & Development-Basic Re	49
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Basic Re	50
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	49
					99
	CONTRACTOR TOTAL				37
	SPAULDING COMPOSITES COMPANY	New York	ARMY	RDTE/Other Research & Development-Basic Re	334
	SPECTRON DEVELOPMENT LABS	California	ARMY	RDTE/Other Research & Development-Basic Re	46
	SPHINX TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	261
	SPIRE CORPORATION	Mass	ARMY USAF	RDTE/Other Research & Development-Basic Re	48
			STATE TOTAL		
		Conn	ARMY	RDTE/Other Research & Development-Basic Re	309
	SPRINGBORN LABORATORIES INC	California	ARMY DLA	RDTE/Other Research & Development-Basic Re	150
	SRI INTERNATIONAL				308
					3,019
		STATE TOTAL			3,327
	STANDARD GRAVEL COMPANY INC	Louisiana	OCE	RDTE/Other Research & Development-Basic Re	128
	STANFORD UNIVERSITY	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re	2,843
					100
		STATE TOTAL			2,943

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AZ11 (CONTINUED)					
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re	\$ 901
	STATISTICAL SIGNAL	California	ARMY	RDTE/Other Research & Development-Basic Re	135
	SURFACE OPTICS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	100
	SUTTON M M & ASSOCS	California	ARMY	RDTE/Other Research & Development-Basic Re	157
	SYNDETIX INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	663
	SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other Research & Development-Basic Re	100
	SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	3,346
	T P L INC	New Mexico	NAVY	RDTE/Other Research & Development-Basic Re	50
	TACAN CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	TARTAN LABORATORIES INC	Penn	USAF	RDTE/Other Research & Development-Basic Re	710
	TAYLOR J F INC	Maryland	USAF	RDTE/Other Research & Development-Basic Re	161
	TEACHING STRATEGIES INC	D.C.	ARMY	RDTE/Other Research & Development-Basic Re	55
	TECHNO SCIENCES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	200
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	37
	TELESOFT	California	USAF	RDTE/Other Research & Development-Basic Re	729
	TEXAS A & M RESEARCH FDN	Texas	ARMY OCE	RDTE/Other Research & Development-Basic Re	100 49
			STATE TOTAL		149
	TEXAS INSTRUMENTS INC	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re	163 295
			STATE TOTAL		458
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Basic Re	719
	THERMO ELCTRON' THNOLGIES CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	3,555
	THURMAN W. GADDIE	Ohio	OCE	RDTE/Other Research & Development-Basic Re	79
	TOOMAY MATHIS & ASSOCIATES	Montana	ARMY	RDTE/Other Research & Development-Basic Re	93
	TORRANCE ADVANCED METALS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	TRACOR AEROSPACE INC	Utah	ARMY	RDTE/Other Research & Development-Basic Re	31
	TROWER W PETER	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	50
	TRW INC	California	ARMY	RDTE/Other Research & Development-Basic Re	40
		NAVY	RDTE/Other Research & Development-Basic Re	5,243	
	STATE TOTAL				5,283
	CONTRACTOR TOTAL				855
	TUSKEGEE UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	6,138
	TVI CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	100
		Maryland	ARMY	RDTE/Other Research & Development-Basic Re	50
	UNITED STATES DEPT TRANSPORTN	Mass	NAVY	RDTE/Other Research & Development-Basic Re	90
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Basic Re	164
		NAVY	RDTE/Other Research & Development-Basic Re	60	
		USAF	RDTE/Other Research & Development-Basic Re	87	
	STATE TOTAL				311
	CONTRACTOR TOTAL				280
	UNIV OF CAMBRIDGE	Florida	NAVY	RDTE/Other Research & Development-Basic Re	591
	UNIVERSITIES SPACE RES ASSN	UNITED KIN	NAVY	RDTE/Other Research & Development-Basic Re	45
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	1,285
	UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	102
		OCE	RDTE/Other Research & Development-Basic Re	85	
	STATE TOTAL				187
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	126
		USAF	RDTE/Other Research & Development-Basic Re	111	
	STATE TOTAL				237
	UNIVERSITY OF ALASKA	Alaska	ARMY	RDTE/Other Research & Development-Basic Re	74
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ11 (CONTINUED)

UNIVERSITY OF ARKANSAS	Arkansas	ARMY	RDTE/Other Research & Development-Basic Re	\$	84
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Basic Re		1,790
		NAVY	RDTE/Other Research & Development-Basic Re		108
		OCE	RDTE/Other Research & Development-Basic Re		32
	STATE TOTAL				1,930
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Basic Re		152
UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		133
		NAVY	RDTE/Other Research & Development-Basic Re		201
	STATE TOTAL				334
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		340
		OCE	RDTE/Other Research & Development-Basic Re		75
	STATE TOTAL				415
UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Research & Development-Basic Re		50
UNIVERSITY OF DAYTON INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		78
		USAF	RDTE/Other Research & Development-Basic Re		35
	STATE TOTAL				113
UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Other Research & Development-Basic Re		962
UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Research & Development-Basic Re		460
		USAF	RDTE/Other Research & Development-Basic Re		60
		OCE	RDTE/Other Research & Development-Basic Re		67
	STATE TOTAL				587
UNIVERSITY OF GEORGIA	Georgia	OCE	RDTE/Other Research & Development-Basic Re		29
UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re		61
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		2,391
		NAVY	RDTE/Other Research & Development-Basic Re		150
	STATE TOTAL				2,541
UNIVERSITY OF IOWA	Iowa	NAVY	RDTE/Other Research & Development-Basic Re		114
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Research & Development-Basic Re		98

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AZ11 (CONTINUED)						
			OCE	RDTE/Other Research & Development-Basic Re	\$	108
		STATE TOTAL				206
	UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Research & Development-Basic Re		45
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		1,003
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Basic Re		414
			OCE	RDTE/Other Research & Development-Basic Re		47
		STATE TOTAL				461
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re		159
			OCE	RDTE/Other Research & Development-Basic Re		70
		STATE TOTAL				229
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		3,287
			OCE	RDTE/Other Research & Development-Basic Re		26
		STATE TOTAL				3,313
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		6,831
	UNIVERSITY OF MISSISSIPPI	Miss	OCE	RDTE/Other Research & Development-Basic Re		83
	UNIVERSITY OF MISSOURI	Missouri	ARMY	RDTE/Other Research & Development-Basic Re		163
	UNIVERSITY OF OREGON	Oregon	ARMY	RDTE/Other Research & Development-Basic Re		149
	UNIVERSITY OF PENNSYLVANIA	Penn	ARMY	RDTE/Other Research & Development-Basic Re		2,013
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Research & Development-Basic Re		212
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Research & Development-Basic Re		2,546
	UNIVERSITY OF SOUTH ALABAMA	Alabama	OCE	RDTE/Other Research & Development-Basic Re		32
	UNIVERSITY OF SOUTH CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Basic Re		135
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re		160
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Basic Re		3,014
			USAF	RDTE/Other Research & Development-Basic Re		214
		STATE TOTAL				3,228

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Research & Development-Basic Re	\$ 94
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	300
	UNIVERSITY OF TEXAS AT DALLAS	Texas	NAVY	RDTE/Other Research & Development-Basic Re	225
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re	236
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	100
	UNIVERSITY OF WASHINGTON	Washington	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	97 48
	STATE TOTAL				145
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	1,743
	UNIVERSITY RESEARCH FOUNDATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	405
	UNIVERSITY SYSTEM OF NH	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	48
	UTAH STATE UNIVERSITY	Utah	OCE	RDTE/Other Research & Development-Basic Re	59
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	90
	VIRGINIA PLYCHNIC INST/ST UNI	Virginia	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	48 30
	STATE TOTAL				78
	VISTA RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re	28
	VITTOR BARRY A & ASSOCIATES	Alabama	OCE	RDTE/Other Research & Development-Basic Re	188
		S Carolina	OCE	RDTE/Other Research & Development-Basic Re	97
	CONTRACTOR TOTAL				285
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Basic Re	497
	WASHINGTON UNIVERSITY	Missouri	OCE	RDTE/Other Research & Development-Basic Re	51
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	208
	WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	75
		New York	ARMY	RDTE/Other Research & Development-Basic Re	65
	CONTRACTOR TOTAL				140

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

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	WEST VIRGINIA RESEARCH CORP	W Virginia	ARMY	RDTE/Other Research & Development-Basic Re	\$ 65
	WESTAT INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	224
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	182
			USAF	RDTE/Other Research & Development-Basic Re	432
	STATE TOTAL				614
		Penn	ARMY	RDTE/Other Research & Development-Basic Re	134
			NAVY	RDTE/Other Research & Development-Basic Re	364
	STATE TOTAL				498
	CONTRACTOR TOTAL				1,112
	WETLANDS RESEARCH INC	Illinois	OCE	RDTE/Other Research & Development-Basic Re	100
	WICKERSHEIMER ENGINEERS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	110
	WOODS HOLE OCNRPIC INSTITUTE	Mass	NAVY	RDTE/Other Research & Development-Basic Re	560
	WORCESTER PLYTECHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Basic Re	85
	YARDNEY TECHNICAL PRODUCTS	Conn	NAVY	RDTE/Other Research & Development-Basic Re	47
	ZELIGSON COMPANY	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re	61
	ZYBRON INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	300
	R&D TOTAL				217,146
AZ12	A A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	124
	ACCSYS TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Explor D	288
	ADELMAN S ASSOCIATES	Virginia	ARMY	RDTE/Other Research & Development-Explor D	51
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Explor D	250
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Research & Development-Explor D	490
	ADVANCED MATERIALS LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Explor D	26
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Explor D	36
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Research & Development-Explor D	375
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Research & Development-Explor D	420

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	AEROJET	California	USAF	RDTE/Other Research & Development-Explor D	\$ 100
	ALLIANT TECHSYSTEMS INC	Minnesota	NAVY	RDTE/Other Research & Development-Explor D	50
		Penn	NAVY	RDTE/Other Research & Development-Explor D	357
	CONTRACTOR TOTAL				407
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Other Research & Development-Explor D	460
	ALPHATECH INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	191
	AMCOMP CORP	California	ARMY	RDTE/Other Research & Development-Explor D	33
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	49
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Other Research & Development-Explor D	300
	AMOCO CHEMICAL CO	Georgia	NAVY	RDTE/Other Research & Development-Explor D	2,660
	ANTECH INC	Georgia	ARMY	RDTE/Other Research & Development-Explor D	75
	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	167
	APPLIED RESEARCH LABORATORY	Virginia	NAVY	RDTE/Other Research & Development-Explor D	538-
	APPLIED SCIENCES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	244
	APTEK INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D	392
	ARMSTRONG COMPUTING INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Other Research & Development-Explor D	174
	ASI SYSTEMS INTERNATIONAL	Florida	USAF	RDTE/Other Research & Development-Explor D	2,625
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	121
	CONTRACTOR TOTAL				2,746
	BAKHAR ASSOCIATES	California	USAF	RDTE/Other Research & Development-Explor D	50
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Explor D	795
	BATTELLE DEVELOPMENT CORP	Ohio	NAVY	RDTE/Other Research & Development-Explor D	394

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Explor D	\$ 566
	BDM INTERNATIONAL INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	255
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	5,052
	CONTRACTOR TOTAL				5,307
	BEI ELECTRONICS INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	50
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	65-
	BIGGER THAN LIFE INC	California	NAVY	RDTE/Other Research & Development-Explor D	646
	BIONETICS CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	170
	BOEING AEROSPACE & ELECTRONICS	Washington	ARMY	RDTE/Other Research & Development-Explor D	80
	BOEING COMPANY THE	Penn	ARMY	RDTE/Other Research & Development-Explor D	461
		Washington	ARMY	RDTE/Other Research & Development-Explor D	60
			NAVY	RDTE/Other Research & Development-Explor D	80
	CONTRACTOR TOTAL			STATE TOTAL	140
	30LT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	601
			NAVY	RDTE/Other Research & Development-Explor D	628
					245
	CONTRACTOR TOTAL			STATE TOTAL	873
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explor D	162
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	383
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Explor D	1,285
	CARTER ANALYTICAL LABORATORY	California	ARMY	RDTE/Other Research & Development-Explor D	150
	CERADYNE INC	California	ARMY	RDTE/Other Research & Development-Explor D	93
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Explor D	50
	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Other Research & Development-Explor D	45
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	2,120
	COMPU CAD INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	45
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Research & Development-Explor D	150
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	400
	CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Explor D	250
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	403
	DECISION SCIENCE APPLICATIONS	Virginia	NAVY	RDTE/Other Research & Development-Explor D	248
	DECISION SYSTEMS TECH INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	494
	DETROIT DIESEL CORP	Michigan	NAVY	RDTE/Other Research & Development-Explor D	1,022
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	435
	DU PONT E I DE NEMOURS & CO	Delaware	NAVY	RDTE/Other Research & Development-Explor D	133
	E I C LABORATORY INC	Mass	USAF	RDTE/Other Research & Development-Explor D	364
	EAGLE PICHER INDUSTRIES INC	Missouri	NAVY	RDTE/Other Research & Development-Explor D	330
	EASTPORT INTERNATIONAL INC	California	NAVY	RDTE/Other Research & Development-Explor D	504
	EATON CORPORATION	New York	NAVY	RDTE/Other Research & Development-Explor D	60
	ELECTRO OPTICAL SYSTEM	Penn	NAVY	RDTE/Other Research & Development-Explor D	50
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Other Research & Development-Explor D	57
	ENSCO INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	728
	ENSIGN BICKFORD INDUSTRIES	Conn	NAVY	RDTE/Other Research & Development-Explor D	220
	ENTRON SYSTEMS CO	California	NAVY	RDTE/Other Research & Development-Explor D	101
	FALON INC	California	NAVY	RDTE/Other Research & Development-Explor D	460
	FAR WEST SENSOR CORP	California	USAF	RDTE/Other Research & Development-Explor D	419
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Other Research & Development-Explor D	783

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
			NAVY	RDTE/Other Research & Development-Explor D	\$ 37
			STATE TOTAL		820
	FORCE INSTITUTE	DENMARK	ARMY	RDTE/Other Research & Development-Explor D	30
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	50
			NAVY	RDTE/Other Research & Development-Explor D	58
			STATE TOTAL		108
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	3,306
	GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	300
		New York	NAVY	RDTE/Other Research & Development-Explor D	150
			CONTRACTOR TOTAL		450
	GENESIS CONSULTANTS LTD	Texas	ARMY	RDTE/Other Research & Development-Explor D	76-
	GEO CENTERS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	1,745
			USAF	RDTE/Other Research & Development-Explor D	50
			STATE TOTAL		1,795
	GEODYNAMICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	210
	GEOPHEX LTD	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	152
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Explor D	50
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Explor D	830
		Ohio	ARMY	RDTE/Other Research & Development-Explor D	985
	GUILD ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	298
	GUMBS ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Explor D	394
	H R TEXTRON INC	Virginia	USAF	RDTE/Other Research & Development-Explor D	310
	HARRIS GROUP THE INC	Hawaii	ARMY	RDTE/Other Research & Development-Explor D	56
	HAWAII BIOTECHNOLOGY GROUP	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	75
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Other Research & Development-Explor D	378

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	HONEYWELL INC	Minnesota	USAF	RDTE/Other Research & Development-Explor D	453
	HRB SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	112
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Explor D	95
			NAVY	RDTE/Other Research & Development-Explor D	127
			USAF	RDTE/Other Research & Development-Explor D	70
				RDTE/Other Research & Development-Explor D	479
	STATE TOTAL				
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	NAVY	RDTE/Other Research & Development-Explor D	676
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Explor D	5,047
	I MATH ASSOCIATES INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	375
	I S T INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	303
	IABG	GERMANY	NAVY	RDTE/Other Research & Development-Explor D	1,344
	INDUSTRIAL DYNAMICS COMPANY	Maryland	NAVY	RDTE/Other Research & Development-Explor D	143
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	39
	INFORMATION SYSTEMS NETWORKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	150
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	139
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Other Research & Development-Explor D	733
	ITT CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Explor D	60
	JAYCOR	California	NAVY	RDTE/Other Research & Development-Explor D	196
		Miss	USAF	RDTE/Other Research & Development-Explor D	342
	CONTRACTOR TOTAL				
	K M S INDUSTRIES INC	Michigan	ARMY	RDTE/Other Research & Development-Explor D	75
	KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Other Research & Development-Explor D	417
	KAISER OPTICAL SYSTEMS INC	Michigan	NAVY	RDTE/Other Research & Development-Explor D	50
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	437
					99
					491

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION

AZ12 (CONTINUED)

KOT INDUSTRIES INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	\$	125
KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D		616
KLOHN LEONOFF LTD	Washington	NAVY	RDTE/Other Research & Development-Explor D		46
KTECH CORPORATION	New Mexico	NAVY	RDTE/Other Research & Development-Explor D		168
L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Research & Development-Explor D		33
L J F CORP	New Jersey	NAVY	RDTE/Other Research & Development-Explor D		493
LIFTEX INC	Penn	ARMY	RDTE/Other Research & Development-Explor D		333
LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Explor D		50
LOGISTICS MANAGEMENT ENGRG	Penn	ARMY	RDTE/Other Research & Development-Explor D		78
LORAL CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D		2,042
MACH I INC	Penn	ARMY	RDTE/Other Research & Development-Explor D		127
MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Explor D		64
		USAF	RDTE/Other Research & Development-Explor D		161
			RDTE/Other Research & Development-Explor D		48
			RDTE/Other Research & Development-Explor D		52
			RDTE/Other Research & Development-Explor D		100
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Explor D		642
		NAVY	RDTE/Other Research & Development-Explor D		50
			RDTE/Other Research & Development-Explor D		692
			RDTE/Other Research & Development-Explor D		116
			RDTE/Other Research & Development-Explor D		305
			RDTE/Other Research & Development-Explor D		421
CONTRACTOR TOTAL					1,113
MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Explor D		181
MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D		296
MAURER ENGINEERING INC	Texas	NAVY	RDTE/Other Research & Development-Explor D		36

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	MAXWELL LABORATORIES INC	California	NAVY	RDTE/Other Research & Development-Explor D	242
	MCA ENGINEERS INC	California	NAVY	RDTE/Other Research & Development-Explor D	76
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Research & Development-Explor D	517
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Explor D	3,280
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Research & Development-Explor D	300
	METRICA INC	Texas	USAF	RDTE/Other Research & Development-Explor D	269
	METROLASER	California	USAF	RJTE/Other Research & Development-Explor D	50
	METRON INC	California	NAVY	RDTE/Other Research & Development-Explor D	92
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Research & Development-Explor D	140
	MICRO SENSOR SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	50
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	1,500
	MINE SAFETY APPLIANCES CO	Penn	ARMY	RDTE/Other Research & Development-Explor D	50
	MIRAGE SYSTEMS	California	NAVY	RDTE/Other Research & Development-Explor D	250
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Other Research & Development-Explor D	192
	MULTISIGNAL TECHNOLOGY CORP	California	NAVY	RDTE/Other Research & Development-Explor D	103
	MULTISPEC CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	50
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Explor D	280
	NATIONAL CNCL ON RADTN PRCTN	Maryland	NAVY	RDTE/Other Research & Development-Explor D	45
	NEAL RESEARCH ASSOC INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	75
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Research & Development-Explor D	46
	NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	1,835
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	43
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Research & Development-Explor D	55

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Explor D	110
	NORTON CO DIAMOND FILMS DIV	Mass	ARMY	RDTE/Other Research & Development-Explor D	197
	OLIN ORDNANCE	Florida	ARMY	RDTE/Other Research & Development-Explor D	425
	ONTAR CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	100
	OPTIMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	176
		Michigan	ARMY	RDTE/Other Research & Development-Explor D	410
		New Mexico	ARMY	RDTE/Other Research & Development-Explor D	209
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	726
	CONTRACTOR TOTAL				1,521
	OREGON STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Research & Development-Explor D	71
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	4,485
	PHOTO METRIC INC	Mass	USAF	RDTE/Other Research & Development-Explor D	581
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	2,544
	PHOTONICS SYSTEMS INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	49
	POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other Research & Development-Explor D	125
	POTOMAC RESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Explor D	241
	POWERTRONIC SYSTEMS INC	Louisiana	NAVY	RDTE/Other Research & Development-Explor D	63
	PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	204
	QUANTUM CONSULTANTS INC	Michigan	ARMY	RDTE/Other Research & Development-Explor D	50
	RADEX INC	Mass	USAF	RDTE/Other Research & Development-Explor D	907
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	100
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	370
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	335
	ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other Research & Development-Explor D	33

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AZ12 (CONTINUED)					
	ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	200 280
		STATE TOTAL			480
	ROCKY MOUNTAIN INSTRUMENT CO	Colorado	ARMY	RDTE/Other Research & Development-Explor D	49
	RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Research & Development-Explor D	200
	S T SYSTEMS CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Explor D	1,694
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	50 50
		STATE TOTAL			100
	SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Other Research & Development-Explor D	90
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	1,224
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	1,442 2,903
		STATE TOTAL			4,345
	CONTRACTOR TOTAL	Virginia	NAVY	RDTE/Other Research & Development-Explor D	280
	SCIENCE RESEARCH LABORATORY	California	NAVY	RDTE/Other Research & Development-Explor D	4,625
	SEMCOR INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	500
	SENSCI CORP	Virginia	NAVY	RDTE/Other Research & Development-Explor D	366
	SOCIETY OF AUTO ENGINEERS	Penn	ARMY	RDTE/Other Research & Development-Explor D	649
	SOCIOMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	152
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Other Research & Development-Explor D	1,086
	SOLARCARE TECHNOLOGIES CORP	Penn	ARMY	RDTE/Other Research & Development-Explor D	475
	SOUTHERN RESEARCH INSTITUTE	Alabama	NAVY	RDTE/Other Research & Development-Explor D	49
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Explor D	635
					533

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	SPARTA INC	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	\$ 89 198
		STATE TOTAL			287
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Other Research & Development-Explor D	100
	SPECTRA TECHNOLOGY INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	62
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	250 253 50
		STATE TOTAL			553
	STANFORD UNIVERSITY	California	ARMY	RDTE/Other Research & Development-Explor D	652
	STERLING BAKERY INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	79
	STRUCTURAL ENGINEERING CONSULT	California	ARMY	RDTE/Other Research & Development-Explor D	43
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Research & Development-Explor D	75
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Research & Development-Explor D	49
	SYMBOTECH INC	Conn	ARMY	RDTE/Other Research & Development-Explor D	39
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	200
	TERA RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Explor D	60
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Other Research & Development-Explor D	250
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Explor D	682
	THERMEDICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	900
	THIOL CORPORATION	Alabama	NAVY	RDTE/Other Research & Development-Explor D	121
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	135
		Utah	NAVY	RDTE/Other Research & Development-Explor D	285
		Penn	ARMY	RDTE/Other Research & Development-Explor D	541
	THREE C SYSTEMS INC				58
	CONTRACTOR TOTAL				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	TITAN CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	312
	TORRINGTON COMPANY THE	Conn	ARMY	RDTE/Other Research & Development-Explor D	361
	TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Other Research & Development-Explor D	50
		Utah	ARMY	RDTE/Other Research & Development-Explor D	149
	CONTRACTOR TOTAL				
	TRW INC	California	USAF	RDTE/Other Research & Development-Explor D	199
	TSI INCORPORATED	Minnesota	ARMY	RDTE/Other Research & Development-Explor D	510
	TULANE UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development-Explor D	1,020
	ULTROX INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Explor D	75
	UNITED STATES DEPT OF COMMERCE	Maryland	NAVY	RDTE/Other Research & Development-Explor D	140
	UNITED STATES DEPT TRANSPORTN	D.C.	NAVY	RDTE/Other Research & Development-Explor D	40
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Explor D	305
		Florida	NAVY	RDTE/Other Research & Development-Explor D	3,668
	CONTRACTOR TOTAL				
	UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	450
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Other Research & Development-Explor D	4,118
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Explor D	1,068
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Explor D	97
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Explor D	308
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	40
	UNIVERSITY OF MISSISSIPPI	Miss	NAVY	RDTE/Other Research & Development-Explor D	200
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Other Research & Development-Explor D	150
	UNIVERSITY OF SOUTH DAKOTA	S Dakota	ARMY	RDTE/Other Research & Development-Explor D	128
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Other Research & Development-Explor D	47
					60
					115

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
US DOE		Tennessee	NAVY	RDTE/Other Research & Development-Explor D	260
		Washington	NAVY	RDTE/Other Research & Development-Explor D	72
	CONTRACTOR TOTAL				332
UTAH STATE UNIVERSITY		Utah	USAF	RDTE/Other Research & Development-Explor D	1,500
UVEX WINTER OPTICAL INC		Rhode Isld	ARMY	RDTE/Other Research & Development-Explor D	208
VENTURE SCIENTIFIC INC		Texas	ARMY	RDTE/Other Research & Development-Explor D	50
VIASAT INC		California	NAVY	RDTE/Other Research & Development-Explor D	650
WESTINGHOUSE ELECTRIC CORP		Maryland	ARMY	RDTE/Other Research & Development-Explor D	138
		Penn	USAF	RDTE/Other Research & Development-Explor D	300
	CONTRACTOR TOTAL				438
WRIGHT STATE UNIVERSITY		Ohio	USAF	RDTE/Other Research & Development-Explor D	143
WYLE LABORATORIES		California	USAF	RDTE/Other Research & Development-Explor D	168
XFORM. INC.		New York	ARMY	RDTE/Other Research & Development-Explor D	52
YARDNEY TECHNICAL PRODUCTS		Conn	NAVY	RDTE/Other Research & Development-Explor D	260
R&D TOTAL					109,579
AZ13 A A I CORPORATION		Maryland	ARMY	RDTE/Other Research & Development-Advanced	1,528
ADVANCED COMPOSITE PRODUCTS		Conn	ARMY	RDTE/Other Research & Development-Advanced	235
ADVANCED FUEL RESEARCH INC		Conn	ARMY	RDTE/Other Research & Development-Advanced	232
ADVANCED PROCESSING LABS		California	NAVY	RDTE/Other Research & Development-Advanced	275
AERO OPTICS INC		California	USAF	RDTE/Other Research & Development-Advanced	150
ALLIANT TECHSYSTEMS INC		Minnesota	NAVY	RDTE/Other Research & Development-Advanced	106
AMPTK INC		Mass	USAF	RDTE/Other Research & Development-Advanced	1,392
ANALYTIC SCIENCE CORP THE		Florida	USAF	RDTE/Other Research & Development-Advanced	310
ANALYTIX GROUP		Texas	ARMY	RDTE/Other Research & Development-Advanced	42

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F&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$

AZ13 (CONTINUED)

APPLIED ORDNANCE TECHNOLOGY	Virginia	NAVY	RDTE/Other Research & Development-Advanced		37
ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Advanced		282
AUTOMATION MANAGEMENT CONS	Maryland	NAVY	RDTE/Other Research & Development-Advanced		60
AVCO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Advanced		227
B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced		417
BABCOCK & WILCOX COMPANY THE	Ohio	NAVY	RDTE/Other Research & Development-Advanced		2,702
BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Other Research & Development-Advanced		109
BALL CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced		854
BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced		550
BARR ASSOCIATES INCORPORATED	Mass	ARMY	RDTE/Other Research & Development-Advanced		141
BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Other Research & Development-Advanced		3,157
BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Advanced		349
BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Advanced		1,738
C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced		155
CALSPAN CORPORATION	New York	USAF	RDTE/Other Research & Development-Advanced		44
CANADIAN COMMERCIAL CORP	CANADA	ARMY USAF	RDTE/Other Research & Development-Advanced RDTE/Other Research & Development-Advanced		5,833 42
STATE TOTAL					5,875
CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Research & Development-Advanced		25,959
CEMCOM CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced		125
COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced		563
CORNING INC	New York	USAF	RDTE/Other Research & Development-Advanced		838
DAEDALEAN INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced		518
DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Advanced		146

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	DYNAMET TECHNOLOGY INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	114
	ELECTRONIC COMPONENT SALES	Maryland	NAVY	RDTE/Other Research & Development-Advanced	300
	FABEL SYSTEM CORP	Florida	USAF	RDTE/Other Research & Development-Advanced	260
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	96
			USAF	RDTE/Other Research & Development-Advanced	253
	STATE TOTAL				349
	FROST ENGINEERING DEVELOPMENT	Colorado	USAF	RDTE/Other Research & Development-Advanced	150
	GENERAL ATOMICS	California	ARMY	RDTE/Other Research & Development-Advanced	60
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	886
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Advanced	110
	GEO CENTERS INC	New Jersey	NAVY	RDTE/Other Research & Development-Advanced	488
	GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Other Research & Development-Advanced	378
	H M J CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Advanced	68
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Advanced	2,836
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	50
	INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Other Research & Development-Advanced	336
		Virginia	NAVY	RDTE/Other Research & Development-Advanced	124
	CONTRACTOR TOTAL				460
	ITT CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Advanced	440
	KAISER OPTICAL SYSTEMS INC	Michigan	NAVY	RDTE/Other Research & Development-Advanced	149
	LOCKHEED CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	938
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Advanced	120
			USAF	RDTE/Other Research & Development-Advanced	800
	STATE TOTAL				920
	LOGICON INC	California	ARMY	RDTE/Other Research & Development-Advanced	150

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	LORAL CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	124
		New York	USAF	RDTE/Other Research & Development-Advanced	100
	CONTRACTOR TOTAL				224
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	250
		Colorado	USAF	RDTE/Other Research & Development-Advanced	500
		Florida	USAF	RDTE/Other Research & Development-Advanced	1,591
	CONTRACTOR TOTAL				2,341
	MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Other Research & Development-Advanced	375,932
	MATERIALS & ELECTROCHEMICAL	Arizona	ARMY	RDTE/Other Research & Development-Advanced	100
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Advanced	232
	MERCURY COMPUTER SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Advanced	42
	METROLASER	California	USAF	RDTE/Other Research & Development-Advanced	216
	MIRAGE SYSTEMS	California	ARMY	RDTE/Other Research & Development-Advanced	401
		Virginia	ARMY	RDTE/Other Research & Development-Advanced	510
	CONTRACTOR TOTAL				911
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	344
	MODULAR COMPONENTS NATIONAL	Maryland	USAF	RDTE/Other Research & Development-Advanced	50
	MYSTECH ASSOCIATES INC	Conn	NAVY	RDTE/Other Research & Development-Advanced	49
	NEOCERA INC	New Jersey	USAF	RDTE/Other Research & Development-Advanced	48
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Research & Development-Advanced	200
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Advanced	99
	O A O CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced	331
	OLIN CORP	Tennessee	ARMY	RDTE/Other Research & Development-Advanced	2,926
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	697

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	PARKER KINETIC DESIGN INC	Florida	USAF	RDTE/Other Research & Development-Advanced	4,641
	PATHFINDER SOFTWARE INC	Colorado	NAVY	RDTE/Other Research & Development-Advanced	469
	PHYSICAL RESEARCH INC	California	USAF	RDTE/Other Research & Development-Advanced	51
	R & D ASSOCIATES	California	USAF	RDTE/Other Research & Development-Advanced	110
	RADEX INC	Mass	USAF	RDTE/Other Research & Development-Advanced	415
	RASOR ASSOCIATES INC	California	USAF	RDTE/Other Research & Development-Advanced	250
	RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Other Research & Development-Advanced	400
	RESEARCH SCIENCES INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced	183
	RGI INC	California	NAVY	RDTE/Other Research & Development-Advanced	1,469
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Other Research & Development-Advanced RDTE/Other Research & Development-Advanced RDTE/Other Research & Development-Advanced	155 153 1,200
	STATE TOTAL				1,508
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Research & Development-Advanced	374
	S F A INC	D.C.	NAVY	RDTE/Other Research & Development-Advanced	1,756
	S T SYSTEMS CORPORATION	D.C.	USAF	RDTE/Other Research & Development-Advanced	215
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Other Research & Development-Advanced	109
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Advanced	150
	SRI INTERNATIONAL	California	USAF	RDTE/Other Research & Development-Advanced	459
	SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	110
	SUNREZ CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	156
	SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Advanced	71
	TELEDYNE INDUSTRIES INC	Alabama	USAF	RDTE/Other Research & Development-Advanced	250
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Advanced	210
	THERMACORE INC	Penn	USAF	RDTE/Other Research & Development-Advanced	155

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	TREMETRICS INC	Texas	USAF	RDTE/Other Research & Development-Advanced	414
	ULTRAMET	California	ARMY	RDTE/Other Research & Development-Advanced	49
	UNITED STATES DEPT OF COMMERCE	Maryland	NAVY	RDTE/Other Research & Development-Advanced	35
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Other Research & Development-Advanced	152
	UNIVERSAL SERVICES ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Advanced	140
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Other Research & Development-Advanced	440
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Advanced	4,023
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Research & Development-Advanced	35
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Advanced	50
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Other Research & Development-Advanced	1,004
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Other Research & Development-Advanced	437
	UNIVERSITY OF UTAH	New Mexico	ARMY	RDTE/Other Research & Development-Advanced	125
	US DOE	Maryland	NAVY	RDTE/Other Research & Development-Advanced	200
	VISIDYNE INC	Mass	USAF	RDTE/Other Research & Development-Advanced	2,018
	WINDROCK ASSOCIATES	Tennessee	ARMY	RDTE/Other Research & Development-Advanced	150
	WORCESTER PLYTECHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Advanced	82
	R&D TOTAL				465,829
AZ14	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Engr Dev	888
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	189
	ANALYTIC SCIENCE CORP THE	Florida	USAF	RDTE/Other Research & Development-Engr Dev	779
	APPLIED TECHNOLOGIES INC	Colorado	ARMY	RDTE/Other Research & Development-Engr Dev	226
	BDM INTERNATIONAL INC	California	USAF	RDTE/Other Research & Development-Engr Dev	66
	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Other Research & Development-Engr Dev	2,525
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	7,138

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)					
	BOURNLEA INSTRUMENTS LTD	UNITED KIN	NAVY	RDTE/Other Research & Development-Engr Dev	57
	C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Engr Dev	159
	CAE INDUSTRIES LTD	Texas	ARMY	RDTE/Other Research & Development-Engr Dev	285
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Research & Development-Engr Dev	83
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	2,167
	CTA INCORPORATED	Ohio	USAF	RDTE/Other Research & Development-Engr Dev	1,184
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Other Research & Development-Engr Dev	411
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	1,288
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Other Research & Development-Engr Dev	38
	FERMIONICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Engr Dev	50
	GENERAL ANALYTICS INC	Georgia	NAVY	RDTE/Other Research & Development-Engr Dev	40
	GENERAL ELECTRIC COMPANY	Ohio	NAVY	RDTE/Other Research & Development-Engr Dev	200
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Engr Dev	19,181
	HILTON SYSTEMS INC	Miss	NAVY	RDTE/Other Research & Development-Engr Dev	3,759
	INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	46
	INFORMATION MANAGEMENT CONS	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	74
	INTERMETRICS INC	Penn	NAVY	RDTE/Other Research & Development-Engr Dev	65
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Research & Development-Engr Dev	1,846
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Research & Development-Engr Dev	802
	MICROTURBO NORTH AMERICA INC	Texas	ARMY	RDTE/Other Research & Development-Engr Dev	1,640
	MITRE CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	247,857
	ODYSSEY RESEARCH ASSOCIATES	New York	NAVY	RDTE/Other Research & Development-Engr Dev	577
	PHILLIPS CARTNER & CO INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	70
	PRAGMATICS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	290

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-		\$
AZ14 (CONTINUED)						
	RESEARCH APPLICATIONS INC	Texas	USAF	RDTE/Other Research & Development-Engr Dev		141
	RESOURCE CONSULTANTS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		520
	RF MICROSYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		704
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Other Research & Development-Engr Dev		4,327
		New Mexico	ARMY	RDTE/Other Research & Development-Engr Dev		775
		Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		13,022
	CONTRACTOR TOTAL					18,124
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Engr Dev		105
	SHEARWATER INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		140
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Engr Dev		450
	SITA CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		1,488
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		300
	TECHNOLOGY SOLUTIONS GRP INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		250
	TECHPLAN CORP	Virginia	NAVY	RDTE/Other Research & Development-Engr Dev		67
	TROYS WELDING INC	New Mexico	NAVY	RDTE/Other Research & Development-Engr Dev		32
	TRW INC	California	USAF	RDTE/Other Research & Development-Engr Dev		35
	UNIVERSITY OF UTAH	New Mexico	NAVY	RDTE/Other Research & Development-Engr Dev		35
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		768
	WARDLAW GRANT DR	AUSTRALIA	ARMY	RDTE/Other Research & Development-Engr Dev		29
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev		217
			USAF	RDTE/Other Research & Development-Engr Dev		69,171
	R&D TOTAL	STATE TOTAL				69,388
	AZ15 AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D		386,556
						50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ15 (CONTINUED)

ANALYTICAL SERVICES & MATERIAL	Virginia	USAF	RDTE/Other Research & Development-Op	Sys D	\$ 200
AUTOMATION MANAGEMENT CONS	Maryland	NAVY	RDTE/Other Research & Development-Op	Sys D	575
B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Op	Sys D	1,015
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Op	Sys D	50
BDM INTERNATIONAL INC	California	ARMY	RDTE/Other Research & Development-Op	Sys D	402
BOHEIM REOLOGI INC	New Jersey	ARMY	RDTE/Other Research & Development-Op	Sys D	98
CAS INC	Alabama	ARMY	RDTE/Other Research & Development-Op	Sys D	115
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Other Research & Development-Op	Sys D	1,539
FEMME COMP INC	Virginia	ARMY	RDTE/Other Research & Development-Op	Sys D	291
GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Op	Sys D	421
GEORGE WASHINGTON UNIV THE	D.C.	ARMY	RDTE/Other Research & Development-Op	Sys D	80
HARDIGG INDUSTRIES INC	Mass	ARMY	RDTE/Other Research & Development-Op	Sys D	333
HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Op	Sys D	1,850
I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Other Research & Development-Op	Sys D	41,837
	New York	USAF	RDTE/Other Research & Development-Op	Sys D	440
CONTRACTOR TOTAL					42,277
INSTRUCTIONAL SCIENCE & DEV	California	NAVY	RDTE/Other Research & Development-Op	Sys D	353
KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Op	Sys D	100
KAPPLER SAFETY GROUP INC	Alabama	NAVY	RDTE/Other Research & Development-Op	Sys D	49
KETRON INC	Maryland	ARMY	RDTE/Other Research & Development-Op	Sys D	329
LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Other Research & Development-Op	Sys D	11,279
LOGISTICS MGT INSTITUTE	Maryland	ARMY	RDTE/Other Research & Development-Op	Sys D	25,819
LOWER BRULE WILDLIFE	S Dakota	OCE	RDTE/Other Research & Development-Op	Sys D	30
MAGNAVOX GOVT & INDUSTRIAL ELCTR	New Jersey	ARMY	RDTE/Other Research & Development-Op	Sys D	354

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

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ15 (CONTINUED)					
	MICRION CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Op Sys D	285
	OKLAHOMA STATE UNIVERSITY	Oklahoma	USAF	RDTE/Other Research & Development-Op Sys D	53
	ONTAR CORPORATION	Mass	USAF	RDTE/Other Research & Development-Op Sys D	45
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Op Sys D	74
	ORION INTL TECHNOLOGIES	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	5,622
	PRAGMATICS INC	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	2,027
	PRC INC	California	NAVY	RDTE/Other Research & Development-Op Sys D	35
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Op Sys D	1,150
	RAYTHEON COMPANY	Mass	ARMY NAVY	RDTE/Other Research & Development-Op Sys D RDTE/Other Research & Development-Op Sys D	8,842 749
	STATE TOTAL				9,591
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Research & Development-Op Sys D	543
	RONA THOMAS P	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	50
	ROSCO LABORATORIES INC	New York	ARMY	RDTE/Other Research & Development-Op Sys D	198
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	6,234
	SHEPHERD J L & ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Op Sys D	68
	SOUTHWEST RESEARCH INSTITUTE	KOREA, REP	ARMY	RDTE/Other Research & Development-Op Sys D	83-
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Op Sys D	785
	STOTTLER HENKE ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Op Sys D	50
	SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	1,044
	SYSTEMS CONTROL TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Op Sys D	50
	U S SPRINT COMMUNICATIONS CO	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	1,025
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Research & Development-Op Sys D	1,907
		Florida	ARMY	RDTE/Other Research & Development-Op Sys D	451

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	STATE TOTAL	NAVY	RDTE/Other Research & Development-Op	Sys D	\$
AZ15 (CONTINUED)									
CONTRACTOR TOTAL									
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Op	Sys D				82
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Op	Sys D				533
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Op	Sys D				2,440
	UNIVERSITY OF VERMONT	Vermont	ARMY	RDTE/Other Research & Development-Op	Sys D				500
	VEXCEL CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Op	Sys D				14,268
	R&D TOTAL								133,907
AZ16 A T S S INC									
	ADVANCED TECHNOLOGY & RESEARCH	California	USAF	RDTE/Other Research & Development-Mgmt & S					192
	ADVANCED TECHNOLOGY MATERIALS	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S					34
	AEROSPACE TECHNOLOGY COMPANY	Conn	USAF	RDTE/Other Research & Development-Mgmt & S					50
	ALLIED SIGNAL AEROSPACE CO	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S					50
	ALPHATECH INC	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S					462
	AM SOCIETY OF MECHANICAL ENGIN	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S					50
	AMHERST SYSTEMS INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S					254
	ANALOG CIRCUIT DESIGN	New York	USAF	RDTE/Other Research & Development-Mgmt & S					47
	ANALYSIS & TECHNOLOGY INC	Minnesota	NAVY	RDTE/Other Research & Development-Mgmt & S					50
	CONTRACTOR TOTAL	California	NAVY	RDTE/Other Research & Development-Mgmt & S					115
	ANALYTICAL SOFTWARE INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S					275
	APPLIED MODERN	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S					390
	APPLIED RESEARCH ASSOC INC	California	USAF	RDTE/Other Research & Development-Mgmt & S					100
		N Carolina	USAF	RDTE/Other Research & Development-Mgmt & S					50
									47

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	ATN MICROWAVE INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	49
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	82
	AURORA ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	BARRETT TECHNOLOGY INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	50
	BERNIER & ASSOCIATES INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	260
	BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Other Research & Development-Mgmt & S	51
	BIODYNAMIC RESEARCH CORP	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	66
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	343
	BONNEVILLE SCIENTIFIC INC	Utah	USAF	RDTE/Other Research & Development-Mgmt & S	250
	BOWIE STATE COLLEGE	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	79
	BRAIDTECH INC	Rhode Islid	USAF	RDTE/Other Research & Development-Mgmt & S	125
	CAD SYSTEMS, INC.	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	80
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	90
		Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	43,143
	CONTRACTOR TOTAL				43,233
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	85
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	250
	CHARLES RIVER ANALYTICS INC	Mass	NAVY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	50 56
			STATE TOTAL		106
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	439
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	275
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	528

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)				
CONDUCTUS INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 50
CONTINENTAL SYSTEMS TECHNOLOGY	Georgia	USAF	RDTE/Other Research & Development-Mgmt & S	57
CREARE INC	N.H.	ARMY	RDTE/Other Research & Development-Mgmt & S	50
		USAF	RDTE/Other Research & Development-Mgmt & S	389
	STATE TOTAL			439
CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	50
CRYSTAL ASSOCIATES INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	50
D M E CORP	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	100
DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	341
		NAVY	RDTE/Other Research & Development-Mgmt & S	49
	STATE TOTAL			390
DELEX SYSTEMS INCORPORATED	California	NAVY	RDTE/Other Research & Development-Mgmt & S	49
DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	210
EAI CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	292
ELECTROCHEM INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	56
ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S	277
EMCORE CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	79
ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other Research & Development-Mgmt & S	463
ENVIRONMENTAL SYSTEMS RES INST	California	ARMY	RDTE/Other Research & Development-Mgmt & S	2,597
EPOCH ENGINEERING INC	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	53
EXPERTSOFT	California	USAF	RDTE/Other Research & Development-Mgmt & S	250
F & H APPLIED ASSOCIATES INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	44
FAAA ELECTRICAL	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	439
FAAC INCORPORATED	Michigan	ARMY	RDTE/Other Research & Development-Mgmt & S	51
FIBERTEK INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ16 (CONTINUED)

FORWARD VISION	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	\$	61
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S		56
		USAF	RDTE/Other Research & Development-Mgmt & S		422
		STATE TOTAL			478
GALAXY MICROSYSTEMS INC	Texas	USAF	RDTE/Other Research & Development-Mgmt & S		49
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S		1,031
GEOMET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		27
GEORGIA TECH RESEARCH CORP	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		76
	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		189
		CONTRACTOR TOTAL			265
GUPTA PRADEEP K INC	New York	USAF	RDTE/Other Research & Development-Mgmt & S		50
HADLOCK FRANK & ASSOCIATES	Tennessee	NAVY	RDTE/Other Research & Development-Mgmt & S		100
HNC INC	California	USAF	RCTE/Other Research & Development-Mgmt & S		250
HONEYWELL FEDERAL SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		234
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Mgmt & S		345
HUMAN PERFORMANCE RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S		47
I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Mgmt & S		1,002
I NET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		93
IMAGINATION WORKS THE	California	NAVY	RDTE/Other Research & Development-Mgmt & S		455
INTEGRATED PARALLEL TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Mgmt & S		50
INTEGRATED SENSORS INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S		50
INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		48
INTELLIGENT AUTOMATION INC	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S		190
INTERNATIONAL COMPUTERS & TELC	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S		299

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	ISM TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 264
	ISOTHERMAL SYSTEMS RESEARCH	Kentucky	USAF	RDTE/Other Research & Development-Mgmt & S	99
	ISX CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	JIL SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	83
	KARTA TECHNOLOGY INC	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	51
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	80
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	142
	KTAADN INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	245
	LINDSEY ASSOCIATES	Illinois	NAVY	RDTE/Other Research & Development-Mgmt & S	50
	LOGISTICS MGT INSTITUTE	D.C.	OCE	RDTE/Other Research & Development-Mgmt & S	877
	LUXTRON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	100
	M P D INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	82
	M R J INC	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S	49
	M TECHNOLOGIES	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	243
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	430
	MACHINE PERCEPTION INTL	California	ARMY	RDTE/Other Research & Development-Mgmt & S	51
	MANAGEMENT & PERSONNEL SYSTEM	California	ARMY	RDTE/Other Research & Development-Mgmt & S	37
	MANDEX INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	50
	MARTINGALE RESEARCH CORP	Texas	NAVY	RDTE/Other Research & Development-Mgmt & S	499
	MEI ASSOCIATES INC	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	82
	MEMBRANE TECHNOLOGY & RESEARCH	California	ARMY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	281 66
	STATE TOTAL				347
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Other Research & Development-Mgmt & S	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	MONTEREY TECH	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	MORRIS BROWN RESEARCH INSTI	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	96
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	6,584
	OMNITEK INC	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S	50
	ONTAR CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	386
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	267
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	793
		Hawaii	NAVY	RDTE/Other Research & Development-Mgmt & S	48
	CONTRACTOR TOTAL				841
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	526
	ORION RESEARCH INCORPORATED	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S	488
		Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	210
		PANAMA	ARMY	RDTE/Other Research & Development-Mgmt & S	847
	CONTRACTOR TOTAL				1,545
	PACIFIC SIERRA RESEARCH CORP	California	USAF	RDTE/Other Research & Development-Mgmt & S	53
	PDA ENGINEERING	California	USAF	RDTE/Other Research & Development-Mgmt & S	190
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	234
	PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	57
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Other Research & Development-Mgmt & S	59
	PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S	193
	PROPULSION DYNAMICS INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	60
	Q DOT INC	Colorado	ARMY	RDTE/Other Research & Development-Mgmt & S	315
		USAF	RDTE/Other Research & Development-Mgmt & S	479	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ16 (CONTINUED)

STATE TOTAL					\$
QUADRAX ADV MATERIALS SYS	Rhode Isld	ARMY	RDTE/Other Research & Development-Mgmt & S		794
QUALITY DECISION	Mass	USAF	RDTE/Other Research & Development-Mgmt & S		50
QUANTICS INC	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S		50
ROCHESTER PHOTONICS CORP	New York	USAF	RDTE/Other Research & Development-Mgmt & S		632
RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S		99
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S		85
SCHLUMBERGER TECHNOLOGY CORP	Michigan	ARMY	RDTE/Other Research & Development-Mgmt & S		50
SCHNEIDER INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S		2,246
SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S		91,153
	Mass	USAF	RDTE/Other Research & Development-Mgmt & S		55
					50
CONTRACTOR TOTAL					105
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		152
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		4,769
SIGNAL ENGINEERING INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		50
SIMULA INC	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S		99
		USAF	RDTE/Other Research & Development-Mgmt & S		161
STATE TOTAL					260
SOLUTIONS UNLIMITED	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S		51
SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S		60
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		177
SPARTA INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		300
SPECTRA SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S		50
SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Mgmt & S		786

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CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION		
AZ16 (CONTINUED)					
SRS TECHNOLOGIES	Alabama	USAF	RDTE/Other Research & Development-Mgmt & S	\$	50
SUPERIOR VACUUM TECHNOLOGY	Minnesota	USAF	RDTE/Other Research & Development-Mgmt & S		50
SURFACE OPTICS CORP	California	USAF	RDTE/Other Research & Development-Mgmt & S		51
SUSQUEHANNA RESOURCES ENVRNMNT	New York	NAVY	RDTE/Other Research & Development-Mgmt & S		480
SVERDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S		47,842
SYRACUSE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		93
SYSTEMS EXPLORATION INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		50
SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		342
TAU CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S		50
TDA RESEARCH INC	Colorado	USAF	RDTE/Other Research & Development-Mgmt & S		54
TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		110
TEM ASSOCIATES	D.C.	USAF	RDTE/Other Research & Development-Mgmt & S		150
TEXAS A & M RESEARCH FDN	Texas	OCE	RDTE/Other Research & Development-Mgmt & S		58
TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Mgmt & S		192
TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S		412
TYBRIN CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		50
UNISTRY ASSOCIATES	Penn	USAF	RDTE/Other Research & Development-Mgmt & S		238
UNISYS CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S		199
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		393
UTAH BIORESEARCH INC	Utah	USAF	RDTE/Other Research & Development-Mgmt & S		50
VERSATRON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S		97
VIRGINIA STATE UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		50
WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S		121
	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	

AZ16 (CONTINUED)

CONTRACTOR TOTAL					\$	
	WAGONER JAMES E	California	USAF	RDTE/Other Research & Development-Mgmt & S	171	
	WEDEVEN ASSOCIATES INC	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	52	
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	190	
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Other Research & Development-Mgmt & S	52	
	XMCO INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	391	
					50	
	R&D TOTAL				228,434	
	GRAND TOTAL FOR R&D				\$ 20,898,366	

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